#### **COMMONWEALTH OF KENTUCKY**

#### BEFORE THE PUBLIC SERVICE COMMISSION

#### In the Matter of:

| Electronic Application Of Kentucky Power Company      | ) |                     |
|---|---|---------------------|
| For (1) A General Adjustment Of Its Rates For         | ) |                     |
| Electric Service; (2) Approval Of Tariffs And Riders; | ) |                     |
| (3) Approval Of Accounting Practices To Establish     | ) | Case No. 2023-00159 |
| Regulatory Assets And Liabilities; (4) A              | ) |                     |
| Securitization Financing Order; And (5) All Other     | ) |                     |
| Required Approvals And Relief                         | ) |                     |
|   |   |                     |

#### **SECTION III**

#### DIRECT TESTIMONY OF CARLIN, ALI, BURKHOLDER, STEWARD, AND ADAMS ON BEHALF OF KENTUCKY POWER COMPANY

**VOLUME 4 OF 4** 

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#### DIRECT TESTIMONY OF

#### ANDREW R. CARLIN

#### ON BEHALF OF KENTUCKY POWER COMPANY

# DIRECT TESTIMONY OF ANDREW R. CARLIN, ON BEHALF OF KENTUCKY POWER COMPANY BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY

#### CASE NO. 2023-00159

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## DIRECT TESTIMONY OF ANDREW R. CARLIN ON BEHALF OF KENTUCKY POWER COMPANY BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY

#### CASE NO. 2023-00159

#### I. INTRODUCTION

PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

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Q.

| 2  | A. | My name is Andrew R. Carlin, and my business address is 1 Riverside Plaza,           |
|----|----|--|
| 3  |    | Columbus, Ohio 43215.  |
|    |    | II. <u>BACKGROUND</u>  |
| 4  | Q. | PLEASE SUMMARIZE YOUR EDUCATIONAL BACKGROUND AND                                     |
| 5  |    | BUSINESS EXPERIENCE.   |
| 6  | A. | I received a Bachelor of Arts Degree from Bowdoin College in 1988 with majors in     |
| 7  |    | both Economics and Government. I also received a Master of Business Administration   |
| 8  |    | Degree from the J. L. Kellogg Graduate School of Management at Northwestern          |
| 9  |    | University in 1992, with concentrations in finance, management strategy, and         |
| 10 |    | accounting.  |
| 11 |    | From 1987 to 1988, I worked for Putnam Investor Services as a Shareholder            |
| 12 |    | Services Representative. From 1988 to 1990 and in the summer of 1991, I worked as    |
| 13 |    | an Associate Consultant and Research Analyst in the U.S. Compensation Practice for   |
| 14 |    | William M. Mercer, a leading international human resource consulting firm. From 1992 |
| 15 |    | to 2000, I worked for Bank One Corporation, now J.P. Morgan Chase, in multiple       |

planning, finance and compensation capacities.

I joined American Electric Power Service Corporation ("AEPSC") as the Director of Executive Compensation & Benefits in 2000. In 2002, my role was expanded to include responsibility for employee compensation in addition to executive compensation and benefits.

A.

### 5 Q. BRIEFLY DESCRIBE YOUR DUTIES AND RESPONSIBILITIES AS 6 DIRECTOR - COMPENSATION AND EXECUTIVE BENEFITS.

With assistance from other members of the Total Rewards<sup>1</sup> department and oversight from AEP management, I am primarily responsible for designing and administering compensation and executive benefits programs that attract, engage, motivate, and retain employees with the skills and experience needed to provide service to customers effectively, efficiently, and safely. These programs are components of a Total Rewards program that is designed to be market-competitive overall. The Total Rewards team conducts ongoing research and recommends changes to compensation and benefit programs to maintain compensation and benefits at reasonable, prudent, and market competitive levels to achieve these objectives. The team also develops communications materials in support of compensation and benefit programs and maintains compliance with federal and state regulations related to compensation and benefits.

### Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY?

A. Yes. I have testified in person or submitted written testimony in many regulatory proceedings, including case numbers 2009-00459, 2013-00197, 2014-00396, 2017-

<sup>&</sup>lt;sup>1</sup> Total rewards generally is the value that employees derive from their work, including compensation, benefits, training, development, and recognition.

1 00179 and 2020-00174 before the Kentucky Public Service Commission
2 ("Commission") on behalf of Kentucky Power. My previous testimony was focused on
3 compensation and benefits.

#### III. PURPOSE OF TESTIMONY

#### 4 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS PROCEEDING?

5 A. The purpose of my testimony is to describe the AEP System's total compensation

6 philosophy. I will also present information that demonstrates that the AEP System's

employee variable pay programs are reasonable and in the best interests of customers.

8 Accordingly, my testimony will establish that short-term and long-term compensation

are necessary components of the AEP System's employee compensation package that

is used to attract and retain experienced, skilled, and knowledgeable employees needed

to provide safe and reliable electric service to Kentucky Power customers.

#### 12 Q. ARE YOU SPONSORING ANY EXHIBITS OR SCHEDULES?

- 13 A. Yes, I am sponsoring the numerous Exhibits listed in the table of contents to my
  14 testimony. I am not sponsoring any schedules.
  - Exhibit ARC-1 Compensation Survey List

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- Exhibit ARC-2 Target Total Cash Compensation vs. Market for Technical, Craft and Clerical Positions
- Exhibit ARC-3 Target Total Cash Compensation vs. Market for Nonexempt
   Salaried Positions
- Exhibit ARC-4 Target Total Cash Compensation vs. Market for Exempt Positions
- Exhibit ARC-5 Target Total Cash Compensation and Total Compensation vs.

  Market for Executive Positions
- Exhibit ARC-6 2022 Short-Term Incentive Framework

|        |    | CARLIN - 4   |
|--------|----|--|
| 1      |    | • Exhibit ARC-7 - Benefit Summary Chart 2022-2023  |
| 2      |    | • Exhibit ARC-8 - Healthcare Benefit Plan and Employee Cost Summary – 2022   |
| 3      |    | • Exhibit ARC-9 - 2023 Employer and Employee Contribution Rates  |
| 4      |    | • Confidential Exhibit ARC-10 - CONFIDENTIAL 2023 Aon Benefit Index  |
| 5<br>6 |    | <ul> <li>Confidential Exhibit ARC-11 - CONFIDENTIAL 2022 Willis Towers Watson<br/>Healthcare Financial Benchmark Survey</li> </ul> |
|        |    | IV. EXECUTIVE SUMMARY  |
| 7      | Q. | PLEASE GENERALLY DESCRIBE THE COMPANY'S REQUEST WITH   |
| 8      |    | RESPECT TO COMPENSATION IN THIS PROCEEDING.  |
| 9      | A. | The Company is requesting inclusion of the target level of direct Kentucky Power   |
| 10     |    | Company and indirect Wheeling Power Company annual or short-term incentive   |
| 11     |    | ("STI") compensation of \$1,862,503 and long-term incentive ("LTI") compensation of  |
| 12     |    | \$181,125 in cost of service. The indirect target level of STI and LTI allocated from  |
| 13     |    | Wheeling Power Company is Kentucky Power Company's ownership share of the  |
| 14     |    | Mitchell and Kammer generating plants. The adjustment to reduce the cost of this   |
| 15     |    | annual and long-term incentive compensation to the target level is supported   |

by Company Witness Whitney.

The Company faces unrelenting competition for employees with other utilities and utility contractors both within and outside our service territory, as well as with employers in other industries, such as construction and oil and gas. The provision of market-competitive compensation and benefits is necessary to enable the attraction and retention of employees with the skills and experience necessary to provide reliable electric service, in a manner that is safe, efficient, effective and at a reasonable cost to

Kentucky Power customers. This testimony demonstrates that the compensation and benefits the Company offers employees, inclusive of STI and LTI compensation, is customary, prudent, reasonable, market competitive, and a benefit to customers.

The Company's compensation and employee benefits are managed, with those of other AEP system companies, within the context of labor market trends, to control employee labor and benefit expense for the benefit of both customers and shareholders. The Company's Base Pay increase budgets substantially lagged behind the market median in 2009 and 2010 and have only recently largely made up the lost ground. Base pay growth was accelerated in 2022 and 2023 to address attraction and retention issues, but this is not expected to significantly increase the Company's compensation relative to market-competitive compensation.

There are certain disciplines for which market-competitive total compensation is increasing faster than for other positions, such as journey level line mechanics, for which there is a significant shortage. This line mechanic shortage is likely to continue to drive higher compensation growth rates for these Kentucky Power employees as well as for line mechanics at other Kentucky utilities, contractors supporting utilities, and all employers of line mechanics nationwide.

Short-Term Incentive (STI) compensation benefits customers, by enabling the Company to attract and retain suitable the suitably skilled and experienced employees needed to provide service to customers efficiently, effectively, and safely as part and parcel of a reasonable and market competitive Total Compensation package. The ability to attract and retain such a workforce is essential to meeting customers' needs at a reasonable cost because offering less than market competitive compensation would

increase hiring and training costs, reduce productivity, increase position vacancy, decrease outage response time and service levels, and increase the cost of service for customers. Because the target level of Company's Incentive Compensation is a component of a reasonable and market competitive Total Compensation package, it provides these benefits without incurring any incremental cost above the cost of providing market competitive compensation through Base Pay alone. Among many other benefits, STI compensation helps maintain higher levels of employee and company performance than would be achieved using Base Pay alone, which benefits customers by completing work more efficiently and effectively and thereby reducing costs. The financial portion of short-term incentive compensation benefits customers by continuously emphasizing the importance of financial discipline and directly encouraging employees to maintain financial discipline, spend conservatively, operate efficiently, and conserve resources, which is essential for providing reliable service at a reasonable cost to customers.

The Company's LTI compensation is similar to STI compensation in that it too is an integral component of reasonable and market competitive Total Compensation package for participants. In addition to the benefits mentioned above that STI compensation provides to customers, LTI compensation provides a retention incentive to participants that benefits customers by improving the retention of employees with greater Company experience in roles that have long-term decision-making responsibility, which improves the continuity of the Company's operations and benefits customers by providing more efficient, effective, and consistent operations. Financial LTI measures also communicate that it is imperative to maintain financial discipline

and strongly encourage its pursuit, which directly benefits customers by reducing the Company's cost of service and rates compared to what they would otherwise be. LTI also encourages a longer-term decision-making perspective, which is particularly imperative given the expected long service life of the assets that comprise the Company's electric system.

A.

#### V. OVERVIEW OF COMPENSATION PRACTICES

#### Q. WHAT ARE THE COMPENSATION TERMS USED IN THIS TESTIMONY?

The Company compensates all employees, except co-op students and interns, with a combination of a fixed base wage or salary ("Base Pay") and a variable annual short-term incentive ("STI") compensation opportunity. I refer to the sum of these two types of compensation (Base Pay + STI) as Total Cash Compensation ("TCC").

Approximately 1,425 AEP positions also have a regular annual long-term incentive ("LTI") compensation opportunity. These positions generally require unique skills and involve roles for which long-term continuity, prudency, and vision are required.

Total Compensation is comprised of Base Pay, STI compensation and, for eligible positions, LTI compensation: (Base Pay + STI + LTI = Total Compensation). I refer to the sum of STI and LTI, if applicable, collectively as Incentive Compensation. Total Compensation and TCC are the same for employees in positions that do not have a regular annual LTI opportunity.

I refer to the target value of Incentive Compensation as Target STI, Target LTI or collectively as Target Incentive Compensation. When target values of Incentive

- 1 Compensation are combined with Base Pay, I refer to these values as Target TCC (Base
- 2 Pay + Target STI = Target TCC) or Target Total Compensation (Base Pay + Target
- 3 STI + Target LTI = Target Total Compensation).
- 4 Q. PLEASE DESCRIBE THE VARIOUS TYPES OF EMPLOYEES THAT WORK
- 5 FOR THE COMPANY AND HOW EACH TYPE OF EMPLOYEE IS
- 6 **COMPENSATED.**

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The Company employs physical, craft, and technical employees, such as line A. mechanics and general servicers who are paid an hourly wage, with the potential for overtime and shift premiums, along with an STI opportunity. Wage increases for these employees primarily take the form of an annual general wage increase, which ensures that the Company's wages keep pace with labor market increases. The Company also provide equity adjustments, when needed, to address gaps to market-competitive wages, to standardize wages with those of other AEP operating companies and to address internal equity issues. AEPSC and the Company negotiate wage rates and increases for most physical, craft, and technical employees with labor unions as part of a collective bargaining process and agreement. Market median compensation rates, the growth rate of wages, employee turnover in these positions, union bargaining positions, and the wages paid by competitors for these employees are considered in determining AEPSC and the Company's positions for labor negotiations. Collectively bargained rates are generally mirrored in setting wages for unrepresented physical, craft, and technical employees. As a result, the wages the Company offers to employees for both represented and unrepresented physical, craft, and technical positions generally track market-competitive compensation.

Physical, craft, and technical employees also progress through job steps and job levels as they accumulate the experience and other qualifications needed to perform more demanding, dangerous, and challenging work safely. For example, Line Mechanics must complete the experience and other qualifications for Line Mechanic A, step 1 to progress from the top Line Mechanic B step (step 2) and begin receiving both the pay and work responsibilities associated with the higher position.

A.

The Company also employs non-exempt salaried employees as well as exempt professional, managerial, and executive employees. Employees in these types of positions participate in an annual performance review and merit pay program, along with the annual STI program. Some professional positions, many managerial positions, and all executive positions also participate in an LTI program. AEPSC's compensation team compares the compensation for these positions to market survey information to assign or reassign positions to salary grade levels and recommend compensation and other changes to maintain Total Compensation at reasonable and market-competitive levels.

### Q. DOES THE COMPANY FACE COMPETITION FOR SUITABLE EMPLOYEES?

Yes. The Company is in continuous competition to attract and retain suitable employees for nearly all positions. The competition is particularly stiff and relentless for fully trained employees with the necessary skills and experience needed to provide service to customers efficiently, effectively, and safely. Increased demand for such employees, as baby boomers and others leave the labor market, and increased labor market inflation all recently increased the cost of labor, employee turnover, time to hire, and hiring

costs. The Company's current and prospective employees largely have other options and no pressing need to accept or continue an employment relationship with the Company. Therefore, the Company has little choice but to provide market completive compensation and benefits as well take other appropriate actions to maintain and enhance the Company's reputations as desirable, respectable, and safe places to work.

The Company competes for these employees with other utilities and utility contractors both within and outside our service territory, as well as with employers in other industries, such as construction and oil and gas. Utility contractors perform roughly half of the Company's physical, craft, and technical work, and the entities that perform this work compete with the Company, directly or indirectly, for suitable employees. Utility contractors are free to structure the mix of Base Pay, Incentive Compensation, and employee benefits that they offer to employees in any manner that best suits their needs, and the labor market will bear. This gives utility contractors a competitive advantage over regulated utilities, which may not always obtain full rate recovery of the compensation and benefits offered to employees.

The market survey data in Exhibits ARC 3-6 show that, at the median, employers provide Incentive Compensation to all positions offered within the Company and AEPSC for which survey data is available. I discuss this in more detail in the Competitiveness of Total Compensation section below. As a result, it is likely that most of the contract labor performing work for Kentucky Power Company work receives Incentive Compensation.

#### 1 Q. WHAT IS THE COMPANY'S AND AEPSC'S OVERALL APPROACH TO 2

**COMPENSATION?** 

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A.

The primary objective of Company's Total Compensation program is to enable the attraction and retention of the suitably skilled and experienced employees needed to provide service to customers efficiently, effectively, and safely, which are identifiable customer benefits. The Company's compensation is managed by the AEPSC compensation team within the Human Resources department, in a manner that is generally consistent with that of other AEP system companies, based on labor market trends, business needs, labor negotiations, employee turnover and hiring trends, among other factors. The compensation strategy for achieving this objective is to provide a Total Compensation opportunity that is, on average, at the median of the Total Compensation opportunities provided for similar positions in the labor market. Focusing on Total Compensation opportunity, rather than Base Pay alone, is the correct methodology for compensation comparisons because only Total Compensation takes all statistically significant types of compensation into account.

As with most large employers, we find that providing a market-competitive Total Compensation package to employees is an efficient and effective strategy because it allows the Company to attract and retain the suitably skilled and experienced employees needed to provide service to customers without either paying above median Total Compensation or creating excessive position turnover and vacancy.

For positions that are specific to the energy services industry, the AEPSC compensation tam uses energy services industry specific compensation survey data, which is the only type of data available for positions specific to this industry. For positions found in multiple industries, the Companies use general industry survey data, which provides the largest possible sample. In both cases, because AEP operates in multiple states and regions of the United States, the AEPSC compensation team uses U.S. national compensation survey data, which has the benefit of providing the largest and most statistically significant sample.

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The Total Compensation opportunity that the Company and other regulated AEP affiliates provide is comprised of Base Pay and a variable 'at risk' Incentive Compensation opportunity. As part and parcel of a reasonable, customary, and marketcompetitive Total Compensation, the Company provides variable Incentive Compensation to motivate and encourage employees to control costs, improve customer service, and work safely, among other reasons. As such, the variable Incentive Compensation portion of Total Compensation is compensation the Company and AEPSC would need to provide as Base Pay if it did not provide variable Incentive This also has the advantage, compared to fixed Base Pay, of Compensation. encouraging employees to improve their performance, which collectively results in improved performance of the Company and better service rendered to customers. Including variable Incentive Compensation in the Total Compensation mix allows operational goals to be communicated more effectively, aligns employee efforts with these goals, encourages goal achievement, and bolsters the development of a highperformance culture, all without increasing compensation expense.

Because Incentive Compensation fosters a better performing workforce than Base Pay alone, we believe that a blend of these two types of compensation is the most cost efficient and effective compensation strategy for providing reliable electric service to customers. This approach also better enables the Company to compete in the labor market to attract, retain and engage higher performing employees than it otherwise would with the same amount of Total Compensation provided only in the form of Base Pay. The benefits provided by variable Incentive Compensation (better operational performance, improved teamwork, and reduced cost, among other benefits) reduce the Company's cost of providing electric service, which directly benefits customers.

DOES THE USE OF MARKET MEDIAN AS THE COMPANY'S AND

moving target.

Q.

A.

AEPSC'S PRIMARY COMPENSATION BENCHMARK IMPLY THAT EMPLOYEE COMPENSATION WILL GENERALLY BE AT THE MEDIAN? Not necessarily. First, variances in job requirements, employer pay practices, and locational differences create a range of market compensation rates; therefore, compensation practices are designed to deliver compensation that is within a market-competitive range around the market median. In addition, salary ranges for each salary grade extend approximately 22.5% above and below the midpoint, to reflect the range of compensation for positions. The salaries of individual salaried employees may fall anywhere within the assigned range depending on individual performance, qualifications, time in job, and other factors. Furthermore, the employers that participate in compensation surveys, the incumbents in the jobs reported in those surveys, and the compensation for these incumbent employees are all constantly changing so it is not possible to precisely set compensation levels given this constantly

#### 1 Q. HOW DO YOU DETERMINE THAT TOTAL COMPENSATION LEVELS

#### ARE REASONABLE AND MARKET-COMPETITIVE?

A.

The AEPSC compensation team compares the Company's and other AEP affiliate's compensation levels and practices to those of similar employers for similar positions to ensure that they are reasonable and market competitive. The AEPSC compensation team relies on third-party compensation surveys to provide robust market compensation benchmarks based on statistically sound survey methodologies, including extensive and independently verified compensation information for statistically significant samples of incumbents in a wide variety of jobs.

To make these comparisons, the AEPSC compensation team matches the Company's and other AEP affiliate positions to the survey positions based on each job's function, specialty, level, survey company input and other factors. The AEPSC compensation team then compares compensation levels and practices to the survey sample to determine the best compensation benchmark for each matched job, considering any material differences in each position's scope. Market median target Total Compensation is generally used as the primary compensation benchmark. Base Pay and Target TCC are used as additional points of comparison. The AEPSC compensation team then assigns each merit pay eligible job to a salary grade, with an associated salary range, STI target and, if applicable, LTI target based on the range that best fits each position's market compensation benchmarks, while also providing a smooth grade progression for job families and internal equity. The AEPSC compensation team also uses this process to periodically review and update compensation rates, salary grades, incentive targets and other compensation practices

to maintain market-competitive compensation for each position. This process is consistent with the compensation practices of most electric utilities and other large U.S. companies like Kentucky Power. The market compensation surveys completed and used in this process to evaluate compensation for the test year are listed in Exhibit ARC-1.

A.

### Q. WHY IS TOTAL COMPENSATION CHOSEN AS THE PRIMARY POINT OF COMPARISON RATHER THAN BASE SALARY?

The AEPSC compensation team uses Total Compensation as the primary point of comparison because it includes all statistically significant types of employee compensation. Only with the inclusion of the variable incentive portion does the Company's and AEPSC's Total Compensation generally reach the market-competitive range; without it, Total Compensation would not be market-competitive. Moreover, survey information shows definitively that STI is a significant component of market-competitive compensation for all the Company's and AEPSC's positions. Likewise, survey information shows that LTI is a significant and often substantial component of market competitive compensation for those positions that annually participate in AEP's LTI program. Therefore, any assessment of market competitive compensation for the Company's and AEPSC's positions that does not include both types of incentive compensation would be invalid.

In addition, because the AEPSC compensation team considers the value of Incentive Compensation provided by both the market in assigning job grades to positions, the Company's Base Pay levels are typically lower than employers that provide less or no Incentive Compensation opportunity. Because the mix of Base Pay,

| 1  |    | STI, and LTI in Total Compensation can vary significantly across employers, any Total |
|----|----|---|
| 2  |    | Compensation analysis that does not consider Incentive Compensation is incomplete.    |
| 3  | Q. | DOES THE TARGET LEVEL OF INCENTIVE COMPENSATION                                       |
| 4  |    | CONTRIBUTE TO A TOTAL COMPENSATION OPPORTUNITY THAT                                   |
| 5  |    | EXCEEDS THE MARKET-COMPETITIVE RANGE OR A REASONABLE                                  |
| 6  |    | LEVEL?  |
| 7  | A. | No. Unlike some other 'bonus' type incentive plans, the target level of the Company's |
| 8  |    | Incentive Compensation does not create Total Compensation that is over and above      |
| 9  |    | market-competitive Total Compensation. Instead, the target level of the Company's     |
| 10 |    | Incentive Compensation is a portion of a market-competitive and reasonable Total      |
| 11 |    | Compensation package that is at risk to encourage performance improvement and the     |
| 12 |    | achievement of performance goals and objectives.                                      |
| 13 |    | The Company is requesting that only the target portion of 1. The direct cost of       |
| 14 |    | Kentucky Power Company STI and 2. the allocated ownership share of the Mitchell       |
| 15 |    | and Kammer plants STI for the test year be included in the Company's cost of service  |
| 16 |    | rather than the actual cost, which was substantially higher. The adjustment to reduce |
| 17 |    | these annual and long-term incentive compensation expenses to the target level        |
| 18 |    | is supported by Company Witness Whitney.  |
| 19 |    | When combined with Base Pay, the target value of STI is designed to bring             |
| 20 |    | employee Total Compensation to a market-competitive and reasonable level              |
| 21 |    | Therefore, the target value of Incentive Compensation is a critical component of the  |
| 22 |    | market-competitive Total Compensation package that the Company depends on to help     |
| 23 |    | attract and retain qualified employees.   |

#### VI. ACTIONS TAKEN TO CONTROL COMPENSATION EXPENSE

#### Q. HOW DO THE COMPANY'S BASE PAY INCREASES COMPARE TO THOSE

#### 2 OF OTHER UTILITY INDUSTRY EMPLOYERS?

1

3 A. As Figure ARC 1 below demonstrates, the Company's total Base Pay increases for 4 nonexempt salaried, exempt and executive positions lagged the market median rate of 5 Base Pay increases over the 2009 through 2021 period, only catching up in 2022 and 6 2023 for exempt and non-exempt salaried positions. Executive Base Pay increases 7 continue to lag behind the market by 2.47%. This lag is primarily the result of a salary 8 freeze that occurred in 2009 for most positions and in both 2009 and 2010 for executive 9 positions that the Company and other AEP affiliates implemented in response to the 10 recession that began in 2008. Figure ARC-1 below compares the Company's and 11 AEPSC's salary increase budgets to median utility industry Base Pay increase budgets 12 for these types of positions for the years 2009 through 2023 (projected).

| Figure ARC-1 |                           |            |           |            |           |            |
|--------------|---------------------------|------------|-----------|------------|-----------|------------|
|              | Nonexempt Salaried Exempt |            | Executive |            |           |            |
|              |                           | Company    |           | Company    |           | Company    |
|              |                           | & Other    |           | & Other    |           | & Other    |
|              |                           | AEP        |           | AEP        |           | AEP        |
|              | Industry*                 | Affiliates | Industry* | Affiliates | Industry* | Affiliates |
| 2009         | 2.75%                     | 0.00%      | 2.50%     | 0.00%      | 2.00%     | 0.00%      |
| 2010         | 2.70%                     | 2.00%      | 3.00%     | 2.00%      | 2.95%     | 0.00%      |
| 2011         | 3.00%                     | 3.20%      | 2.90%     | 3.20%      | 3.00%     | 3.20%      |
| 2012         | 2.75%                     | 2.68%      | 3.00%     | 2.68%      | 3.00%     | 2.68%      |
| 2013         | 3.00%                     | 3.00%      | 3.00%     | 3.00%      | 3.00%     | 3.00%      |
| 2014         | 3.00%                     | 3.35%      | 3.00%     | 3.35%      | 3.00%     | 3.35%      |
| 2015         | 3.00%                     | 3.50%      | 3.00%     | 3.50%      | 3.00%     | 3.00%      |
| 2016         | 3.00%                     | 3.50%      | 3.00%     | 3.50%      | 3.00%     | 3.00%      |
| 2017         | 3.00%                     | 3.50%      | 3.00%     | 3.50%      | 3.00%     | 3.50%      |
| 2018         | 3.00%                     | 3.00%      | 3.00%     | 3.00%      | 3.00%     | 3.00%      |
| 2019         | 3.00%                     | 3.50%      | 3.00%     | 3.50%      | 3.00%     | 3.50%      |
| 2020         | 3.00%                     | 3.50%      | 3.00%     | 3.50%      | 3.00%     | 3.50%      |
| 2021         | 3.00%                     | 3.00%      | 3.00%     | 3.00%      | 3.00%     | 3.00%      |
| 2022         | 3.00%                     | 3.50%      | 3.00%     | 3.50%      | 3.00%     | 3.50%      |
| 2023**       | 4.00%                     | 4.50%      | 4.00%     | 4.50%      | 4.25%     | 4.50%      |
| Total        | 45.20%                    | 45.73%     | 45.40%    | 45.73%     | 45.20%    | 42.73%     |
| Difference   |                           | 0.53%      |           | 0.33%      |           | -2.47%     |

<sup>\*</sup>The Conference Board Research Report, U.S. Salary Increase Budgets for 2010-2023

\*\*The Conference Board projected 2023 market median vs. the Company's and other AEP

Affiliate's 2023 actual salary increase budget, which includes 0.5% for target equity
adjustments held at the senior management level. 4.09% of the 4.50% increase budget was

implemented effective April 1, 2023.

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For hourly physical, craft, and technical employees, Base Pay increases lagged the market and continue to lag the market. Figure ARC-2 below shows that for the period 2009 through 2023 (projected), the Company's and other AEP affiliates' Base Pay increases for hourly physical, craft, and technical employees lagged the market median by 2.95%.

| Figure ARC-2 |   |                   |  |
|--------------|---|-------------------|--|
|              | Hourly Physical, Craft, and Technical Employees |                   |  |
|              | Utility Industry                                | Company and Other |  |
| Year         | Market Median*                                  | AEP Affiliates    |  |
| 2009         | 2.50%   | 0.00%             |  |
| 2010         | 2.85%   | 2.00%             |  |
| 2011         | 2.90%   | 3.00%             |  |
| 2012         | 3.00%   | 2.00%             |  |
| 2013         | 3.00%   | 2.50%             |  |
| 2014         | 3.00%   | 2.50%             |  |
| 2015         | 3.00%   | 3.50%             |  |
| 2016         | 3.00%   | 3.50%             |  |
| 2017         | 3.00%   | 5.00%             |  |
| 2018         | 3.00%   | 2.50%             |  |
| 2019         | 3.00%   | 3.50%             |  |
| 2020         | 3.00%   | 3.50%             |  |
| 2021         | 3.00%   | 2.50%             |  |
| 2022         | 3.20%   | 3.00%**           |  |
| 2023***      | 4.00%   | 3.50%             |  |
| Total        | 45.45%  | 42.50%            |  |
| Difference   |   | -2.95%            |  |

<sup>\*</sup> The Conference Board Research Report, U.S. Salary Increase Budgets for 2010-2023.

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Effective January 1, 2022, as collectively bargained or determined by AEPSC management, the Company and other AEP affiliates implemented a 2.0% shift of incentive compensation to base wages effective January 1, 2022. This was applicable to wages for most represented positions and unrepresented employees in similar physical and craft positions. This reduced incentive targets for most of these positions by 2.0% of base pay (from 5% to 3%) and increased base pay rates by the same 2.0%.

<sup>\*\*</sup>There were additional 2022 wage increases for some physical and craft employees, which are described in the following two paragraphs below.

<sup>\*\*\*</sup>The Conference Board projected 2023 market median vs. the Company's and other AEP Affiliates' 2023 collectively bargained wage increases.

This change in compensation mix was approximately cost neutral at the target level of incentive compensation and it is therefore not included in Figure ARC-2.

Effective January 1, 2022, the Company and other AEP affiliates also provided an additional 1.0% base pay increase for journey level line workers and reduced the number of steps required to obtain the journey level.

Effective October 1, 2022, in reaction to a tightening labor market and difficulty retaining and attracting employees qualified for certain journey level skilled jobs, the Company and other AEP affiliates increased wages for journey level distribution line, transmission line, transmission station, and network jobs by ~7.5% and increased wages for journey level protection & control and meter jobs by ~4.5%. Figure ARC 3 below shows the elevated levels of turnover AEP has experienced since 2019, particularly for journey level line workers, which underscores the need for these additional increases.

| Figure ARC-3                  |      |           |       |
|-------------------------------|------|-----------|-------|
|                               |      | AEP Total |       |
|                               |      | Total     | %     |
|                               | Loss | in Job    | Loss  |
| 2022 Thru 7/1, not annualized |      |           |       |
| Line Journey Level            | 37   | 1391      | 2.66% |
| Line Apprentice               | 8    | 638       | 1.25% |
| All other Craft Workers       | 15   | 2920      | 0.51% |
| 2021                          |      |           |       |
| Line Journey Level            | 54   | 1384      | 3.90% |
| Line Apprentice               | 16   | 609       | 2.63% |
| All other Craft Workers       | 12   | 2881      | 0.42% |
| 2020                          |      |           |       |
| Line Journey Level            | 42   | 1335      | 3.15% |
| Line Apprentice               | 16   | 619       | 2.58% |
| All other Craft Jobs          | 7    | 2794      | 0.25% |
| 2019                          |      |           |       |
| Line Journey Level            | 75   | 1365      | 5.49% |
| Line Apprentice               | 25   | 597       | 4.19% |
| All other Craft Workers       | 14   | 2768      | 0.51% |

Figure ARC-1 and Figure ARC-2 above show that the Company's Base Pay increase budgets substantially lagged the market median in 2009 and 2010 and have yet to make up all the lost ground. Base pay growth was accelerated in 2022 and 2023 to address attraction and retention issues but AEP's compensation team does not expect this to significantly increase the Company's compensation relative to market-competitive compensation, given the increased rate of labor market inflation for 2022 that continued into 2023. Reducing and managing the growth of employee wages, particularly during times of substantial economic downturn, is one of several difficult steps that the Company and other AEPSC affiliates have taken to control labor expense for the benefit of customers. The impact of these steps is still apparent today, as the above figures show. These actions, along with continued employee teamwork and

| 1 | commitment, directly reduced the cost of providing electric service to Kentucky Power |
|---|---|
| 2 | customers and the savings that remain will again be passed on Kentucky Power's        |
| 3 | customers as part of this rate proceeding.  |

### Q. DID THE COMPANY IMPLEMENT SALARY AND WAGE INCREASES FOR OTHER TYPES OF EMPLOYEES IN 2022 AND 2023?

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Yes. For those employees who are eligible for merit-based salary increases, the Company and other AEP Affiliates implemented 3.50% total salary increase budget effective April 1, 2022, which consisted of a 3.00% merit budget, a 0.25% line of progress promotion and equity adjustment budget and an additional 0.25% budget reserved by management for particularly competitive positions for which attraction and retention are a concern.

In addition, although just outside the test period for this case, the Company and other AEP affiliates also implemented 4.50% total salary increase budget effective April 1, 2023, which consisted of a 3.50% merit budget, a 0.50% line of progress promotion and equity adjustment budget and an additional 0.50% budget reserved by management for particularly competitive positions for which attraction and retention are a concern.

#### VII. <u>COMPETITIVENESS OF TOTAL COMPENSATION</u>

- 18 Q. HOW SHOULD THE COMPETITIVENESS OF THE COMPANY'S
  19 COMPENSATION BE ASSESSED?
- 20 A. All statistically significant forms of compensation should be considered in any analysis
- of compensation competitiveness. Because Incentive Compensation is a statistically

significant form of compensation for 100% of the Company's and other AEP Affiliate's positions, it should be included in any such analysis. The Company compete for employees with a great many other employers, a majority of which offer Incentive Compensation to the employees over which we compete. The Commission should look to whether Total Compensation, inclusive of Incentive Compensation, is within a market competitive range because such market competitive compensation is needed to attract and retain employees with the knowledge, experience, and qualifications needed to provide reliable electric services to customers efficiently, effectively, and safely, while minimizing overall expense.

Although reducing Total Compensation to less than the market-competitive range would reduce compensation expenses, this cost reduction would likely be more than offset by increased position vacancy, which reduces effectiveness, and increased hiring and training expenses due to increased employee turnover, as well as lower employee productivity, given the many years it often takes new employees to learn to perform their jobs safely, efficiently, and effectively. This is particularly true for positions that require lengthy apprenticeships or training periods to learn the skills needed to work independently and safely, such as the lineman job family, which requires five years to reach the journeyman level. In addition, it generally takes around three months to fill vacant positions and much longer for new employees to come up to speed on new duties, work processes and safety procedures. This lost or reduced productivity often must be backfilled by employees who are less efficient at this work, such as employees who normally perform other duties, or who are more expensive, such as the vacant position's supervisor. Employee turnover gives rise to many other

| incremental costs beyond the examples cited above. The incremental cost to customers    |
|---|
| of reduced service quality that results from increased vacancy as well as the increased |
| hiring and training expense due to higher employee turnover are the primary reasons     |
| that the provision of market-competitive Total Compensation is in the interests of, and |
| is a benefit to, Kentucky Power's customers.  |

# Q. HOW DOES TARGET TOTAL COMPENSATION FOR HOURLY PHYSICAL, CRAFT, AND TECHNICAL POSITIONS COMPARE WITH MARKET DATA?

A.

As shown in Exhibit ARC-2, Kentucky Power's and AEPSC's average target TCC for 63 hourly physical, craft, and technical positions in seven different Kentucky Power and AEPSC jobs was 2.4% below the market median as of March 31, 2023.<sup>2</sup> Assuming a market-competitive compensation range of +/- 10% of the survey median, which is typical practice for such positions, this shows Kentucky Power's and AEPSC's average target TCC is within the market-competitive range and reasonable relative to market-competitive Total Compensation.

Comparing Base Pay to market TCC further confirms that the Company's TCC, inclusive of STI, is market competitive. If STI were excluded (*i.e.*, comparing the Company's and AEPSC's Base Pay to market TCC) as shown by the graph in Exhibit ARC-2, then average compensation would be 5.5% below the market median, which would be in the bottom quartile of the market-competitive range.

<sup>&</sup>lt;sup>2</sup> Data source: Willis Towers Watson 2022 Energy Services Technical Support and Operations Survey Report – United States Compensation Report – Results by Function/discipline/Level (Incumbent Weighted).

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|-----------------|---------|-----------|----------|--------------|--------------------|
|-----------------|---------|-----------|----------|--------------|--------------------|

#### 2 COMPENSATION IS INCREASING FASTER THAN FOR OTHER

#### **POSITIONS?**

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4 A. Yes, certainly. There is a significant shortage of journey-level line mechanics and compensation is increasing accordingly for these Kentucky Power employees and for other Kentucky utilities and contractors. Employers, particularly utilities with an obligation to serve, often have little choice but to react to labor supply shortages by increasing the compensation they pay for the employees they need that are in short supply. Cybersecurity, data science, and forestry are other examples of disciplines for which compensation has been increasing at significantly higher than average rates.

### Q. HOW DOES TARGET TOTAL COMPENSATION FOR SALARIED NONEXEMPT POSITIONS COMPARE WITH MARKET DATA?

Exhibit ARC-3 indicates that, on average, the Company's and AEPSC's target TCC for 29 salaried nonexempt positions with 563 employees is near the middle of the market-competitive range (0.8% above the market median). However, like the compensation for hourly employees and consistent with the Company's and AEPSC's Total Compensation design, STI is an integral component of the market-competitive Total Compensation Opportunity for these employees. If STI is excluded, as shown by the graph in Exhibit ARC-3, then the average target TCC for these positions would be 5.8% below the market median and 41% of these positions would be paid less than the market-competitive range.

#### 1 Q. HOW DOES TARGET TOTAL COMPENSATION FOR NON-MANAGERIAL

#### EXEMPT POSITIONS COMPARE WITH MARKET DATA?

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3 A. Exhibit ARC-4 compares the Company's and AEPSC's compensation for non-4 managerial exempt positions to market survey information<sup>3</sup> using a slightly broader +/-5 15% of market median as the market-competitive range, which is typical for exempt 6 positions. The average target TCC for these positions was near the middle of the market 7 competitive range (1.7% below median) but, if STI were excluded, as shown by the 8 graph in Exhibit ARC-4, then the average target TCC for these 245 positions with 2,622 9 employees would be 12.6% below the market median and 43% of these positions would 10 be paid below the market-competitive range.

### Q. HOW DOES TARGET TOTAL COMPENSATION FOR EXECUTIVE POSITIONS COMPARE WITH MARKET DATA?

The Human Resources Committee of AEP's Board of Directors ("HR Committee") annually engages a nationally recognized, independent executive compensation consulting firm to conduct a compensation study of executive positions. The peer group used for this study consists of companies specifically selected by the HR Committee to represent the talent markets in which AEP compete to attract and retain senior management and executive employees. For the year 2022, executive compensation was within the market-competitive range overall for 20 executive positions whose compensation is billed to Kentucky Power (See Exhibit ARC-5). However, as shown in the graph in Exhibit ARC-5, Total Compensation predominantly would be below the

<sup>&</sup>lt;sup>3</sup> Sources: Willis Towers Watson 2022 Energy Services Middle Management & Professional Survey and Willis Towers Watson 2022 General Industry Middle Management & Professional Survey, April 2022.

| 1 market-competitive range without the STI component of Total Compe |
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Additionally, without the LTI component all these positions would be below the

3 market-competitive range.

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#### 4 Q. IS THE COMPENSATION OPPORTUNITY THAT THE COMPANY'S AND

#### AEPSC'S INCENTIVE COMPENSATION PROVIDES NECESSARY FOR

#### ATTRACTING AND RETAINING SUITABLE EMPLOYEES?

Yes. It is a best practice in compensation design to rely on robust compensation survey data for similar employers, such as the data included in exhibits ARC-2 through ARC-5, to gauge the reasonableness of employee compensation. These exhibits support the reasonableness of AEP's compensation levels as compared to other non-affiliated utility and other comparable employers. They also show that without the target value of Incentive Compensation, the compensation opportunity that the Company and other AEP Affiliates provide to employees would not be market competitive in many cases. For higher-level management and executive positions, the portion of compensation provided by STI and LTI compensation is necessary, both individually and in combination, to maintain any semblance of market-competitive total compensation for these positions. It is highly likely that, without the compensation opportunity that Incentive Compensation provides, the Company and AEPSC would experience increased turnover among all categories of employees and problematic levels of turnover for the many positions for which the average TCC would then be below the market-competitive range. Turnover becomes problematic for Kentucky Power customers when the Company and AEPSC cannot retain enough skilled and experienced employees to provide service efficiently, effectively, and safely to

| 1  |    | customers, which results in longer outages and increased costs to customers. These      |
|----|----|---|
| 2  |    | analyses shows that the portion of compensation provided by STI for all types of        |
| 3  |    | employees is necessary to maintain the competitiveness of the Company's and             |
| 4  |    | AEPSC's Total Compensation. As such, the target expense associated with the             |
| 5  |    | Company incentive compensation for all types of positions, irrespective of the form in  |
| 6  |    | which it is provided, is a necessary, reasonable, and appropriate cost of providing the |
| 7  |    | electric service to Kentucky Power customers.   |
| 8  | Q. | DOES ANY PORTION OF THE TARGET LEVEL OF INCENTIVE                                       |
| 9  |    | COMPENSATION EXCEED THE AMOUNT THAT IS REQUIRED TO                                      |
| 10 |    | PROVIDE MARKET-COMPETITIVE COMPENSATION TO EMPLOYEES?                                   |
| 11 | A. | No. As Exhibits ARC-2 through ARC-5 show, the target STI and LTI components of          |
| 12 |    | Total Compensation are not a 'bonus' that provides compensation in excess of market     |
| 13 |    | competitive Total Compensation. Rather, such Incentive Compensation is a critical       |
| 14 |    | element of a reasonable, necessary, and prudent market competitive Total                |
| 15 |    | Compensation package.   |
| 16 | Q. | ARE BOTH BASE PAY AND INCENTIVE COMPENSATION PART OF AN                                 |
| 17 |    | OVERALL REASONABLE LEVEL OF TOTAL COMPENSATION?   |
| 18 | A. | Yes. As shown for each group of employees in the preceding questions, the Total         |
| 19 |    | Compensation for all types of positions is within the market competitive range, which   |
| 20 |    | is a reasonable level of compensation.  |

#### VIII. THE BENEFITS OF INCENTIVE COMPENSATION

#### Q. WHAT ARE THE BENEFITS TO KENTUCKY POWER CUSTOMERS OF

#### THE COMPANY'S INCENTIVE COMPENSATION?

A.

First and foremost, the Company's STI and LTI compensation benefits customers as part and parcel of a Total Compensation package that enables the Company to attract and retain the suitably skilled and experienced employees needed to provide service to customers efficiently, effectively, and safely. The ability to attract and retain such a workforce is, quite simply, essential to meeting customers' needs at a reasonable cost. Without the compensation opportunity that the Company's Incentive Compensation provides, the Total Compensation for many positions would be below the market-competitive range, as shown in Exhibits ARC-2 through ARC-5. This would impair the Company's ability to attract and retain such employees, increase employee turnover, and reduce employee engagement. This, in turn, would increase hiring and training costs, reduce productivity, increase position vacancy, decrease response time and service levels, and increase the cost of service for customers.

Because the Company's Incentive Compensation is a component of a reasonable and market competitive Total Compensation package (i.e., within the market-competitive range), it has no incremental cost above the cost of providing market competitive compensation through Base Pay alone.

Incentive Compensation also helps maintain higher levels of employee and company performance than would be achieved using Base Pay alone. It does this by linking a portion of employees' total compensation opportunity to performance without increasing the Company's compensation expense.

| 1                    | Q. | HOW DOES INCENTIVE COMPENSATION IMPROVE EMPLOYEE AND  |
|----------------------|----|---|
| 2                    |    | COMPANY PERFORMANCE?  |
| 3                    | A. | It does so by more effectively communicating goals and objectives, better aligning  |
| 4                    |    | employee efforts with these goals and objectives, more effectively engaging   |
| 5                    |    | employees, and motivating employees to achieve higher levels of performance   |
| 6                    |    | Specifically, incentive compensation helps create a culture of high performance by:   |
| 7<br>8<br>9          |    | <ul> <li>Giving all employees a personal stake in achieving common goals and objectives which creates a sense of shared purpose and improves employee engagement which is linked to improved employee and company performance</li> </ul>  |
| 10<br>11<br>12       |    | <ul> <li>Communicating goals and objectives to all managers and employees more effectively than is otherwise possible, which helps align and focus work assignments and employee efforts with these objectives</li> </ul>   |
| 13<br>14             |    | <ul> <li>Encouraging and motivating employees to expend discretionary effort to achieve<br/>these goals and objectives</li> </ul>   |
| 15<br>16<br>17<br>18 |    | <ul> <li>Varying compensation based on individual employee performance, which recognizes and appropriately adjusts compensation, which improves employee engagement, encourages performance improvement, improves retention of high performers, and reduces retention of poor performers</li> </ul> |
| 19<br>20<br>21       |    | <ul> <li>Rewarding employees for achievement of the Company's goals and objectives<br/>which reinforces the importance of these goals and objectives, recognizes both<br/>high and low performance and improves employee engagement</li> </ul>  |
| 22<br>23<br>24<br>25 |    | <ul> <li>Shifting a portion of compensation from a fixed to variable expense, which reduces business risk by linking a portion of labor expense to the Company's financial performance and better balances the interests of employees with those of other stakeholders</li> </ul>                   |

Encouraging high levels of productivity and fostering careful cost management

These specific benefits of incentive compensation significantly reduce the cost of

service for Kentucky Power's customers below what they would be otherwise.

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#### 2 AN ACCUMULATION OF BENEFITS AND COST SAVINGS THAT ACCRUE

#### 3 TO KENTUCKY POWER CUSTOMERS EACH YEAR?

- 4 A. Yes. The Company's STI and LTI compensation programs have been in place for more 5 than two decades, and these programs have produced benefits that inured to customers in base rate cases over these many years. These benefits are generally the result of the 6 7 high-performance culture that the Company's incentive compensation encourages. The 8 accumulated value that has been produced over the more than two decades that these 9 programs have been in place was reflected in the Company's cost of service in the test 10 years for prior base rate cases and is reflected in the cost of service in this case. The decades of accumulated value produced by Incentive Compensation has inured to 11 12 customers through lower rates in prior rate proceedings and any additional value it has 13 created since the last base rate case will again inure to customers when the rates set in 14 this case are effective. These benefits gradually accumulated over time and would 15 likely diminish over time if incentive compensation were eliminated. Such 'back-16 sliding' would be detrimental to Kentucky Power customers.
- 17 Q. SHOULD IT BE EXPECTED THAT THE INCREMENTAL PRODUCTIVITY
  18 BENEFITS AND COST SAVINGS GENERATED BY INCENTIVE
  19 COMPENSATION WILL EXCEED ITS TOTAL (INCREMENTAL AND NON20 INCREMENTAL) COST?
- A. No. Although the Company's Incentive Compensation provides substantial benefits, as
  I have described, it is unreasonable to expect that the new incremental productivity
  benefits and cost savings generated each year will offset its cost. Such self-funding is

not necessary for these costs to have been prudently incurred because the Company's Incentive Compensation is a component of a reasonable and market-competitive Total Compensation program, rather than a 'bonus' that is additional to such a program. Therefore, the Company's Incentive Compensation has no incremental cost above the cost of providing market competitive compensation through base pay alone, and it produces the substantial incremental benefits previously described. Therefore, the related expense is clearly a prudent and reasonable cost of doing business. Furthermore, maintaining incentive compensation prevents gradual backsliding on the productivity benefits that have accumulated because of Incentive Compensation over the many years it has been in place. Customers already benefit from the accumulated value and highperformance culture that Incentive Compensation has provided over the decades it has been in place. It is unlikely that Incentive Compensation will produce substantial additional value that would inure to shareholders during the period rates are in effect and any incremental value that is produced likely would be more than offset by above target incentive expense that would be borne by shareholders. Therefore, customers are the primary beneficiaries of the Company's Incentive Compensation. It is unreasonable and unsustainable for shareholders to bear a large portion of the cost of the target level of Incentive Compensation, as well as 100% of any above target expense, while customers receive 100% of the benefits Incentive Compensation has created over the decades it has been in place.

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#### A. Short-Term Incentive (STI) Compensation

#### Q. HOW COMMON IS STI COMPENSATION IN THE UTILITY INDUSTRY?

A. The nearly universal prevalence of STI compensation for energy services industry positions clearly shows that, at a minimum, employers in this industry believe that using STI compensation is superior to its only alternative, which is providing market-competitive compensation through base pay alone. STI compensation is provided by the majority of employers to all positions and is nearly universally provided to higher-level positions both in the energy services industry and in U.S. industry in general. The compensation analyses contained in Exhibits ARC-2 through ARC-5 show that market median Total Compensation includes incentive compensation for 99% of the 301 positions with 3,268 incumbents included in these market compensation analyses. In addition, median target STI Compensation was at least 5% of base salary for positions at all base salary levels in the energy services industry, including positions with base salaries of less than \$30,000<sup>4</sup>. This survey analysis is very robust, including 141 Energy Services Industry employers and 214,241 incumbent employees.

# 16 Q. DOES STI COMPENSATION PROVIDE ADDITIONAL SPECIFIC 17 BENEFITS?

18 A. Yes. Kentucky Power's 2022 and 2023 STI compensation includes many goals and
19 objectives that provide numerous benefits to customers. These specific benefits to
20 customers provided by the goals in the 2023 Utility STI plan are:

<sup>&</sup>lt;sup>4</sup> Willis Towers Watson; 2022 Energy Services Middle Management, Professional and Support Survey Report — United States; Compensation Report; Base/Bonus/Target Bonus Summary Tables by Salary Range (Incumbent-Weighted) - Total Sample.

- Reducing and eliminating employee and contractor safety incidents and fatalities, which eliminates the impact of the avoided incidents on these employees and their families, colleagues, and communities, as well as the associated cost
  - Improving NERC compliance, which better ensures reliability and reduces costs
  - Increasing economic & business development in the communities we serve
  - Increasing the value of Federal grants received, which obtains Federal Government incentives for projects in and for the communities we serve and spreads the Company's fixed costs over a larger base thereby reducing the fixed costs borne by utility customers
  - Increasing the development of regulated renewable generation for customers' benefit
  - Improving the reliability of our electric service

- Improving the workforce culture, which increasing employee engagement and leads to improved employees and company performance and reduces employee turnover related costs
- Improving workforce diversity, equity, and inclusion, which increases employee engagement and leads to better employees and company performance and expands the pool of candidates interested in AEP's positions, which improves time to fill vacant positions and reduces employee turnover related costs
- Improving supplier diversity, which benefits the communities we serve by fostering a more diverse and local supply chain with more representation of women, minorities, veteran, LGBT and disadvantaged businesses among our suppliers
- Implementing a labor strategy that improves our talent pipelines and develops strategic labor alliances, which better ensures a sufficient supply of employees are available for the work needed to provide service to customers
- Generating operating earnings and return on equity that provides sufficient returns
  to investors to ensure capital is available at reasonable costs to maintain and expand
  our electric system to meet the needs of our customers for stable and affordable
  electricity. This goal also encourages all employees to maintain financial discipline,
  which benefits customers by reducing the cost of service below what it would be
  otherwise
- Improving the customer service through improved power quality and reliability and improved customer service
- Improving wires reliability and reducing the impact of storms through improved forestry management
- Supporting the electrification of transportation and other large scale electrification initiatives, which helps meet costumers needs and spreads fixed costs over a larger base, thereby reducing the fixed costs paid by utility customers

• Fostering the completion of specific reliability work streams for Kentucky Power customers, inclusive of installing 900 protection devices on unfused taps, installing 375 additional switches for step restoration, removing 18,000 trees from outside the right of way, and replacing 1,200 cutouts that have reached the end of their service life prior to failure

#### 6 Q. PLEASE DESCRIBE THE COMPANY'S STI PLANS.

A.

All the Company's and other AEP affiliate employees, from hourly positions through executive management, except co-ops and interns, participate in the Company's STI program. The 2022 and 2023 STI target percentage for most physical, craft, and technical positions is 3% of eligible earnings, which includes base wages, overtime, and shift premiums. The STI targets for salaried positions vary by salary grade level. The STI targets for each salary grade are set at levels that provide Total Compensation that is within the market-competitive range and as close to the market median on average as possible for the positions assigned to each grade level. This approach is typical for U.S. industrial companies.

The AEPSC compensation team uses a standard plan design and template for all STI plans with separate plan documents, performance measures and communications for employees in each major AEP business unit and operating company. The overall performance score for each AEP business unit and operating company, including Kentucky Power's version of the Utilities plan, determines the award payout for that group from the available funding (described in the following question and answer below). Overall performance scores and award payouts can range from 0% to 200% of the target. AEPSC employees in centralized functions, such as human resources and IT, do not have separate STI performance measures and

participate in STI compensation based on the average overall performance score for AEP's business units and operating companies.

A.

Performance targets are established for STI measures at stretch but achievable levels to ensure that employees have a reasonable expectation that STI will pay out at or above the target level on average over multiple years. This expectation is foundational because, without it, many employees would not perceive their Total Compensation opportunity to be market-competitive and employee attrition and retention likely would increase to problematic levels. However, most participants understand that STI compensation is variable and may vary both above and below target from year to year but that it can reasonably be expected to meet or exceed the target level on average over longer periods. STI payouts have averaged 140.0% and 155.9% of target over the last 5 and 10 years, respectively.

#### 13 Q. PLEASE DESCRIBE HOW STI COMPENSATION IS FUNDED.

For many years prior to 2023, except for 2020, a balanced scorecard of performance measures (Funding Measures) has been used for STI funding. The funding was changed for 2020 to 100% earnings to bolster financial stability at a time when the impact of COVID-19 was unknown, which benefited customers. A balanced scorecard was established for 2022 and 2023 with a mix of AEP Operating Earnings (60% for both 2022 and 2023), Safety and Compliance (12% for 2022 and 20% for 2023) and Strategic Initiatives (28% for 2022 and 20% for 2023) measures.

### Q. WHAT IS THE PURPOSE OF THE FUNDING MECHANISM FOR STI

#### **COMPENSATION?**

A.

The funding mechanism ensures that AEP can afford employee incentive compensation while also meeting its commitments to other stakeholders, including Kentucky Power customers. It also ensures that STI compensation does not impair AEP financially, which helps avoid the increased costs that would create, such as increased borrowing costs that Kentucky Power customers would likely at least partially absorb if AEP were financially impaired even to a small extent. The importance of such a mechanism becomes apparent when utilities are in financial distress. For example, PG&E needed to take extraordinary measures to eliminate incentive compensation while they were in financial distress, a decision the California Consumer Counsel agreed with, because their STI did not have a funding mechanism that adjusted incentive payouts commensurate with the Company's financial performance. Anyone who has ever managed their living expenses within a budget knows that it is not sustainable and is detrimental to their financial wellbeing, as well as that of those they serve and support, to spend more than they can afford.

The funding mechanism also facilitates business unit and operating company goal setting by shifting the focus to ensuring a consistent degree of difficulty among AEP's business units and operating companies. The AEP Operating EPS component of the Funding Measures also sends a clear message to all employees that it is imperative for them to maintain financial discipline. This drives a relentless pursuit of efficiency and cost reduction that enables the Company to complete work at a lower cost than would otherwise be the case—which benefits customers.

#### Q. PLEASE DESCRIBE HOW STI COMPENSATION FUNDS ARE

**ALLOCATED.** 

A. Kentucky Power and every other AEP operating company and business unit have a separate set of operating measures (Operating Measures) that are used along with the Funding Measures and a normalizing function to determine STI payouts. A normalized score for each operating company and business unit is determined by dividing their weighted average Operating Measures score by the weighted average Operating Measures score for all AEP operating companies and business units. This results in a normalized average score of 1.0 or 100% of the target level. Each business unit and operating company score is then multiplied by the funding score, which results in a weighted average score for all AEP business units and operating companies that is equal to the funding score, which allocates exactly 100% of the available funding while maintaining score differentiation based on each groups performance. This results in scores and payouts for each business unit and operating company that reflect the group's performance as well as a total payout that is equal to the overall funding available.

# 17 Q. WHAT ARE THE KEY DRIVERS OF STI COMPENSATION FOR 18 KENTUCKY POWER EMPLOYEES?

A. Most Kentucky Power employees participate in the AEP Utilities ICP (incentive compensation plan) for Kentucky Power employees. The key drivers of performance for this plan for 2022 and 2023 were five categories of Operating Measures (safety and compliance, workforce & culture, affordability, and operations) that comprised 80% of the 2020 Operating Measures for Kentucky Power, while financial performance

(Kentucky Power Net Income and ROE) made up the remaining 20% (see Exhibit ARC-6).

Q.

A.

Some Kentucky Power employees also participated in the 2022 and 2023 STI plans for centralized staff, the Executive Council, Regulated Generation, and Energy Delivery. The centralized staff group ICP is based on the average score for all business units and operating companies and the Executive Council score is based solely on the funding measures without separate operating measures. Each of the other plans uses a balanced scorecard of Operating Measures and a balanced scorecard of funding measures. If Kentucky Power employees do not achieve their Operating Measure objectives, they would not be paid a significant STI award, irrespective of AEP's or Kentucky Power's financial performance.

# WHAT OTHER SPECIFIC BENEFITS DO THE FINANCIAL MEASURES IN THE STI COMPENSATION PROGRAM PROVIDE TO CUSTOMERS?

The financial STI performance measures focus employees on cost control, adherence to budget, and promoting the efficient use of financial resources, which is essential for providing reliable service at a reasonable cost to customers. Financial measures continuously emphasize the importance of maintaining financial discipline and directly encourage employees to spend conservatively, operate efficiently, and conserve resources. This has and will continue to directly benefit customers by reducing the Company's cost of service through cost savings that are passed on to customers in rates.

Financially based incentive compensation also reduces earnings volatility and bolsters the Company's financial stability. This reduces the Company's cost of capital and better ensures access to capital at reasonable rates, particularly during recessionary

and other periods of weaker earnings, such as those caused by major storms, weak
economic activity, and catastrophic events when capital may otherwise be overly
expensive or inaccessible. Furthermore, ensuring that incentive compensation
payments do not impair the Company financially reduces the risk of additional expense
caused by such difficulties, which would be borne by Kentucky Power customers.
These effects all reduce costs for Kentucky Power customers relative to what they
would be without such STI compensation.

#### Q. WHAT OTHER SPECIFIC BENEFITS DOES STI PROVIDE?

- 9 A. In addition to enabling the Company to attract and retain the suitably skilled and qualified employees needed to provide service to customers efficiently, effectively, and safely, its benefits include:
  - Communicating goals and performance towards them, which improves their visibility and encourages their achievement in accordance with the adage "what gets measured gets done."
  - Aligning goals and employee efforts throughout the organization, which better ensures that adequate time, attention, and resources are provided for their achievement, employees are focused on achieving them and that everyone is pulling in the same direction towards their achievement.
  - Rewarding employees for achievement of goals and objectives, which encourages employees to expend discretionary effort to achieve them and reinforces their positive behavior when they succeed.
  - Enhancing the organization's culture and performance by giving all employees a personal stake in achieving these goals and objectives and thereby creating a shared purpose.
  - Shifting a portion of compensation from a fixed to a variable expense that varies based on performance, which reduces earnings volatility, business risk, and borrowing costs.
  - Creating a culture of high performance and cost consciousness.
  - Reducing costs through increased productivity and a relentless pursuit of cost savings.

| 1  | Q. | IS THE COMPANY REQUESTING THE INCLUSION OF ALL TEST YEAR                                   |
|----|----|--|
| 2  |    | STI COMPENSATION IN ITS REVENUE REQUIREMENT IN THIS CASE?                                  |
| 3  | A. | No, the Company is requesting inclusion of only the lower target level of test year direct |
| 4  |    | Kentucky Power Company STI expense and indirect Wheeling Power Company                     |
| 5  |    | expense for Kentucky Power Company's ownership share of the Mitchell and Kammer            |
| 6  |    | generating plants, which is the market-competitive level, rather than the substantially    |
| 7  |    | larger per books expense.  |
| 8  | Q. | DOES FINANCIALLY BASED STI COMPENSATION BENEFIT  |
| 9  |    | CUSTOMERS?   |
| 10 | A. | Yes. I have shown that the Company's financially based STI benefits customers and          |
| 11 |    | serves their interests. The entire target level of STI compensation is a necessary cost of |
| 12 |    | providing service to customers because it is a component of a market competitive Total     |
| 13 |    | Compensation package that is needed to attract and retain employees with the skills        |
| 14 |    | and experience needed to provide service to customers efficiently, effectively, and        |
| 15 |    | safely.  |
| 16 |    | It is unreasonable and unsustainable for shareholders to bear a large portion of           |
| 17 |    | the cost of the target level of STI, which is a reasonable and necessary cost of providing |
| 18 |    | service to customers, unless such expense is contrary to customers' interests, which       |
| 19 |    | have shown herein it is not. It is also unreasonable and unsustainable for shareholders    |
| 20 |    | to pay the cost of performance improvements derived from STI compensation when             |

those benefits, both current and accumulated, will and have inured to customers

through this and previous rate case proceedings. It is unreasonable to expect that the

new incremental benefits generated by employees due to STI compensation going

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forward, if any, will be sufficient to offset its full cost. In any event, such cost justification is unnecessary because STI compensation is a component of a marketcompetitive Total Compensation package that enables the Company to attract and retain suitable employees and all this compensation expense would be necessary if the Company only used base compensation to compensate employees. The accumulated cost savings that the Company's STI compensation has produced over the decades that it has been in place are reflected in Kentucky Power's test year cost of service. These savings will again be embedded in rates as they have been in prior rate case proceedings and will pass through to customers. There is no mechanism for these benefits to flow to shareholders. Disallowing recovery of these amounts requires shareholders to pay for a large portion of this cost without receiving any of the accumulated benefits and while also being required to pay for any incremental benefits that may accrue through above target incentive payouts of STI. Furthermore, maintaining financially based STI measures prevents backsliding on previously achieved cost-control and efficiency savings.

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Given that customers already receiving the ongoing benefits of STI compensation and that it is unknown whether this program will provide any new incremental benefits going forward, beyond those provided by a market-competitive Total Compensation package, customers, not shareholders, are the primary beneficiaries of the Company's Incentive Compensation program. Excluding any portion of the target level of STI compensation from Kentucky Power's revenue requirement is not justified based on the evidence that I have provided herein.

| 1 | Moreover, doing so would impede the Company's ability to earn the rate of return set |
|---|--|
| 2 | by the Commission in this proceeding.  |

#### B. Long-Term Incentive (LTI) Compensation

A.

# Q. IS THE COMPANY REQUESTING THAT LTI COMPENSATION EXPENSE BE INCLUDED IN THE COST OF SERVICE IN THIS CASE?

A. Yes. The Company is requesting that the test year target level of \$181,125 of LTI expense be included in its cost of service. This is the target level of direct Kentucky Power Company LTI compensation and indirect Wheeling Power Company LTI compensation for the Kentucky Power Company's share of the Mitchell and Kammer generating plants. The requested LTI compensation includes both performance shares and restricted stock units ("RSUs"), which are the two types of LTI compensation that the Company and other AEP affiliates utilize.

#### 13 Q. PLEASE BRIEFLY DESCRIBE THE COMPANY'S LTI PROGRAM.

The Company's LTI compensation is managed by the AEPSC compensation team as part of an AEP systemwide LTI program for all AEP affiliates. It is similar to STI Compensation in that it too is an integral component of reasonable and market competitive Total Compensation for eligible employees. As previously stated, market competitive Total Compensation is necessary to attract and retain suitably skilled, experienced, and knowledgeable employees efficiently and effectively. As such, LTI compensation has no incremental cost above the cost of providing market competitive Total Compensation through Base Pay alone. LTI compensation also encourages decision making from a long-term perspective and fosters operational continuity by improving the long-term retention of participants.

Approximately 1,425 employees (about 8% of AEP employees) received an LTI award in the test year. Participation is generally provided to employees in positions that have responsibility for decisions that have a longer-term impact on operations and customers. Such employees often have historical and experiential knowledge of the Company's and AEPSC's practices and often assist in creating and implementing the vision of how the Company can best serve customers both now and in the future. LTI participants are often responsible for maintaining employee's focus on customers, making often-difficult resource allocation decisions, and driving customer experience improvements. Because of the value these employees provide, retaining them is particularly important to providing high quality service to customers at a reasonable cost. The LTI compensation program is designed to foster the retention of such participants.

The annual LTI awards granted during the test year were composed of 75% performance shares and 25% RSUs.

#### Q. PLEASE DESCRIBE PERFORMANCE SHARES.

A.

Performance shares are generally similar in value to shares of AEP common stock, but participants must continue their AEP employment over a three-year period to earn a payout unless the participant retires, is severed, or dies. Otherwise, performance shares are forfeited upon employment termination. The number of performance shares that participants ultimately earn is tied to AEP's longer-term performance relative to preestablished performance measures. All performance shares granted during the test year have three performance measures:

- Three-year cumulative AEP operating earnings per share ("Operating EPS")
  measured relative to a Board-approved target (50% weight),
  - Three-year AEP total shareholder return ("TSR") measured relative to a peer group of similar utility companies (40% weight), and
  - Addition of carbon free generation capacity throughout the AEP system measured relative to a board approved target (10% weight).

Awards granted prior to 2020 had two performance measures, Operating EPS and TSR, (both as described above), which were equally weighted. As with the Company's STI, the maximum score for all LTI performance measures is 200% of target. These LTI measures help ensure that the AEP system companies keep pace with the rapidly changing business landscape and amplified societal expectations, while positioning itself for success in the future. Taken together, the STI and LTI measures balance the short-term and long-term interests of the Company and its customers.

#### Q. PLEASE DESCRIBE THE COMPANY'S RSUS.

A. RSUs (restricted stock units) provide the remaining 25% of the LTI value. RSUs are also generally similar in value to shares of AEP common stock. RSUs vest, subject to the participants' continued AEP employment, on three vesting dates over approximately a three-year period. RSUs are not tied to any performance measures (financial or otherwise) but are instead provided to foster employee retention over a longer period. Participants who remain continuously employed with AEP through an RSU vesting date receive an equal number of shares of AEP common stock as the number of RSUs that vest on such date. Otherwise, with certain exceptions such as severance due to position eliminations or a participant's death, RSUs are forfeited upon employment termination.

### Q. IS LTI COMPENSATION A PREVALENT FORM OF COMPENSATION FOR

#### 2 THE UTILITY INDUSTRY?

A.

A. Yes, it is highly prevalent. Nearly all publicly owned utility companies have similar LTI programs, as do nearly all public general industry companies. LTI compensation is a significant component of energy services industry total compensation for higher paid positions, providing a minimum of 20% of base salary at the median for all 131 organizations with 4,203 incumbents for which a sufficient sample was available for these positions. Exhibit ARC-5 also shows that LTI compensation is a substantial component of market-competitive compensation for all the positions included in this analysis.

# Q. WHAT ARE THE BENEFITS TO CUSTOMERS FROM THE COMPANY'S LTI COMPENSATION PROGRAM?

First and foremost, as with STI compensation, LTI compensation is an integral component of the market-competitive total compensation package used to attract and retain suitable employees necessary to provide service to customers efficiently and effectively. LTI compensation also provides a retention incentive to participants, which benefits customers by improving the retention of employees with greater company experience in roles that have long-term decision-making responsibility, which improves the continuity of the Company's operations and management.

The addition of carbon free generation measure benefits customers and the communities the Company serves by encouraging the development of resources that

<sup>&</sup>lt;sup>5</sup> Willis Towers Watson, 2022 Energy Services Executive Survey Report — United States, Compensation Report, Long-Term Incentive Annualized Value Table (Incumbent-Weighted).

are expected to save customers money over a longer-term period and provide other benefits. This has the added benefit of improving perceptions of the Company in the eyes of its customers, its investors, the public, and potential recruits, all of which may lead to reduced costs for customers as the result of improved customer interactions and increased interest from investors and potential recruits.

Tying a portion of management compensation to long-term measures of financial performance, specifically the EPS and TSR measures used in the performance share awards, encourages better long-term decision making and financial discipline, which benefits customers by encouraging cost control. Customers benefit from more efficient, effective, and consistent operations; more skilled, experienced, knowledgeable, and stable employees in management and other leadership positions; better long-term decision-making; and stronger financial discipline. All these factors contribute to lower costs for customers.

Maintaining long-term financial discipline is imperative, particularly given the long-term nature of the assets that comprise the Company's electric system. The EPS and TSR performance share measures communicate this imperative and strongly encourage its pursuit, which promotes expense control, efficient operations, and conservation of resources. This directly benefits customers by reducing the Company's cost of service and rates compared to what they would otherwise be.

As with STI compensation, customers are receiving and will continue to receive benefits from the suitably skilled and experienced employees who were attracted and retained in their work from past above target LTI payouts as well as from the 1 accumulated value of incentivized achievements over the many years the LTI program

2 has been in place.

### 3 Q. ARE THERE ANY INDIRECT COSTS TO CUSTOMERS OF THE LTI

#### 4 **PROGRAM?**

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5 A. No. Capping LTI measures at maximum score, setting stretch but achievable targets, 6 and providing a balance of short-term and long-term Incentive Compensation, ensures 7 that participants are not encouraged to pursue financial objectives at the expense of 8 other important objectives, such as customer service and safety. The short-term and 9 long-term performance measures are designed to balance each other to ensure that 10 short-term performance is not achieved at the expense of long-term objectives. 11 Likewise, financial short-term and long-term performance objectives are balanced by 12 operational and other objectives as part of a "balanced scorecard" to assure that 13 financial objectives are not achieved at the expense of other important objectives. This 14 balanced approach mitigates the potential for LTI compensation to encourage 15 behaviors that would be counter to customers' interests. Therefore, LTI compensation 16 does not give rise to any indirect costs that would offset the substantial benefits it 17 provides to customers.

# 18 Q. DO THE TOTAL BENEFITS OF THE LTI COMPENSATION EXCEED ITS 19 COST TO KENTUCKY POWER CUSTOMERS?

A. Yes. As with STI compensation, the request target level of LTI compensation is provided as part and parcel of a market-competitive Total Compensation package and, therefore, does not have any incremental cost to customers, beyond the cost of providing market competitive Total Compensation through other types of

| 7 | Q. | IS IT REASONABLE AND NECESSARY TO INCLUDE LTI   |
|---|----|---|
| 6 |    | clearly exceed its cost to customers.   |
| 5 |    | new incremental benefits, and no incremental cost, the benefits of the LTI program        |
| 4 |    | benefits previously mentioned. With significant accumulated benefits, a potential for     |
| 3 |    | the cost customers bear by encouraging long-term financial discipline, among the other    |
| 2 |    | continuity and performance, it reduces the cost of service for customers. It also reduces |
| 1 |    | compensation. By encouraging participant retention, which improves operational            |

# 7 Q. IS IT REASONABLE AND NECESSARY TO INCLUDE LTI 8 COMPENSATION IN THE COMPANY'S COST OF SERVICE FOR RATE 9 MAKING PURPOSES?

10 A. Yes. LTI compensation has been clearly shown to be a reasonable, customary, and
11 prudent cost of doing business that provides substantial overall net benefits to
12 customers because, among other reasons, it:

- (a) Does not have any incremental cost above the cost of providing market-competitive compensation through other forms of pay,
- (b) Improves participant retention and, consequently, management and operational continuity,
- (c) Encourages appropriate consideration of longer-term factors in decision making, and it
- (d) Improves operating effectiveness and cost control.

As with STI compensation, it is also unreasonable and unsustainable for shareholders to pay the cost of performance improvements derived from LTI compensation when those benefits, both current and accumulated, will and have inured to customers through this and previous rate case proceedings. It is unreasonable to expect that the new incremental benefits generated by employees due to LTI compensation going forward, if any, will be sufficient to offset its full cost. As with

STI compensation, such cost justification is unnecessary when LTI compensation is a component of a market-competitive Total Compensation package that is necessary for the attraction and retention of suitable employees. Furthermore, there is not any mechanism for the accumulated benefits of LTI compensation to flow to shareholders and new incremental benefits that accrue during the period the rates set in this case are in place, if any, would be partially offset by above target incentive expense that would be entirely borne by shareholders before these new incremental benefits also inure to customers in the next base rate case.

Furthermore, the 25% portion of LTI provided in the form of RSUs are not tied to any performance measures whatsoever, financial, or otherwise. The addition of the carbon free generation measure (10% weight \* 75% performance shares = 7.5% of total LTI) is not a financial measure.

Customers are receiving and will continue to receive benefits from the suitably skilled and experienced employees who are attracted, retained, and better engaged from the larger actual level of LTI compensation awarded, as well as from the accumulated value of incentivized achievements over the many years the LTI program has been in place. All the accumulated benefits of LTI compensation have or will inure to customers during this and prior base rate case proceedings and any new incremental benefits will be partially offset by above target incentive payouts before such benefits fully inure to customers in the next base rate case. Furthermore, maintaining LTI compensation prevents backsliding on previously achieved cost-control and efficiency savings. Therefore, it would be just and reasonable to include the requested target level of LTI compensation in Kentucky Power's cost of service for ratemaking purposes.

#### IX. EMPLOYEE BENEFITS

- 2 THE COMPANY'S EMPLOYEES.
- 3 A. The benefit plans offered to employees are designed to be an important component of
- 4 their Total Compensation and benefits package. Specifically, the objectives are to
- 5 provide employee benefit offerings that:

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- Support the attraction and retention of employees with the skills and experience needed to provide service to customers efficiently and effectively
  - Protect employees and their families from severe financial hardship due to catastrophic life events
  - Provide a variety of benefit offerings that add value and meet the diverse needs of the workforce
    - Influence desired participant behaviors by, for example, providing incentives to encourage employees to obtain preventive care services under the medical plan and minimizing inefficient consumption of medical services
    - Ensure the total cost of benefit programs remains affordable and sustainable for all the Company's stakeholders, including customers
    - Maintain compliance with applicable federal and state laws

#### 18 Q. PLEASE DESCRIBE AEP'S EMPLOYEE BENEFIT PROGRAMS.

19 A. The AEPSC benefits team, which is a function within AEP's Human Resources 20 department, in partnership with third party advisors and administrators, designs and 21 administers employee benefits for all AEP affiliates and employees. Through a 22 combination of employer and employee contributions, AEP provides employee 23 benefits for nearly all full-time employees and, at an increased cost, part-time 24 employees and participation may extend to employee's families and certain retirees in 25 some instances. Employee benefits include medical, wellness, dental, vision, sick pay, 26 long-term disability ("LTD"), life insurance, accidental death and dismemberment insurance, retirement pension, retirement savings (401k), vacation, personal days off and holidays. A summary of employee benefit programs is provided as Exhibit ARC-7. Employee benefits are a critical component of the Company's ability to attract and retain suitable employees.

A.

Many of AEP's benefit programs; including the medical, dental, and LTD programs; are self-insured using a Voluntary Employee Beneficiary Association trust, as opposed to a fully insured arrangement in which premiums are paid to an insurance company for coverage. Employee contributions, as well as monthly contributions from the Company and other AEP Affiliates for each employee, are deposited to the trust and used to fund the actual claims and vendor administration expenses as allowed by law. A summary of each healthcare benefit plans is outlined in Exhibit ARC-8.

# Q. WHAT ACTIONS HAVE BEEN TAKEN TO CONTROL THE COST OF EMPLOYEE BENEFITS?

The AEP benefits team continuously reviews employee benefits to contain costs, while providing benefits that are market competitive and sufficient to attract and retain suitable employees. This results in benefit design and cost changes nearly every year. AEP continues to build on the 2016 implementation of all consumer-directed medical plans. In 2017, to secure efficiency savings and to enhance the employee experience, AEP changed behavioral health service vendors to the same carrier that provides medical benefits. In 2019, AEP implemented diabetes prevention and second opinion programs. In the pharmacy space, AEP implemented a retail 90-day supply prescription drug program. In 2023 the Pharmacy Benefit Manager was changed, and the traditional health carrier service model was replaced with an advocacy service model to help

employees better navigate their healthcare journeys, connect them with resources and assist them with locating cost-effective, high-quality providers. Each of these enhancements were designed to provide an improved customer experience for the employees, reduce potentially preventable disease and/or reduce costs.

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A.

AEP routinely reviews and evaluates benefit outsourcing contracts to ensure they are market competitive. AEP, in consultation with benefit consultants Aon and Willis Towers Watson, solicit and evaluate proposals to ensure they meet performance expectations, are competitively priced and deliver value added benefits to AEP employees.

# 10 Q. WHAT WERE KENTUCKY POWER'S CONTRIBUTIONS RELATED TO 11 THE EMPLOYEE BENEFIT PLANS DURING THE TEST YEAR?

Kentucky Power Company's calculated net employee related group benefit cost for the test year, for medical, dental, life insurance, accidental death and disability, long-term disability, and retirement savings (401k) plan were \$5,295,849. Retirement (pension) plan and other post-employment benefits are provided and discussed by Company Witness Whitney. Exhibit ARC-9 details the employer contributions made by Kentucky Power by benefit plan.

# Q. HOW DOES AEP DETERMINE THAT THE EMPLOYEE BENEFIT PROGRAMS THAT IT OFFERS ARE REASONABLE AND NECESSARY?

AEP targets the median of similarly sized companies from the utility industry when benchmarking its employee benefits to ensure that the costs for AEP affiliates are not out of alignment with those of other utilities. AEP also considers non-utility companies as a secondary benchmark for employee benefits, to better ensure that trends and

practices from other industries are also considered. Such studies are conducted annually, and adjustments are made as needed.

#### Q. HOW ARE BENEFIT VENDORS SELECTED?

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4 A. As we approach each contract renewal, the vendor is asked for a formal proposal to 5 cover the renewal period. Proposals are reviewed internally and in most cases by 6 independent third-party consultants, such as Aon and Willis Towers Watson. These 7 experts help set the performance standards and determine if the contract proposal is 8 market competitive. If the proposal does not meet our expectations, is not competitively 9 priced, or it is believed that further improvements are available, requests for proposals 10 are sent to qualified vendors and a final vendor is selected through a competitive bid 11 process.

### Q. PLEASE DESCRIBE HOW THE VALUE OF AEP'S BENEFIT PROGRAM IS ASSESSED.

As previously mentioned, AEP utilizes the services of Aon, specifically Aon's Benefit Index Report, to help determine the reasonableness of the benefits offered to all AEP affiliate employees. The Benefit Index compares information on individual benefit programs to other similarly sized utility employers. The Benefit Index assigns a value to the benefits provided by participating companies based on the level of benefits provided and the type of program offered. The Benefit Index's comparative analysis shows the relative actuarial value of AEP system benefits as a percentage of the average actuarial value of benefits provided by similar employers.

#### 1 Q. WHAT DO THESE METRICS AND VALUE COMPARISONS SHOW?

A.

A. These metrics show that the employee benefits offered to AEP system employees provides a level of value to employees that is at or near the midpoint of those offered by peer companies, and, therefore, that these benefits are both reasonable and competitive with other similarly sized utility industry employers. It is a best practice in compensation and benefits design to rely on comparisons to similar employers, such as the survey data included in my exhibits, to gauge the reasonableness of employee compensation and benefit plans. These exhibits support the reasonableness of AEP's benefit plan design and value of our overall benefits program as compared to other non-affiliated utility employers. This better enables AEP to attract and retain qualified and suitable employees, which is essential to the efficient and effective provision of our services to customers.

# Q. HOW DO THE AEP BENEFITS TEAM MONITOR AND MAINTAIN THE REASONABLENESS AND COMPETITIVENESS OF BENEFIT COSTS?

With the assistance of benefits survey information and outside advisors, the benefits team annually reviews the reasonableness and competitiveness of benefit plan costs with senior management and continually considers potential changes that might improve the efficiency and effectiveness of these benefits for participants. This is done with the use of survey data and best practice information from third-party employee benefits consultants. For health and welfare benefits a Benefit Index survey and analysis from Aon is used to provide these comparisons. This study found that the value of AEP's 2023 health and welfare benefits was 100.7 compared to the 100.0 for the average of the comparator group (see CONFIDENTIAL Exhibit ARC-10, page 4).

This analysis also found that the overall value of all AEP 2023 benefits was near the average with value of 100.4, which was between 6<sup>th</sup> and 7<sup>th</sup> place out of 11 utility industry survey participants, excluding AEP. CONFIDENTIAL Exhibit ARC-11 illustrates that AEP's medical costs are 11% more efficient than the industry translating to savings of nearly \$32.4 million dollars as compared to the benchmark.

#### X. CONCLUSION

#### 6 O. PLEASE SUMMARIZE YOUR TESTIMONY.

A.

I have demonstrated that the total employee compensation that Kentucky Power seeks to include in its cost of service for ratemaking purposes is fair, just, and reasonable, and that it provides benefits to customers. I have shown that employee compensation is within a reasonable market competitive range and that market competitive compensation is required to attract and retain the knowledgeable, experienced, and qualified employees needed to provide reliable electric services to customers safely, efficiently, and effectively. I have also demonstrated that the Company's Incentive Compensation is designed to minimize overall expenses, which reduces the cost of service to customers. The compensation the Company provides, inclusive of Base Pay, STI and, for some positions, LTI compensation is a reasonable, necessary, and prudent cost of providing service to customers and I recommend the requests levels of Incentive Compensation be included in Kentucky Power's cost of service for all positions.

I have also demonstrated that the cost of the Company's employee benefits is reasonable and market competitive in total and should also be included in Kentucky Power's cost of service.

- 1 Q. DOES THIS CONCLUDE YOUR TESTIMONY.
- 2 A. Yes, it does.

#### VERIFICATION

The undersigned, Andrew R. Carlin, being duly sworn, deposes and says he is the Director of Compensation and Executive Benefits, for American Electric Power Service Corporation, that he has personal knowledge of the matters set forth in the foregoing testimony and the information contained therein is true and correct to the best of his information, knowledge, and belief after reasonable inquiry.

|   | Andrew R. Carlin  |
|---|---|
| Commonwealth of Kentucky County of Boyd | ) Case No. 2023-00159   |
|   | n to before me, a Notary Public in and before said County lin, on Jone 12, 2023.                                  |
| Scott F. Bisho<br>Notary Public         | SCOTT E. BISHOP Notary Public Commanw Keth Qu c ky Commission _mber KYNP 32110 My CommissionExpires Jun :24, 2025 |
| My Commission Expires <u>Jo</u>         | ene 24, 2025  |
| Notary ID Number KYNP                   | 32110   |

### **Surveys Completed and Used for Compensation Comparisons**

#### Willis Towers Watson U.S. Compensation Data Bank (CDB):

2022 Energy Services Industry - Executive Compensation Survey Report

2022 Energy Services Industry - Middle Management, Professional & Support Compensation Survey Report

2022 General Industry - Executive Compensation Survey Report

2022 General Industry - Middle Management, Professional and Support Compensation Survey Report

2022 Custom AEP Peer Group - Executive Compensation Surveys

2022 Custom AEP Broad Peer Group - Executive Compensation Surveys

### Kentucky Power Co: Target TCC for Physical & Craft Positions vs. Market Median Total Sample Survey Data

|                   |                   |                       |                                      |                           |                   | gy Service M<br>& Support 20 | •             | % Difference                            |                                |  |
|-------------------|-------------------|-----------------------|--------------------------------------|---------------------------|-------------------|------------------------------|---------------|---|--------------------------------|--|
| AEP Job           | KPCo<br>Employees | Avg Base <sup>1</sup> | Target Annual Incentive <sup>2</sup> | Target TCC                | Base <sup>3</sup> | Target<br>Incentive          | Target<br>TCC | AEP Target TCC vs.<br>Survey Target TCC | AEP Base vs. Survey Target TCC |  |
| KPCo              |                   |                       |                                      |                           |                   |                              |               |   |                                |  |
| KPCo_PC1          | 30                | \$98,290              | \$2,949                              | \$101,239                 | \$96,611          | \$2,150                      | \$98,761      | 2.4%                                    | -0.5%                          |  |
| KPCo_PC2          | 2                 | \$98,259              | \$2,948                              | \$101,207                 | \$96,611          | \$2,150                      | \$98,761      | 2.4%                                    | -0.5%                          |  |
| KPCo_PC3          | 5                 | \$97,420              | \$2,923                              | \$100,343                 | \$98,467          | \$2,526                      | \$100,993     | -0.6%                                   | -3.7%                          |  |
| KPCo_PC4          | 9                 | \$68,069              | \$2,042                              | \$70,111                  | \$86,998          | \$4,527                      | \$91,525      | -30.5%                                  | -34.5%                         |  |
| KPCo Count        | 4                 |                       |                                      |                           |                   |                              |               |   |                                |  |
| KPCo Incumbents   | 46                |                       |                                      |                           |                   |                              |               |   |                                |  |
| AEP SERVICE CORP  |                   |                       |                                      |                           |                   |                              |               |   |                                |  |
| SVC PC1           | 8                 | \$101,427             | \$3,043                              | \$104,470                 | \$97,872          | \$7,479                      | \$105,351     | -0.8%                                   | -3.9%                          |  |
| SVC_PC2           | 6                 | \$100,831             | \$3,025                              | \$103,856                 | \$96,611          | \$2,150                      | \$98,761      | 4.9%                                    | 2.1%                           |  |
| SVC_PC3           | 3                 | \$107,248             | \$3,217                              | \$110,466                 | \$101,589         | \$3,048                      | \$104,637     |   | 2.4%                           |  |
| AEPSC Count       | 3                 | <b>,</b> , <u>_</u>   | <b>+-</b> ,                          | <b>4</b> · · · · <b>9</b> | + ,               | 7-,                          | <b>*</b> ,    |   |                                |  |
| AEPSC Incumbents  | 17                |                       |                                      |                           |                   |                              |               |   |                                |  |
|                   |                   |                       |                                      |                           |                   |                              | Average       | -2.4%                                   | -5.5%                          |  |
| TOTAL JOB COUNT   |                   | 7                     |                                      | % of Jo                   | obs Above Ma      | rket Competit                | • .           |   | 0.0%                           |  |
| TOTAL INCUMBENT C | OUNT              | 63                    |                                      |                           | obs Below Ma      | •                            | · ·           |   | 14.3%                          |  |

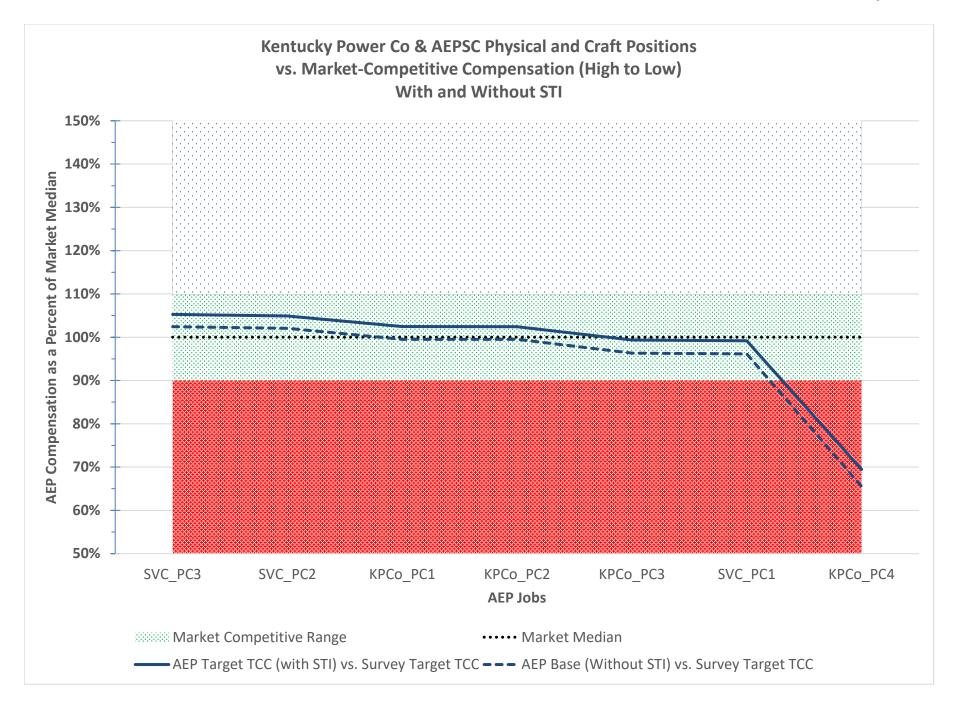
#### **Notes**

<sup>(1)</sup> As of March 31, 2023

<sup>(2)</sup> Target payout is 3 percent of base earnings for all physical and craft jobs

<sup>(3)</sup> Annualized from April 1, 2022 to March 31, 2023 @ 3.0% salary growth rate

<sup>(4)</sup> A market competitive range of +/- 10 percent has been used for all physical and craft positions



| AEP Job  | AEP Target<br>TCC (with STI)<br>vs. Survey<br>Target TCC | AEP Base<br>(Without STI)<br>vs. Survey<br>Target TCC | Below<br>Market | Market<br>Median | Market<br>Competitiv<br>e Range | Above<br>Market |
|----------|--|---|-----------------|------------------|---------------------------------|-----------------|
| SVC_PC3  | 105.3%   | 102.4%  | 90.0%           | 100.0%           | 20.0%                           | 40.0%           |
| SVC_PC2  | 104.9%   | 102.1%  | 90.0%           | 100.0%           | 20.0%                           | 40.0%           |
| KPCo_PC1 | 102.4%   | 99.5%   | 90.0%           | 100.0%           | 20.0%                           | 40.0%           |
| KPCo_PC2 | 102.4%   | 99.5%   | 90.0%           | 100.0%           | 20.0%                           | 40.0%           |
| KPCo_PC3 | 99.4%  | 96.3%   | 90.0%           | 100.0%           | 20.0%                           | 40.0%           |
| SVC_PC1  | 99.2%  | 96.1%   | 90.0%           | 100.0%           | 20.0%                           | 40.0%           |
| KPCo_PC4 | 69.5%  | 65.5%   | 90.0%           | 100.0%           | 20.0%                           | 40.0%           |

### Kentucky Power Co: Target TCC for Nonexempt Positions vs. Market Median Survey Data

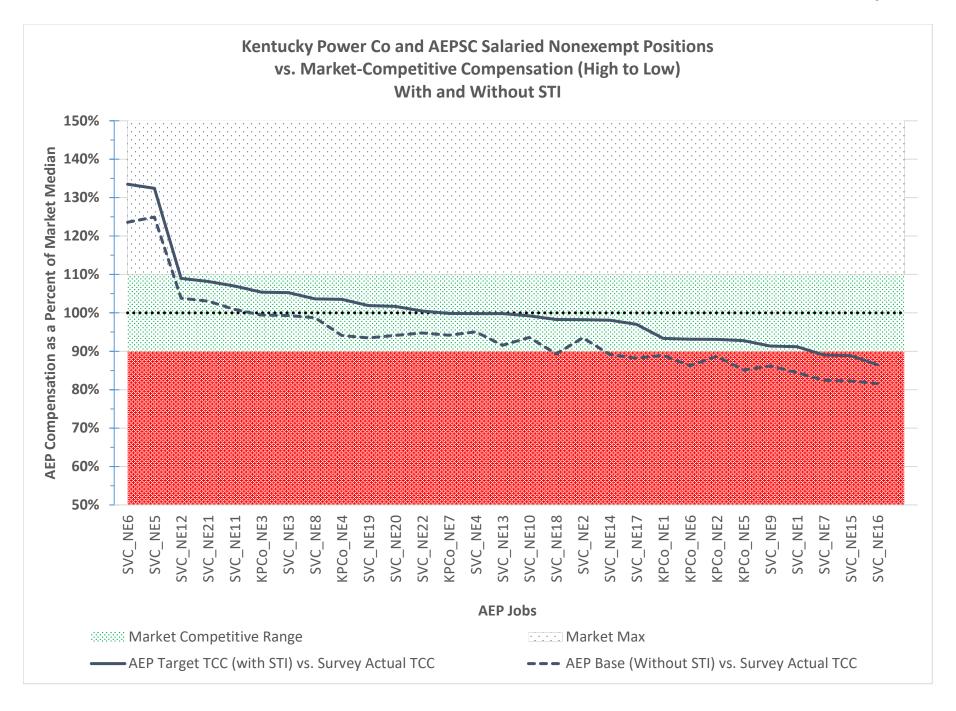
|                          | ſ                 |                    |                     |                | ] [                         |   |                     |                         |                                       | 1                                  |
|--------------------------|-------------------|--------------------|---------------------|----------------|-----------------------------|---|---------------------|-------------------------|---------------------------------------|------------------------------------|
|                          |                   | AEP Incumbent Data |                     | ]              | Survey Results <sup>1</sup> |   |                     | % Difference            |                                       |                                    |
| Rate case job identifier | Employee<br>Count | Avg Base           | Target<br>Incentive | Target TCC     |                             | Base  | Target<br>Incentive | Target TCC              | Target TCC<br>vs Survey<br>Target TCC | Base vs<br>Survey<br>Target<br>TCC |
| <u>KPCo</u>              |                   |                    |                     |                |                             |   |                     |                         |                                       |                                    |
| KPCo_NE1                 | 6                 | \$39,074           | \$1,954             | \$41,028       |                             | \$43,831  | \$108               | \$43,939                | -6.6%                                 | -11.1%                             |
| KPCo_NE2                 | 3                 | \$43,829           | \$2,191             | \$46,020       |                             | \$48,933  | \$495               | \$49,428                | -6.9%                                 | -11.3%                             |
| KPCo_NE3                 | 7                 | \$58,863           | \$3,532             | \$62,395       |                             | \$58,943  | \$259               | \$59,202                | 5.4%                                  | -0.6%                              |
| KPCo_NE4                 | 19                | \$106,342          | \$10,634            | \$116,977      |                             | \$106,107   | \$6,903             | \$113,010               | 3.5%                                  | -5.9%                              |
| KPCo_NE5                 | 7                 | \$71,355           | \$6,422             | \$77,777       |                             | \$79,730  | \$4,091             | \$83,821                | -7.2%                                 | -14.9%                             |
| KPCo_NE6                 | 7                 | \$61,554           | \$4,924             | \$66,478       |                             | \$67,260  | \$4,121             | \$71,381                | -6.9%                                 | -13.8%                             |
| KPCo_NE7                 | 5                 | \$54,930           | \$3,296             | \$58,226       |                             | \$55,970  | \$2,349             | \$58,319                | -0.2%                                 | -5.8%                              |
| KPCo Count               | 7                 |                    |                     |                |                             |   |                     |                         |                                       |                                    |
| KPCo Incumbents          | 54                |                    |                     |                |                             |   |                     |                         |                                       |                                    |
| AEP SERVICE CORP         |                   |                    |                     |                |                             |   |                     |                         |                                       |                                    |
| SVC_NE1                  | 5                 | \$63,275           | \$5,062             | \$68,337       |                             | \$70,254  | \$4,684             | \$74,938                | -8.8%                                 | -15.6%                             |
| SVC_NE2                  | 18                | \$46,231           | \$2,312             | \$48,543       |                             | \$48,933  | \$495               | \$49,428                | -1.8%                                 | -6.5%                              |
| SVC_NE3                  | 63                | \$58,794           | \$3,528             | \$62,321       |                             | \$58,943  | \$259               | \$59,202                | 5.3%                                  | -0.7%                              |
| SVC_NE4                  | 4                 | \$38,852           | \$1,943             | \$40,795       |                             | \$40,051  | \$823               | \$40,874                | -0.2%                                 | -4.9%                              |
| SVC_NE5                  | 3                 | \$57,304           | \$3,438             | \$60,743       |                             | \$45,866  | \$0                 | \$45,866                | 32.4%                                 | 24.9%                              |
| SVC_NE6                  | 3                 | \$68,590           | \$5,487             | \$74,077       |                             | \$55,494  | \$0                 | \$55,494                | 33.5%                                 | 23.6%                              |
| SVC_NE7                  | 3                 | \$68,269           | \$5,462             | \$73,731       |                             | \$80,818  | \$2,004             | \$82,822                | -11.0%                                | -17.6%                             |
| SVC_NE8                  | 216               | \$47,757           | \$2,388             | \$50,145       |                             | \$47,362  | \$1,012             | \$48,374                | 3.7%                                  | -1.3%                              |
| SVC_NE9                  | 10                | \$52,165           | \$3,130             | \$55,295       |                             | \$57,960  | \$2,564             | \$60,524                | -8.6%                                 | -13.8%                             |
| SVC_NE10                 | 5                 | \$55,073           | \$3,304             | \$58,378       |                             | \$58,455  | \$387               | \$58,842                | -0.8%                                 | -6.4%                              |
| SVC_NE11                 | 7                 | \$58,979           | \$3,539             | \$62,518       |                             | \$56,705  | \$1,746             | \$58,451                | 7.0%                                  | 0.9%                               |
| SVC_NE12                 | 4                 | \$46,871           | \$2,344             | \$49,215       |                             | \$45,137  | \$20                | \$45,157                | 9.0%                                  | 3.8%                               |
| SVC NE13                 | 4                 | \$76,398           | \$6,876             | \$83,274       |                             | \$78,808  | \$4,630             | \$83,438                | -0.2%                                 | -8.4%                              |
| SVC_NE14                 | 72                | \$94,432           | \$9,443             | \$103,875      |                             | \$98,325  | \$7,560             | \$105,885               | -1.9%                                 | -10.8%                             |
| SVC_NE15                 | 36                | \$68,973           | \$5,518             | \$74,491       |                             | \$79,730  | \$4,091             | \$83,821                | -11.1%                                | -17.7%                             |
| SVC_NE16                 | 23                | \$58,243           | \$3,495             | \$61,738       |                             | \$67,260  | \$4,121             | \$71,381                | -13.5%                                | -18.4%                             |
| SVC NE17                 | 4                 | \$93,370           | \$9,337             | \$102,707      |                             | \$98,325  | \$7,560             | \$105,885               | -3.0%                                 | -11.8%                             |
| SVC_NE18                 | 10                | \$108,623          | \$10,862            | \$119,486      |                             | \$113,660   | \$7,956             | \$121,616               | -1.8%                                 | -10.7%                             |
| SVC_NE19                 | 8                 | \$78,343           | \$7,051             | \$85,393       |                             | \$79,730  | \$4,091             | \$83,821                | 1.9%                                  | -6.5%                              |
| SVC_NE20                 | 5                 | \$67,212           | \$5,377             | \$72,589       |                             | \$67,260  | \$4,121             | \$71,381                | 1.7%                                  | -5.8%                              |
| SVC_NE21                 | 3                 | \$53,313           | \$2,666             | \$55,979       |                             | \$51,655  | \$85                | \$51,740                |                                       | 3.0%                               |
| SVC NE22                 | 3                 | \$60,333           | \$3,620             | \$63,953       |                             | \$63,211  | \$448               | \$63,659                | 0.5%                                  | -5.2%                              |
| AEPSC Job Count          | 22                | <b>+30,000</b>     | +0,020              | <b>400,000</b> |                             | Ţ30, <b>2</b> / 1                                   | ψ. 10               | <b>+</b> 55,550         | 0.070                                 | 3.2,0                              |
| AEPSC Incumbent Count    | 509               |                    |                     |                |                             |   |                     | AVERAGE                 | 0.7%                                  | -5.8%                              |
| TOTAL JOB COUNT          | 29                |                    |                     |                | % of Jo                     | bs Above Mar  | ket Competit        | tive Range <sup>3</sup> | 7%                                    | 7%                                 |
| TOTAL INCUMBENT Count    | 563               |                    |                     |                | % of Jo                     | obs Below Market Competitive Range <sup>3</sup> 10% |                     |                         |                                       |                                    |

#### Notes:

<sup>(1)</sup> Survey Data from April 2022 Towers Watson Energy Services Middle Management, Professional & Support Survey and Towers Watson General Industry Middle Management Professional & Support Survey, aged to March 31, 2023 at 4% annual rate.

<sup>(2)</sup> Reflects annual target incentive.

<sup>(3)</sup> A market competitive range of +/- 10 percent has been used for these salaried nonexempt positions



|          | ı         |          |        |               |        |        |
|----------|-----------|----------|--------|---------------|--------|--------|
|          | AEP       |          |        |               |        |        |
|          | Target    | AEP Base |        |               |        |        |
|          | TCC (with |          |        |               |        |        |
|          | STI) vs.  | STI) vs. |        |               |        |        |
|          | Survey    | Survey   |        |               | Market |        |
|          | Actual    | Actual   | Market | Market Median |        | Market |
| AEP Job  | TCC       | TCC      | Low    | Compensation  | Range  | Max    |
| SVC NE6  | 133.5%    | 123.6%   | 90.0%  | 100.0%        | 20.0%  | 40.0%  |
| SVC NE5  | 132.4%    | 124.9%   | 90.0%  | 100.0%        | 20.0%  | 40.0%  |
| SVC NE12 | 109.0%    | 103.8%   | 90.0%  | 100.0%        | 20.0%  | 40.0%  |
| SVC NE21 | 108.2%    | 103.0%   | 90.0%  | 100.0%        | 20.0%  | 40.0%  |
| SVC NE11 | 107.0%    | 100.9%   | 90.0%  | 100.0%        | 20.0%  | 40.0%  |
| KPCo NE3 | 105.4%    | 99.4%    | 90.0%  | 100.0%        | 20.0%  | 40.0%  |
| SVC_NE3  | 105.3%    | 99.3%    | 90.0%  | 100.0%        | 20.0%  | 40.0%  |
| SVC_NE8  | 103.7%    | 98.7%    | 90.0%  | 100.0%        | 20.0%  | 40.0%  |
| KPCo_NE4 | 103.5%    | 94.1%    | 90.0%  | 100.0%        | 20.0%  | 40.0%  |
| SVC_NE19 | 101.9%    | 93.5%    | 90.0%  | 100.0%        | 20.0%  | 40.0%  |
| SVC_NE20 | 101.7%    | 94.2%    | 90.0%  | 100.0%        | 20.0%  | 40.0%  |
| SVC_NE22 | 100.5%    | 94.8%    | 90.0%  | 100.0%        | 20.0%  | 40.0%  |
| KPCo_NE7 | 99.8%     | 94.2%    | 90.0%  | 100.0%        | 20.0%  | 40.0%  |
| SVC_NE4  | 99.8%     | 95.1%    | 90.0%  | 100.0%        | 20.0%  | 40.0%  |
| SVC_NE13 | 99.8%     | 91.6%    | 90.0%  | 100.0%        | 20.0%  | 40.0%  |
| SVC_NE10 | 99.2%     | 93.6%    | 90.0%  | 100.0%        | 20.0%  | 40.0%  |
| SVC_NE18 | 98.2%     | 89.3%    | 90.0%  | 100.0%        | 20.0%  | 40.0%  |
| SVC_NE2  | 98.2%     | 93.5%    | 90.0%  | 100.0%        | 20.0%  | 40.0%  |
| SVC_NE14 | 98.1%     | 89.2%    | 90.0%  | 100.0%        | 20.0%  | 40.0%  |
| SVC_NE17 | 97.0%     | 88.2%    | 90.0%  | 100.0%        | 20.0%  | 40.0%  |
| KPCo_NE1 | 93.4%     | 88.9%    | 90.0%  | 100.0%        | 20.0%  | 40.0%  |
| KPCo_NE6 | 93.1%     | 86.2%    | 90.0%  | 100.0%        | 20.0%  | 40.0%  |
| KPCo_NE2 | 93.1%     | 88.7%    | 90.0%  | 100.0%        | 20.0%  | 40.0%  |
| KPCo_NE5 | 92.8%     | 85.1%    | 90.0%  | 100.0%        | 20.0%  | 40.0%  |
| SVC_NE9  | 91.4%     | 86.2%    | 90.0%  | 100.0%        | 20.0%  | 40.0%  |
| SVC_NE1  | 91.2%     | 84.4%    | 90.0%  | 100.0%        | 20.0%  | 40.0%  |
| SVC_NE7  | 89.0%     | 82.4%    | 90.0%  | 100.0%        | 20.0%  | 40.0%  |
| SVC_NE15 | 88.9%     | 82.3%    | 90.0%  | 100.0%        | 20.0%  | 40.0%  |
| SVC_NE16 | 86.5%     | 81.6%    | 90.0%  | 100.0%        | 20.0%  | 40.0%  |
|          |           |          | 90.0%  | 100.0%        | 20.0%  | 40.0%  |

### Kentucky Power Co: Target TCC for Exempt Positions vs. Market Median Survey Data

|                          |                   |                        |                                    |                        | ſ |                        |                     | 4                      |                                 |                                    |
|--------------------------|-------------------|------------------------|------------------------------------|------------------------|---|------------------------|---------------------|------------------------|---------------------------------|------------------------------------|
|                          |                   | AEF                    | Incumbent I                        | Data                   | - | Sı                     | ırvey Result        | s <sup>1</sup>         | % Differ                        |                                    |
| Rate case job identifier | Employee<br>Count | Avg Base               | Target<br>Incentive <sup>(2)</sup> | Target TCC             |   | Base                   | Target<br>Incentive | Target TCC             | Target TCC vs Survey Target TCC | Base vs<br>Survey<br>Target<br>TCC |
| <u>KPCo</u>              | _                 | ****                   | ***                                |                        | _ | ****                   | ***                 | *                      |                                 |                                    |
| KPCo_EX1                 | 3                 | \$115,922<br>\$120,257 | \$11,592<br>\$10,530               | \$127,514<br>\$140,705 |   | \$123,863              | \$14,090            | \$137,953              |                                 | -15.97%                            |
| KPCo_EX2<br>KPCo_EX3     | 3<br>4            | \$130,257<br>\$65,357  | \$19,539<br>\$5,229                | \$149,795<br>\$70,586  |   | \$119,025<br>\$75,575  | \$7,902<br>\$5,849  | \$126,927<br>\$81,424  | 18.02%<br>13.31%                | 2.62%<br>-19.73%                   |
| KPCo EX4                 | 6                 | \$97,578               | \$9,758                            | \$107,335              |   | \$107,330              | \$10,049            | \$117,379              |                                 | -16.87%                            |
| KPCo EX5                 | 3                 | \$138,057              | \$27,611                           | \$165,668              |   | \$163,055              | \$32,405            | \$195,460              |                                 | -29.37%                            |
| KPCo_EX6                 | 3                 | \$97,132               |                                    | \$106,845              |   | \$107,691              | \$10,642            | \$118,333              |                                 | -17.92%                            |
| KPCo_EX7                 | 3                 | \$95,645               | \$9,565                            | \$105,210              |   | \$107,691              | \$10,642            | \$118,333              | -11.09%                         | -19.17%                            |
| KPCo_EX8                 | 3                 | \$83,208               | \$7,489                            | \$90,697               |   | \$85,952               | \$5,887             | \$91,839               | -1.24%                          |                                    |
| KPCo_EX9                 | 3                 | \$125,500              | \$18,825                           | \$144,325              |   | \$118,967              | \$12,548            | \$131,515              | 9.74%                           | -4.57%                             |
| KPCo Count               |                   |                        |                                    |                        |   |                        | 1/D00 A)/E          | 2405                   | 4.00/                           | 4.4.50/                            |
| KPCo Incumbents          | 40                |                        |                                    |                        |   |                        | KPCO AVEF           | RAGE                   | -4.3%                           | -14.5%                             |
| AEP SERVICE CORP         | -                 | <b>*</b> 04.074        | <b>*</b> 7.050                     | ***                    |   | 400.005                | 40.040              | 400.470                | 4.400/                          | 40.050/                            |
| SVC_E1                   | 22                | \$81,671<br>\$77,214   | \$7,350<br>\$6,177                 |                        |   | \$89,935               | \$3,243             | \$93,178               |                                 | -12.35%<br>-4.72%                  |
| SVC_E2<br>SVC_E3         | 4<br>45           | \$77,214<br>\$109,286  | \$6,177<br>\$10,929                | \$83,391<br>\$120,215  |   | \$78,072<br>\$113,652  | \$2,969<br>\$5,245  | \$81,041<br>\$118,897  | 2.90%<br>1.11%                  |                                    |
| SVC_E4                   | 121               | \$82,592               | \$7,433                            | \$90,025               |   | \$89,935               | \$3,243             | \$93,178               | -3.38%                          |                                    |
| SVC_E5                   | 78                | \$74,320               | \$5,946                            | \$80,265               |   | \$76,073               | \$5,121             | \$81,194               | -1.14%                          |                                    |
| SVC_E6                   | 113               | \$131,188              | \$19,678                           | \$150,867              |   | \$141,863              | \$9,040             | \$150,903              |                                 | -13.06%                            |
| SVC_E7                   | 206               | \$111,138              | \$11,114                           | \$122,252              |   | \$113,652              | \$5,245             | \$118,897              | 2.82%                           | -6.53%                             |
| SVC_E8                   | 47                | \$153,425              | \$30,685                           | \$184,110              |   | \$173,337              | \$16,561            | \$189,898              |                                 | -19.21%                            |
| SVC_E9                   | 3                 | \$123,512              | \$18,527                           | \$142,039              |   | \$142,072              | \$104               | \$142,176              | -0.10%                          | -13.13%                            |
| SVC_E10                  | 6                 | \$102,471              | \$10,247                           | \$112,718              |   | \$109,642              | \$4,208             | \$113,850              | -0.99%                          |                                    |
| SVC_E11                  | 3                 | \$75,887               | \$6,830                            | \$82,717               |   | \$72,450               | \$4,513             | \$76,963               | 7.48%                           | -1.40%                             |
| SVC_E12                  | 38                | \$104,381              | \$10,438                           | \$114,819              |   | \$117,723              | \$9,705             | \$127,428              |                                 | -18.09%                            |
| SVC_E13                  | 6                 | \$155,646              | \$31,129                           | \$186,775              |   | \$170,775              | \$34,155            | \$204,930              |                                 | -24.05%                            |
| SVC_E14<br>SVC_E15       | 20<br>3           | \$71,965<br>\$87,567   | \$5,757<br>\$7,881                 | \$77,722<br>\$95,448   |   | \$64,141<br>\$75,240   | \$1,024<br>\$958    | \$65,165<br>\$76,198   | 19.27%<br>25.26%                |                                    |
| SVC_E16                  | 19                | \$93,288               | \$9,329                            | \$102,617              |   | \$92,633               | \$4,797             | \$97,430               | 5.32%                           |                                    |
| SVC_E17                  | 11                | \$105,287              | \$10,529                           | \$115,815              |   | \$94,418               | \$3,907             | \$98,325               | 17.79%                          |                                    |
| SVC E18                  | 3                 | \$138,767              |                                    |                        |   | \$144,122              | \$30,745            | \$174,867              |                                 | -20.64%                            |
| SVC_E19                  | 3                 | \$88,703               |                                    |                        |   | \$93,917               | \$4,408             | \$98,325               |                                 |                                    |
| SVC_E20                  | 4                 | \$175,720              | \$43,930                           | \$219,650              |   | \$176,597              | \$35,319            | \$211,916              | 3.65%                           | -17.08%                            |
| SVC_E21                  | 7                 | \$113,492              |                                    | \$124,841              |   | \$114,283              | \$4,742             | \$119,025              |                                 |                                    |
| SVC_E22                  | 4                 | \$89,527               |                                    | \$98,479               |   | \$89,010               | \$7,139             | \$96,149               |                                 |                                    |
| SVC_E23                  | 5                 | \$128,071              | \$12,807                           |                        |   | \$133,711              | \$16,813            | \$150,524              |                                 | -14.92%                            |
| SVC_E24                  | 4                 | \$95,516               |                                    |                        |   | \$138,069              | \$3,878             | \$141,947              |                                 | -32.71%                            |
| SVC_E25<br>SVC E26       | 3<br>5            | \$87,223<br>\$92,468   |                                    |                        |   | \$93,150<br>\$105,874  | \$2,133<br>\$13,445 | \$95,283<br>\$119,319  |                                 | -8.46%<br>-22.50%                  |
| SVC_E20<br>SVC E27       | 4                 | \$84,864               |                                    | \$93,351               |   | \$87,975               | \$5,431             | \$93,406               |                                 | -22.30 %<br>-9.14%                 |
| SVC E28                  | 3                 | \$76,123               |                                    | \$82,974               |   | \$72,847               | \$1,896             |                        |                                 |                                    |
| SVC_E29                  | 5                 | \$109,354              |                                    | \$120,290              |   | \$117,981              | \$8,061             | \$126,042              |                                 | -13.24%                            |
| SVC_E30                  | 4                 | \$141,274              |                                    | \$162,465              |   | \$158,332              | \$12,533            | \$170,865              |                                 | -17.32%                            |
| SVC_E31                  | 9                 | \$90,632               |                                    | \$99,696               |   | \$94,585               | \$5,904             | \$100,489              |                                 | -9.81%                             |
| SVC_E32                  | 13                | \$74,962               |                                    |                        |   | \$78,212               | \$2,948             | \$81,160               |                                 | -7.64%                             |
| SVC_E33                  | 36                | \$104,349              |                                    | \$114,784              |   | \$115,159              | \$8,683             | \$123,842              |                                 | -15.74%                            |
| SVC_E34                  | 13                | \$133,274              |                                    | \$153,265              |   | \$145,160              | \$13,562            | \$158,722              |                                 | -16.03%                            |
| SVC_E35                  | 5<br>15           | \$144,593              |                                    | \$173,511              |   | \$138,980              | \$42,555            | \$181,535<br>\$07,450  |                                 | -20.35%                            |
| SVC_E36<br>SVC_E37       | 15<br>6           | \$78,035<br>\$93,170   |                                    | \$85,058<br>\$102,488  |   | \$90,199<br>\$115,575  | \$7,251<br>\$11,254 | \$97,450<br>\$126,829  |                                 | -19.92%<br>-26.54%                 |
| SVC_E38                  | 17                | \$113,140              |                                    | \$102,466              |   | \$138,690              | \$17,678            | \$156,368              |                                 | -27.64%                            |
| SVC_E39                  | 9                 | \$130,030              |                                    | \$149,534              |   | \$163,403              | \$20,183            | \$183,586              |                                 | -29.17%                            |
| SVC_E40                  | 11                | \$103,782              |                                    | \$114,160              |   | \$130,775              | \$17,616            | \$148,391              |                                 | -30.06%                            |
| SVC_E41                  | 13                | \$127,358              | \$19,104                           | \$146,462              |   | \$145,521              | \$21,347            | \$166,868              |                                 | -23.68%                            |
| SVC_E42                  | 3                 | \$118,417              | \$11,842                           | \$130,258              |   | \$116,420              | \$10,856            | \$127,276              | 2.34%                           | -6.96%                             |
| SVC_E43                  | 9                 | \$151,028              | \$30,206                           | \$181,234              |   | \$154,132              | \$26,075            | \$180,207              |                                 | -16.19%                            |
| SVC_E44                  | 3                 | \$61,148               | \$3,669                            | \$64,817               |   | \$63,776               | \$0                 | \$63,776               | 1.63%                           |                                    |
| SVC_E45                  | 3                 | \$88,675               |                                    | \$97,542               |   | \$83,648               | \$391               | \$84,039               | 16.07%                          |                                    |
| SVC_E46                  | 3                 | \$97,289               | \$9,729                            | \$107,018              |   | \$127,829<br>\$147,777 | \$13,022            | \$140,851<br>\$167,670 |                                 | -30.93%                            |
| SVC_E47                  | 3<br>4            | \$116,346<br>\$82,415  |                                    | \$133,798<br>\$89,832  |   | \$147,777<br>\$72,847  | \$19,902<br>\$1,896 | \$167,679<br>\$74,743  |                                 | -30.61%<br>10.26%                  |
| SVC_E48                  | 4                 | \$82,415               | \$7,417                            | φοθ,ουΖ                |   | \$72,847               | φ1,090              | φ14,143                | 20.19%                          | 10.2070                            |

### Kentucky Power Co: Target TCC for Exempt Positions vs. Market Median Survey Data

|                          |          | AEP Incumbent Data     |                      | Survey Results <sup>1</sup> |                        | % Difference  |                        |                      |                    |
|--------------------------|----------|------------------------|----------------------|-----------------------------|------------------------|---------------|------------------------|----------------------|--------------------|
|                          |          | ALI                    |                      | Jala                        |                        | urvey Result  | .s<br>                 |                      | Base vs            |
| Rate case job identifier | Employee | Avg Base               | Target               | Target TCC                  | Base                   | Target        | Target TCC             | Target TCC vs Survey | Survey             |
| Trate dase job raemmer   | Count    | Avg Dusc               | Incentive (2)        | Target 100                  | Dusc                   | Incentive     | Target 100             | Target TCC           | Target             |
| SVC E49                  | 14       | \$98,786               | \$9,879              | \$108,665                   | \$93,91                | <u> </u><br>7 | \$98,325               | 10.52%               | <b>TCC</b> 0.47%   |
| SVC_E50                  | 3        | \$114,471              | \$11,447             | \$125,918                   | \$117,98°              |               | \$126,042              | -0.10%               |                    |
| SVC_E51                  | 3        | \$183,867              |                      | \$229,833                   | \$177,219              |               | \$217,272              |                      | -15.37%            |
| SVC_E52                  | 3        | \$100,379              | \$10,038             | \$110,417                   | \$143,697              | 7 \$13,869    | \$157,566              | -29.92%              | -36.29%            |
| SVC_E53                  | 3        | \$71,835               |                      | \$78,300                    | \$80,283               |               |                        |                      | -13.98%            |
| SVC_E54                  | 7        | \$106,542              |                      | \$117,196                   | \$119,02               |               |                        |                      | -18.42%            |
| SVC_E55                  | 6        | \$133,618              | \$20,043             | \$153,660                   | \$164,017              |               |                        |                      | -28.03%            |
| SVC_E56                  | 4        | \$134,405              |                      | \$154,566                   | \$131,559              |               |                        |                      | -11.51%            |
| SVC_E57<br>SVC_E58       | 4<br>7   | \$174,018<br>\$127,529 | \$43,504<br>\$19,129 | \$217,522<br>\$146,658      | \$207,000<br>\$131,559 |               | \$263,085<br>\$151,889 |                      | -33.86%<br>-16.04% |
| SVC_E59                  | 7        | \$120,715              |                      | \$140,030                   | \$131,558<br>\$134,550 |               | \$131,009              |                      | -16.41%            |
| SVC_E60                  | 10       | \$149,688              | \$29,938             | \$179,625                   | \$169,430              |               | \$189,218              |                      | -20.89%            |
| SVC_E61                  | 3        | \$115,713              | \$11,571             | \$127,285                   | \$131,22               |               |                        |                      | -17.31%            |
| SVC_E62                  | 4        | \$73,670               |                      | \$80,300                    | \$65,20                |               | \$66,648               | 20.48%               |                    |
| SVC_E63                  | 3        | \$104,138              | \$10,414             | \$114,552                   | \$105,922              |               |                        | 1.57%                |                    |
| SVC_E64                  | 4        | \$124,527              | \$18,679             | \$143,207                   | \$132,50               | \$9,049       | \$141,554              | 1.17%                | -12.03%            |
| SVC_E65                  | 5        | \$89,688               | \$8,969              | \$98,657                    | \$112,85               | \$13,080      | \$125,935              | -21.66%              | -28.78%            |
| SVC_E66                  | 10       | \$75,073               | \$6,757              | \$81,830                    | \$94,516               |               |                        |                      | -27.22%            |
| SVC_E67                  | 9        | \$111,720              |                      | \$122,892                   | \$115,120              |               |                        |                      | -13.98%            |
| SVC_E68                  | 8        | \$88,185               |                      | \$97,004                    | \$93,150               |               |                        |                      | -13.94%            |
| SVC_E69                  | 3        | \$90,225               |                      | \$99,248                    | \$103,05               |               | \$110,592              |                      | -18.42%            |
| SVC_E70                  | 5        | \$190,320              | \$47,580<br>\$47,057 | \$237,900                   | \$155,918              |               |                        | 32.46%               | 5.96%              |
| SVC_E71<br>SVC_E72       | 15<br>7  | \$119,713<br>\$77,814  | \$17,957<br>\$7,003  | \$137,670<br>\$84,818       | \$124,384<br>\$77,24   |               | \$141,402<br>\$82,940  | -2.04%<br>2.26%      | -15.34%<br>-6.18%  |
| SVC_E73                  | 8        | \$89,575               |                      | \$98,533                    | \$94,76                |               |                        |                      | -10.93%            |
| SVC_E74                  | 10       | \$100,070              | \$10,007             | \$110,077                   | \$122,11°              |               |                        |                      | -23.61%            |
| SVC_E75                  | 5        | \$90,753               | \$9,075              | \$99,828                    | \$96,342               |               |                        | 0.66%                |                    |
| SVC_E76                  | 5        | \$120,031              | \$18,005             | \$138,036                   | \$132,920              |               |                        |                      | -19.47%            |
| SVC_E77                  | 3        | \$56,465               | \$3,388              | \$59,853                    | \$45,600               | \$1,967       | \$47,573               | 25.81%               | 18.69%             |
| SVC_E78                  | 5        | \$64,744               | \$5,179              | \$69,923                    | \$67,690               | \$1,407       | \$69,097               | 1.20%                | -6.30%             |
| SVC_E79                  | 5        | \$142,430              | \$28,486             | \$170,916                   | \$169,19               |               | \$207,913              |                      | -31.50%            |
| SVC_E80                  | 5        | \$100,128              |                      | \$110,141                   | \$100,600              |               |                        |                      | -9.41%             |
| SVC_E81                  | 4        | \$110,494              |                      |                             | \$111,594              |               |                        |                      | -3.77%             |
| SVC_E82<br>SVC_E83       | 11       | \$149,301              |                      |                             | \$145,93               |               |                        |                      | -14.14%            |
| SVC_E63<br>SVC E84       | 20<br>5  | \$142,672<br>\$198,415 |                      | \$171,206<br>\$257,939      | \$155,026<br>\$228,400 |               |                        |                      | -21.22%<br>-31.46% |
| SVC_E85                  | 5        | \$63,350               |                      |                             | \$67,992               |               |                        |                      | -11.48%            |
| SVC E86                  | 3        | \$90,181               |                      |                             | \$100,422              |               |                        |                      | -16.60%            |
| SVC E87                  | 6        | \$76,017               |                      |                             | \$76,49                |               |                        |                      | -1.75%             |
| SVC E88                  | 13       | \$107,420              |                      |                             | \$121,40               |               |                        |                      | -18.33%            |
| SVC_E89                  | 14       | \$91,545               |                      |                             | \$95,90                |               |                        |                      | -8.81%             |
| SVC_E90                  | 5        | \$156,483              | \$31,297             | \$187,780                   | \$135,71               | \$20,284      | \$155,999              |                      |                    |
| SVC_E91                  | 7        | \$131,859              |                      |                             | \$140,07               |               |                        |                      | -20.09%            |
| SVC_E92                  | 6        | \$74,973               |                      | \$80,971                    | \$67,464               |               |                        |                      |                    |
| SVC_E93                  | 3        | \$133,583              |                      |                             | \$137,664              |               |                        |                      | -17.91%            |
| SVC_E94                  | 3        | \$107,103              |                      |                             | \$116,54               |               |                        |                      | -17.65%            |
| SVC_E95                  | 3        | \$92,231               |                      | \$101,454                   | \$96,918               |               |                        |                      | -10.89%            |
| SVC_E96<br>SVC E97       | 3<br>4   | \$57,568<br>\$100,053  |                      | \$61,022<br>\$110,058       | \$64,170<br>\$106,160  |               |                        |                      | -13.52%<br>-9.78%  |
| SVC_E97                  | 3        | \$700,033              |                      |                             | \$77,65                |               |                        |                      | -9.76 %<br>-13.42% |
| SVC_E99                  | 14       | \$109,038              |                      | \$119,941                   | \$117,06               |               |                        |                      | -15.21%            |
| SVC E100                 | 3        | \$127,238              |                      | \$146,323                   | \$131,61               |               |                        |                      | -14.49%            |
| SVC_E101                 | 4        | \$108,601              |                      |                             | \$119,54               |               |                        |                      | -14.82%            |
| SVC_E102                 | 3        | \$113,663              |                      | \$125,029                   | \$119,029              |               |                        |                      | -9.95%             |
| SVC_E103                 | 3        | \$88,936               |                      | \$97,829                    | \$101,766              | \$28          | \$101,794              |                      | -12.63%            |
| SVC_E104                 | 3        | \$173,767              |                      | \$217,208                   | \$187,598              |               |                        |                      | -23.11%            |
| SVC_E105                 | 13       | \$92,059               |                      | \$101,264                   | \$93,150               |               |                        |                      | -1.70%             |
| SVC_E106                 | 12       | \$104,034              |                      | \$114,437                   | \$119,029              |               |                        |                      | -17.58%            |
| SVC_E107                 | 4        | \$101,759              |                      | \$111,935                   | \$103,610              |               |                        |                      | -9.90%             |
| SVC_E108                 | 96       | \$150,747              |                      | \$180,897                   | \$180,719              |               |                        |                      | -27.15%            |
| SVC_E109<br>SVC_E110     | 4        | \$125,120<br>\$129,374 |                      | \$143,888<br>\$148,780      | \$148,034<br>\$139,61  |               |                        |                      | -25.14%<br>-15.32% |
| 0VO_L110                 | 16       | ψ123,314               | φ19,400              | ψ140,100                    | क् । उञ्च, छ । ३       | , काउ,१७५     | ψ102,104               | <b>-</b> ∠.U∠ 70     | - IJ.JZ70          |

### Kentucky Power Co: Target TCC for Exempt Positions vs. Market Median Survey Data

|                            |          | AEP Incumbent Data |               |            | Survey Results <sup>1</sup> |           | % Difference  |            |            |         |
|----------------------------|----------|--------------------|---------------|------------|-----------------------------|-----------|---------------|------------|------------|---------|
|                            |          | ALI                |               |            |                             |           | arvey recount | .5         |            | Base vs |
| Data and tale tale wiffing | Employee | A D                | Target        | T 1 TOO    |                             | <b>D</b>  | Target        | T 4 TOO    | Target TCC | Survey  |
| Rate case job identifier   | Count    | Avg Base           | Incentive (2) | Target TCC |                             | Base      | Incentive     | Target TCC | vs Survey  | Target  |
|                            |          |                    |               |            |                             |           |               |            | Target TCC | TCC     |
| SVC_E111                   | 3        | \$153,289          | \$30,658      | \$183,947  | -                           | \$172,836 | \$18,156      | \$190,992  | -3.69%     | -19.74% |
| SVC_E112                   | 3        | \$61,260           |               | \$66,161   |                             | \$67,275  | \$422         | \$67,697   | -2.27%     |         |
| SVC_E113                   | 6        | \$74,018           |               | \$80,679   |                             | \$83,109  | \$2,395       | \$85,504   |            | -13.43% |
| SVC_E114                   | 4        | \$93,459           |               | \$102,805  |                             | \$93,853  | \$7,659       | \$101,512  | 1.27%      |         |
| SVC_E115                   | 6        | \$76,758           |               | \$83,666   |                             | \$76,212  | \$3,924       | \$80,136   |            |         |
| SVC_E116                   | 6        | \$143,929          |               | \$172,715  |                             | \$144,886 | \$14          | \$144,900  |            |         |
| SVC_E117                   | 3        | \$103,690          |               | \$114,059  |                             | \$75,605  | \$0           | \$75,605   | 50.86%     |         |
| SVC_E118                   | 21       | \$181,782          |               | \$227,228  |                             | \$168,188 | \$22,352      | \$190,540  | 19.25%     |         |
| SVC_E119                   | 3        | \$242,492          |               | \$315,240  |                             | \$195,444 | \$34,217      | \$229,661  | 37.26%     |         |
| SVC_E120                   | 3        | \$78,111           | \$7,030       | \$85,141   |                             | \$74,904  | \$1,704       | \$76,608   | 11.14%     |         |
| SVC_E121                   | 5        | \$90,419           |               |            |                             | \$96,795  | \$4,259       | \$101,054  |            | -10.52% |
| SVC_E122                   | 15       | \$72,937           |               | \$79,501   |                             | \$65,546  | \$2,321       | \$67,867   | 17.14%     |         |
| SVC_E123                   | 3        | \$98,435           |               | \$108,279  |                             | \$106,258 | \$5,334       | \$111,592  |            | -11.79% |
| SVC_E124                   | 14       | \$99,518           |               | \$109,469  |                             | \$91,357  | \$8,994       | \$100,351  | 9.09%      |         |
| SVC_E125                   | 3        | \$89,189           |               | \$98,108   |                             | \$75,564  | \$5,316       | \$80,880   |            |         |
| SVC_E126                   | 5        | \$55,543           |               | \$58,876   |                             | \$56,925  | \$1,763       | \$58,688   | 0.32%      |         |
| SVC_E127                   | 4        | \$63,170           |               | \$68,224   |                             | \$68,351  | \$1,141       | \$69,492   | -1.82%     |         |
| SVC_E128                   | 7        | \$125,957          |               | \$144,851  |                             | \$131,037 | \$17,770      | \$148,807  | -2.66%     |         |
| SVC_E129                   | 4        | \$144,987          |               | \$166,735  |                             | \$121,840 | \$17,797      | \$139,637  | 19.41%     |         |
| SVC_E130                   | 3        | \$128,519          |               | \$147,797  |                             | \$140,044 | \$11,935      | \$151,979  |            | -15.44% |
| SVC_E131                   | 4        | \$79,092           |               | \$86,210   |                             | \$81,455  | \$4,434       | \$85,889   | 0.37%      |         |
| SVC_E132                   | 8        | \$80,378           |               | \$87,612   |                             | \$72,847  | \$1,896       | \$74,743   | 17.22%     |         |
| SVC_E133                   | 4        | \$86,086           |               | \$94,694   |                             | \$93,917  | \$4,408       | \$98,325   |            | -12.45% |
| SVC_E134                   | 41       | \$117,355          |               | \$129,091  |                             | \$117,981 | \$8,061       | \$126,042  |            |         |
| SVC_E135                   | 30       | \$137,161          | \$20,574      | \$157,735  |                             | \$139,725 | \$11,832      | \$151,557  | 4.08%      |         |
| SVC_E136                   | 3        | \$80,813           |               | \$88,087   |                             | \$76,833  | \$2,718       | \$79,551   | 10.73%     |         |
| SVC_E137                   | 5        | \$155,792          |               | \$186,950  |                             | \$153,180 | \$22,307      | \$175,487  |            | -11.22% |
| SVC_E138                   | 4        | \$114,705          |               | \$126,175  |                             | \$116,959 | \$5,585       | \$122,544  | 2.96%      |         |
| SVC_E139                   | 3        | \$126,521          | \$18,978      | \$145,500  |                             | \$109,852 | \$14,805      | \$124,657  | 16.72%     | 1.50%   |
| SVC_E140                   | 3        | \$68,535           | \$5,483       | \$74,018   |                             | \$68,100  | \$4,954       | \$73,054   | 1.32%      |         |
| SVC_E141                   | 12       | \$120,558          | \$18,084      | \$138,641  |                             | \$122,582 | \$11,033      | \$133,615  | 3.76%      |         |
| SVC_E142                   | 3        | \$138,105          |               | \$165,727  |                             | \$151,449 | \$23,536      |            |            | -21.08% |
| SVC_E143                   | 3        | \$76,039           |               |            |                             | \$77,625  |               |            |            | -5.91%  |
| SVC_E144                   | 7        | \$85,137           |               |            |                             | \$92,725  |               |            |            | -13.38% |
| SVC_E145                   | 4        | \$106,282          |               |            |                             | \$113,850 |               |            |            | -15.07% |
| SVC_E146                   | 8        | \$132,056          |               |            |                             | \$143,234 |               |            |            | -10.53% |
| SVC_E147                   | 4        | \$171,623          |               |            |                             | \$156,855 |               |            |            |         |
| SVC_E148                   | 5        | \$97,270           |               |            |                             | \$90,479  |               |            |            |         |
| SVC_E149                   | 10       | \$91,066           |               |            |                             | \$98,532  |               |            |            | -11.39% |
| SVC_E150                   | 10       | \$72,137           |               | \$77,908   |                             | \$74,520  |               |            |            | -4.45%  |
| SVC_E151                   | 4        | \$126,531          |               |            |                             | \$118,032 |               |            |            |         |
| SVC_E152                   | 9        | \$61,165           |               |            |                             | \$56,925  |               |            |            |         |
| SVC_E153                   | 5        | \$156,856          |               |            |                             | \$147,326 |               |            |            |         |
| SVC_E154                   | 7        | \$124,182          |               |            |                             | \$119,025 |               |            |            | -3.68%  |
| SVC_E155                   | 4        | \$113,414          |               |            |                             | \$118,491 |               |            |            | -14.72% |
| SVC_E156                   | 8        | \$95,114           |               | \$104,625  |                             | \$106,036 |               |            |            | -18.19% |
| SVC_E157                   | 3        | \$118,014          |               | \$129,815  |                             | \$125,390 |               |            |            | -17.20% |
| SVC_E158                   | 6        | \$150,429          |               |            |                             | \$181,868 |               |            |            | -28.98% |
| SVC_E159                   | 9        | \$91,343           |               |            |                             | \$94,082  |               |            |            | -6.16%  |
| SVC_E160                   | 4        | \$109,958          |               |            |                             | \$121,181 |               |            |            | -14.31% |
| SVC_E161                   | 3        | \$132,772          |               |            |                             | \$139,788 |               |            |            | -14.30% |
| SVC_E162                   | 4        | \$151,883          |               |            |                             | \$163,918 | \$29,206      |            |            | -21.35% |
| SVC_E163                   | 5        | \$83,866           |               |            |                             | \$76,707  |               |            |            |         |
| SVC_E164                   | 10       | \$167,159          |               |            |                             | \$154,132 |               |            |            | -7.24%  |
| SVC_E165                   | 16       | \$88,376           |               |            |                             | \$103,500 |               |            |            | -21.88% |
| SVC_E166                   | 11       | \$79,071           |               |            |                             | \$88,084  |               |            |            | -16.68% |
| SVC_E167                   | 9        | \$105,375          |               |            |                             | \$127,426 |               |            |            | -26.49% |
| SVC_E168                   | 3        | \$112,089          |               |            |                             | \$131,224 |               |            |            | -19.90% |
| SVC_E169                   | 3        | \$76,357           |               |            |                             | \$84,611  | \$2,987       |            |            | -12.83% |
| SVC_E170                   | 4        | \$65,974           |               |            |                             | \$71,933  |               |            |            | -10.95% |
| SVC_E171                   | 5        | \$144,330          |               |            |                             | \$147,177 |               |            |            | -15.62% |
| SVC_E172                   | 5        | \$80,196           | \$7,218       | \$87,414   |                             | \$72,450  | \$5,554       | \$78,004   | 12.06%     | 2.81%   |
|                            |          |                    |               |            |                             |           |               |            |            |         |

#### Kentucky Power Co: Target TCC for Exempt Positions vs. Market Median Survey Data

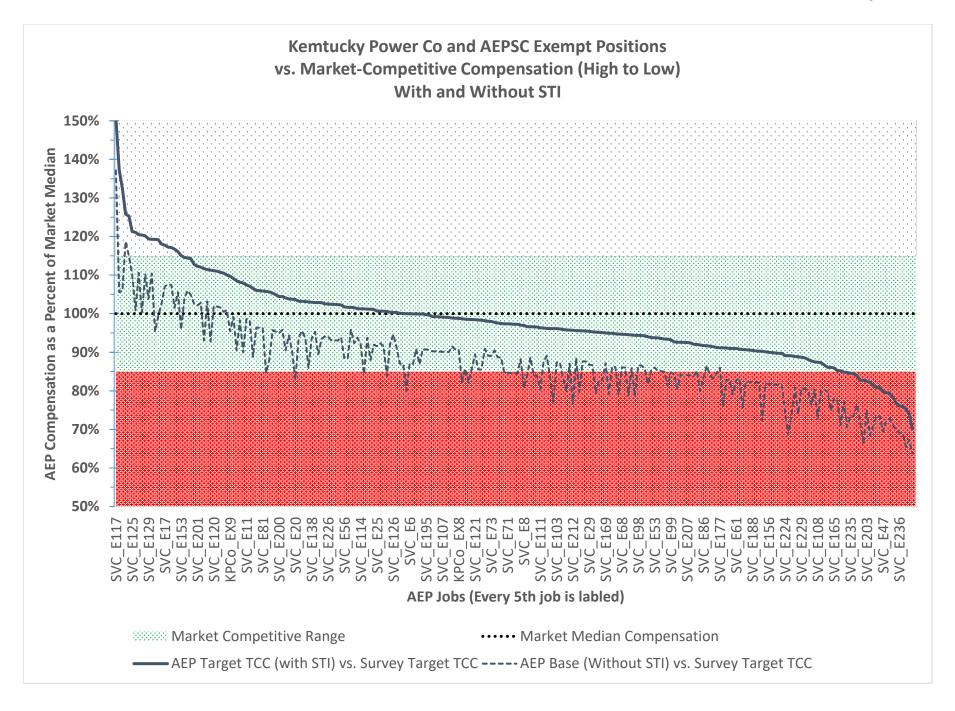
|                          |          | AEP Incumbent Data     |               | Survey Results <sup>1</sup> |                        |                     | % Difference |                      |                    |
|--------------------------|----------|------------------------|---------------|-----------------------------|------------------------|---------------------|--------------|----------------------|--------------------|
|                          |          | ALI                    | incumbent i   | Jala                        |                        | l vey itesuii       | .5           |                      | Base vs            |
| Rate case job identifier | Employee | Avg Base               | Target        | Target TCC                  | Base                   | Target              | Target TCC   | Target TCC vs Survey | Survey             |
| Nate case job identifier | Count    | Avy Dase               | Incentive (2) | raiget 100                  | Dase                   | Incentive           | raiget 100   | Target TCC           | Target             |
| SVC E173                 | 15       | \$80,692               | \$7,262       | \$87,954                    | \$82,796               | \$6,209             | \$89,005     | _                    | -9.34%             |
| SVC_E173<br>SVC E174     | 7        | \$90,571               | \$9,057       | \$99,628                    | \$100,327              |                     |              |                      | -17.87%            |
| SVC_E175                 | 8        | \$82,667               |               | \$90,107                    | \$92,822               |                     | \$102,993    |                      | -19.74%            |
| SVC E176                 | 7        | \$64,910               |               | \$70,103                    | \$75,575               |                     |              |                      | -20.28%            |
| SVC_E177                 | 3        | \$57,389               | \$3,443       | \$60,832                    | \$62,626               |                     |              | -8.85%               | -14.01%            |
| SVC_E178                 | 3        | \$107,148              |               | \$117,863                   | \$110,938              |                     |              |                      | -12.69%            |
| SVC_E179                 | 8        | \$136,715              |               | \$157,222                   | \$142,650              |                     |              |                      | -18.81%            |
| SVC_E180                 | 43       | \$98,464               |               | \$108,311                   | \$98,325               |                     |              |                      |                    |
| SVC_E181                 | 20<br>10 | \$110,479              |               | \$121,526                   | \$123,314              |                     |              |                      | -15.86%            |
| SVC_E182<br>SVC_E183     | 22       | \$82,272<br>\$93,994   |               | \$89,677<br>\$103,393       | \$78,546<br>\$91,476   |                     |              |                      |                    |
| SVC_E184                 | 51       | \$113,601              | \$11,360      | \$124,961                   | \$118,136              |                     | \$132,267    |                      | -14.11%            |
| SVC_E185                 | 35       | \$132,677              |               | \$152,579                   | \$133,598              | \$18,804            |              |                      | -12.94%            |
| SVC_E186                 | 30       | \$154,365              |               | \$185,238                   | \$148,006              | \$22,707            |              |                      |                    |
| SVC_E187                 | 3        | \$85,521               | \$8,552       | \$94,073                    | \$94,963               | \$4,164             |              |                      | -13.73%            |
| SVC_E188                 | 3        | \$101,272              | \$10,127      | \$111,399                   | \$117,546              | \$5,553             | \$123,099    | -9.50%               | -17.73%            |
| SVC_E189                 | 3        | \$119,958              | \$17,994      | \$137,952                   | \$128,493              | \$9,458             |              |                      | -13.04%            |
| SVC_E190                 | 3        | \$177,467              |               | \$221,833                   | \$195,686              | \$50,001            | \$245,687    |                      | -27.77%            |
| SVC_E191                 | 3        | \$132,010              |               | \$151,811                   | \$139,080              |                     |              |                      | -16.61%            |
| SVC_E192                 | 5        | \$146,245              |               | \$175,494                   | \$148,987              |                     | \$166,148    |                      | -11.98%            |
| SVC_E193                 | 11       | \$132,273              |               | \$152,114                   | \$141,980<br>\$148,445 |                     |              |                      | -15.45%            |
| SVC_E194<br>SVC_E195     | 19<br>22 | \$108,636<br>\$93,123  |               | \$119,500<br>\$102,436      | \$118,115<br>\$94,205  | \$10,958<br>\$8,485 |              |                      | -15.83%<br>-9.32%  |
| SVC_E195                 | 6        | \$71,240               |               | \$76,939                    | \$79,918               |                     |              |                      | -9.52 %<br>-15.53% |
| SVC_E197                 | 3        | \$144,276              |               | \$165,917                   | \$143,576              |                     |              |                      | -14.35%            |
| SVC_E198                 | 3        | \$164,837              |               | \$197,804                   | \$156,978              |                     |              |                      | -10.06%            |
| SVC_E199                 | 3        | \$105,279              | \$10,528      | \$115,807                   | \$106,258              |                     |              |                      |                    |
| SVC_E200                 | 3        | \$109,039              | \$10,904      | \$119,943                   | \$111,594              |                     |              |                      |                    |
| SVC_E201                 | 4        | \$98,907               | \$9,891       | \$108,797                   | \$91,442               | \$5,388             | \$96,830     | 12.36%               | 2.14%              |
| SVC_E202                 | 3        | \$136,666              |               | \$164,000                   | \$148,987              | \$17,161            | \$166,148    |                      | -17.74%            |
| SVC_E203                 | 5        | \$86,588               | \$8,659       | \$95,247                    | \$106,312              |                     |              |                      | -24.99%            |
| SVC_E204                 | 3        | \$106,154              |               |                             | \$123,417              |                     |              |                      | -22.89%            |
| SVC_E205<br>SVC E206     | 3        |                        |               |                             | \$155,118              |                     |              |                      | -6.95%<br>-16.29%  |
| SVC_E200<br>SVC E207     | 16<br>11 | \$117,130<br>\$93,853  |               |                             | \$131,224<br>\$106,258 |                     |              |                      | -15.90%            |
| SVC_E207<br>SVC E208     | 9        | \$97,136               |               |                             | \$106,258              |                     |              |                      | -12.95%            |
| SVC E209                 | 13       |                        |               |                             | \$84,611               |                     |              |                      | -16.01%            |
| SVC E210                 | 7        |                        |               | \$68,182                    | \$71,933               |                     |              |                      | -14.79%            |
| SVC_E211                 | 4        | \$123,689              |               |                             | \$148,854              |                     |              |                      | -26.60%            |
| SVC_E212                 | 6        | \$164,143              | \$41,036      | \$205,178                   | \$184,238              |                     | \$214,336    | -4.27%               | -23.42%            |
| SVC_E213                 | 5        | \$159,084              |               |                             | \$184,238              |                     |              |                      | -25.78%            |
| SVC_E214                 | 6        | \$155,157              |               | \$186,188                   | \$178,415              |                     |              |                      | -24.44%            |
| SVC_E215                 | 16       | \$121,204              |               | \$139,385                   | \$125,595              |                     |              |                      | -13.09%            |
| SVC_E216                 | 17       | \$84,936               |               |                             | \$90,985<br>\$104,057  |                     |              |                      | -12.37%            |
| SVC_E217<br>SVC_E218     | 7<br>26  | \$100,386<br>\$113,500 |               |                             | \$104,957<br>\$122,293 |                     |              |                      | -11.29%<br>-17.29% |
| SVC_E216<br>SVC_E219     | 17       | \$113,500<br>\$125,128 |               |                             | \$122,293<br>\$133,888 |                     |              |                      | -17.29%<br>-15.98% |
| SVC_E219<br>SVC_E220     | 21       | \$123,126              |               |                             | \$133,888<br>\$133,888 |                     |              |                      | -14.47%            |
| SVC E221                 | 10       | \$147,596              |               |                             | \$157,280              |                     |              |                      | -20.16%            |
| SVC_E222                 | 4        | \$179,426              |               | \$224,283                   | \$192,607              |                     |              |                      | -20.01%            |
| SVC_E223                 | 9        | \$156,816              |               |                             | \$181,868              |                     |              |                      | -25.97%            |
| SVC_E224                 | 7        | \$157,321              |               | \$188,785                   | \$181,868              |                     |              |                      | -25.73%            |
| SVC_E225                 | 6        | \$125,025              |               |                             | \$131,195              |                     |              |                      | -17.22%            |
| SVC_E226                 | 3        | \$83,333               |               |                             | \$79,523               |                     |              |                      | -5.95%             |
| SVC_E227                 | 6        | \$129,908              |               |                             | \$144,690<br>\$144,600 |                     |              |                      | -18.25%            |
| SVC_E228                 | 8        | \$125,712<br>\$112,500 |               |                             | \$144,690<br>\$127,822 |                     |              |                      | -20.89%            |
| SVC_E229<br>SVC E230     | 6<br>4   | \$113,500<br>\$98,125  |               | \$124,850<br>\$107,938      | \$127,823<br>\$107,485 |                     |              |                      | -19.38%<br>-13.81% |
| SVC_E230<br>SVC E231     | 30       |                        |               |                             | \$107,465<br>\$108,805 |                     |              |                      | -13.61%<br>-19.48% |
| SVC_E231<br>SVC E232     | 18       | \$95,941               |               | \$105,977<br>\$105,535      | \$108,805              |                     |              |                      | -18.27%            |
| SVC_E233                 | 10       |                        |               |                             | \$155,354              |                     |              |                      | -34.51%            |
| SVC_E234                 | 11       | \$123,284              |               |                             | \$125,595              |                     |              |                      | -11.60%            |
| _                        |          | ,                      | ,             | ,                           | ,                      | ,                   | ,            |                      |                    |

#### Kentucky Power Co: Target TCC for Exempt Positions vs. Market Median Survey Data

|                              |                   | AEF       | Incumbent I                        | Data       |         | Sı            | urvey Result        | ts <sup>1</sup>         | % Differ                              | ence                               |
|------------------------------|-------------------|-----------|------------------------------------|------------|---------|---------------|---------------------|-------------------------|---------------------------------------|------------------------------------|
| Rate case job identifier     | Employee<br>Count | Avg Base  | Target<br>Incentive <sup>(2)</sup> | Target TCC |         | Base          | Target<br>Incentive | Target TCC              | Target TCC<br>vs Survey<br>Target TCC | Base vs<br>Survey<br>Target<br>TCC |
| SVC_E235                     | 7                 | \$118,338 | \$17,751                           | \$136,089  | •       | \$140,007     | \$20,915            | \$160,922               | -15.43%                               |                                    |
| SVC_E236                     | 3                 | \$102,938 | \$10,294                           | \$113,232  |         | \$130,695     | \$18,098            | \$148,793               | -23.90%                               | -30.82%                            |
| AEPSC Job Count              | 236               |           |                                    |            |         |               | <b>AEPSC AVE</b>    | ERAGE                   | -1.6%                                 | -12.5%                             |
| AEPSC Incumbent Count        | 2,582             |           |                                    |            |         |               |                     |                         |                                       |                                    |
|                              |                   |           |                                    |            |         |               |                     | AVERAGE                 | -1.7%                                 | -12.6%                             |
| TOTAL JOB COUNT              | 245               |           |                                    |            | % of Jo | obs Above Ma  | rket Competi        | tive Range <sup>4</sup> | 9%                                    | 1%                                 |
| <b>TOTAL INCUMBENT Count</b> | 2,622             |           |                                    |            | % of Jo | obs Below Mar | ket Competi         | tive Range⁴             | 9%                                    | 43%                                |

#### Notes:

- (1) All survey data aged to March 31, 2023 at 4% annual rate
- (2) Reflects annual target incentive payout for job
- (3) Survey Data from April 2022 Towers Watson Energy Services Middle Management, Professional & Support Survey and Towers Watson General Industry Middle Management, Professional & Support Survey
- (4) A market competitive range of +/- 15 percent has been used for all exempt positions



|                      | AEP              |                  |                |                  |                |                |
|----------------------|------------------|------------------|----------------|------------------|----------------|----------------|
|                      | Target           | AEP Base         |                |                  |                |                |
|                      | TCC (with        |                  |                |                  |                |                |
|                      | STI) vs.         | STI) vs.         |                |                  |                |                |
|                      |                  | Survey           |                |                  | Market         |                |
|                      | Survey           | _                | Morkot         | Market Median    |                | Morket         |
| AED Lab              | Target           | Target           | Market         |                  | Competitive    | Market         |
| AEP Job              | TCC              | TCC              | Low            | Compensation     | Range          | Max            |
| SVC_E117             | 150.9%           | 137.1%           | 85.0%          | 100.0%           | 30.0%<br>30.0% | 35.0%          |
| SVC_E119             | 137.3%           | 105.6%           | 85.0%          | 100.0%           |                | 35.0%          |
| SVC_E70<br>SVC E77   | 132.5%           | 106.0%           | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| SVC_E//<br>SVC E15   | 125.8%           | 118.7%           | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
|                      | 125.3%           | 114.9%           | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| SVC_E125             | 121.3%           | 110.3%           | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| SVC_E147             | 121.1%           | 100.9%<br>110.5% | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| SVC_E62              | 120.5%           |                  | 85.0%<br>85.0% | 100.0%           | 30.0%          | 35.0%          |
| SVC_E90              | 120.4%           | 100.3%           |                | 100.0%           | 30.0%          | 35.0%          |
| SVC_E48              | 120.2%           | 110.3%           | 85.0%          | 100.0%<br>100.0% | 30.0%          | 35.0%          |
| SVC_E129             | 119.4%           | 103.8%           | 85.0%          |                  | 30.0%          | 35.0%          |
| SVC_E14<br>SVC_E118  | 119.3%<br>119.3% | 110.4%<br>95.4%  | 85.0%<br>85.0% | 100.0%<br>100.0% | 30.0%<br>30.0% | 35.0%<br>35.0% |
| SVC_E116             | 119.3%           | 99.3%            | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| KPCo EX2             | 118.0%           | 102.6%           | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| SVC E17              | 117.8%           | 102.0%           | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| SVC_E17<br>SVC E132  | 117.0%           | 107.1%           | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| SVC_E132<br>SVC E122 | 117.2%           | 107.5%           | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| SVC_L122<br>SVC E139 | 116.7%           | 107.5%           | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| SVC_E139             | 116.7 %          | 101.5%           | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| SVC_L43              | 115.1%           | 95.9%            | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| SVC_E153             | 114.6%           | 104.2%           | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| SVC_E151             | 114.4%           | 104.2 %          | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| SVC E163             | 114.3%           | 104.8%           | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| SVC E148             | 112.7%           | 102.5%           | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| SVC E201             | 112.4%           | 102.1%           | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| SVC E172             | 112.1%           | 102.1%           | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| SVC E205             | 111.7%           | 93.1%            | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| SVC_E92              | 111.4%           | 103.2%           | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| SVC_E164             | 111.3%           | 92.8%            | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| SVC E120             | 111.1%           | 102.0%           | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| SVC_E28              | 111.0%           | 101.8%           | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| SVC_E136             | 110.7%           | 101.6%           | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| SVC_E49              | 110.5%           | 100.5%           | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| SVC_E182             | 110.0%           | 100.9%           | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| KPCo_EX9             | 109.7%           | 95.4%            | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| SVC_E124             | 109.1%           | 99.2%            | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| SVC_E186             | 108.5%           | 90.4%            | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| SVC_E105             | 108.1%           | 98.3%            | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| SVC_E198             | 107.9%           | 89.9%            | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| SVC_E11              | 107.5%           | 98.6%            | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| SVC_E87              | 107.1%           | 98.3%            | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| SVC_E137             | 106.5%           | 88.8%            | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| SVC_E180             | 106.0%           | 96.4%            | 85.0%          | 100.0%           | 30.0%          | 35.0%          |
| SVC_E154             | 106.0%           | 96.3%            | 85.0%          | 100.0%           | 30.0%          | 35.0%          |

| SVC_E81  | 105.9% | 96.2% | 85.0% | 100.0% | 30.0% | 35.0% |
|----------|--------|-------|-------|--------|-------|-------|
| SVC E51  | 105.8% | 84.6% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E192 | 105.6% | 88.0% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E16  | 105.3% | 95.7% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E21  | 104.9% | 95.4% | 85.0% | 100.0% | 30.0% | 35.0% |
| _        |        |       |       |        |       |       |
| SVC_E200 | 104.5% | 95.0% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E115 | 104.4% | 95.8% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E135 | 104.1% | 90.5% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E199 | 103.8% | 94.3% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E141 | 103.8% | 90.2% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E20  | 103.6% | 82.9% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E159 | 103.2% | 93.8% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E150 | 103.2% | 95.6% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E183 | 103.1% | 93.8% | 85.0% | 100.0% | 30.0% | 35.0% |
| _        |        |       |       |        |       |       |
| SVC_E82  | 103.0% | 85.9% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E138 | 103.0% | 93.6% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E2   | 102.9% | 95.3% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E146 | 102.9% | 89.5% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E7   | 102.8% | 93.5% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E143 | 102.6% | 94.1% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E226 | 102.5% | 94.1% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E22  | 102.4% | 93.1% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E134 | 102.4% | 93.1% | 85.0% | 100.0% | 30.0% | 35.0% |
| _        |        |       |       |        |       |       |
| SVC_E42  | 102.3% | 93.0% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E72  | 102.3% | 93.8% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E56  | 101.8% | 88.5% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E234 | 101.7% | 88.4% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E44  | 101.6% | 95.9% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E63  | 101.6% | 92.3% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E140 | 101.3% | 93.8% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E114 | 101.3% | 92.1% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E171 | 101.3% | 84.4% | 85.0% | 100.0% | 30.0% | 35.0% |
| _        | 101.2% | 93.7% | 85.0% |        | 30.0% |       |
| SVC_E78  |        |       |       | 100.0% |       | 35.0% |
| SVC_E64  | 101.2% | 88.0% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E3   | 101.1% | 91.9% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E25  | 100.7% | 91.5% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E32  | 100.7% | 92.4% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E75  | 100.7% | 91.5% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E43  | 100.6% | 83.8% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E131 | 100.4% | 92.1% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E126 | 100.3% | 94.6% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E89  | 100.3% | 91.2% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E09  | 100.3% |       |       |        |       | 35.0% |
| _        |        | 87.1% | 85.0% | 100.0% | 30.0% |       |
| SVC_E189 | 100.0% | 87.0% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E222 | 100.0% | 80.0% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E6   | 100.0% | 86.9% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E215 | 99.9%  | 86.9% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E27  | 99.9%  | 90.9% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E9   | 99.9%  | 86.9% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E50  | 99.9%  | 90.8% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E195 | 99.8%  | 90.7% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E80  | 99.6%  | 90.6% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E80  |        |       |       |        |       |       |
|          | 99.2%  | 90.2% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E19  | 99.2%  | 90.2% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E31  | 99.2%  | 90.2% | 85.0% | 100.0% | 30.0% | 35.0% |
|          |        |       |       |        |       |       |

| SVC_E107 | 99.1% | 90.1%          | 85.0%          | 100.0% | 30.0% | 35.0% |
|----------|-------|----------------|----------------|--------|-------|-------|
| SVC_E102 | 99.1% | 90.1%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E10  | 99.0% | 90.0%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E5   | 98.9% | 91.5%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC E173 | 98.8% | 90.7%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| KPCo EX8 | 98.8% | 90.6%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC E202 | 98.7% | 82.3%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E161 | 98.6% | 85.7%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E93  | 98.5% | 82.1%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E197 | 98.5% | 85.6%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E121 | 98.4% | 89.5%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E220 | 98.4% | 85.5%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E100 | 98.3% | 85.5%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E127 | 98.2% | 90.9%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E95  | 98.0% | 89.1%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E73  | 98.0% | 89.1%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E112 | 97.7% | 90.5%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E217 | 97.6% | 88.7%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E149 | 97.5% | 88.6%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E110 | 97.4% | 84.7%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E71  | 97.4% | 84.7%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E128 | 97.3% | 84.6%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E130 | 97.2% | 84.6%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E193 | 97.2% | 84.5%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E123 | 97.0% | 88.2%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E8   | 97.0% | 80.8%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E219 | 96.6% | 84.0%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E4   | 96.6% | 88.6%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E34  | 96.6% | 84.0%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E58  | 96.6% | 84.0%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E111 | 96.3% | 80.3%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E133 | 96.3% | 87.6%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E170 | 96.2% | 89.0%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E59  | 96.1% | 83.6%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E104 | 96.1% | 76.9%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E103 | 96.1% | 87.4%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E178 | 96.0% | 87.3%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E191 | 95.9% | 83.4%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E221 | 95.8% | 79.8%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E208 | 95.7% | 87.0%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E212 | 95.7% | 76.6%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E85  | 95.6% | 88.5%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E35  | 95.6% | 79.7%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E1   | 95.5% | 87.7%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E216 | 95.5% | 87.6%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E29  | 95.4% | 86.8%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E144 | 95.3% | 86.6%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E18  | 95.2% | 79.4%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E225 | 95.2% | 82.8%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E30  | 95.1% | 82.7%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E169 | 95.0% | 87.2%<br>70.1% | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E60  | 94.9% | 79.1%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E187 | 94.9% | 86.3%          | 85.0%<br>85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E230 | 94.8% | 86.2%          | 85.0%          | 100.0% | 30.0% | 35.0% |
| SVC_E142 | 94.7% | 78.9%          | 85.0%          | 100.0% | 30.0% | 35.0% |

| SVC_E68  | 94.7% | 86.1% | 85.0% | 100.0% | 30.0% | 35.0% |
|----------|-------|-------|-------|--------|-------|-------|
| SVC_E67  | 94.6% | 86.0% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E83  | 94.5% | 78.8% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E184 | 94.5% | 85.9% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E162 | 94.4% | 78.6% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E98  | 94.4% | 86.6% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E113 | 94.4% | 86.6% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E160 | 94.3% | 85.7% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E227 | 94.0% | 81.7% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E155 | 93.8% | 85.3% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E53  | 93.8% | 86.0% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E101 | 93.7% | 85.2% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E23  | 93.6% | 85.1% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E145 | 93.4% | 84.9% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E179 | 93.4% | 81.2% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E99  | 93.3% | 84.8% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E33  | 92.7% | 84.3% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E76  | 92.6% | 80.5% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E194 | 92.6% | 84.2% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E181 | 92.6% | 84.1% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E207 | 92.5% | 84.1% | 85.0% | 100.0% | 30.0% | 35.0% |
| KPCo EX1 | 92.4% | 84.0% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E206 | 92.1% | 83.7% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E210 | 92.0% | 85.2% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E91  | 91.9% | 79.9% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E86  | 91.7% | 83.4% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E96  | 91.7% | 86.5% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E209 | 91.6% | 84.0% | 85.0% | 100.0% | 30.0% | 35.0% |
| KPCo EX4 | 91.4% | 83.1% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E196 | 91.2% | 84.5% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E177 | 91.2% | 86.0% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E13  | 91.1% | 76.0% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E157 | 91.1% | 82.8% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E218 | 91.0% | 82.7% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E228 | 91.0% | 79.1% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E61  | 91.0% | 82.7% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E166 | 90.8% | 83.3% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E214 | 90.7% | 75.6% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E106 | 90.7% | 82.4% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E94  | 90.6% | 82.3% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E188 | 90.5% | 82.3% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E174 | 90.3% | 82.1% | 85.0% | 100.0% | 30.0% | 35.0% |
| KPCo_EX6 | 90.3% | 82.1% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E190 | 90.3% | 72.2% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E12  | 90.1% | 81.9% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E156 | 90.0% | 81.8% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E232 | 89.9% | 81.7% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E88  | 89.8% | 81.7% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E69  | 89.7% | 81.6% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E54  | 89.7% | 81.6% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E224 | 89.1% | 74.3% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E84  | 89.1% | 68.5% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E213 | 89.1% | 74.2% | 85.0% | 100.0% | 30.0% | 35.0% |
| KPCo_EX7 | 88.9% | 80.8% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E223 | 88.8% | 74.0% | 85.0% | 100.0% | 30.0% | 35.0% |
|          |       |       |       |        |       |       |

| SVC E229 | 88.7% | 80.6% | 85.0% | 100.0% | 30.0% | 35.0% |
|----------|-------|-------|-------|--------|-------|-------|
| SVC E231 | 88.6% | 80.5% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC E168 | 88.1% | 80.1% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E41  | 87.8% | 76.3% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E175 | 87.5% | 80.3% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E108 | 87.4% | 72.9% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E36  | 87.3% | 80.1% | 85.0% | 100.0% | 30.0% | 35.0% |
| KPCo_EX3 | 86.7% | 80.3% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E176 | 86.1% | 79.7% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E109 | 86.1% | 74.9% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E165 | 85.9% | 78.1% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E26  | 85.2% | 77.5% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E158 | 85.2% | 71.0% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E204 | 84.8% | 77.1% | 85.0% | 100.0% | 30.0% | 35.0% |
| KPCo_EX5 | 84.8% | 70.6% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E235 | 84.6% | 73.5% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E211 | 84.4% | 73.4% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E74  | 84.0% | 76.4% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E55  | 82.8% | 72.0% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E57  | 82.7% | 66.1% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E203 | 82.5% | 75.0% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E79  | 82.2% | 68.5% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E39  | 81.5% | 70.8% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E167 | 80.9% | 73.5% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E37  | 80.8% | 73.5% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E47  | 79.8% | 69.4% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E38  | 79.6% | 72.4% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E66  | 79.3% | 72.8% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E65  | 78.3% | 71.2% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E40  | 76.9% | 69.9% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E236 | 76.1% | 69.2% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E46  | 76.0% | 69.1% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E233 | 75.3% | 65.5% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E24  | 74.0% | 67.3% | 85.0% | 100.0% | 30.0% | 35.0% |
| SVC_E52  | 70.1% | 63.7% | 85.0% | 100.0% | 30.0% | 35.0% |
|          | #N/A  | #N/A  | 85.0% | 100.0% | 30.0% | 35.0% |
|          |       |       |       |        |       |       |

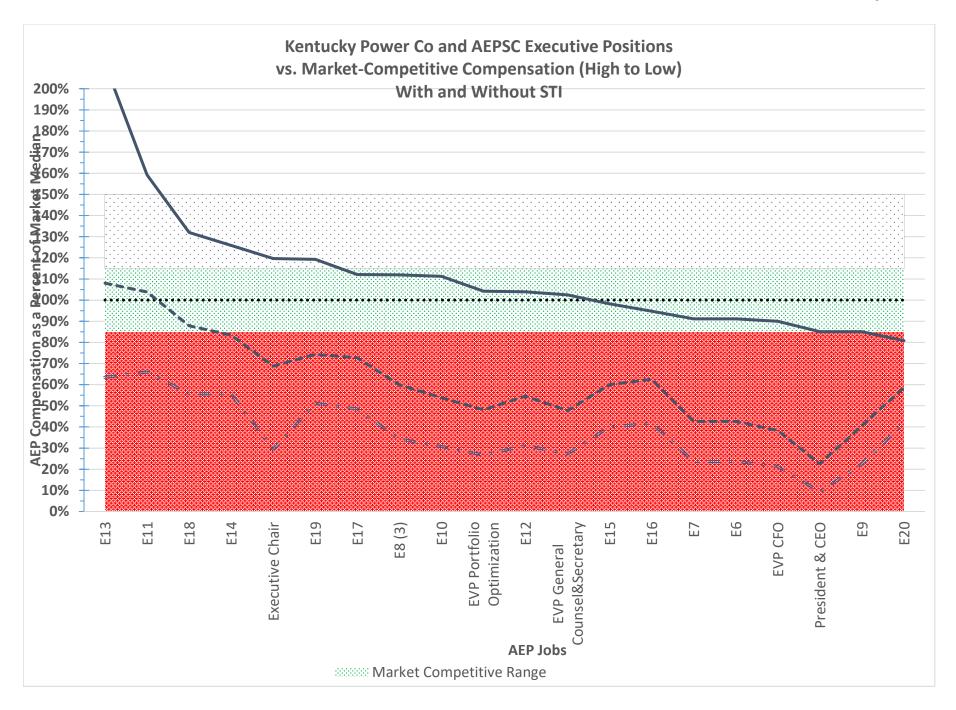
| <u> </u>                          |             |                 | AEP Incumb    | ent Data (\$000) <sup>(1)</sup> |             |              |             |                 | Survey R      | esults (\$000) <sup>(2)</sup> |             |              | % Difference                            | % Difference                      | % Difference             |
|-----------------------------------|-------------|-----------------|---------------|---------------------------------|-------------|--------------|-------------|-----------------|---------------|-------------------------------|-------------|--------------|---|-----------------------------------|--------------------------|
| AEP Job                           | Base Salary | Target<br>STI % | Target STI \$ | Target TCC                      | Target LTI  | Target TC    | Base        | Target STI<br>% | Target STI \$ | Target TCC                    | Target LTI  | Target TC    | AEP Target TC<br>vs Survey<br>Target TC | AEP Target<br>TCC vs<br>Survey TC | AEP Base vs<br>Survey TC |
| Executive Chair                   | \$1,150,000 | 135%            | \$1,552,500   | \$2,702,500                     | \$2,000,000 | \$4,702,500  | \$1,196,000 | 110.0%          | \$1,315,600   | \$2,288,000                   | \$1,641,640 | \$3,929,640  | 19.7%                                   | -31.2%                            | -70.7%                   |
| President & CEO                   | \$1,200,000 | 140%            | \$1,680,000   | \$2,880,000                     | \$8,000,000 | \$10,880,000 | \$1,355,074 | 145.0%          | \$1,964,858   | \$3,237,000                   | \$9,550,732 | \$12,787,732 | -14.9%                                  | -77.5%                            | -90.6%                   |
| EVP CFO                           | \$700,000   | 80%             | \$560,000     | \$1,260,000                     | \$1,700,000 | \$2,960,000  | \$735,773   | 88.0%           | \$647,480     | \$1,381,144                   | \$1,908,333 | \$3,289,477  | -10.0%                                  | -61.7%                            | -78.7%                   |
| EVP General Counsel&Secretary     | \$746,000   | 75%             | \$559,500     | \$1,305,500                     | \$1,500,000 | \$2,805,500  | \$687,900   | 80.0%           | \$550,320     | \$1,219,900                   | \$1,518,500 | \$2,738,400  | 2.5%                                    | -52.3%                            | -72.8%                   |
| EVP Portfolio Optimization        | \$619,500   | 80%             | \$495,600     | \$1,115,100                     | \$1,300,000 | \$2,415,100  | \$733,900   | 50.0%           | \$366,950     | \$1,100,800                   | \$1,216,900 | \$2,317,700  | 4.2%                                    | -51.9%                            | -73.3%                   |
| E6                                | \$585,000   | 80.0%           | \$468,000     | \$1,053,000                     | \$1,200,000 | \$2,253,000  | \$650,500   | 80.0%           | \$520,400     | \$1,198,100                   | \$1,273,800 | \$2,471,900  | -8.9%                                   | -57.4%                            | -76.3%                   |
| E7                                | \$585,000   | 80.0%           | \$468,000     | \$1,053,000                     | \$1,200,000 | \$2,253,000  | \$650,500   | 80.0%           | \$520,400     | \$1,198,100                   | \$1,273,800 | \$2,471,900  | -8.9%                                   | -57.4%                            | -76.3%                   |
| E8 <sup>(3)</sup>                 | \$659,000   | 75%             | \$494,250     | \$1,153,250                     | \$1,000,000 | \$2,153,250  | \$552,900   | 60.0%           | \$331,740     | \$1,017,400                   | \$906,800   | \$1,924,200  | 11.9%                                   | -40.1%                            | -65.8%                   |
| E9                                | \$557,000   | 80.0%           | \$445,600     | \$1,002,600                     | \$1,100,000 | \$2,102,600  | \$650,500   | 80.0%           | \$520,400     | \$1,198,100                   | \$1,273,800 | \$2,471,900  | -14.9%                                  | -59.4%                            | -77.5%                   |
| E10                               | \$535,000   | 75%             | \$401,250     | \$936,250                       | \$1,000,000 | \$1,936,250  | \$570,600   | 68.0%           | \$388,008     | \$969,400                     | \$770,800   | \$1,740,200  | 11.3%                                   | -46.2%                            | -69.3%                   |
| E11                               | \$410,000   | 57.5%           | \$235,750     | \$645,750                       | \$344,000   | \$989,750    | \$286,300   | 40.0%           | \$114,520     | \$403,300                     | \$218,400   | \$621,700    | 59.2%                                   | 3.9%                              | -34.1%                   |
| E12                               | \$526,000   | 75%             | \$394,500     | \$920,500                       | \$832,000   | \$1,752,500  | \$521,500   | 60.0%           | \$312,900     | \$849,400                     | \$837,500   | \$1,686,900  | 3.9%                                    | -45.4%                            | -68.8%                   |
| E13                               | \$551,500   | 70%             | \$386,050     | \$937,550                       | \$900,000   | \$1,837,550  | \$377,000   | 48.0%           | \$180,960     | \$552,100                     | \$315,970   | \$868,070    | 111.7%                                  | 8.0%                              | -36.5%                   |
| E14                               | \$450,000   | 50%             | \$225,000     | \$675,000                       | \$344,000   | \$1,019,000  | \$371,800   | 40.0%           | \$148,720     | \$538,900                     | \$270,600   | \$809,500    | 25.9%                                   | -16.6%                            | -44.4%                   |
| E15                               | \$360,500   | 50%             | \$180,250     | \$540,750                       | \$344,000   | \$884,750    | \$399,500   | 50.0%           | \$199,750     | \$590,300                     | \$310,600   | \$900,900    | -1.8%                                   | -40.0%                            | -60.0%                   |
| E16                               | \$444,500   | 50%             | \$222,250     | \$666,750                       | \$344,000   | \$1,010,750  | \$412,300   | 50.0%           | \$206,150     | \$628,700                     | \$438,000   | \$1,066,700  | -5.2%                                   | -37.5%                            | -58.3%                   |
| E17                               | \$423,500   | 50%             | \$211,750     | \$635,250                       | \$344,000   | \$979,250    | \$410,300   | 45.0%           | \$184,635     | \$577,100                     | \$296,500   | \$873,600    | 12.1%                                   | -27.3%                            | -51.5%                   |
| E18                               | \$435,000   | 57.5%           | \$250,125     | \$685,125                       | \$344,000   | \$1,029,125  | \$367,002   | 43.0%           | \$157,811     | \$513,803                     | \$265,702   | \$779,505    | 32.0%                                   | -12.1%                            | -44.2%                   |
| E19                               | \$342,000   | 45%             | \$153,900     | \$495,900                       | \$300,000   | \$795,900    | \$320,900   | 40.0%           | \$128,360     | \$436,800                     | \$230,500   | \$667,300    | 19.3%                                   | -25.7%                            | -48.7%                   |
| E20                               | \$277,366   | 40%             | \$110,946     | \$388,312                       | \$146,685   | \$534,997    | \$348,400   | 43.0%           | \$149,812     | \$500,800                     | \$161,300   | \$662,100    | -19.2%                                  | -41.4%                            | -58.1%                   |
| Notes:                            |             |                 |               |                                 |             |              |             |                 |               |                               |             |              |   |                                   |                          |
| (1) AEP data as of March 31, 2023 |             |                 |               |                                 |             |              |             |                 |               |                               |             |              | 11.5%                                   | -38.5%                            | -62.8%                   |

<sup>(1)</sup> AEP data as of March 31, 2023

<sup>(2)</sup> Median AEP Compensation Peer Group data from April 1, 2022 Towers Watson Energy Services Executive Survey, 2022 Towers Watson General Industry Executive Survey, or proxy filings (unless otherwise noted), in either case aged to March 31, 2023 at 4% annual rate.

<sup>(3)</sup> Position benchmarked at 75th percentile

<sup>(4)</sup> A market competitive range of +/- 15 percent has been used for all executive positions.



| AEP Job              | AEP Target TC vs. Survey Target TC | AEP Target TCC vs. Survey Target TC | AEP<br>Target<br>Base vs.<br>Survey<br>Target TC | Market<br>Low | Market Median<br>Compensation | •     | Market<br>Max |
|----------------------|------------------------------------|-------------------------------------|--|---------------|-------------------------------|-------|---------------|
| E13                  | 211.7%                             | 108.0%                              | 63.5%  | 85.0%         | 100.0%                        | 30.0% | 35.0%         |
| E11                  | 159.2%                             | 103.9%                              | 65.9%  | 85.0%         | 100.0%                        | 30.0% | 35.0%         |
| E18                  | 132.0%                             | 87.9%                               | 55.8%  | 85.0%         | 100.0%                        | 30.0% | 35.0%         |
| E14                  | 125.9%                             | 83.4%                               | 55.6%  | 85.0%         | 100.0%                        | 30.0% | 35.0%         |
| Executive Ch         |                                    | 68.8%                               | 29.3%  | 85.0%         | 100.0%                        | 30.0% | 35.0%         |
| E19                  | 119.3%                             | 74.3%                               | 51.3%  | 85.0%         | 100.0%                        | 30.0% | 35.0%         |
| E17                  | 112.1%                             | 72.7%                               | 48.5%  | 85.0%         | 100.0%                        | 30.0% | 35.0%         |
| E8 <sup>(3)</sup>    | 111.9%                             | 59.9%                               | 34.2%  | 85.0%         | 100.0%                        | 30.0% | 35.0%         |
| E10                  | 111.3%                             | 53.8%                               | 30.7%  | 85.0%         | 100.0%                        | 30.0% | 35.0%         |
| <b>EVP</b> Portfolio | 104.2%                             | 48.1%                               | 26.7%  | 85.0%         | 100.0%                        | 30.0% | 35.0%         |
| E12                  | 103.9%                             | 54.6%                               | 31.2%  | 85.0%         | 100.0%                        | 30.0% | 35.0%         |
| <b>EVP</b> General   | 102.5%                             | 47.7%                               | 27.2%  | 85.0%         | 100.0%                        | 30.0% | 35.0%         |
| E15                  | 98.2%                              | 60.0%                               | 40.0%  | 85.0%         | 100.0%                        | 30.0% | 35.0%         |
| E16                  | 94.8%                              | 62.5%                               | 41.7%  | 85.0%         | 100.0%                        | 30.0% | 35.0%         |
| E7                   | 91.1%                              | 42.6%                               | 23.7%  | 85.0%         | 100.0%                        | 30.0% | 35.0%         |
| E6                   | 91.1%                              | 42.6%                               | 23.7%  | 85.0%         | 100.0%                        | 30.0% | 35.0%         |
| <b>EVP CFO</b>       | 90.0%                              | 38.3%                               | 21.3%  | 85.0%         | 100.0%                        | 30.0% | 35.0%         |
| President & C        | 85.1%                              | 22.5%                               | 9.4%   | 85.0%         | 100.0%                        | 30.0% | 35.0%         |
| E9                   | 85.1%                              | 40.6%                               | 22.5%  | 85.0%         | 100.0%                        | 30.0% | 35.0%         |
| E20                  | 80.8%                              | 58.6%                               | 41.9%  | 85.0%         | 100.0%                        | 30.0% | 35.0%         |



#### 2023 Utilities' ICP Scorecard

| Value Driver             | Metric  | Weight | 0.0                        | 1.0                          | 2.0                             |
|--------------------------|---|--------|----------------------------|------------------------------|---------------------------------|
|                          | Utilities' Employee DART<br>Rate                    | 6.0%   | 0.682                      | 0.617                        | 0.585                           |
|                          | Utilities' Contractor DART<br>Rate                  | 4.0%   | 0.596                      | 0.539                        | 0.511                           |
| Safety and<br>Compliance | Serious Injury and Fatality (SIF) Event Sharing     | 6.0%   | 50%                        | 75%                          | 100%                            |
|                          | Contractor Safety Performance Evaluations           | 6.0%   | 50%                        | 75%                          | 100%                            |
|                          | Targeted CORE Visit Assessment                      | 8.0%   | 0%                         | 50%                          | 100%                            |
| Workforce &              | Diversity, Equity & Inclusion                       | 2.5%   | 0.00 improvement           | 0.05<br>improvement          | 0.10<br>improvement             |
| Culture                  | Culture Survey Participation                        | 2.5%   | 2022 Participation         | Varies                       | 92%                             |
|                          | Labor Strategy*                                     | 7.5%   | 0 Milestones               | 1 Milestones                 | 2 Milestones                    |
| Business                 | Operating Earnings                                  | 10.0%  | 15% under                  | Control                      | 15% over                        |
| Performance              | Return on Equity                                    | 10.0%  | Authorized -100<br>bps     | Authorized -50<br>bps        | Authorized +25<br>bps           |
| Affaudah:II.             | JD Power Quality & Reliability (PQR) Index***       | 5.0%   | Maintain/Decrease<br>Score | Increase >= than peer avg.   | Increase 2 times peer avg.      |
| Affordability            | JD Power Quality - Power<br>Communications Index*** | 5.0%   | Maintain/Decrease<br>Score | Increase >= than peer avg.   | Increase 2 times peer avg.      |
|                          | SAIDI Actual**                                      | 10.0%  | 322.24                     | 268.44                       | 215.75                          |
| Operations               | Forestry Management Optimization*                   | 5.0%   | No Objectives<br>Achieved  | Can Range<br>from .20 - 1.50 | All Objectives<br>Achieved      |
| Operations               | Electrification Strategy*                           | 2.5%   | No Objectives<br>Achieved  | 3 Objectives<br>Achieved     | 3 Objectives<br>+2024 Work Plan |
|                          | Reliability Work Plans                              | 10.0%  | 0%                         | 50%                          | 100%                            |
|                          |   | 100%   |                            |                              |                                 |

<sup>\*</sup>Denotes 2023 Strategic Initiatives

<sup>\* \*</sup>SAIDI Individual OPCo Targets located in the Appendix

#### BENEFIT SUMMARY

| Benefit Plan   | Core Program Descriptions   | Administrator         |
|----------------|---|-----------------------|
| Eligibility    | All full-time (scheduled to work an average of 40 hours per week) employees and their eligible dependents are eligible to participate in the following benefits: group medical, dental, life, accidental death & dismemberment, sick pay, long-term disability, retirement savings (401k), retirement (pension), holiday and vacation pay. All part-time (scheduled to work an average of 20 hours per week) employees are eligible to participate in the group medical, dental, retirement savings (qualified 401k) plan and retirement (qualified pension) plan beginning the first day of service with AEP. Part-time employees are also eligible for holiday and vacation benefits according to a different schedule than full-time. Temporaries, co-ops and interns are eligible to participate in the pension plan and the qualified 401k plan. |                       |
| Medical        | AEP offers three consumer-directed health plans (CDHPs). The three CDHP options are: HRA – CDHP with an AEP-funded Health Reimbursement Account (HRA).  HSA Plus – CDHP with a Health Savings Account (HSA) that provides both AEP funding and optional employee funding via payroll deduction (for active employees only) or via deposits made directly to the account.  HSA Basic – CDHP with an optional Health Savings Account (HSA) that allows employee funding via payroll deduction (for active employees only) or via deposits made directly to the account.   | Anthem                |
| Dental         | AEP offers two dental plan options.  Dental Preferred Provider Organization (DPPO) Plan: Offered in all areas.  Dental Maintenance Organization (DMO) Plan: Offered in limited areas; availability is based on employee's ZIP Code.   | Aetna                 |
| Life Insurance | The company provides full-time employees two times their base annual pay in life insurance at no cost to the employee with those hired after January 1, 2019, receiving one-times. Most employees can purchase up to eight times their base pay in supplemental coverage. The total amount of combined coverage for most employees cannot exceed \$1 million.  The employee pays the total cost of supplemental and dependent life coverage. The monthly after-tax cost for the employee supplemental life coverage is based on the employee's age, tobacco use status, the employee's base pay and the level of coverage.  Some active employees, who remained in grandfathered life plans (not open to new enrollments), pay between \$0.20 - \$0.35 per \$1,000 for coverage.  | Minnesota<br>Life     |
| AD&D           | AEP'S AD&D benefit program offers help with the financial hardship a full-time employee's family may suffer should the employee become seriously injured or die in an accident. The Company provides employees two times their base pay (up to \$1.5 million) at no cost to the employee. For employees on an Emergency Response Team, the Company provides AD&D insurance of an additional two times their base pay (up to \$1.5 million) at no cost to the employee. Employees can purchase up to ten times their base pay (up to \$1.5 million) in supplemental coverage. Employees can purchase dependent AD&D insurance for their eligible dependents.   | Minnesota<br>Life     |
| Sick Pay       | The Sick Pay Plan provides full-time employees financial protection in the event of a short-term illness or injury that prevents employees from working. Benefits are payable for the first day of absence from work due to illness or injury and may continue up to 26 weeks. Sick pay is determined according to the amount of the employee's base pay on the day before the absence begins and is paid at 100% or 60% depending on service with the Company. The Company pays the full cost of coverage through normal salary allocations as this program is financed as a salary continuation plan.   | Self-<br>Administered |

#### BENEFIT SUMMARY

| Benefit Plan                                  | Core Program Descriptions  | Administrator         |
|---|--|-----------------------|
| Holiday                                       | AEP provides pay for 9 holiday days per year for full-time employees and part-time employees who are regularly scheduled to work that day. An additional 24 hours of paid personal holiday time off can be scheduled by the employee with the approval from their supervisor to use throughout the year.   | Self-<br>Administered |
| Vacation                                      | AEP provides paid vacation time off for all full-time and part-time employees who are scheduled to work an average of 20 hours per week. Vacation accrues based on job grade, tenure, exemption status and hours worked. Part-time employees receive one-half the annual allocation as full-time employees.  | Self-<br>Administered |
| Long Term<br>Disability (LTD) &<br>LTD Buy-Up | The AEP Long-Term Disability plan provides full-time employees financial protection in the event of an employee's illness or injury that prevents them from working for an extended period of time. To qualify for LTD benefits, the employee must be totally disabled because of illness or injury for 26 weeks (elimination period) and unable to perform the functions of their own occupation. After 2 years of approved disability, the employees must be unable to perform the duties of any occupation. The plan's monthly total disability benefit pays 60% of the employee's base monthly pay in effect immediately before the disability begins. The Company pays the full cost of this coverage. Effective January 1, 2014, eligible employees have the opportunity to purchase additional 10% coverage which is referred to as a buy-up.   | Self-Administered     |
| Vision  | AEP offers comprehensive employee paid vision coverage for eye care and vision correction. AEP's Comprehensive Vision Plan provides coverage for eye exams, contacts (including disposable contacts) and eyeglass lenses and frames. It also offers discounts on special features, such as scratch-resistant lenses, laser eye surgery and more. Vision care discounts are also available through the medical plans. Proper eye care can lead to the early detection and treatment of vision-related complications. Vision plan participants can take advantage of the discounted retinal-imaging exam option; in addition, members who have Type 1 or Type 2 diabetes are eligible for a follow-up exam and additional testing two times per benefit year.  | EyeMed                |
| Savings Plan                                  | The AEP System Retirement Savings Plan is a 401(k) savings plan that gives employees an opportunity to save through payroll deductions on a pre-tax and after-tax basis. Generally, employees can contribute from 1% to 50% of their eligible compensation on a pre-tax basis, after-tax basis, including Roth 401(k) after-tax, or in a combination of any of the contribution options, up to the limits established by the IRS. The Company adds 100% to their account for every dollar they contribute up to the first 1% and 70% for every dollar they contribute up to the next 5% each pay period. All contribution sources are eligible for the match, but the 6% limit is applied to the total amount contributed each pay period. Employees can invest in any combination of the 19 investment options available and/or the self- directed brokerage account to design their own diversified portfolio. Employees are immediately 100% vested in the value of their contributions and AEP contributions | Empower               |

#### BENEFIT SUMMARY

| Benefit Plan                                   | Core Program Descriptions  | Administrator   |
|--|--|---|
| Retirement Plan<br>(Qualified Pension<br>Plan) | The plan provides a cash balance benefit. Each of the AEP affiliates establishes a recordkeeping account for their employees to track growth of a participant's benefit over time. The account balance grows through two annual credits: an interest credit and an annual employer company credit which is a percentage of a participant's pay, based on age and service. Employees are eligible to participate after completing one year of service with AEP. Employees are automatically enrolled in the AEP System Retirement Plan once eligible. Participants are 100% vested in their accrued benefit after three years of service. Participants of the AEP System Retirement Plan who were employed by the Company on 12/31/2000 and participants of the Central and South West Retirement Plan who were age 50 or older with at least 10 years of service as of June 30, 1997, are grandfathered in each plan's prior pension formula. Grandfathered participants receive the higher benefit from the prior formulas provided by the plans or the newer cash balance formula. | Telus Health  |
| Post-Retirement<br>Medical, Dental &<br>Vision | Employees who are at least age 55 with at least 10 or more years of service when they terminate employment are eligible to enroll in retiree benefits. For benefit purposes, these employees are referred to as "retirees."  Eligible retirees and their eligible dependents may elect retiree medical, dental, and vision coverage. Employees hired or rehired on or after January 1, 2014, are not eligible for retiree medical coverage.  | Anthem (Medical<br>for under age<br>65), Aetna<br>(medical for over<br>age 65), Aetna |
|  | Upon an employee or retirees' death, eligible surviving spouses/dependents may continue medical, dental, and vision coverage until the dependent child(ren) reach the limiting age, or for surviving spouses of active employees, attain age 65, or remarry. Surviving spouse of retirees can continue coverage until remarriage or death. Once a surviving spouse/dependent opts out of AEP coverage for any reason, including non-payment of premiums, they lose any future eligibility for enrollment.  |   |
| Post-Retirement<br>Life Insurance              | AEP provides life insurance coverage equal to a flat \$30,000 at no cost to eligible retired employees (at least age 55 with 10 or more years of service at the time of termination). Certain grandfathered retirees are eligible for additional coverage amounts, based on when they retired. Depending on their grandfathered group, some coverages may reduce as the retiree gets older. Employees hired or rehired on or after January 1, 2011, are not eligible for company-paid life insurance upon retirement.  |   |

**January 1, 2023 - December 31, 2023** 

#### PARTICIPANT MEDICAL CONTRIBUTIONS

The pre-tax monthly cost to active full-time employees is calculated based on a percentage of the total cost of coverage. The pre-tax monthly costs to active part-time employees are two and one-half times the monthly costs of active full-time employees.

#### MEDICAL PLAN SURCHARGES

#### **Spousal Surcharge**

Effective January 1, 2014, if an active employee covers his/her spouse/domestic partner on AEP's medical plan, and that spouse/domestic partner has access to medical coverage through his/her employer, the employee will be assessed a surcharge of \$50.00 per month.

#### **Tobacco Surcharge**

Effective January 1, 2021, a \$50.00 per month tobacco surcharge applies to spouses or domestic partners enrolled in AEP medical coverage who indicate they use tobacco or nicotine products. This works in conjunction with the rule that was effective January 1, 2015, for employees who use tobacco and nicotine products will have a surcharge, in the amount of \$50.00 per month, assessed when they elect coverage under AEP's medical plan.

#### **January 1, 2023 – December 31, 2023**

#### GROUP MEDICAL PLANS

| Health Savings<br>Account (HSA)   | HSA E  | Basic  | HSA Plus   |   |
|---|--|--|--|---|
| Plan Options  | In-Network   | Out-of-Network   | In-Network   | Out-of-Network  |
| Company Annual<br>Contribution to<br>HAS  | NA   | NA   | participant only: \$500<br>participant + spouse o<br>\$750<br>participant + family:  | r participant + child(ren):   |
| Annual Deductible<br>(includes medical,<br>prescription and<br>behavioral health) | \$3,000/participant<br>\$6,000/participant +<br>spouse<br>\$6,000/participant + 1<br>child<br>\$9,000/participant +<br>children<br>\$9,000/participant +<br>family | \$4,000/participant<br>\$8,000/participant<br>+ spouse<br>\$8,000/participant<br>+ 1 child<br>\$12,000/participant<br>+ children<br>\$12,000/participant<br>+ family     | \$2,000/participant<br>\$3,000/participant +<br>spouse<br>\$3,000/participant +<br>child(ren)<br>\$4,000/participant +<br>family | \$3,000/participant<br>\$4,500/participant +<br>spouse<br>\$4,500/participant +<br>child(ren)<br>\$6,000/participant +<br>family  |
| Annual out-of-<br>pocket maximum  | \$4,000/participant \$8,000/participant + spouse \$8,000/participant + 1 child \$12,000/participant + child(ren) \$12,000/participant+ family                      | \$8,000/participant<br>\$16,000/participant<br>+<br>spouse\$16,000/part<br>icipant + 1 child<br>\$24,000/participant<br>+ child(ren)<br>\$24,000/participant<br>+ family | \$4,000/participant<br>\$6,000/participant +<br>spouse<br>\$6,000/participant +<br>child(ren)<br>\$8,000/participant +<br>family | \$6,000/participant<br>\$9,000/participant +<br>spouse<br>\$9,000/participant +<br>child(ren)<br>\$12,000/participant +<br>family |
| Co-Insurance  | 10% after deductible   | 30% after deductible   | 15% after deductible   | 30% after deductible  |
| Preventive Care   | \$0%; no deductible  | 30% after deductible   | \$0%; no deductible  | 30% after deductible  |
| Prescription<br>Coverage  | 10% after d  | eductible  | 15% after deductible   |   |
| 2023 Full-Time<br>Employee Monthly<br>Cost  | participant only<br>participant+spouse/dom<br>participant + child(ren)<br>participant + family   | \$37.47<br>estic partner \$133.32<br>\$99.26<br>\$195.75   | participant only \$97.52<br>participant + spouse: \$277.08<br>participant + child(ren) \$213.73<br>participant + family \$393.28 |   |

January 1, 2023 – December 31, 2023

| ganuary 1, 2025 Dece  | HRA Plan                         |   |  |  |  |  |
|---|----------------------------------|---|--|--|--|--|
|   |                                  | Participant Only                              | Participant + Spouse or<br>Participant +<br>Child(ren) | Participant +<br>Family                        |  |  |
| Health  |                                  | \$1,000                                       | \$1,500  | \$2,000  |  |  |
| Reimbursement   | AEP Annual                       |   |  |  |  |  |
| Account (HRA)   | Allocation                       |   |  |  |  |  |
| Traditional Health  | Annual                           | \$1,500                                       | \$2,250  | \$3,000  |  |  |
| Coverage  | Deductible                       |   |  |  |  |  |
| (Prescription   | (includes medical,               |   |  |  |  |  |
| coverage same as any  | prescription drug                |   |  |  |  |  |
| other medical   | and behavioral                   |   |  |  |  |  |
| expense)  | health)                          |   |  |  |  |  |
|   | Then, employee                   |   |  |  |  |  |
|   | pays coinsurance                 | 15% for in-network providers                  |  |  |  |  |
|   | for covered                      | 309   | % for out-of-network provid                            | ers  |  |  |
|   | services                         |   |  |  |  |  |
|   | Annual Out-of-<br>Pocket Maximum | \$4,000 if innetwork \$6,500 if out-ofnetwork | \$6,000 if in-network<br>\$9,750 if out-of-network     | \$8,000 if innetwork \$13,000 if outof-network |  |  |
| Annual Preventive (not applied to Company's HRA allocation)  2023 Full-Time Employee Monthly Cost |                                  | only + spouse/domestic par + child(ren)       | rtner  |  |  |  |

#### **Live Health Online**

Live Health Online provides employees and their eligible dependents with 24/7/365 access to US board-certified physicians by online video. Live Health Online can diagnose, recommend treatment and prescribe medication when appropriate, including sinus problem, bronchitis, allergies, poison ivy, cold and flu symptoms, urinary tract infection, respiratory infection and more. The cost to participants for each physician consultation is \$59, \$80 for behavioral health therapist, \$95 for psychologist, and \$150 for psychiatrist initial consultation and \$75 for follow up consultations. This program is available to participants enrolled in an AEP health plan.

#### **Wellness Program**

Healthy living habits are an essential ingredient for healthy employees. For that reason, AEP sponsors a number of programs, including incentives, and initiatives designed to help employees achieve and maintain a healthy lifestyle. All active employees (regardless of whether they are enrolled in a medical plan) are eligible to participate in the following wellness programs along with spouses and domestic partners of active employees who are covered under an AEP medical plan. Rewards are offered for annual well check, dental exams, eye exam or skin cancer screening, and financial wellbeing coaching calls, diabetes prevention program, and healthy living challenges during the year.

#### **January 1, 2023 – December 31, 2023**

#### **GROUP DENTAL**

**DPPO** option

| Coverage Level          | Participant Only  | Participant +   | Participant +   | Participant + |  |  |
|-------------------------|---|-----------------|-----------------|---------------|--|--|
|                         |   | Spouse          | Child(ren)      | Family        |  |  |
| <b>Deductible (does</b> | \$50/individual   | \$50/individual | \$50/individual | \$150/Family  |  |  |
| not apply to            |   |                 | \$150/family    |               |  |  |
| preventive service)     |   |                 |                 |               |  |  |
| <b>Annual Maximum</b>   | sim \$1,750 per covered person                            |                 |                 |               |  |  |
| Coinsurance             | Coinsurance   |                 |                 |               |  |  |
| Preventive              | 100%  |                 |                 |               |  |  |
| <b>Basic Services</b>   | 80% after deductible                                      |                 |                 |               |  |  |
| <b>Major Services</b>   | 50% after deductible                                      |                 |                 |               |  |  |
| Orthodontia             | 50% up to a lifetime maximum of \$1,750 per covered child |                 |                 |               |  |  |

#### **DMO Option**

A DMO option is available to employees who live within the same zip code area as a network DMO dentist. Similar to a medical Health Maintenance Organization (HMO), the DMO provides dental service through a group of network dentist. The DMO offers no deductibles or annual maximum, no co-pay for covered preventive services and low, fixed co-pays on other dental services.

The pre-tax monthly costs to active part-time employees are two and one-half times the monthly costs to active full-time employees. The monthly costs to certain grandfathered retirees and surviving dependents are the same as active employees. The monthly cost to most other retirees and eligible surviving dependents are 100% of the total cost of coverage.

| Employee Monthly Contribution | Employee Only | Employee + Spouse | Employee + Child(ren) | Employee + Family |
|-------------------------------|---------------|-------------------|-----------------------|-------------------|
| DPPO Plan                     | \$12.46       | \$26.75           | \$39.00               | \$53.28           |
| DMO Plan                      | \$8.84        | \$18.78           | \$21.26               | \$31.21           |

#### **VISION PLAN**

AEP offers comprehensive employee paid vision coverage for eye care and vision correction. AEP's Comprehensive Vision Plan provides coverage through the Fidelity Security Life Insurance Company for eye exams, contacts (including disposable contacts) and eyeglass lenses and frames. It also offers discounts on special features, such as scratch-resistant lenses, laser eye surgery and more. Vision care discounts are also available through the Anthem medical plans.

Vision plan participants can take advantage of the discounted retinal-imaging exam option; in addition, members who have Type 1 or Type 2 diabetes are eligible for a follow-up exam and additional testing two times per benefit year.

Benefits are provided through EyeMed Vision Care's Access national network of private practice optometrists, ophthalmologists, opticians and retailers, such as Sears Optical, Target Optical, most Pearle Vision locations and LensCrafters.

| - 1         |                       |               |                   |                       |                   |
|-------------|-----------------------|---------------|-------------------|-----------------------|-------------------|
|             | Employee Contribution | Employee Only | Employee + Spouse | Employee + Child(ren) | Employee + Family |
| Employee Co | Employee Contribution | \$ 6.82/mth   | \$12.93/mth       | \$13.61/mth           | \$20.41/mth       |

#### Employee\_ER Contributions

Year 2023

| Year                                       | 2023           |                     |                   |                     |  |
|--|----------------|---------------------|-------------------|---------------------|--|
| Full Plan Monthly Rates - Active Employees |                |                     |                   |                     |  |
| EE +                                       |                |                     |                   |                     |  |
| 2023                                       | Single         | EE + Sp             | Child(ren)        | Family              |  |
| HRA  | \$702.77       | \$1,633.83          | \$1,352.90        | \$2,283.97          |  |
| HSAPlus                                    | \$631.25       | \$1,467.56          | \$1,215.22        | \$2,051.53          |  |
| HSABasic                                   | \$568.80       | \$1,322.37          | \$1,094.99        | \$1 <b>,</b> 848.56 |  |
| Hawaii                                     | \$638.59       | \$1,484.63          | \$1,229.35        | \$2,075.39          |  |
| Dental PPO                                 | \$31.15        | \$62.90             | \$90.12           | \$121.87            |  |
| Dental DMO                                 | \$22.09        | \$44.19             | \$49.70           | <i>\$7</i> 1.80     |  |
|  | Con            | tribution Rate      | s                 |                     |  |
| <b>Employee Cont</b>                       | tributions     |                     |                   |                     |  |
| Full-time Active                           | e Employee Sh  | are                 |                   |                     |  |
|  |                |                     | EE +              |                     |  |
|  | Single         | EE + Sp             | Child(ren)        | Family              |  |
| HRA  | \$166.09       | \$439.49            | \$343.05          | \$616.44            |  |
| HSAPlus                                    | \$97.52        | \$277.08            | \$213.73          | \$393.28            |  |
| HSABasic                                   | \$37.47        | \$133.32            | \$99.26           | \$195.75            |  |
| Hawaii                                     | \$142.00       | \$372.18            | \$290.97          | \$521.15            |  |
| Dental PPO                                 | \$12.46        | \$26.75             | \$39.00           | \$53.28             |  |
| Dental DMO                                 | \$8.84         | \$18.78             | \$21.26           | \$31.21             |  |
| Vision                                     | \$6.82         | \$12.93             | \$13.61           | \$20.41             |  |
| Part-time Activ                            | e Employee Sh  | are                 |                   |                     |  |
|  |                |                     | EE +              |                     |  |
|  | Single         | EE + Sp             | Child(ren)        | Family              |  |
| HRA  | \$415.23       | \$1,098. <i>7</i> 2 | \$8 <i>57</i> .62 | \$1,541.11          |  |
| HSAPlus                                    | \$243.80       | \$692.69            | \$534.32          | \$983.21            |  |
| HSABasic                                   | \$93.68        | \$333.29            | \$248.14          | \$489.38            |  |
| Hawaii                                     | NA             | NA                  | NA                | NA                  |  |
| Dental PPO                                 | \$31.15        | \$62.90             | \$90.12           | \$121.87            |  |
| Dental DMO                                 | \$22.09        | \$44.19             | \$49.70           | \$ <i>7</i> 1.80    |  |
| Vision                                     | \$6.82         | \$12.93             | \$13.61           | \$20.41             |  |
| Full-time Activ                            | e Employer Sul | bsidy               |                   |                     |  |
|  |                |                     | EE +              |                     |  |
|  | Single         | EE + Sp             | Child(ren)        | Family              |  |
| HRA  | \$536.68       | \$1,194.34          | \$1,009.85        | <b>\$1,667.5</b> 3  |  |
| HSAPlus                                    | \$533.73       | \$1,190.48          | \$1,001.49        | \$1,658.25          |  |
| HSABasic                                   | \$531.33       | \$1,189.05          | <b>\$</b> 995.73  | \$1,652.81          |  |
| Hawaii                                     | \$496.59       | \$1,112.45          | \$938.38          | \$1,554.24          |  |
| Dental PPO                                 | \$18.69        | \$36.15             | \$51.12           | \$68.59             |  |
| Dental DMO                                 | \$13.25        | \$25.41             | \$28.44           | \$40.59             |  |
|  |                |                     |                   |                     |  |

| Public Ex | hibit Al | R | C-10 | ۰ |
|-----------|----------|---|------|---|
|           | Page     | 1 | of 1 | ĺ |

Public Exhibit ARC-10 has been redacted in its entirety.

| Public Ext | nibit A | R | C-11 |
|------------|---------|---|------|
|            | Page    | 1 | of 1 |

Public Exhibit ARC-11 has been redacted in its entirety.

#### COMMONWEALTH OF KENTUCKY

#### BEFORE THE PUBLIC SERVICE COMMISSION

#### In the Matter of:

| Electronic Application Of Kentucky Power Company      | ) |                     |
|---|---|---------------------|
| For (1) A General Adjustment Of Its Rates For         | ) |                     |
| Electric Service; (2) Approval Of Tariffs And Riders; | ) |                     |
| (3) Approval Of Accounting Practices To Establish     | ) | Case No. 2023-00159 |
| Regulatory Assets And Liabilities; (4) A              | ) |                     |
| Securitization Financing Order; And (5) All Other     | ) |                     |
| Required Approvals And Relief                         | ) |                     |

#### **DIRECT TESTIMONY OF**

#### KAMRAN ALI

ON BEHALF OF KENTUCKY POWER COMPANY

# DIRECT TESTIMONY OF KAMRAN ALI ON BEHALF OF KENTUCKY POWER COMPANY BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY

#### **CASE NO. 2023-00159**

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#### **EXHIBITS**

Exhibit KA-1 Transmission Project Guidelines

Exhibit KA-2 PJM M-3 Slides

## DIRECT TESTIMONY OF KAMRAN ALI ON BEHALF OF KENTUCKY POWER COMPANY BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY

#### CASE NO. 2023-00159

#### I. INTRODUCTION

- 1 Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
- 2 A. My name is Kamran Ali. My business address is 8500 Smiths Mill Road, New Albany,
- 3 Ohio 43054.

#### II. BACKGROUND

- 4 Q. PLEASE DESCRIBE YOUR EDUCATIONAL AND PROFESSIONAL
- 5 **BACKGROUND.**
- 6 A. I received a Bachelor of Science Electrical Engineering degree from the University
- 7 of Alabama in Tuscaloosa, Alabama and a Master of Science –Electrical Engineering
- 8 degree from Kansas State University in Manhattan, Kansas. I also received a Master of
- 9 Business Administration degree from Ohio University in Athens, Ohio. I was employed
- by SMC Electrical in 2004 as an electrical engineer. In 2006, I joined AEP as a
- Substation Engineer. In 2007, I transferred to Transmission Planning, where I advanced
- through increasing levels of responsibility. In December 2018, I assumed the position
- of Managing Director, Transmission Planning, which includes organizing and
- managing all activities related to assessing the adequacy of AEP's transmission network
- to meet the needs of its customers in a reliable, cost effective, and environmentally

| 1  |    | compatible manner. In 2021, I was promoted to Vice President of Transmission             |
|----|----|--|
| 2  |    | Planning and Analysis.   |
| 3  | Q. | BY WHOM ARE YOU EMPLOYED AND WHAT IS YOUR POSITION?                                      |
| 4  | A. | I am an employee of American Electric Power Service Corporation ("AEPSC") as Vice        |
| 5  |    | President of Transmission Planning and Analysis. AEPSC supplies engineering,             |
| 6  |    | financing, accounting, planning, advisory, and other services to the subsidiaries of the |
| 7  |    | American Electric Power ("AEP") system, one of which is Kentucky Power Company           |
| 8  |    | ("Kentucky Power" or the "Company").   |
| 9  | Q. | WHAT ARE YOUR RESPONSIBILITIES AS VICE PRESIDENT OF                                      |
| 10 |    | TRANSMISSION PLANNING AND ANALYSIS?  |
| 11 | A. | The Transmission Planning and Analysis organization assesses the adequacy of the         |
| 12 |    | transmission grid and recommends capital projects and mitigation plans in coordination   |
| 13 |    | with Regional Transmission Organizations ("RTOs") and other stakeholders for the         |
| 14 |    | benefit of the customers of Kentucky Power and the other utilities in the AEP System.    |
| 15 |    | As the Vice President of Transmission Planning and Analysis, I organize and              |
| 16 |    | manage all activities related to assessing the adequacy of AEP's transmission network    |
| 17 |    | to meet the needs of its customers in a reliable, cost effective, and environmentally    |
| 18 |    | compatible manner of our over 40,000 circuit miles of transmission lines across 13       |
| 19 |    | states and four RTOs.  |
| 20 | Q. | HAVE YOU PREVIOUSLY TESTIFIED BEFORE ANY REGULATORY                                      |
| 21 |    | COMMISSIONS?   |
| 22 | A. | Yes. I have testified before this Commission, the Indiana Utility Regulatory             |
| 23 |    | Commission, the Michigan Public Service Commission, the Maryland Public Service          |

| 1  |    | Commission, and the Pennsylvania Public Utility Commission on behalf of various         |
|----|----|---|
| 2  |    | AEP electric operating companies.   |
|    |    | III. PURPOSE OF TESTIMONY   |
| 3  | Q. | WHAT IS THE PURPOSE OF YOUR TESTIMONY?  |
| 4  | A. | The purpose of my testimony is to describe the transmission system that is necessary    |
| 5  |    | for Kentucky Power to provide retail service to its customers, and to provide a factual |
| 6  |    | background for the costs incurred by Kentucky Power pursuant to wholesale               |
| 7  |    | transmission rates approved by the Federal Energy Regulatory Commission                 |
| 8  |    | ("FERC") under the PJM Open Access Transmission Tariff ("PJM OATT").                    |
| 9  | Q. | ARE YOU SPONSORING ANY EXHIBITS OR SCHEDULES?   |
| 10 | A. | Yes, I am sponsoring the following Exhibits:  |
| 11 |    | • Exhibit KA-1 Transmission Project Guidelines  |
| 12 |    | • Exhibit KA-2 PJM M-3 Slides   |
|    |    | IV. KENTUCKY POWER'S TRANSMISSION SYSTEM  |
| 13 | Q. | PLEASE DESCRIBE KENTUCKY POWER'S TRANSMISSION SYSTEM.                                   |
| 14 | A. | Kentucky Power's transmission system is a highly networked grid that delivers           |
| 15 |    | electricity from generation sources to retail and wholesale consumers Kentucky Power    |
| 16 |    | serves.   |
| 17 |    | There are approximately 1,263 circuit miles of transmission lines in the                |
| 18 |    | Kentucky Power system, connecting current Kentucky Power generation sources from        |
| 19 |    | within and outside the Company's service territory.                                     |

| 1  |    | The voltage levels of Kentucky Power's transmission system range from 34.5              |
|----|----|---|
| 2  |    | kV to 765 kV and can be divided into three categories based on voltage level: extra     |
| 3  |    | high voltage (EHV) (above 200 kV), transmission (100 kV to 200 kV), and                 |
| 4  |    | subtransmission (34.5 kV to 100 kV). Finally, Kentucky Power transmission system        |
| 5  |    | includes approximately 58 transmission substations.                                     |
| 6  | Q. | PLEASE EXPLAIN HOW KENTUCKY POWER'S TRANSMISSION SYSTEM                                 |
| 7  |    | IS INTERCONNECTED WITH THE TRANSMISSION SYSTEM OF OTHER                                 |
| 8  |    | ELECTRIC UTILITIES.   |
| 9  | A. | The Kentucky Power transmission system is part of the PJM RTO and is interconnected     |
| 10 |    | with the AEP Transmission System and the AEP Zone in PJM, as well as with Eastern       |
| 11 |    | Kentucky Power Company ("EKPC"). Kentucky Power's transmission system is also           |
| 12 |    | interconnected with Kentucky Utilities, various rural electric cooperatives, and        |
| 13 |    | municipal electric utilities, which are not members of PJM.                             |
| 14 | Q. | PLEASE DESCRIBE THE OVERALL CONDITION OF KENTUCKY                                       |
| 15 |    | POWER'S TRANSMISSION PLANT.   |
| 16 | A. | The Company's transmission facilities are built and maintained in accordance with       |
| 17 |    | AEP standards that are based on industry regulations and Good Utility Practices. 1 Like |
| 18 |    | other members of our industry, the Company is addressing the challenges of aging        |

FERC has defined "Good Utility Practice" in Section 1.14 of the pro forma Open Access Transmission Tariff in Order 888 as: "Any of the practices, methods and acts engaged in or approved by a significant portion of the electric utility industry during the relevant time period, or any of the practices, methods and acts which, in the exercise of reasonable judgment in light of the facts known at the time the decision was made, could have been expected to accomplish the desired result at a reasonable cost consistent with good business practices, reliability, safety and expedition. Good Utility Practice is not intended to be limited to the optimum practice, method, or act to the exclusion of all others, but rather to be acceptable practices, methods, or acts generally accepted in the region."

infrastructure along with the need to modernize transmission facilities, comply with regulations, and adapt to a changing generation portfolio.

A.

Specifically, The AEP transmission system, of which Kentucky Power's system is an integrated part, has evolved over the last century. In the recent past, the majority of transmission investment has been directed towards constructing facilities to address RTO-identified constraints due to a shift in generation portfolio. In addition, some investment has focused on connecting new demand while maintaining compliance with changing federal and regional reliability standards.

More recently, investment has been refocused to address aging grid infrastructure and resilience, to maintain and improve reliability, and to protect the grid from physical and cyber threats. Finally, Kentucky Power expects that the transmission system will continue to evolve and change through technological advancements such as the adoption of electric vehicles, integration of renewable resources, energy storage, changes in generation from an increasing number of fuel sources, and the implementation of new customer programs, just to name a few.

## Q. IS KENTUCKY POWER'S TRANSMISSION SYSTEM CURRENTLY ADEQUATE TO SERVE ITS CUSTOMERS' LOAD RELIABLY?

Yes. Kentucky Power's transmission system is compliant with all federal and regional reliability standards. Kentucky Power will continue to invest appropriately in its transmission assets to provide reliable electric service to its customers. To that end, the Company needs to continue to invest in the needs across its system, primarily to address aging infrastructure and to ensure adequate capacity is available to serve the Kentucky Power customers.

| 1  | Q. | PLEASE PROVIDE AN OVERVIEW OF THE CURRENT TRANSMISSION                                     |
|----|----|--|
| 2  |    | INVESTMENT PRACTICES FOR KENTUCKY POWER.   |
| 3  | A. | Consistent with the Commission's January 13, 2020, Order in Case No. 2020-00174            |
| 4  |    | Kentucky Power no longer involves AEP Kentucky Transmission Company                        |
| 5  |    | ("Kentucky Transco") in upgrades required to be made to Kentucky Power's                   |
| 6  |    | transmission network. In recent years Kentucky Power has continued to invest in its        |
| 7  |    | transmission system in order to provide service to its customers.                          |
| 8  |    | Presently, there are no new transmission projects contemplated to be                       |
| 9  |    | undertaken by Kentucky Transco involving Kentucky Power's transmission assets.             |
| 10 | Q. | ARE KENTUCKY POWER'S TRANSMISSION ASSETS AGING?  |
| 11 | A. | Yes. Kentucky Power's transmission assets are aging. At present, Kentucky Power's          |
| 12 |    | average conductor age is roughly 51.1 years of service. Additionally, over 358 line-       |
| 13 |    | miles are 60 years of age or older, and of these line miles, over 274 are over 70 years    |
| 14 |    | old. The anticipated average useful life of conductor is 70 years; therefore, there will   |
| 15 |    | be a need to replace these assets at some point before their inevitable degradation starts |
| 16 |    | impacting the reliability of the system.   |
| 17 | Q. | HOW ARE KENTUCKY POWER AND AEP ADDRESSING THE ISSUE OF                                     |
| 18 |    | AGING TRANSMISSION INFRASTRUCTURE?   |
| 19 | A. | Planning and operation of the transmission system are integrated through the coordinated   |
| 20 |    | efforts of PJM and AEP's transmission personnel ("AEP Transmission"). Although             |
| 21 |    | asset age is an important consideration, Kentucky Power and AEP Transmission               |
| 22 |    | develop transmission projects based on a number of factors, including the performance      |

and condition of each asset, as well as the risk that the failure of each asset poses to the system and connected customers.

Q.

A.

As the Kentucky Power infrastructure continues to age, the associated risk for any given asset increases. Kentucky Power and AEP Transmission are implementing solutions to address these needs on the system. As I will further discuss below, Kentucky Power and AEP Transmission are actively involved in transmission projects internally and through the open transmission planning process at PJM with stakeholder input and FERC oversight.

# HOW ARE KENTUCKY POWER AND AEP ADDRESSING THE ISSUE OF ENSURING ADEQUATE GENERATION CAPACITY IS AVAILABLE TO SERVE THE COMPANY'S CUSTOMERS FROM A TRANSMISSION PERSPECTIVE?

I am informed by Company Witness West that Kentucky Power is a net importer of energy and capacity as its customer load is greater than the capacity and energy available from its own generation resources. Additionally, with the reduction of available energy and capacity due to Kentucky Power's interest in the Mitchell Generation facility terminating in 2028, the Company will further rely on its transmission infrastructure to supply safe and reliable generation to its customers, primarily from generation resources outside of Kentucky Power's own service territory. Kentucky Power is making investments to expand and harden its transmission system to ensure it can safely and reliably import the energy and capacity it requires to service its customers.

#### V. PJM INTERCONNECTION

#### Q. WHAT IS PJM?

A.

A. FERC Order 2000 introduced the concept of an RTO or Independent System Operator

("ISO") whose purpose is to promote the regional administration of high voltage

transmission networks and ensure non-discriminatory access to transmission systems.

PJM Interconnection is a FERC-approved RTO that coordinates and administers the movement of wholesale electricity in all or parts of thirteen states and the District of Columbia. The Commission approved Kentucky Power's transfer of functional operation of its transmission facilities to PJM by its Order dated May 19, 2004, in Case No. 2002-00475.

The AEP System–East Zone ("AEP Zone"), which includes Kentucky Power, integrated its operations with PJM and began participating in the PJM energy market on October 1, 2004. Kentucky Power's membership in PJM has allowed Kentucky Power's customers to benefit from the independent, regionally operated, and jointly planned and coordinated PJM transmission grid. This grid enhances system reliability and security, competitive wholesale markets, and resource diversity.

## Q. HOW DO PJM AND AEP COORDINATE PLANNING AND OPERATION OF KENTUCKY POWER'S TRANSMISSION SYSTEM?

Kentucky Power's transmission system is part of the AEP eastern transmission system, which consists of the transmission facilities of eleven AEP operating or transmission companies including Kentucky Power. This expansive system allows the economical and reliable delivery of electric power for all AEP customers, including Kentucky Power's customers.

As noted above, Kentucky Power's management collaborates with the AEP Transmission team to ensure that the transmission planning and operation requirements of Kentucky Power are met reliably, effectively, and efficiently.

Kentucky Power is fully involved in the transmission planning process for facilities in its service territory. This involvement focuses, among other areas, in ensuring that Kentucky Power's planned investments in its transmission facilities are reasonable and beneficial for Kentucky Power's customers. Kentucky Power has ultimate authority over the approval of planned investments in its transmission system.

At an AEP Transmission System level in PJM (i.e., comprising not only Kentucky Power's transmission facilities, but also those of its affiliates in the PJM AEP Zone) the transmission planning process is a collaborative process involving AEP Transmission and its stakeholders, including Kentucky Power. Kentucky Power, conducted within the context of PJM's broader transmission planning, which is regulated by FERC. While Kentucky Power has no control over either the needs, nor the operational and long-term capital expenditure decisions of other AEP affiliates, the AEP Transmission team works together with each operating company in the PJM AEP Zone to identify needed investments on their transmission systems and optimize capital expenditures.

Kentucky Power prioritizes investments based on the urgency of the need, the impact on customers, and cost, among other factors. Kentucky Power specifically approves transmission investments pursuant to internal procedures and controls. In this way, Kentucky Power makes sure that planned transmission investments will address its customers' needs, in terms of both maintaining reliable service and meeting the

needs of expected new load. While Kentucky Power maintains a long-term view of its transmission capital investments, under particular circumstances it may be required to address immediate and pressing need over a shorter planning period. The level of Kentucky Power's transmission investment is affected by a wide variety of factors, including the size, age, type and location of its transmission grid, but ultimately it is driven by the operational and reliability requirements of its transmission grid, and limited by the amount of capital Kentucky Power can invest, given its financial metrics and access to capital over any given period. Kentucky Power aims to balance maximizing the use of its existing facilities, taking advantage of opportunities for efficiency, and making timely investments in its transmission system as needs arise (some anticipated several years in advance, others identified more recently), to the benefit of its customers.

AEP Transmission, on behalf of Kentucky Power and its other affiliates, works closely with neighboring utilities, other interconnected entities, and PJM to plan and operate the transmission grid. RTOs align the transmission planning and operating requirements set out in each RTO's protocols and operating criteria, as further defined through North American Electric Reliability Corporation ("NERC") requirements. This broader level of coordination is regionally beneficial to customers across PJM, supporting the availability of resources across the PJM footprint, facilitating market efficiency, increasing reliability, providing flexibility, resilience, and reliability, and increasing the ability of all entities serving end-use customers in PJM (such as Kentucky power's retail customers) to adapt to changing market conditions and benefit from a more efficient use of resources regionally in a wide variety of circumstances

and under a wide variety of constraints. Access to this transmission system also protects Kentucky Power's customers from increased volatility in energy costs related to variances in weather, disruption to resource or supply chains, and changes in environmental requirements, among very many other factors.

#### VI. <u>TEST YEAR TRANSMISSION OATT EXPENSES</u>

## 5 Q. WHAT ARE THE COMPANY'S TRANSMISSION OATT EXPENSES 6 INCLUDED IN THE COMPANY'S COST OF SERVICE?

A. As provided by Company Witness Walsh, PJM Network Integration Transmission

Service ("NITS") charges the included in Company's cost of service are \$128.2

million. In addition, the Company included \$8.1 million in non-NITS² costs in its cost

of service.

### 11 Q. WHAT IS DRIVING THE INCREASE IN TRANSMISSION OATT EXPENSES 12 FOR KENTUCKY POWER?

The increase in transmission OATT expenses is being driven by investment in transmission infrastructure throughout the AEP Zone. In recent history, transmission investment was focused on system needs arising from retirement of generation due to environmental regulations.

As previously described, the transmission system currently requires substantial investment to address aging infrastructure, cyber and physical security threats, and modernization of protection and control equipment. This requires infrastructure improvements occurring both within Kentucky Power's service territory and the

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A.

Non-NITS charges are comprised of Transmission Enhancement Charges and PJM administration fees.

| 1  |    | remainder of the AEP Zone. The costs associated with these investments are billed to     |
|----|----|--|
| 2  |    | the AEP Zone and charged to Kentucky Power through the monthly PJM bill and the          |
| 3  |    | AEP Transmission Agreement. Company Witness Burkholder discusses the PJM                 |
| 4  |    | billing process and the AEP Transmission Agreement further in his testimony.             |
| 5  | Q. | ARE PROJECTS WITHIN THE AEP ZONE THE ONLY PROJECT TYPE                                   |
| 6  |    | CONTRIBUTING TO TRANSMISSION CHARGES FROM PJM?   |
| 7  | A. | No. Transmission projects that solely benefit the AEP Zone are fully allocated to all    |
| 8  |    | LSEs in the AEP Zone, including Kentucky Power, and these costs are included in          |
| 9  |    | NITS charges. As previously discussed above, the cost of baseline transmission           |
| 10 |    | projects that benefit more than one PJM zone are shared over the larger PJM footprin     |
| 11 |    | as determined by PJM. As a result, Kentucky Power may incur costs from multi-zona        |
| 12 |    | projects, which are included in non-NITS charges.  |
| 13 | Q. | IS THE NEED FOR TRANSMISSION INFRASTRUCTURE INVESTMENT                                   |
| 14 |    | UNIQUE TO KENTUCKY POWER, AEP, OR PJM?   |
| 15 | A. | No. Industry wide, utilities are investing in the transmission system to meet the above- |
| 16 |    | described needs. Nationally, transmission investment has increased over the past 10      |
| 17 |    | years. The Company expects robust levels of investment will continue.                    |
| 18 | Q. | ARE TRANSMISSION OATT EXPENSES NECESSARY?  |
| 19 | A. | Yes. As explained more in detail by Company Witness Burkholder, transmission             |
| 20 |    | OATT expenses are subject to FERC's oversight, and are charged pursuant to rates or      |
| 21 |    | file with FERC and are calculated using a methodology that FERC has determined to        |
| 22 |    | result in just and reasonable rates.   |

At a more practical level, these costs are a necessary to maintain the reliability
of the transmission grid and ensure open and fair access by all users of the transmission
system.

#### VII. TRANSMISSION PLANNING

## Q. PLEASE DESCRIBE THE PJM REGIONAL TRANSMISSION EXPANSION PLAN ("RTEP") PROCESS.

A.

The PJM RTEP process is a 24-month planning process that identifies reliability issues over a 15-year horizon. The 24-month planning process consists of overlapping 18-month planning cycles to identify and develop shorter lead-time transmission upgrades and one 24-month planning cycle to provide sufficient time for the identification and development of longer lead-time transmission upgrades that may be required to satisfy planning criteria.

AEP Transmission participates on Kentucky Power's behalf in the PJM planning process, which is guided by NERC reliability standards, PJM planning procedures and AEP planning criteria. The process results in three different categories of projects: Baseline Upgrades, Network Upgrades and Supplemental Upgrades (also called "Owner Projects"). Each category is described below.

The first project category is Baseline Upgrades. Using the aforementioned planning criteria and procedures, PJM and Kentucky Power, in conjunction with AEP Transmission, identify needs that are a result of a criteria violation. Baseline projects include transmission expansions or enhancements that are required to achieve compliance with respect to PJM's system reliability, operational performance, or

| 1 | market efficiency requirements as determined by PJM's Office of the Interconnection    |  |
|---|--|--|
| 2 | as well as projects that are needed to meet Transmission Owners' local transmission    |  |
| 3 | planning criteria. The cost of Baseline Upgrades are allocated to the benefiting zones |  |
| 4 | based on the following mechanisms:   |  |
| 5 | 345 kV single-circuit or lower voltage facilities are cost allocated based             |  |
| 6 | on solution-based distribution factors ("DFAX").                                       |  |

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- on solution-based distribution factors ("DFAX").
- The costs of a 345 kV double-circuit or higher voltage facilities are allocated as follows:
  - 50% of project costs are allocated to all PJM zones based on load 0 ratio share (the AEP Zone load share percentage for January to December 2020 is 14.18%).
  - 50% of project costs are allocated on DFAX basis. o
- For market efficiency projects, Net Load Payment savings is used instead of DFAX to determine cost allocation. Net Load Payment savings is the net present value sum of energy and capacity market benefits for all benefiting transmission zones.

The second project category is Network Upgrades. These transmission projects result from transmission customer requests for generator interconnection, merchant transmission additions, and long-term transmission service. Customers that cause the need for Network Upgrades are responsible for the costs that are incurred. As an example, if a generator requested to connect to a transmission line and an upgrade was required to connect the generator, the generator would pay for the network upgrade.

| 1  |    | The third project category is Owner Projects. These projects are needed for            |
|----|----|--|
| 2  |    | many reasons, including regulatory requirements, modernization and hardening of the    |
| 3  |    | grid, replacement of failed equipment, proactive replacement of deteriorating assets   |
| 4  |    | prior to failure and improved operational efficiency and performance. The costs of     |
| 5  |    | Owner Projects are allocated to the transmission zone in which they are built.         |
| 6  | Q. | DO KENTUCKY POWER AND OTHER TRANSMISSION OWNERS IN THE                                 |
| 7  |    | AEP ZONE FOLLOW SPECIFIC GUIDELINES TO DETERMINE THE                                   |
| 8  |    | NECESSITY OF OWNER PROJECTS?   |
| 9  | A. | Yes. All AEP affiliated transmission owners follow an established and detailed         |
| 10 |    | protocol (presented as Exhibit KA-1 and referred to herein as "the Guidelines") to     |
| 11 |    | evaluate and select Owner Projects that assures only projects that are needed in each  |
| 12 |    | transmission owner's service territory are pursued.                                    |
| 13 |    | The Guidelines discuss the drivers or inputs that should be considered when            |
| 14 |    | evaluating transmission system needs. They ensure that all AEP affiliated transmission |
| 15 |    | owners are applying consistent criteria in evaluations, while each Transmission Owner  |
| 16 |    | ultimately determines the mix of Owner Projects needed to maintain the reliability of  |
| 17 |    | their transmission grid within the AEP Zone.   |
| 18 | Q. | WHAT DRIVERS OR INPUTS DOES KENTUCKY POWER CONSIDER IN                                 |
| 19 |    | IDENTIFYING OWNER PROJECTS?  |
| 20 | A. | Consistent with the Guidelines, the drivers considered in identifying Owner Projects   |
| 21 |    | include:   |
| 22 |    | • Equipment Condition, Performance and Risk: These are investments made to             |

ensure the safe and reliable operation of the transmission system. The decision

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to pursue such projects can be based on equipment performance, obsolescence and expected life concerns, equipment condition, reliability impact, maintenance costs, environmental impact and engineering recommendations.

- Operational Flexibility and Efficiency: These projects can optimize system
  configuration, lower equipment duty cycles, reduce the impact on and limit the
  exposure to customers for planned or forced outages and can facilitate improved
  restoration times. They also provide opportunities to bring the system up to
  current standards and design principles.
  - Infrastructure Resilience: These projects can improve system ability to anticipate, absorb, adapt to and/or rapidly recover from disruptive natural or man-made events including severe weather, geo-magnetic disturbances and physical and cyber security challenges.
  - Customer Service: These projects accommodate new, increasing or future load so that the system can reliably address customer needs.
- Other Drivers: Examples include industry recommendations, changes in established standards, state policy objectives, etc.

#### Q. ARE THESE DRIVERS UNDER KENTUCKY POWER'S CONTROL?

A. No. Although Kentucky Power commits significant resources to reduce safety risks, maintain transmission assets consistent with industry practices, and plan capital investment to increase reliability performance, many of the drivers of Owner Projects are outside of Kentucky Power's control and include regulatory requirements, interconnection requests, asset performance, and the need for modernization of protection and control systems.

| Transmission Owners also do not have discretion to decline to make reasonable          |
|--|
| and necessary investments in the transmission grid. Rather these investments must be   |
| made to fulfill Kentucky Power's obligation to operate pursuant to Good Utility        |
| Practice and to serve customers. Each Transmission Owner in the AEP Zone, including    |
| Kentucky Power affiliates, has an obligation to ensure capital investments are prudent |
| and necessary to maintain a reliable transmission grid.                                |

A.

# Q. IS THE DESIGNATION OF A PROJECT AS A BASELINE OR OWNER PROJECT INDICATIVE OF WHETHER THE PROJECT IS NECESSARY, OR HOW NECESSARY IT IS?

No, it is not. The designation of a project as a Baseline or Owner Project is not indicative of the level of, or absence of, need for the project. Instead, the designations simply reflect that the project addresses different system reliability and resilience needs.

The criteria for designation as an Owner or Baseline Project are not mutually exclusive, and a single project can be needed under either or both. Under the existing PJM RTO framework, Transmission Owners retain planning responsibility for managing the maintenance and replacement of their transmission assets and planning of their local transmission systems.

PJM planning criteria address the expansion and enhancement of transmission facilities required to meet national and regional planning criteria. Owner Projects improve or preserve a PJM Transmission Owner's ability to provide reliable service to its customers, consistent with its obligation to serve, and are grounded in Good Utility Practice.

|    |    | ALI - 18  |
|----|----|---|
| 1  | Q. | DOES PJM FACTOR THE AGE OR CONDITION OF EQUIPMENT INTO ITS                              |
| 2  |    | FORWARD-LOOKING MODELS FOR SYSTEM RELIABILITY THAT ARE                                  |
| 3  |    | USED TO IDENTIFY BASELINE PROJECTS?   |
| 4  | A. | No, it does not. The forward-looking models that PJM and Transmission Owners            |
| 5  |    | employ to identify Baseline Projects assume the modeled system will perform as          |
| 6  |    | designed without regard to the age or actual condition of all the elements of the       |
| 7  |    | transmission system.  |
| 8  |    | This means that for modeling purposes, a substation with 75-year-old                    |
| 9  |    | components that are deteriorating is assumed to function as designed and with the same  |
| 10 |    | reliability as a five-year-old substation with newer components.                        |
| 11 | Q. | WHAT IS PJM'S ROLE IN REVIEWING OWNER PROJECTS?   |
| 12 | A. | All projects affecting the topology of the grid, whether PJM identified or Transmission |
| 13 |    | Owner identified, are subject to the stakeholder process within PJM. While PJM does     |
| 14 |    | not formally "approve" Owner Projects, these projects are submitted to PJM and          |
| 15 |    | reviewed with the Transmission Expansion Advisory Committee ("TEAC") and                |

n d reviewed with the Transmission Expansion Advisory Committee ("TEAC") and Subregional RTEP Committee – Western on a periodic basis in accordance with PJM's regional planning process regulated by FERC (the "M-3 Process", which is applicable to Owner Projects). All TEAC and Subregional RTEP Committee – Western meetings are open and any transmission stakeholder can attend and participate.

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Stakeholder input regarding specific projects is vetted through this PJM committee meeting process. Exhibit KA-2 contains presentation slides on Kentucky Power Owner Projects that were reviewed at the Subregional RTEP Committee -Western on April 8, 2021. As shown on Exhibit KA-2, Owner Projects are subject to

| 1  | multiple rounds of review and detailed project information, including needs and |  |  |
|----|---|--|--|
| 2  | alternative solutions, is provided to stakeholders.                             |  |  |
| 3  | The M-3 Process ensures stakeholders have an opportunity to review Owner        |  |  |
| 4  | Projects, and includes the following meetings and posting requirements:         |  |  |
| 5  | • Separate stakeholder meetings to discuss:                                     |  |  |
| 6  | o Models, criteria, and assumptions used to plan Owner Projects                 |  |  |
| 7  | (Assumptions Meeting);  |  |  |
| 8  | o Need underlying Owner Projects (Needs Meeting); and,                          |  |  |
| 9  | o Proposed solutions to meet those needs (Solutions Meeting).                   |  |  |
| 10 | • Posting of criteria, assumptions, and models at least 20 calendar days        |  |  |
| 11 | prior the Assumptions Meeting;  |  |  |
| 12 | • Posting of criteria violations and drivers at least ten days in advance of    |  |  |
| 13 | the Needs Meeting;  |  |  |
| 14 | • Posting of proposed solutions and alternatives identified by the PJM          |  |  |
| 15 | Transmission Owners or stakeholders at least ten days in advance of the         |  |  |
| 16 | Solutions Meeting; and,   |  |  |
| 17 | • A process to submit concerns at least ten days before the Local Plan is       |  |  |
| 18 | integrated into the RTEP for PJM Transmission Owner review and                  |  |  |
| 19 | consideration.  |  |  |
|    |   |  |  |

#### 1 Q. HOW DO STAKEHOLDERS PROVIDE INPUT AS PART OF THE M-3

PROCESS?

A.

A.

The previously described meeting and posting requirements provide multiple opportunities for stakeholders to comment on assumptions, provide input on additional needs, and propose alternative solutions for PJM Transmission Owners to consider.

First, they can do so verbally in the various stakeholder meetings. Each of these meetings is moderated by PJM. Second, written submissions can be submitted to PJM and posted using the PJM Planning Community Tool. These posts, along with responses provided by AEP Transmission, are available to the public. If discussions necessitate a change to materials that have been provided by AEP, the revised materials are posted as well.

#### Q. DO KENTUCKY POWER AND AEP CONSIDER STAKEHOLDER INPUT?

Yes, Kentucky Power and AEP consider all input provided by stakeholders. Transmission Owners have an obligation to provide sufficient transparency for stakeholders to understand the Transmission Owner's Needs and Solutions. Stakeholders, on the other hand, have an obligation to advise of their Needs and Solutions for consideration by the Transmission Owner before Owner Projects are finalized and submitted to PJM for inclusion into the RTEP.

Additionally, Kentucky Power and AEP Transmission include stakeholders that are directly impacted by a given project in the project's development and prior to its submission as a Solution to PJM stakeholders to ensure that those direct impacts are considered in identifying and evaluating proposed Solutions. Additionally, Kentucky Power and AEP Transmission include stakeholders that are directly impacted by a

given project in the project's development and prior to its submission as a Solution to PJM stakeholders to ensure that those direct impacts are considered in identifying and evaluating potential Solutions. For example, Kentucky Power and AEP Transmission communicate and coordinate with customers that are directly connected to a transmission line that may need to be rebuilt during the development of the proposed Solution for that Need.

Kentucky Power and AEP Transmission also coordinate with such stakeholders in scheduling any outages required for the project in order to minimize outage impacts. Thus, Kentucky Power and AEP consider input from directly affected stakeholders not only during the M-3 Process, but also before a solution is presented in that forum.

#### Q. WHAT ARE NON-TOPOLOGY PROJECTS?

A.

There are elements of many projects that either do not change the transmission grid's topology, or that are implicit in the description of larger projects, and that are not required to be submitted to PJM for explicit review because such project elements do not affect the transmission grid analysis within the framework of PJM's FERC-approved planning process. Nevertheless, these project elements nevertheless are essential to the larger projects that are submitted to and reviewed by PJM.

Non-topology projects are required for important operational functions such as protecting against security threats, minimizing equipment damage, reducing outage durations, and improving safety, as well as many others. Non-topology changing projects can include station security, remote control and monitoring (also known as Supervisory Control and Data Acquisition or "SCADA") or telecommunications modernization projects, among other examples.

As a specific example, AEP has historically used leased analog lines to provide communication paths for system protection and control. As phone companies move to digital technology, the analog signals and communication paths will no longer function going forward.

In order to address this issue, AEP's telecom network is being upgraded through use of fiber communication paths and microprocessor relays. Although these projects do not affect any load flow model used by PJM, they are still necessary for the continued safe, efficient, secure, and reliable operation of the transmission grid.

#### VIII. <u>CONCLUSION</u>

#### 9 Q. DOES THIS CONCLUDE YOUR TESTIMONY?

10 A. Yes, it does.

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#### VERIFICATION

The undersigned, Kamran Ali, being duly sworn, deposes and says he is the Vice President of Transmission Planning and Analysis for American Electric Power Service Corporation, that he has personal knowledge of the matters set forth in the foregoing testimony and the information contained therein is true and correct to the best of his information, knowledge, and belief after reasonable inquiry.

|   | Zansan                | al.   |
|---|-----------------------|---|
|   | Kamran Ali            |   |
| Commonwealth of Kentucky ) County of Boyd ) | Case No. 2023-00159   |   |
|   | fore me, a Notary Pub | olic in and before said County  |
| Soott & Bishof<br>Notary Public             |                       | SCOTT E. BISHOP Notary Public Commonwealth of Kentucky Commission Number KYNP32110 My Commission Expires Jun 24, 2025 |
| My Commission Expires                       | 24, 2025              |   |
| Notary ID Number LYNP 321                   | 10                    |   |



# AEP Transmission Planning Criteria and Guidelines for End-Of-Life and Other Asset Management Needs

December 2020

#### **Document Control**

#### **Document Review and Approval**

| Action       | Name(s)         | Title                                    |
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#### **Review Cycle**

| Quarterly | Semi-annual | Annual | As Needed |
|-----------|-------------|--------|-----------|
|           |             |        | Х         |

#### **Revision History**

| Version | Revision Date | Changes              | Comments                |
|---------|---------------|----------------------|-------------------------|
| 1.0     | 01/04/2017    | N/A                  | 1 <sup>st</sup> Release |
| 2.0     | 1/18/2018     | Format Update        | 2 <sup>nd</sup> Release |
| 3.0     | 11/09/2018    | Content Additions    | 3 <sup>rd</sup> Release |
| 4.0     | 12/14/2020    | End-Of-Life Criteria | 4 <sup>th</sup> Release |

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#### 1.0 Introduction

The American Electric Power (AEP) transmission system consists today of approximately 40,000 miles of transmission lines, 3,600 stations, 5,000 power transformers, 8,000 circuit breakers, and operating voltages between 23 kV and 765 kV in three different RTOs – the Electric Reliability Council of Texas (ERCOT), the PJM Interconnection (PJM), and the Southwest Power Pool (SPP), connecting over 30 different electric utilities while providing service to over 5.4 million customers in 11 different states.

AEP's interconnected transmission system was established in 1911 and is comprised of a very large and diverse combination of line, station, and telecommunication assets, each with its own unique installation date, design specifications, and operating history. As the transmission owner, it is AEP's obligation and responsibility to manage and maintain this diverse set of assets to provide for a safe, adequate, reliable, flexible, efficient, cost-effective and resilient transmission system that meets the needs of all customers while complying with Federal, State, RTO and industry standards. This requires, among other considerations, that AEP determine when the useful life of these transmission assets is coming to an end and when the capability of those assets no longer meets current needs, so that appropriate improvements can be deployed. AEP refers to these issues as transmission owner identified needs that address condition, performance and risk. AEP identifies these needs through the transmission planning criteria and guidelines outlined in this document. Specifically, this document constitutes the AEP transmission planning criteria and guidelines for End-Of-Life and other asset management needs as required in the FERC-approved Attachment M-3 to the PJM Tariff. AEP does not address any End-Of-Life or other asset management needs through the baseline planning criteria AEP files with its FERC Form 715.

AEP's transmission owner identified needs must be addressed to achieve AEP's obligations and responsibilities. Meeting these obligations requires that AEP ensures the transmission system can deliver electricity to all points of consumption in the quantity and quality expected by customers, while reducing the magnitude and duration of disruptive events. Given these considerations, criteria and guidelines are necessary to identify and quantify needs associated with transmission facilities comprising AEP's system. AEP identifies the needs and the solutions necessary to address those needs on a continuous basis using an in-depth understanding of the condition of its assets, and their

associated operational performance and risk, while exercising engineering judgment coupled with Good Utility Practices [1].

Whereas the End-Of-Life needs, as defined in the FERC-approved Attachment M-3 to the PJM Tariff, are limited to transmission facilities rated above 100 kV, these criteria and guidelines apply to all transmission voltages that comprise the AEP transmission system, including those defined as End-Of-Life needs in the FERC-approved Attachment M-3 to the PJM Tariff. In addition, projections of candidate End-Of-Life needs that result from the process outlined in these AEP criteria and guidelines will be provided to PJM in accordance with the provisions in the FERC-approved Attachment M-3 to the PJM Tariff. Current End-Of-Life and other asset management needs will be vetted with stakeholders in accordance with the provisions in the FERC-approved Attachment M-3 to the PJM Tariff.

Addressing these owner identified transmission system asset management needs, as they pertain to condition, performance and risk, will result in the following benefits to customers:

- Safe operation of the electric grid.
- Reduction in frequency of outage interruptions.
- Reduction in duration of outage interruptions.
- Improvement in service reliability and adequacy to customers.
- Reduction of risk of service disruptions (improved resilience) associated with man-made and environmental threats.
- Proactive correction of reliability constraints that stem from asset failures.
- Effective utilization of resources to provide efficient and cost-effective service to customers.

#### 2.0 Process Overview

AEP's transmission owner needs identification criteria and guidelines are used for projects that address equipment material conditions, performance, and risk. AEP uses the three-step process shown in Figure 1 and discussed in detail in this document to determine the best solutions to address the transmission owner identified needs and meet AEP's obligations and responsibilities. This process is completed on an annual basis. In developing the most efficient and cost-effective solutions, AEP's long-term strategy is to pursue holistic transmission solutions in order to reduce the overall AEP transmission system needs.

Figure 1 – AEP Process for Identifying and Addressing Transmission Asset Condition,
Performance and Risk Needs



#### 3.0 Step 1: Needs Identification

Needs Identification is the first step in the process of determining system and asset improvements that help meet AEP's obligations and responsibilities. AEP gathers information from many internal and external sources to identify assets with needs. A collective evaluation of these inputs is conducted and considered, and thus, individual thresholds do not apply. In addition, factors can change over time. A sampling of the inputs and data sources is listed below in Table 1.

Table 1 – Inputs Considered by AEP to Identify Transmission System Needs

| Internal, External,<br>or Both | Inputs   | Examples  |
|--------------------------------|--|---|
|                                | Reports on asset conditions  | Transmission line and station equipment deterioration identified during routine inspections (pole rot, steel rusting or cracking)   |
|                                | Capabilities and abnormal conditions   | Relay misoperations; Voltage unbalance  |
| Internal                       | Legacy system configurations   | Ground switch protection schemes for transformers;; Transmission Line Taps without switches (hard taps); Equipment without vendor support   |
|                                | Outage duration and frequency  | Outages resulting from equipment failures, misoperations, or inadequate lightning protection  |
|                                | Operations and maintenance costs   | Costs to operate and maintain equipment   |
|                                | Regional Transmission Operator (RTO) or Independent System Operator (ISO) issued notices | Post Contingency Local Load Relief Warnings (PCLLRWs) issued by the RTO that can lead to customer load impacts  |
| External                       | Stakeholder input  | Input received through stakeholder meetings, such as PJM's Sub Regional RTEP Committee (SRRTEP) meetings or through the AEP hosted Annual Stakeholder Summits                         |
|                                | Customer feedback  | Voltage sag issues to customer delivery points due to poor sectionalizing; frequent outages to facilities directly affecting customers  |
|                                | State and Federal policies, standards, or guidelines                                     | NERC standards for dynamic disturbance recording  |
|                                | Environmental and community impacts  | Equipment oil/gas leaks; facilities currently installed at or near national parks, national forests, or metropolitan areas  |
| Both                           | Standards and Guidelines   | Minimum Design Standards, Radial Lines, Three<br>Terminal Lines, Overlapping Zones of Protection  |
|                                | Safety risks and concerns  | Station and Line equipment that does not meet ground clearances; Facilities identified as being in flood zones; New Occupational Safety and Hazards Administration (OSHA) regulations |

These inputs are reviewed and analyzed to identify the transmission assets that are exhibiting unacceptable condition, performance and risk, and thus, must be addressed through the FERC-approved Attachment M-3 planning process.

#### 3.1 Methodology and Process Overview

The AEP transmission system is composed of a very large number of assets that provide specific functionality and must work in conjunction with each other in the operation of the grid. These assets have been deployed over a long period of time using engineering principles, design standards, safety codes, and Good Utility Practices that were applicable at the time of installation and have been exposed to varying operating conditions over their life. The Needs Identification methodology is shown below in Figure 2. AEP addresses the identified needs considering factors including severity of the asset condition and overall system impacts. These are subsequently evaluated versus constraints such as outage availability, siting requirements, availability of labor and material, constructability, and available capital funding in determining the timing and scope of mitigation.

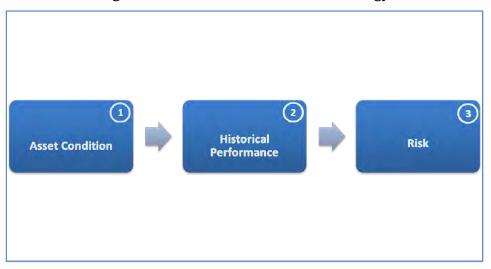


Figure 2 - Needs Identification Methodology

It is AEP's strategy and goal to develop and provide the more efficient, cost-effective, safe, reliable, resilient, and holistic long-term solutions for the identified needs.

#### 3.2 Asset Condition (Factor 1)

The Asset Condition assessment gathers a standard set of physical characteristics associated with an asset or a group of assets. The set of data points recorded is determined based on the asset type and class. Information assembled during the Asset Condition assessment is used to show the historical

deterioration, current condition, and future expectation of the asset or group of assets on the AEP system.

AEP annually assembles a list of reported condition issues for all of its assets in its system. A detailed follow-up review is conducted to determine if a transmission asset is in need of upgrade and/or replacement. Additionally, this Asset Condition review is used to determine an adequate scope of work required to mitigate the risk associated with a facility's performance and its identified issues. This level of risk is determined through the Future Risk assessment (Factor 3).

Beyond physical condition, AEP's ability to restore the asset in case of a failure is also considered. This is referred to as the future probability of failure adder. Typically, assets that are no longer supported by manufacturers or lack available spare parts are assigned a higher probability of failure adder.

To perform condition assessments, AEP classifies its Transmission assets in two main categories: Transmission Lines and Substations.

#### 3.2.1 Transmission Line Considerations

#### **Design Portion**

- A. Age (Original Installation Date)
- B. Structure Type (Wood, Steel, Lattice)
- C. Conductor Type (Size, Material & Stranding)
- D. Static Wire Type (Size & Material)
- E. Foundation Type (Grillage, Direct Embed, Caisson, Guyed V, Drilled Pier etc.)
- F. Insulator Type (Material)
- G. Shielding and Grounding Design Criteria (Ground Rod, Counterpoise, "Butt Wrap" etc.)
- H. Electrical Configuration
  - a. Three Terminal Lines
  - b. Radial Facilities
- I. NESC Standards Compliance
  - a. Structural Strength (NESC 250B, 250C & 250D Compliance)
  - b. Clearances (TLES-047 Compliance)

J. Easement Adequacy (Width, Encroachments, Type; etc.)

#### **Physical Condition**

- A. Open Conditions (existing and unaddressed physical conditions associated with a Transmission Line component)
- B. Closed Conditions (previously addressed physical conditions associated with a Transmission Line component)
- C. Emergency Fixes (History of emergency fixes)
- D. Accessibility (Identified areas of difficult access)

#### 3.2.2 Substation Considerations

- A. Transformers
  - a. Manufacturer
  - b. Manufacturing Date
  - c. In Service Date
  - d. Load Tap Changer Type & Operation History (if applicable)
  - e. Dissolved Gas Analysis
  - f. Bushing Power Factor
  - g. Through Fault Events (Duval Triangles)
  - h. Moisture Content (Oil)
  - i. Oil Interfacial Tension
  - j. Dielectric Strength
  - k. Maintenance History
  - 1. Malfunction Records
- B. Circuit Breakers
  - a. Manufacturer & Type
  - b. Manufacturing Date
  - c. In Service Date
  - d. Interrupting Medium
  - e. Fault Operations
  - f. Switched Operations

- g. Spare Part Availability
- h. Maintenance History
- i. Malfunction Records
- j. Breaker Type Population
- C. Secondary/Auxiliary Substation Equipment\*
  - a. Station Batteries
  - b. Control House
  - c. Station Security
  - d. Station Structures
  - e. Capacitor Banks
  - f. Bus, Cable and Insulators
  - g. Disconnect Switches
  - h. Station Configuration
  - i. Station Service
  - j. Relay Types
  - k. RTU Types
  - 1. Voltage Sensing Devices

\*AEP substation inspections include assessments of secondary/ancillary equipment. If needed, upgrades to these components are typically included in the scope of projects addressing major equipment and may not necessarily drive stand-alone projects.

#### 3.3 Historical Performance (Factor 2)

AEP's Historical Performance assessment quantifies how an asset or a group of assets has historically impacted the Transmission system's reliability and Transmission connected customers, helps identify the primary contributing factors to a facility's performance, and baselines the outage probability used in our Future Risk analysis. The metrics used as part of this historical performance assessment include:

- A. Forced Outage Rates
- B. Manual Outage Rates
- C. Outage Durations (Forced Outage Duration in Hours)
- D. System Average Interruption Indices (T-SAIDI, T-SAIFI, T-SAIFI-S, T-MAIFI)

- E. Customer Minutes of Interruption (CMI)
- F. Customer Average Interruption Indices (IEEE SAIDI, CAIDI & SAIFI)
- G. Number of Customers Interrupted (CI)

AEP utilizes this standard set of metrics as a means to quantify the historical performance of an asset. These historical performance metrics allow AEP to further investigate assets that have historically impacted customers the most.

Due to the vast size of the AEP operating territory covering 11 states, AEP segments its needs into seven distinct operating company regions and six voltage classes. This segmentation ensures that variations in geography with respect to vegetation, weather patterns, and terrain can be accounted for within the process of identifying needs for each operating company area. In addition to customers of AEP operating companies, consideration for retail customers that are served at non-AEP wholesale customer service points is also included. In order to account for customers served behind wholesale meter points, AEP gathers information from the parent wholesale provider or in its absence, applies a surrogate customers per MW ratio to estimate the number of customers served by a wholesale power provider's delivery point. This customer count is used to calculate the individual metrics above.

AEP's standard approach is to annually review the historical performance of its assets based on a rolling three-year average, but in some cases AEP may extend the review period beyond three years. AEP classifies all transmission asset outage causes into the following five categories to conduct this review: Transmission Line Component Failure, Substation Component Failure, Vegetation (AEP), Vegetation (Non-AEP), and External Factors. Each transmission asset and its associated performance is quantified and compared against corresponding system totals to determine its percentage contribution to aggregated system performance. An evaluation of outage rates is also performed for Transmission line assets. The observed performance of the assets in any of these categories can point to a need that may need to be addressed.

#### 3.4 Future Risk (Factor 3)

AEP reviews the associated risk exposure (future risk) inherent with each identified asset to determine an asset's level of risk. This risk exposure is quantified assuming the probability of an outage scenario

and is based on the reported condition of the asset and the severity of that condition and what the impact could be to customers or to the operation of AEP's Transmission system. Some of the key items to assess these impacts included in the risk criteria are:

- A. Number of Customers Served
- B. Load Served
- C. Operational Risks
  - a. Post Contingency Load Loss Relief Warnings (PCLLRW's)
  - b. History of Load Shed Events
  - c. Stations in Black Start Paths

In addition to the future risk calculation performed through this process, AEP is systematically reviewing its system to identify and remediate equipment and practices that have resulted in operational, restoration, environmental, or safety issues in the past that cannot be directly quantified, but that remain as acknowledged risks in the AEP Transmission system. These include:

- A. Wood pole construction
- B. Pilot wire protection schemes
- C. Oil circuit breakers
- D. Air Blast circuit breakers
- E. Pipe type oil filled cables
- F. Electromechanical relays
- G. Legacy system configurations
  - a. Missing or inadequate line switches (e.g., hard-taps)
  - b. Missing or inadequate transformer/bus protection
  - c. Three-terminal lines
  - d. Overlapping zones of protection
- H. Non-Standard Voltage Classes
- I. Poor Lightning & Grounding Performance
- J. Radial Facilities
- K. Public vulnerability

These items as described above are reviewed on a case by case basis and considered when holistic system solutions are being developed.

#### 4.0 Step 2: Solution Development

The development of solutions for the identified needs considers a holistic view of all of the needs in which several solution options are developed and scoped. AEP applies the appropriate industry standards, engineering judgment, and Good Utility Practices to develop these solution options. AEP solicits customer and external stakeholder input on potential solutions through the Annual Stakeholder Summits hosted by AEP and also through the PJM Project Submission process. This ensures that input from external stakeholders on identified needs can be received and considered as part of the solution development process.

Solution options consider many factors including, but not limited to, environmental conditions, community impacts, land availability, permitting requirements, customer needs, system needs, and asset conditions in ultimately identifying the best solution to address the identified need. Once the selected solution for a need or group of needs is defined, it is reviewed using the current RTO provided power-flow, short circuit, and stability system models (as needed) to ensure that the proposed solution does not adversely impact or create baseline planning criteria violations on the transmission grid. Finally, AEP reviews its existing portfolio of baseline planning criteria driven reliability projects and evaluates opportunities to combine or complement existing baseline planning criteria driven reliability projects with the transmission owner needs driven solutions developed through this process. This step ultimately results in the implementation of the more efficient, cost-effective, and holistic long-term solutions. Stand-alone projects are created to implement the proposed solution where transmission owner needs driven solutions cannot be integrated into existing projects.

#### 5.0 Step 3: Solution Scheduling

Once solutions are developed to address the identified needs, the scheduling of the solutions will take place. As mentioned in the previous section, if opportunities exist to combine or complement existing baseline planning criteria driven reliability projects with the needs driven solutions developed

through this process, the scheduling will be aligned to the extent possible. In all other situations, AEP will schedule the implementation of the identified solutions in consideration of various factors including severity of the asset condition, overall system impacts, outage availability, siting requirements, availability of labor and material, constructability, and available capital funding. AEP uses its discretion and engineering judgment to determine suitable timelines for project execution.

#### 6.0 Conclusion

This document outlines AEP's criteria and guidelines for transmission owner identified needs that address equipment material conditions, performance, and risk. It outlines the sources and methods considered by AEP to identify assets with needs on a continuous basis and it outlines how solutions are developed and scheduled. AEP will review and modify these criteria and guidelines as appropriate based upon our continuing experience with the methodology, acquisition of data sources, deployment of improved performance statistics and the receipt of stakeholder input in order to provide a safe, adequate, reliable, flexible, efficient, cost-effective and resilient transmission system that meets the evolving needs of all of the customers it serves.

#### 7.0 References

- [1] FERC Pro Forma Open Access Transmission Tariff, Section 1.14, Definition of "Good Utility Practice". Link: https://www.ferc.gov/legal/maj-ord-reg/land-docs/rm95-8-0aa.txt
- [2] AEP Transmission Planning Documents and Transmission Guidelines.

  Link: http://www.aep.com/about/codeofconduct/OASIS/TransmissionStudies/



#### AEP Transmission Zone M-3 Process Beaver Creek – Elwood 46kV

Need Number: AEP-2020-AP009

Process Stage: Submission of Supplemental Project for inclusion in the Local Plan

04/08/2021

**Previously Presented:** Needs Meeting 02/21/2020

Solutions Meeting 11/20/2020

**Project Driver:** 

Equipment Condition/Performance/Risk, Operational Flexibility

**Specific Assumption Reference:** 

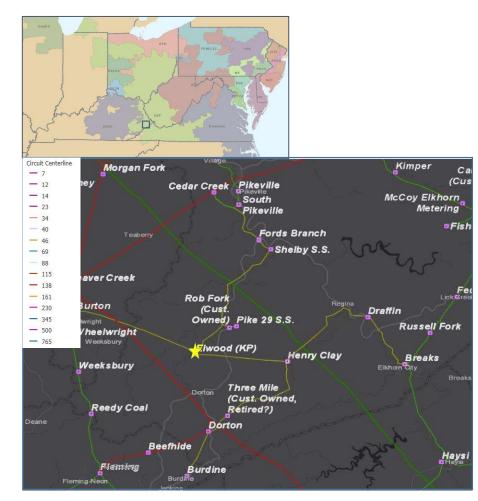
AEP Guidelines for Transmission Owner Identified Needs (AEP Assumptions Slide 8)

**Problem Statement:** 

#### **Elwood 46kV Station:**

46 kV Circuit Breakers A,B, and C

- 1960's vintage FZO-69-1500P type oil circuit breakers.
- Fault Ops: CB A (33), CB B (83), and CB C (105). Recommended: 10
- Other drivers: damage to bushings, spare part availability, historical reliability, and lack of vendor support of the breakers.
- There are 8 remaining FZO-69-1500P circuit breakers on the AEP system, including the 3 at this station.
- 86% of the relays (36/42) at the station are electromechanical, which have significant limitations with regards to fault data collection and retention and have no spare part availability due to a lack vendor support.



AEP Local Plan - 2021



#### AEP Transmission Zone M-3 Process Beaver Creek – Elwood 46kV

Need Number: AEP-2020-AP011

**Process Stage:** Submission of Supplemental Project for inclusion in the Local Plan

04/08/2021

**Previously Presented:** 

Needs Meeting 02/21/2020 Solutions Meeting 11/20/2020

**Project Driver:** 

Equipment Material/ Condition/Performance/Risk, Operational Flexibility and Efficiency

**Specific Assumption Reference:** 

AEP Guidelines for Transmission Owner Identified Needs (AEP Assumptions Slide 8)

#### **Problem Statement:**

Beaver Creek - Elwood 46kV:

• Original Install Date: 1930s vintage

Length of Line: ~10.48 mi
Total structure count: 60

• Original Line Construction Type: Wood

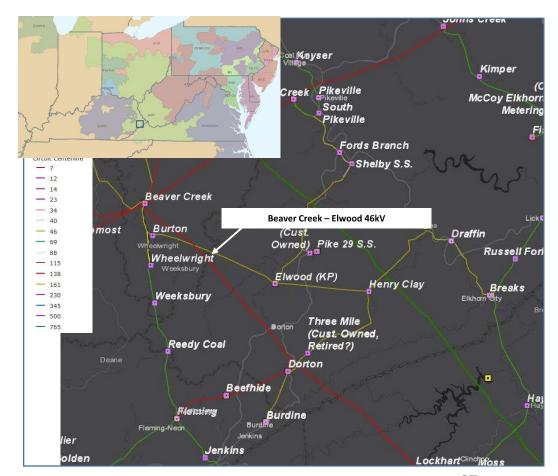
Conductor Type: 336 ACSR

Momentary/Permanent Outages and Duration: 18 Momentary and 1 permanent Outage

CMI (last 5 years only): 269,070 minutes

Number of open conditions: 34 open conditions on 20 unique structures.

 Open conditions include crossarms and poles with rot top, woodpecker damage and leaning-in-line conditions.



AEP Local Plan - 2021 67



Need Number: AEP-2020-AP009, AEP-2020-AP011

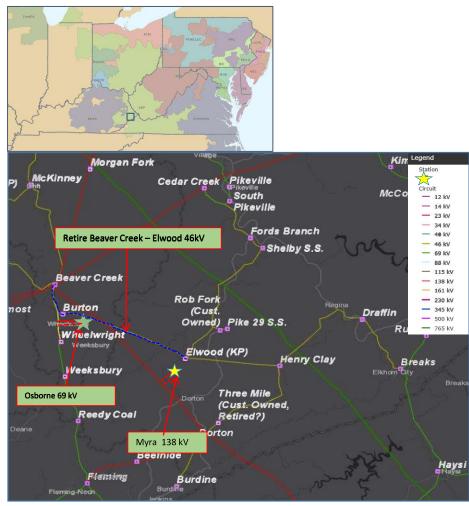
**Process Stage:** Submission of Supplemental Project for inclusion in the Local Plan 04/08/2021

#### **Selected Solution:**

- Construct a greenfield 69/12 KV Osborne Station to replace Burton Station, including a high-side 69KV Phase Over Phase switch, fiber connectivity, a circuit switcher, and one 69/12kV 12/16/20MVA transformer and associated distribution feeders. Estimated Transmission Cost: \$0.74M (s2436.1)
  - Note: Cost does not include the Distribution scope of work.
- Construct a greenfield 138KV Myra Station to replace Elwood Station. Install 138KV double box bay with two 138kV circuit breakers and line exits to Fremont & Beaver Creek. Install 138/34.5 kV transformer with high-side circuit switcher and associated 34.5kV breakers. Install fiber connectivity for upgraded relaying.
   Estimated Transmission Cost: \$3.43 M (s2436.2)
  - Note: Cost does not include the Distribution scope of work.
- Remote end relaying work at Beaver Creek substation. Remove 46KV Elwood Line 46kV circuit breaker "G" and associated equipment. Estimated Transmission Cost: \$0.17 M (s2436.3)
- Remote end relaying work at Fremont substation. Estimated Transmission Cost: \$0.42 M (s2436.4)
- At Burton station, retire and remove all existing equipment. Estimated Transmission Cost: \$0M (s2436.5)
- At Elwood station, retire and remove all existing equipment. Estimated Transmission Cost: \$0 M (s2436.6)
- Construct a new ~0.5 mi double circuit 69 kV line to the proposed Osborne substation. Estimated Cost: \$2.56 M (s2436.7)
- Reconfigure the existing Beaver Creek Fleming 69kV line to facilitate the construction of the new double circuit Osborne 69kV line to feed the proposed Osborne Substation. Estimated Cost: \$1.22 M (s2436.8)

### Beaver Creek – Elwood 46kV

AEP Transmission Zone M-3 Process



Draffin



#### AEP Transmission Zone M-3 Process Beaver Creek – Elwood 46kV

#### **Proposed Solution (Cont.):**

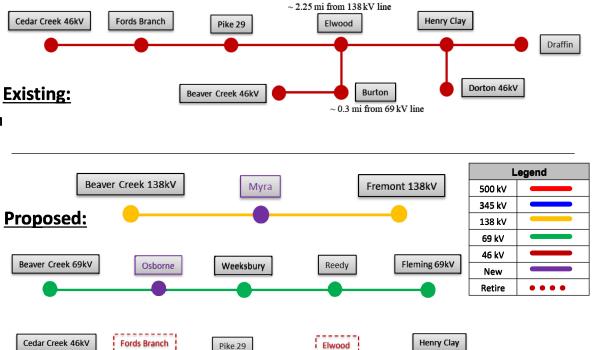
- Construct a new ~2 mi double circuit 138 kV line to the proposed Myra substation. Estimated Cost: \$8.8 M (s2436.9)
- Reconfigure the existing Beaver Creek Fremont 138kV circuit to facilitate the construction of the new double circuit Myra Extension 138kV Line to feed the proposed Myra Substation. Estimated Cost: \$1 M (s2436.10)
- Install two replacement structures in order to bypass Elwood station.
   Transfer wires from old structure to new structure. Tie new structure to Cedar Creek-Henry Clay 46kV Line. Estimated Cost: \$1.35 M (s2436.11)
- Retire ~10.48 mi Beaver Creek Elwood 46kV line. Estimated Cost: \$6.47 M (s2436.12)

**Total Estimated Transmission Cost:** \$26.16 M

Projected In-Service: 11/31/2024 Supplemental Project ID: s2436.1-.12

**Project Status: Scoping** 

Model: N/A



#### Note:

- Beaver Creek Elwood 46 kV circuit (~10.45 mi.)
   will be retired as part of this solution.
- Fords Branch is being replaced by Kewanee under B3087

B3087 Beaver Creek 46kV Dorton 46kV 69

#### COMMONWEALTH OF KENTUCKY

#### BEFORE THE PUBLIC SERVICE COMMISSION

#### In the Matter of:

| Electronic Application Of Kentucky Power Company                      | ) |                     |
|---|---|---------------------|
| For (1) A General Adjustment Of Its Rates For                         | ) |                     |
| Electric Service; (2) Approval Of Tariffs And Riders;                 | ) |                     |
| (3) Approval Of Accounting Practices To Establish ) Case No. 2023-001 |   | Case No. 2023-00159 |
| Regulatory Assets And Liabilities; (4) A                              | ) |                     |
| Securitization Financing Order; And (5) All Other                     | ) |                     |
| Required Approvals And Relief   | ) |                     |

# DIRECT TESTIMONY OF JOSHUA D. BURKHOLDER ON BEHALF OF KENTUCKY POWER COMPANY

# DIRECT TESTIMONY OF JOSHUA D. BURKHOLDER KENTUCKY POWER COMPANY BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY

#### CASE NO. 2023-00159

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## DIRECT TESTIMONY OF JOSHUA D. BURKHOLDER ON BEHALF OF KENTUCKY POWER COMPANY BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY

#### I. <u>INTRODUCTION</u>

| 2 | A. | My name is Joshua D. Burkholder, and my business address is 1 Riverside Plaza, |
|---|----|--|
| 3 |    | Columbus, Ohio 43215.  |
|   |    | II. <u>BACKGROUND</u>  |
| 4 | Q. | BY WHOM ARE YOU EMPLOYED AND WHAT IS YOUR POSITION?                            |
| _ |    |  |

PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.

- 5 A. I am employed by American Electric Power Service Corporation ("AEPSC") as
- 6 Managing Director Transmission RTO Policy. AEPSC supplies engineering,
- financing, accounting, planning, advisory, and other services to the subsidiaries of the
- 8 American Electric Power ("AEP") system, one of which is Kentucky Power Company
- 9 ("Kentucky Power" or the "Company").
- 10 Q. PLEASE DESCRIBE YOUR EDUCATIONAL AND PROFESSIONAL
- 11 **BACKGROUND.**

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Q.

- 12 A. I earned a bachelor's degree with honors in economics in 1997 from the University of
- Maryland in College Park, MD. I graduated from The Ohio State University, Fisher
- 14 College of Business with a Masters of Business Administration in 2002.

From 1997 to 2000, I held the position of Economist at the U.S Department of Commerce, Bureau of Economic Analysis, where I participated in analysis of international financial data.

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I joined AEPSC in 2002 as an associate in commercial operations and worked on various business development projects and AEP's integration into PJM Interconnection, LLC ("PJM"). In 2004, I joined AEPSC's Corporate Planning and Budgeting organization as Staff Financial Analyst of Strategic Initiatives and was promoted to Manager of Strategic Initiatives in 2007. In this role, I was responsible for working with AEPSC leadership in developing AEP's strategic plan and other strategic studies and analysis. In 2009, I transferred to AEP's transmission business unit as Manager, Transmission Strategy and Business Development where I was responsible for coordinating activities associated with the operations of the AEP transmission companies and for budgeting and financial analysis for the AEP transmission organization. In 2012, I was promoted to Director of Competitive Transmission Development for AEP's affiliate company Transource Energy, LLC. There, I was responsible for securing competitive transmission projects within the PJM and MISO regions. In 2018, I was named Director, FERC and RTO Strategy and Policy, responsible for federal and regional policy matters impacting AEP's transmission and generation businesses. In March 2023, I was promoted within the same group to my current position.

#### 1 Q. WHAT ARE YOUR RESPONSIBILITIES AS MANAGING DIRECTOR -

#### 2 TRANSMISSION RTO POLICY?

3 A. I lead a team that is responsible for the development and advocacy of AEP's and its subsidiaries' strategies and positions in their respective Regional Transmission 4 5 Organization ("RTO"), including PJM, regarding policy matters impacting the transmission and generation functions. This includes working closely with AEP 6 7 operating companies and other AEP leadership to determine the impacts of and develop 8 positions regarding potential policy changes. My team is deeply engaged in the 9 stakeholder process ranging from technical working groups to the most senior standing 10 committees.

#### Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE ANY REGULATORY

#### 12 **COMMISSIONS?**

11

13 A. Yes. I have testified before the Arkansas Public Service Commission and the Indiana

14 Utilities Regulatory Commission.

#### III. PURPOSE OF DIRECT TESTIMONY

#### 15 Q. WHAT IS THE PURPOSE OF YOUR DIRECT TESTIMONY?

16 A. The purpose of my testimony is to provide evidence regarding the steps the Company
17 has taken to address concerns regarding transmission costs discussed in the
18 Commission's January 13, 2021 Order in Case No. 2020-00174 (the "2020 Rate Case
19 Order"). My testimony also provides a factual background regarding Kentucky
20 Power's membership in the PJM regional transmission organization and participation
21 in the AEP Transmission Agreement, and the benefits to Kentucky Power's customers

of that participation. Finally, my testimony provides: (a) a high-level overview of the methodology used to determine Kentucky Power's Open Access Transmission Tariff ("OATT") expenses, and (b) the relationship between and independence of the transmission revenues associated with Kentucky Power's investment on transmission projects in its service territory and the transmission expenses it incurs for its use of the transmission network in PJM and the AEP Zone. Company Witness Ali will provide evidence concerning the practical benefits, needs, and required investments associated with Kentucky Power's obligation to serve its retail customers. Therefore, my testimony focuses on policy considerations, and on some of the risks associated with possible changes to the methodology used to determine Kentucky Power's transmission expenses under transmission rates regulated by the Federal Energy Regulatory Commission ("FERC").

### IV. <u>KENTUCKY POWER'S MEMBERSHIP IN PJM</u> AND THE BENEFITS TO CUSTOMERS FROM THAT PARTICIPATION

- 13 Q. PLEASE DESCRIBE THE RELATIONSHIP BETWEEN KENTUCKY
  14 POWER AND PJM.
- 15 A. Kentucky Power is a member of PJM. Kentucky Power joined PJM in 2004, pursuant 16 to authorization granted by the Commission on its Order dated May 19, 2004, in Case 17 No. 2002-00475. Within PJM, Kentucky Power is located in PJM's AEP Zone, as 18 shown in Attachment J to the PJM OATT, consistent with the provisions of the FERC-

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<sup>&</sup>lt;sup>1</sup> Order, Case No. 2002-00475, In the Matter of: Application of Kentucky Power Company d/b/a American Electric Power for Approval, to the Extent Necessary, to Transfer Functional Control of Transmission Facilities Located in Kentucky to PJM Interconnection, L.L.C. Pursuant to KRS 278.218 (Order dated May 19, 2004).

| 1 | regulated Consolidated Transmission Owners Agreement ("CTOA"). <sup>2</sup> Kentucky       |
|---|--|
| 2 | Power has three roles in PJM; it is: (a) a load serving entity ("LSE", also referred to as |
| 3 | a "wholesale transmission customer"), (b) a transmission owner ("TO" or                    |
| 4 | "Transmission Owner"), and (c) a generator.  |

# Q. PLEASE DESCRIBE PJM's ROLE AS THE TRANSMISSION PROVIDER OF WHOLESALE TRANSMISSION SERVICE.

To understand the dynamics of wholesale transmission service, an important first point is that PJM is the Transmission Provider of transmission service to LSEs and uses the transmission facilities of TOs to provide this service. PJM, as the Transmission Provider, charges LSEs for their use of the PJM transmission system based on FERC-regulated rates and, for the LSEs, this is an expense that I will define as "Transmission OATT Expense." In turn, PJM uses the transmission facilities owned by TOs in proving wholesale transmission service and compensates TOs for this. For the TO, this is revenue that I will define as "Transmission OATT Revenue." I go into further detail about how both Transmission OATT Expense and Transmission OATT Revenues are determined for Kentucky Power and the role of FERC in these processes later in my testimony.

\_

A.

<sup>&</sup>lt;sup>2</sup> Attachment J to the PJM OATT is available at https://pjm.com/directory/merged-tariffs/oatt.pdf. The CTOA, also known as FERC Schedule 42, is available at https://www.pjm.com/directory/merged-tariffs/toa42.pdf.

| 1  | Q. | PLEASE GENERALLY EXPLAIN HOW KENTUCKY POWER   |
|----|----|---|
| 2  |    | PARTICIPATES IN PJM AS AN LSE REGARDING TRANSMISSION                                |
| 3  |    | SERVICE.  |
| 4  |    | Kentucky Power is as an LSE in PJM and, as such, Kentucky Power is charged          |
| 5  |    | Transmission OATT Expense by PJM. I will refer to the specific amount that is       |
| 6  |    | charged to Kentucky Power as the "Kentucky Power OATT Expense." In simplified       |
| 7  |    | terms, the Kentucky Power OATT Expense is what Kentucky Power pays to PJM, the      |
| 8  |    | Transmission Provider, for Kentucky Power's use of the PJM transmission system      |
| 9  |    | under FERC-regulated rates.   |
| 10 | Q. | PLEASE GENERALLY EXPLAIN HOW KENTUCKY POWER   |
| 11 |    | PARTICIPATES IN PJM AS A TRANSMISSION OWNER.  |
| 12 |    | Kentucky Power also is a Transmission Owner in PJM and receives Transmission        |
| 13 |    | OATT Revenue from PJM, and I will refer to the specific amount that is received by  |
| 14 |    | Kentucky Power as the "Kentucky Power OATT Revenue." In simplified terms, the       |
| 15 |    | Kentucky Power OATT Revenue is what Kentucky Power receives from PJM for            |
| 16 |    | PJM's use of Kentucky Power's transmission facilities in providing wholesale        |
| 17 |    | transmission service under FERC-regulated rates.                                    |
| 18 | Q. | PLEASE GENERALLY EXPLAIN HOW KENTUCKY POWER   |
| 19 |    | PARTICIPATES IN PJM AS A GENERATOR.   |
| 20 | A. | Kentucky Power's generation assets are operated consistent with dispatch rules      |
| 21 |    | administered by PJM. Kentucky Power offers 100% of its generation energy production |

<sup>3</sup> This is also commonly referred to as Kentucky Power's PJM LSE OATT costs, charges, or expense.

| 1 | in PJM's energy markets. Kentucky Power purchases 100% of its energy needs from  |
|---|--|
| 2 | the PJM energy markets. Kentucky Power's customers are served using energy and   |
| 3 | capacity obtained by Kentucky Power pursuant to PJM's OATT and subject to FERC's |
| 4 | regulation over wholesale energy markets. <sup>4</sup>                           |

#### 5 Q. DOES YOUR TESTIMONY FOCUS ON ONE OR MORE OF THOSE THREE

#### 6 ROLES?

- 7 A. Yes. While generation is also important, my testimony is focused on Kentucky Power's roles in PJM regarding wholesale transmission service as a TO and an LSE.
- 9 Q. WHAT FACTORS CONTRIBUTE TO KENTUCKY POWER'S USE OF THE
  10 PJM TRANSMISSION SYSTEM?
- 11 A. The primary factor is that only a portion of the generation facilities that provide 12 Kentucky Power with the capacity and energy needed to serve retail customers are in 13 the state of Kentucky and, therefore, Kentucky Power uses the PJM transmission 14 system to have access to needed resources located outside of the state. It is my 15 understanding that Kentucky Power's generation fleet has changed significantly over 16 the past two decades, including the retirement of the Big Sandy II coal-fired plant, the 17 conversion of Big Sandy I to a gas-fueled generating unit, and the acquisition of 18 Kentucky Power's interest in the Mitchell Plant in West Virginia.

<sup>&</sup>lt;sup>4</sup> As a load serving entity in PJM, Kentucky Power is required to meet its capacity obligations through one of the two alternatives currently available under the PJM OATT, namely the Fixed Resource Requirement ("FRR") option, or from the Reliability Pricing Model ("RPM") option. Kentucky Power has elected the FRR option through PJM's 2024/25 planning year.

|  | 0. | DO | KENTUCKY | <b>POWER</b> | AND | ITS | <b>CUSTOMERS</b> | BENEFIT | FRO |
|--|----|----|----------|--------------|-----|-----|------------------|---------|-----|
|--|----|----|----------|--------------|-----|-----|------------------|---------|-----|

#### 2 KENTUCKY POWER'S USE OF THE PJM TRANSMISSION SYSTEM AS A

#### 3 TO AND LSE?

4 A. Absolutely. This use of the PJM transmission service avails Kentucky Power of the 5 benefits of participation in all aspects of PJM. This includes the benefits resulting from having access to the whole transmission system over which PJM has functional control, 6 7 and to all the markets administered by PJM, including energy and capacity markets. 8 Kentucky Power would receive this transmission service regardless of whether it itself 9 owns transmission facilities, as illustrated by the fact that it is possible to be an LSE 10 and own, maintain, and operate only the very few transmission facilities, if any, just necessary to interconnect to the PJM transmission network. 11

#### 12 Q. DOES KENTUCKY POWER USE THE TRANSMISSION SYSTEM OUTSIDE 13 OF KENTUCKY TO SERVE ITS CUSTOMERS?

14 A. To have access to the energy and generation capacity Kentucky Power requires to serve 15 its customers, Kentucky Power depends on transmission facilities it does not own, located in PJM both within and outside the AEP Zone. Company Witness Ali provides 16 17 details of how Kentucky Power uses transmission facilities that it does not own. 18 Without access to use these transmission facilities, Kentucky Power would be limited 19 to either rely on generation resources in its own service territory or on energy and 20 capacity contracts that undoubtedly would embed a cost for using and having access to 21 the infrastructure necessary to transmit power from where it is generated to the load 22 centers in Kentucky Power's territory. Access to these facilities is necessary for 23 Kentucky Power's customers to benefit from the economic efficiency, flexibility,

| 1  |    | resilience, and depth that are the hallmark of an electric regional transmission          |
|----|----|---|
| 2  |    | organization. In fact, even under a hypothetical scenario where Kentucky Power was        |
| 3  |    | not a member of PJM, it would still incur costs for its use of transmission facilities it |
| 4  |    | does not own (either in wholesale transmission rates or in other rates in which those     |
| 5  |    | costs are embedded), in addition to incurring the costs associated with constructing,     |
| 6  |    | maintaining, and operating its own transmission facilities.                               |
| 7  | Q. | DOES KENTUCKY POWER'S USE OF THE TRANSMISSION SYSTEM                                      |
| 8  |    | OUTSIDE OF KENTUCKY PROVIDE ADDITIONAL ASSURANCES THAT                                    |
| 9  |    | CUSTOMERS WILL HAVE ACCESS TO CAPACITY NEEDED TO SERVE                                    |
| 10 |    | CUSTOMERS?  |
| 11 | A. | Yes. Specifically concerning its access to capacity resources, Kentucky Power's access    |
| 12 |    | to the PJM transmission system, and particularly to the transmission facilities in the    |
| 13 |    | AEP Zone, provide Kentucky Power with ample flexibility to elect to continue to           |
| 14 |    | satisfy its capacity requirements under PJM's FRR alternative, or elect in the future,    |
| 15 |    | depending on market conditions and an evaluation of relative risks, to instead            |
| 16 |    | participate in the RPM capacity market. Such flexibility would simply not exist if        |
| 17 |    | Kentucky Power had no access to the transmission facilities in the AEP Zone and           |
| 18 |    | beyond in PJM.  |
| 19 | Q. | HOW DO KENTUCKY POWER'S OATT EXPENSES CURRENTLY   |
| 20 |    | COMPARE TO KENTUCKY POWER'S OATT REVENUES?  |
| 21 | A. | Kentucky Power's OATT expenses have been higher than its revenues. However,               |
| 22 |    | transmission expenses and revenues should not be expected to be exactly                   |
| 23 |    | commensurate. Kentucky Power's transmission revenues can reasonably be expected           |

| 1  |    | to be less than its transmission expenses at different points in time, and under various |
|----|----|--|
| 2  |    | circumstances. The main conclusion that I draw from the current relationship of OATT     |
| 3  |    | revenue and expense is that at the wholesale level, Kentucky Power uses the PJM          |
| 4  |    | transmission system to a greater degree than other wholesale transmission customers      |
| 5  |    | use Kentucky Power's transmission facilities.  |
| 6  | Q. | WHAT WAS THE TEST YEAR KENTUCKY POWER OATT REVENUE?                                      |
| 7  | A. | During the test year, the FERC-approved formula rate for Kentucky Power resulted in      |
| 8  |    | OATT revenue of \$86,296,748 on a total company basis as shown in Section V,             |
| 9  |    | Schedule 4.  |
| 10 | Q. | WHAT WAS THE TEST YEAR KENTUCKY POWER OATT EXPENSE?                                      |
| 11 | A. | As supported by Company Witness Walsh, total adjusted test year Kentucky Power           |
| 12 |    | OATT Expense (which Ms. Walsh refers to as LSE OATT expense) was \$136,358,812.          |
| 13 | Q. | ARE THE TRANSMISSION OATT EXPENSES INCURRED BY KENTUCKY                                  |
| 14 |    | POWER DETERMINED USING RATES AND TARIFFS THAT FERC HAS                                   |
| 15 |    | FOUND ARE JUST AND REASONABLE?   |
| 16 | A. | Yes. The annualized adjusted amounts that Kentucky Power pays for the wholesale          |
| 17 |    | transmission service it receives as a member of PJM, as supported by Company             |
| 18 |    | Witness Walsh, are determined and billed pursuant to tariffs and formula rates that      |
| 19 |    | FERC has found result in just and reasonable rates.                                      |

# V. <u>STEPS TAKEN BY KENTUCKY POWER</u> TO ADDRESS CONCERNS ABOUT ITS TRANSMISSION COSTS

| 1   | Q. | HAS THE COMMISSION EXPRESSED CONCERNS ABOUT THE SHARE OF   |
|---|----|--|
| 2   |    | TRANSMISSION CHARGES BORNE BY KENTUCKY POWER'S   |
| 3   |    | CUSTOMERS?   |
| 4   | A. | Yes. Notwithstanding FERC's determination that the amounts that Kentucky Power   |
| 5   |    | pays for the PJM transmission service are just and reasonable, the Commission has  |
| 6   |    | expressed concerns, such as in the 2020 Rate Case Order, about rising transmission   |
| 7   |    | costs paid by Kentucky Power customers and the fact that its wholesale transmission  |
| 8   |    | expenses exceed its transmission revenues.   |
| 9   | Q. | WHAT CONCERNS REGARDING TRANSMISSION INVESTMENT AND  |
|   |    |  |
| 10  |    | EXPENSE DID THE COMMISSION IDENTIFY IN THE 2020 RATE CASE  |
| <ul><li>10</li><li>11</li></ul>                       |    | EXPENSE DID THE COMMISSION IDENTIFY IN THE 2020 RATE CASE ORDER?   |
|   | A. |  |
| 11  | A. | ORDER?   |
| 11<br>12  | A. | ORDER?  In its 2020 Rate Case Order, the Commission identified "concern[s] regarding   |
| <ul><li>11</li><li>12</li><li>13</li></ul>            | A. | ORDER?  In its 2020 Rate Case Order, the Commission identified "concern[s] regarding Kentucky Power's and AEP's activities related to transmission investment, control and   |
| <ul><li>11</li><li>12</li><li>13</li><li>14</li></ul> | A. | ORDER?  In its 2020 Rate Case Order, the Commission identified "concern[s] regarding Kentucky Power's and AEP's activities related to transmission investment, control and ownership in Kentucky Power's territory" The Commission also was "concerned   |
| 11<br>12<br>13<br>14<br>15                            | A. | ORDER?  In its 2020 Rate Case Order, the Commission identified "concern[s] regarding Kentucky Power's and AEP's activities related to transmission investment, control and ownership in Kentucky Power's territory" The Commission also was "concerned that AEP, not Kentucky Power, [was] exerting the ultimate authority over Kentucky |

command and the Commission has no authority," including AEP Kentucky

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<sup>&</sup>lt;sup>5</sup> 2020 Rate Case Order at 60.

<sup>&</sup>lt;sup>6</sup> *Id.* at 62.

| Transmission Company, Inc. ("Kentucky Transco"). Opining that Kentucky Power's         |
|--|
| "transmission planning and investment activities [were] not sustainable and must be    |
| substantively addressed in the near future,"8 the Commission directed the Company to   |
| "address the burden these increasing expenses will represent to its dwindling customer |
| base."9  |

# Q. PLEASE EXPLAIN WHAT STEPS THE COMPANY HAS TAKEN TO ADDRESS THE CONCERNS SUMMARIZED ABOVE.

A. Kentucky Power has taken steps to address the Commission's directive in four main areas of focus:

- 1. Addressing the Commission's concerns about the transfer of ownership and control of its transmission system to affiliates, Kentucky Power no longer involves Kentucky Transco in projects related to Kentucky Power's transmission assets. Additionally, Kentucky Power continues to make appropriate necessary capital investments in its transmission system to address its customers' transmission needs. Company Witness Ali discusses these items further.
- 2. With respect to the Commission's concerns regarding common AEP ownership of Kentucky Power and affiliate transmission owners in PJM, Kentucky Power sought to obtain approval of a transaction to sell the Company to an entity not affiliated with AEP. In the context of that

<sup>&</sup>lt;sup>7</sup> *Id*.

<sup>&</sup>lt;sup>8</sup> *Id*. at 60.

<sup>&</sup>lt;sup>9</sup> *Id.* at 63.

| 1  |    | transaction, studies would have been pursued consistent                        | with    |
|----|----|--|---------|
| 2  |    | recommendations that have been made in previous Kentucky                       | Power   |
| 3  |    | cases before the Commission.   |         |
| 4  |    | 3. To address the impact of transmission costs on customers, Ke                | ntucky  |
| 5  |    | Power has advanced initiatives to manage and, when possible,                   | reduce  |
| 6  |    | the percentage of costs currently allocated to Kentucky Power un               | der the |
| 7  |    | existing FERC-approved PJM OATT and the AEP Transn                             | nission |
| 8  |    | Agreement.   |         |
| 9  |    | 4. Finally, to more broadly address transmission cost allocation               | issues, |
| 10 |    | AEPSC has initiated the process to conduct an analysis of                      | f PJM   |
| 11 |    | transmission cost allocation and its impacts on Kentucky Power                 | and on  |
| 12 |    | the other AEP East Operating Companies, to form recommend                      | dations |
| 13 |    | concerning cost allocation, inclusive of the concerns identified               | by the  |
| 14 |    | Commission regarding transmission cost allocation impacts                      | on the  |
| 15 |    | Company.   |         |
| 16 | Q. | PLEASE DISCUSS THE EFFORTS TO OBTAIN APPROVAL OF THE S                         | SALE    |
| 17 |    | OF KENTUCKY POWER AS A MEANS TO ADDRESS THE CONCERN                            | IS      |
| 18 |    | ABOUT THE COMPANY'S TRANSMISSION EXPENSES.                                     |         |
| 19 | A. | Over a period of more than two years, including proceedings before the Comn    | nission |
| 20 |    | in Case No. 2021-00481, AEP, Kentucky Power, and Liberty Utilities Co. ("Lil   | berty") |
| 21 |    | sought to obtain approval of the sale of Kentucky Power to Liberty. This trans | saction |
| 22 |    | would have positioned Kentucky Power to no longer be an affiliate of the AEP S | ystem,  |
| 23 |    | prompting a transition period including a re-evaluation of Kentucky P          | ower's  |

| 1                    |    | membership in PJM and relationship with other utilities in PJM and in the AEP Zone.  |
|----------------------|----|--|
| 2                    |    | In Case No. 2021-00481, as a condition of the approval of the transaction, and subject   |
| 3                    |    | to the transaction being completed, Liberty specifically agreed that, "[w]ithin 2 years  |
| 4                    |    | of the close of the transaction, Kentucky Power will evaluate the benefits and costs of  |
| 5                    |    | its participation in the PJM, and to the extent appropriate, explore alternatives."10  |
| 6                    |    | Although the Commission approved the transaction in May 2022, the transaction was  |
| 7                    |    | terminated by mutual agreement in April 2023. Consequently, the study agreed to by   |
| 8                    |    | Liberty was not pursued.   |
| 9                    | Q. | PLEASE DISCUSS THE COMPANY'S EFFORTS TO REDUCE ITS   |
| 10                   |    | CONTRIBUTION TO THE AEP ZONE COINCIDENT PEAKS AS A MEANS   |
|                      |    |  |
| 11                   |    | TO REDUCE KENTUCKY POWER'S OATT EXPENSES.  |
| 11<br>12             | A. | TO REDUCE KENTUCKY POWER'S OATT EXPENSES.  The Company has negotiated, and presented to this Commission for approval, multiple   |
|                      | A. |  |
| 12                   | A. | The Company has negotiated, and presented to this Commission for approval, multiple  |
| 12<br>13             | A. | The Company has negotiated, and presented to this Commission for approval, multiple special peak-shaving contracts with a total 264.9 MW of interruptible capacity that  |
| 12<br>13<br>14       | A. | The Company has negotiated, and presented to this Commission for approval, multiple special peak-shaving contracts with a total 264.9 MW of interruptible capacity that would help reduce Kentucky Power's contribution to the AEP Zone peak, thereby  |
| 12<br>13<br>14<br>15 | A. | The Company has negotiated, and presented to this Commission for approval, multiple special peak-shaving contracts with a total 264.9 MW of interruptible capacity that would help reduce Kentucky Power's contribution to the AEP Zone peak, thereby lowering its share of the AEP Zone OATT Expense. <sup>11</sup> |

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various utility-owned solar generating assets throughout its service territory. These

<sup>&</sup>lt;sup>10</sup> Case No. 2021-00481, Electronic Joint Application of American Electric Power Company, Inc., Kentucky Power Company and Liberty Utilities Co. for Approval of the Transfer of Ownership and Control of Kentucky Power Company, Order at Appendix A, page 1 (May 4, 2022).

<sup>&</sup>lt;sup>11</sup> See Case No. 2022-00424, Electronic Tariff Filing of Kentucky Power Company for Approval of a Special Contract Under its Economic Development Rider and Demand Response Service Tariffs with Cyber Innovation Group, LLC; Case No. 2022-00387, Electronic Tariff Filing of Kentucky Power Company for Approval of a Special Contract with Ebon International, LLC. See also TFS 2022-00249; TFS 2022-00073.

| 1  |    | assets, which are not subject to the PJM queue for projects, would also have the effect |
|----|----|---|
| 2  |    | of reducing Kentucky Power's contribution to the AEP Zone peak demand.                  |
| 3  | Q. | PLEASE DISCUSS THE COMPANY'S INITIATION OF A REVIEW                                     |
| 4  |    | PROCESS CONCERNING PJM TRANSMISSION COSTS ALLOCATION                                    |
| 5  |    | AND ITS IMPACT ON KENTUCKY POWER AND THE OTHER AEP EAST                                 |
| 6  |    | OPERATING COMPANIES.  |
| 7  | A. | American Electric Power Service Corporation has initiated a review process to examine   |
| 8  |    | how PJM transmission costs are allocated to and among the Company and the other         |
| 9  |    | AEP operating companies operating in PJM ("AEP East Operating Companies"). The          |
| 10 |    | results of that review will inform recommendations concerning cost allocation,          |
| 11 |    | inclusive of the concerns identified by the Commission regarding transmission cost      |
| 12 |    | allocation impacts on the Company. The review is contemplated to result in              |
| 13 |    | information and recommendations intended to be shared with the Company and the          |
| 14 |    | other AEP East Operating Companies, the state regulatory commissions in each of the     |
| 15 |    | AEP East Operating Companies' respective jurisdictions, and with stakeholders in each   |
| 16 |    | of these state jurisdictions.   |
| 17 | Q. | HOW WILL THE ANALYSIS BE CONDUCTED TO ENSURE IT LOOKS AT                                |
| 18 |    | ALL PERTINENT IDEAS INCLUDING ONES BEYOND THOSE   |
| 19 |    | PREVIOUSLY CONSIDERED?  |
| 20 | A. | AEPSC will retain an expert outside consultant to assist in performing an analysis of   |
| 21 |    | how PJM transmission costs are allocated to and among the AEP East Operating            |
| 22 |    | Companies, including the Company. AEPSC is in the process of retaining the outside      |

| 1 | consultant and anticipates that the review process may take between 5 and 8 months |
|---|--|
| 2 | after the consultant is retained, absent unforeseen circumstances.                 |

- 3 Q. WHAT ADDITIONAL ASSURANCES CAN THE COMPANY PROVIDE
- 4 THAT THE ANALYSIS WILL ADDRESS THE COMMISSION'S
- 5 **CONCERNS?**
- A. The scope of work will expressly include the issues the Commission identified in its

  2020 Rate Case Order. In addition, the Company commits to providing updates to the

  Commission about the progress of AEPSC's review every 30 days, beginning August

  31, 2023, until the time the analysis is complete and recommendations from it are

  submitted to the Commission. The Company will file such updates as correspondence

  in this docket.
- 12 Q. WHAT WILL THE ANALYSIS EXAMINE AND WHAT STEPS WILL BE
  13 TAKEN BY AEPSC AS A RESULT OF THE ANALYSIS?
- 14 A. The Company anticipates that the analysis may include a review of historical and 15 forecasted data and examine allocation of costs to and among the AEP East Operating Companies originating both from inside and from outside the AEP Zone. At the 16 17 conclusion of the analysis process, AEPSC will share information and 18 recommendations from the analysis with the Company and the other AEP East 19 Operating Companies. The Company intends to provide this information to the 20 Commission and expects that the other AEP East Operating Companies will provide it 21 to their respective regulatory commissions and other stakeholders in a manner 22 appropriate to each jurisdiction. It is anticipated that the results of the analysis will 23 include recommendations and an evaluation of their implications for each of the AEP

East Operating Companies, including Kentucky Power. Although it is impossible to anticipate potential next steps that may follow, the Company does anticipate engaging in discussions with stakeholders regarding the results of the analysis, and the potential impacts of the analysis's recommendations.

#### 5 Q. WHY IN LIGHT OF THE COMMISSION'S DIRECTIVES IS A FURTHER

#### ANALYSIS BENEFICIAL OR NECESSARY?

A.

Allocation of transmission costs is a complex subject involving a wide spectrum of stakeholders with competing and potentially incompatible interests. It is possible that different stakeholders, including state regulatory commissions, may have differing or incompatible views and objectives regarding the implementation of these recommendations. Thus, addressing the Commission's concerns requires careful consideration of the impacts on the Company and other stakeholders to ensure that solutions can be implemented which are achievable, appropriately match benefits and burdens of RTO participation, and mitigate risk that the ultimate outcome will not be beneficial to Kentucky. The analysis will allow AEPSC, with the input of an outside expert, to examine all facets of the cost allocation issues impacting the Company as well as their broader context for the AEP Zone and the AEP East Operating Companies. By taking a fresh look at these issues, AEPSC and its outside consultant will be able to identify more outcomes and address regulatory risks of any change to the cost allocation process.

#### 1 Q. ARE THERE RISKS ASSOCIATED WITH SEEKING TO CHANGE COST

#### 2 **ALLOCATION AT FERC?**

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A. Yes, it is not possible to predict what disputes will arise in the course of proceedings to modify cost allocation, or how FERC and the federal courts, as applicable, will resolve these disputes, or over what timeframe. There is a likelihood that at least some of the stakeholders involved will advocate for allocating a greater percentage of costs to be borne by Kentucky Power and its customers. Thus, it is possible that FERC (and subsequently federal courts reviewing FERC's decisions) may resolve disputes arising in ways contrary to positions advocated by Kentucky Power or by the Commission. Those decisions also may ultimately result in increases in transmission expenses to be borne by Kentucky Power's customers, compared to the current FERC-approved cost allocation methodology and transmission rates. Accordingly, the analysis is an important step to understanding not only potential solutions and cost allocation impacts of any identified option, but to also identify the legal and stakeholder risk.

#### VI. HOW KENTUCKY POWER'S PJM OATT EXPENSES AND REVENUES ARE DETERMINED

## 15 Q. CAN YOU PROVIDE CONTEXT PERTINENT TO KENTUCKY POWER'S

#### 16 PJM OATT EXPENSES AND REVENUES?

Yes. I provide factual background to explain how the Transmission OATT Revenues and Transmission OATT Expenses of Kentucky Power under current PJM agreements and processes. I also explain how the AEP Transmission Agreement affects how Kentucky Power net OATT revenues and expenses are determined, the beneficial impacts of membership in the agreement, and how options for the AEP Transmission 1 Agreement will be among those reviewed as part of the PJM transmission cost analysis

2 described in Part V of my testimony.

#### 3 Q. HOW IS OATT TRANSMISSION REVENUE DETERMINED FOR EACH

#### 4 TRANSMISSION OWNER?

5 This amount is determined by the FERC-approved wholesale transmission rates that A. 6 have been established for each Transmission Owner. FERC has determined that the 7 methodology used to calculate that amount results in just and reasonable rates to be paid by wholesale transmission customers. These rates determine a revenue 8 9 requirement that reflects costs associated with the construction, operation, and 10 maintenance of the facilities in the transmission system necessary for reliability, market efficiency, or other system needs. Company Witness Ali discusses these needs in detail 11 12 in his testimony. These FERC-approved wholesale transmission rates are often 13 referred to as formula rates, although some Transmission Owners use a stated rate 14 structure.

## 15 Q. DOES KENTUCKY POWER HAVE FERC-APPROVED WHOLESALE

#### TRANSMISSION RATES?

16

17 A. Yes. Kentucky Power has a FERC-approved formula rate to determine the cost
18 incurred by Kentucky Power associated with its transmission facilities that PJM uses
19 to provide transmission service to wholesale transmission customers. This is the
20 Kentucky Power OATT Revenue and is Kentucky Power's wholesale transmission
21 revenue requirement based on its role as a Transmission Owner in PJM.

#### Q. HOW IS KENTUCKY POWER'S OATT EXPENSE DETERMINED?

A.

This is a multiple step process. First, PJM determines the total Transmission OATT Expense that will be paid collectively by all the wholesale transmission customers of the PJM transmission system. I will refer to this as the "Total PJM OATT Expense." This amount is based on the FERC-approved wholesale transmission rates that have been established for each Transmission Owner in PJM. PJM then allocates the Total PJM OATT Expense among the transmission zones that are shown in Attachment J to the PJM Tariff, including the AEP Zone, based on cost allocation rules that are included in the PJM OATT and approved by FERC. I will refer to the amount allocated to the AEP Zone as the "AEP Zone OATT Expense."

Next, PJM allocates to each LSE within the AEP Zone, including Kentucky Power, a share of the AEP Zone OATT Expense based on a measure of each LSE's relative use of the transmission system. The measure used by PJM is each LSE's contribution to the single highest hourly peak of the zone over a 12-month period ("1 Coincident Peak" or "1CP"). Every wholesale transmission customer in the AEP Zone is allocated a portion of AEP Zone OATT Expense, regardless of whether these transmission customers are affiliated or unaffiliated with AEP. This step is defined in the PJM OATT and approved by FERC.

Finally, under the AEP Transmission Agreement, AEP reallocates the Transmission OATT Expense charged to the members of this agreement, including Kentucky Power, using a slightly different measure of each member's relative use of the transmission system. The measure used is the average of each member's average contribution to the monthly peaks over a 12-month period ("12 Coincident Peaks" or

| 1  |    | "12CP"). The amount allocated to Kentucky Power in this final step is the Kentucky    |
|----|----|---|
| 2  |    | Power OATT Expense.   |
| 3  | Q. | CAN YOU PLEASE EXPAND ON THE FIRST STEP WHERE PJM                                     |
| 4  |    | DETERMINES THE TOTAL PJM OATT EXPENSE THAT WILL BE PAID                               |
| 5  |    | COLLECTIVELY BY ALL THE WHOLESALE TRANSMISSION  |
| 6  |    | CUSTOMERS OF THE PJM TRANSMISSION SYSTEM?   |
| 7  | A. | The Total PJM OATT Expense is the sum of the costs associated with the transmission   |
| 8  |    | facilities of all PJM Transmission Owners. In other words, it is the sum of the       |
| 9  |    | transmission revenue requirements of all the PJM Transmission Owners that             |
| 10 |    | described above as OATT Transmission Revenue. This is the amount that PJM will        |
| 11 |    | collect in total from wholesale transmission customers for using the PJM transmission |
| 12 |    | system.   |
| 13 | Q. | IN THE SECOND STEP DESCRIBED ABOVE WHERE PJM CHARGES                                  |
| 14 |    | EACH LSE WITHIN THE AEP ZONE A SHARE OF THE AEP ZONE OATT                             |
| 15 |    | EXPENSE, WHY DOES PJM ALLOCATE THESE COSTS USING 1CP?                                 |
| 16 | A. | The default zonal allocation method in the PJM tariff is a 1CP, which allocates costs |
| 17 |    | based on the single highest hourly demand on the system. The general reasoning        |
|    |    |   |

behind a 1CP allocation is that the system overall is designed to accommodate this

maximum peak, and so 1CP is selected to identify each LSE's contribution to it.

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| 1  | Q. | TO HELP UNDERSTAND THE FINAL STEP DESCRIBED ABOVE WHERE  |
|--|----|--|
| 2  |    | AEP REALLOCATES THE TRANSMISSION OATT EXPENSE CHARGED  |
| 3  |    | TO MEMBERS OF THE AEP TRANSMISSION AGREEMENT, INCLUDING  |
| 4  |    | KENTUCKY POWER, CAN YOU PLEASE DESCRIBE THIS AGREEMENT?  |
| 5  | A. | The AEP Transmission Agreement is a FERC-approved agreement that governs the   |
| 6  |    | allocation of revenues and expenses among the AEP member load serving entities. It   |
| 7  |    | provides for the equitable sharing among the members of the costs incurred by the  |
| 8  |    | members in connection with the ownership and use of the transmission system.   |
| 9  | Q. | WHY IS 12CP USED IN THE AEP TRANSMISSION AGREEMENT TO  |
| 10   |    | REALLOCATE THE TRANSMISSION OATT EXPENSE CHARGED TO  |
| 11   |    | MEMBERS OF THIS AGREEMENT VERSUS THE 1CP METHOD USED BY  |
|  |    |  |
| 12   |    | PJM?   |
| 12<br>13   | A. | PJM?  There is generally no "perfect" allocation method. In the case of 12CP, it is reasonable   |
|  | A. |  |
| 13   | A. | There is generally no "perfect" allocation method. In the case of 12CP, it is reasonable   |
| 13<br>14   | A. | There is generally no "perfect" allocation method. In the case of 12CP, it is reasonable because it better reflects each load's use of the transmission system throughout the year   |
| 13<br>14<br>15   | A. | There is generally no "perfect" allocation method. In the case of 12CP, it is reasonable because it better reflects each load's use of the transmission system throughout the year as it is based on more than a single hour. Because loads use the transmission system  |
| 13<br>14<br>15<br>16   | A. | There is generally no "perfect" allocation method. In the case of 12CP, it is reasonable because it better reflects each load's use of the transmission system throughout the year as it is based on more than a single hour. Because loads use the transmission system more than a single hour, it is just and reasonable that that is reflected in what they are   |
| <ul><li>13</li><li>14</li><li>15</li><li>16</li><li>17</li></ul> | A. | There is generally no "perfect" allocation method. In the case of 12CP, it is reasonable because it better reflects each load's use of the transmission system throughout the year as it is based on more than a single hour. Because loads use the transmission system more than a single hour, it is just and reasonable that that is reflected in what they are charged. Under a 1CP allocation, a load could theoretically shed 100% of its load   |
| 13<br>14<br>15<br>16<br>17                                       | A. | There is generally no "perfect" allocation method. In the case of 12CP, it is reasonable because it better reflects each load's use of the transmission system throughout the year as it is based on more than a single hour. Because loads use the transmission system more than a single hour, it is just and reasonable that that is reflected in what they are charged. Under a 1CP allocation, a load could theoretically shed 100% of its load during one hour of the year and not be assigned any costs for its use of the transmission |

12CP is going to tend to change less from year to year than their 1CP contribution. Use

of the 12CP thus helps the companies and their customers better manage their costs

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23

with reduced volatility. This is especially beneficial to customers in the AEP Zone as it traditionally can peak in either the summer or winter.

A.

The AEP companies are geographically diverse. Some of the AEP companies tend to be summer-peaking, while others are winter-peaking, including Kentucky Power. If AEP used the 1CP method, individual AEP companies would be subject to volatile swings in expenses from year to year. Their cost would fluctuate significantly depending on whether the 1CP occurred in the summer or the winter. Over the past 10 years, the AEP Zone has peaked in the summer 6 times and the winter 4 times. The 12CP method results in more stable cost sharing among the AEP companies than other alternatives.

# Q. WILL THE TRANSMISSION ANALYSIS DESCRIBED IN PART V OF YOUR TESTIMONY EXAMINE OPTIONS FOR MODIFYING COST ALLOCATION UNDER THE AEP TRANSMISSION AGREEMENT THAT MAY BENEFIT KENTUCKY OR ITS WITHDRAWAL FROM THE AGREEMENT?

Yes, I expect the analysis will address these topics and more, from both a Kentucky Power viewpoint as well as in the broader context of how costs and benefits from PJM participation are allocated among the AEP East Operating Companies. The complexity of analyzing this issue is one of the reasons the analysis is needed. As Company Witness Pearce testified in Case No. 2020-00174, switching from 12CP to 1CP would have lowered Kentucky Power's net OATT expense in some historical years (2014, 2017, and 2018), and raised it over others (2015, 2016, 2019, and 2020) such that over the time period examined, Kentucky Power customers would have paid more using

1CP than they paid under the 12CP method of allocation.<sup>12</sup> Thus, the question of changing methodologies requires careful consideration to ensure *future* changes are beneficial. For example, switching to 1 CP, including by withdrawing from the agreement under Section 9.3 of the AEP Transmission Agreement (which allows a member to withdraw from the agreement upon at least three years' prior written notice) would subject Kentucky Power and its customers to greater volatility in Transmission OATT Expense. Based on these considerations, it would be premature to change Kentucky Power's participation in that agreement before the PJM transmission cost allocation analysis I described earlier is complete.

#### VII. <u>CONCLUSION</u>

#### Q. DO YOU HAVE A SUMMARY RECOMMENDATION?

A.

The Company, consistent with the directives of the Commission in its previous rate case and other proceedings, considers ways to manage, and to the extent possible reduce, its Transmission OATT Expenses. The Company is aware of recommendations previously made and questions previously asked by stakeholders aimed at the possibility of a drastic change with Kentucky Power's membership in PJM, the AEP Zone, and the AEP Transmission Agreement. My testimony describes the steps the Company has taken to address those recommendations and questions. It also highlights that the risks associated with those possibilities are significant, exposing Kentucky Power's customers to a material risk of experiencing greater costs, greater volatility, and greater uncertainty. The Company continues to consider these risks within the

<sup>&</sup>lt;sup>12</sup> Supplemental amended rebuttal testimony of Kelly D. Pearce, Case No. 2020-00174.

- 1 context of its efforts to manage its Transmission OATT Expenses and remains open to
- future dialogue and to input from stakeholders on this subject.
- **Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?**
- 4 A. Yes, it does.

#### **VERIFICATION**

The undersigned, Joshua D. Burkholder, being duly sworn, deposes and says he is the Managing Director of Transmission RTO Policy, for American Electric Power Service Corporation, that he has personal knowledge of the matters set forth in the foregoing testimony and the information contained therein is true and correct to the best of his information, knowledge, and belief after reasonable inquiry.

|   | Joshua II. Burkholder                                    |   |
|---|--|---|
| Commonwealth of Kentucky County of Boyd | ) Case No. 2023-00159                                    |   |
|   | n to before me, a Notary Public holder, on June 2 1,2023 | in and before said County   |
| Scott F. Bishop<br>Notary Public        |  | SCOTT E. BISHOP Notary Public Commonwealth of Kentucky Commission Number KYNP32110 My Commission Expires Jun 24, 2025 |
| My Commission Expires <u>Ju</u>         | ne 24, 2025  |   |
| Notary ID Number KYNP                   | 32110  |   |

#### **COMMONWEALTH OF KENTUCKY**

#### BEFORE THE PUBLIC SERVICE COMMISSION

#### In the Matter of:

| Electronic Application Of Kentucky Power Company For (1) A      | ) |                     |
|---|---|---------------------|
| General Adjustment Of Its Rates For Electric Service; (2)       | ) |                     |
| Approval Of Tariffs And Riders; (3) Approval Of Accounting      | ) |                     |
| Practices To Establish Regulatory Assets And Liabilities; (4) A | ) | C. N. 2022 00150    |
| Securitization Financing Order; And (5) All Other Required      | ) | Case No. 2023-00159 |
| Approvals And Relief  | ) |                     |

# DIRECT TESTIMONY OF KATHERINE STEWARD ON BEHALF OF KENTUCKY POWER COMPANY

# DIRECT TESTIMONY OF KATHERINE STEWARD ON BEHALF OF KENTUCKY POWER COMPANY BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY

#### CASE NO. 2023-00159

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#### **EXHIBITS**

| <u>EXHIBIT</u> | <u>DESCRIPTION</u> |
|----------------|--------------------|
|                |                    |
|                |                    |

Exhibit 1 Qualifications

Exhibit 2 Zero Intercept Study

# DIRECT TESTIMONY OF KATHERINE STEWARD ON BEHALF OF KENTUCKY POWER COMPANY BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY

#### CASE NO. 2023-00159

| 1  |    | I. <u>INTRODUCTION</u>   |
|----|----|--|
| 2  | Q. | PLEASE STATE YOUR NAME, BUSINESS ADDRESS, AND POSITION.                                    |
| 3  | A. | My name is Katherine Steward and I am an Economist with Clearspring Energy                 |
| 4  |    | Advisors. My business address is 1050 Regent Street, Suite L-3, Madison, WI                |
| 5  |    | 53715.   |
| 6  | Q. | ON WHOSE BEHALF ARE YOU TESTIFYING?  |
| 7  | A. | I am testifying on behalf of Kentucky Power, which provides electric service to            |
| 8  |    | approximately 163,400 customers in eastern Kentucky.                                       |
| 9  | Q. | BRIEFLY DESCRIBE YOUR EDUCATION AND WORK EXPERIENCE.                                       |
| 10 | A. | I have a master's degree in applied economics and my work experience includes              |
| 11 |    | working for consulting firms who specialize in revenue requirement and cost of             |
| 12 |    | service analyses, rate design, load forecasting, and other economic analyses.              |
| 13 |    | II. PURPOSE OF TESTIMONY   |
| 14 | Q. | WHAT IS THE PURPOSE OF YOUR TESTIMONY?   |
| 15 | A. | The purpose of my testimony is to describe and present the results of a zero               |
| 16 |    | intercept study performed at the Company's request, pursuant to the Commission's           |
| 17 |    | Orders dated January 13, 2021, and February 22, 2021, in Case No. 2020-00174. <sup>1</sup> |
|    |    |  |

<sup>1</sup> In the Matter of: Electronic Application Of Kentucky Power Company For (1) A General Adjustment Of Its Rates For Electric Service; (2) Approval Of Tariffs And Riders; (3) Approval Of Accounting Practices To Establish Regulatory Assets And Liabilities; (4) Approval Of A Certificate Of Public Convenience And Necessity; And (5) All Other Required Approvals And Relief, Case No. 2020-00174 ("2020 Rate Case").

#### Q. ARE YOU SPONSORING ANY EXHIBITS? 1 A. Yes. I have prepared the following exhibits to support my testimony: 2 3 Exhibit 1 – Qualifications Exhibit 2 – Zero Intercept Study 4 III. **ZERO INTERCEPT THEORY** 5 WHAT DID THE COMMISSION REQUIRE IN THE PREVIOUSLY 6 Q. REFERENCED ORDERS IN CASE NO. 2020-00174? 7 On page 53 of the January 13, 2021 Order, the Commission held the following: 8 A. 9 For its COSS, Kentucky Power applied a version of the minimum size method for poles, conductors, and transformers by basing the fixed 10 distribution plant allocation factors upon the typical distribution plant 11 12 component size when connecting the average distribution level customer. While use of the minimum sized method, or in this case, something similar, 13 is not uncommon, typically it is defaulted to when the zero-intercept method 14 results in statistically unreliable results. Kentucky Power stated that it did 15 not perform the zero-intercept method, stating that it did not have the 16

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On rehearing the Commission clarified:

base rate case.<sup>2</sup>

The Commission finds that rehearing should be granted for the limited purpose of clarifying that Kentucky Power should conduct a zero-intercept study for its cost of service study in its next rate case. Recently, the Commission has noted its preference for the zero-intercept method stating the following:

detailed information needed to properly perform the zero-intercept method.

The Commission believes that such modeling should be performed first and

finds that Kentucky Power should perform a zero-intercept study in its next

2728

Due to its use of linear regression equations relating cost to 29 30 various sizes of equipment rather than choosing what would be the minimum pole, conductor, or line transformer needed 31 to serve a customer, the zero-intercept method is preferred 32 33 because it is considered less subjective than the minimum system. Furthermore, comparative studies between the 34 minimum-size and zero-intercept methods suggest that the 35 36 minimum system method produces a larger customer

<sup>&</sup>lt;sup>2</sup> Order at 53, 2020 Rate Case (Ky. P.S.C. January 13, 2021) (internal footnotes omitted).

1 2

A.

Therefore, in its next base rate case, Kentucky Power must include support for the reasonableness of the data that it provides and any assumptions made by Kentucky Power should be well supported and documented.<sup>3</sup>

#### 6 Q. WHAT IS A ZERO INTERCEPT STUDY?

The Electric Utility Cost Allocation Manual published by the National Association of Regulatory Utility Commissioners ("NARUC") dated January 1992 ("NARUC CAM") identifies the zero-intercept (or "minimum intercept") as one of two standard methodologies for classifying distribution fixed costs. The NARUC CAM states that certain distribution costs should be functionally classified as customer-related and demand-related in a cost of service study.

Costs classified as *demand-related* vary with the capacity needs of customers, such as the amount of transmission or distribution equipment necessary to meet a customer's needs, or other elements that are related to facility size. Distribution substation transformers are examples of costs typically classified as demand costs. Costs classified as *customer-related* include costs incurred to serve customers regardless of the quantity of electric energy purchased or the peak requirements of the customers and vary with the number of customers. These include the cost of the minimum system necessary to provide a customer with access to the electric grid. The zero intercept method is used to divide distribution costs related to poles, overhead conductor, underground conductor, and line transformers between the demand-related and customer-related categories.

<sup>&</sup>lt;sup>3</sup> Order at 23, 2020 Rate Case (Ky. P.S.C. February 22, 2021) (internal footnotes omitted).

Stated differently, the zero-intercept method provides a rational basis for separating the cost of a device between its customer and demand components. Theoretically, the customer-related costs are associated with the portion of facilities that do not require any capacity or size – one might call this the 'zero-sized' facility cost – and then the rest of the facility costs are demand-related, because they are associated with the portion of facilities that do require capacity or non-zero size.

A.

A.

#### Q. HOW DOES THE ZERO INTERCEPT METHOD GENERALLY WORK?

The zero-intercept method uses linear regression to determine the theoretical cost for connecting a customer of zero size to the grid. Linear regression is a statistical analysis used to predict the value of a variable based on the value of another variable; it attempts to model the relationship between two variables by fitting a linear equation to observed data. In this application, the linear regression attempts to predict the cost of a theoretically 'zero-sized' facility (e.g., pole, conductor, transformer) based on the sizes and costs of existing facilities on the utility books. This method is less subjective than other approaches and is preferred when the necessary data are available. With the zero-intercept method, a zero-size conductor or line transformer is the absolute minimum system, or the smallest amount of facility investment needed to serve a customer regardless of their demand, and thus is customer-related. Any costs above that minimum must be related to demand.

#### Q. WHAT IS THE THEORY BEHIND THE ZERO-INTERCEPT METHOD?

The theory behind the zero-intercept method is that there is a linear relationship between the unit cost (\$/ft or \$/transformer) of conductor or line transformers and

the load flow capability of the plant, which is proportionate to the cross-sectional area of the conductor or the kVA rating of the transformer. After establishing a linear relation, which is given by the equation:

$$y = a + bx$$

where:

y is the unit cost of the conductor or transformer,

x is the size of the conductor (MCM) or transformer (kVA), and

a, b are the coefficients representing the intercept and slope, respectively, it can be determined that, theoretically, the unit cost of a pole or foot of conductor or transformer with zero size (or conductor or transformer with zero load carrying capability) is a, the zero-intercept. The zero-intercept is essentially the cost component of poles, conductor or transformers that is invariant to the size and load carrying capability of the plant.

For most electric utilities, the feet of conductor and number of transformers on the system are not uniformly distributed over all sizes of wire and transformer. In other words, a utility might have more of size 1/0 conductor than it has of size 2/0 conductor, or it might have more 10 kVA transformers than 15 kVA transformers. The number of facilities of various sizes are not the same, so each size must be weighted by quantity in the linear regression analysis. For this reason, it is necessary to use a *weighted* regression analysis, instead of a standard least-squares analysis, in the determination of the zero intercept. Without performing a weighted regression analysis, all types of conductor and

transformers would have the same impact on the analyses, even though the quantity of conductor and transformers are not the same for each size and type.

Using a weighted regression analysis, the cost and size of each type of conductor, pole or transformer is weighted by the number of feet of installed conductor or the number of poles or transformers. In a weighted regression analysis, the following weighted sum of squared differences is minimized, where  $\mathbf{w}$  is the weighting factor for each size of conductor or transformer, and  $\mathbf{y}$  is the observed value and  $\mathbf{\hat{y}}$  is the predicted value of the dependent variable:

$$\sum_{i} w_i (y_i - \hat{y}_i)^2$$

2.2.

# Q. DOES THE NARUC CAM PROVIDE INSTRUCTIONS FOR THE ZERO INTERCEPT ANALYSIS?

A. Yes. The NARUC CAM provides the following instructions for overhead conductor, underground conductor, and transformers on pages 92-94. The instructions are summarized as follows:

#### Account 364 – Poles, Towers, and Fixtures

Determine minimum intercept of pole cost using cost per foot by classes and heights of poles weighted by the number of poles in each category and developing a cost for the utility's minimum size pole.

#### Account 365 – Overhead Conductors and Devices

Determine minimum intercept of conductor cost per foot using cost per foot by size and type of conductor weighted by feet or investment in each category and developing a cost for the utility's minimum size conductor.

#### Account 366 and 367 - Underground Conduit, and Underground

#### **Conductors and Devices**

A.

Determine minimum intercept of cable cost per foot using cost per foot by size and type of cable weighted by feet of investment in each category.

#### Account 368 – Line Transformers

Determine zero intercept of transformer cost using cost per transformer by type, weighted by number for each category. Only single-phase sizes up to and including 50 kVA should be used.

# Q. WHAT KIND OF RESULTS DOES THE ZERO INTERCEPT ANALYSIS PROVIDE?

The zero-intercept analysis provides the theoretical cost per unit for a zero-sized facility. In other words, it provides the cost of a zero-foot pole, the cost per length for conduit of zero cross-sectional area, and the cost for a transformer of zero kVA capacity. These must be positive numbers for the results to be meaningful; if the linear regression produces a negative zero intercept, then the cost per unit would be less than zero, which is unreasonable. If the zero intercept is positive, it can be multiplied by the total number of units (i.e. number of poles, length of conductor, or number of transformers) to determine the theoretical total cost of zero-sized facilities. This cost in dollars is the share of total facility costs that is customer-related; any remaining costs are demand-related. The two

| 1 | resultant dollar amounts can then be used to develop a percentage share for      |
|---|--|
| 2 | customer and a percentage share for demand, and these percentages can be used in |
| 3 | a cost of service study or other applications to split facility costs between    |
| 4 | customer and demand classifications.   |

# 5 Q. HAVE YOU PREPARED EXHIBITS SHOWING THE RESULTS OF THE

7 A. Yes. The zero-intercept analysis for poles, overhead conductor, underground conductor, and line transformers are included in Exhibit 2.

**ZERO-INTERCEPT ANALYSIS?** 

A.

#### IV. ZERO INTERCEPT RESULTS

# 10 Q. PLEASE DESCRIBE THE PROCESS UNDERTAKEN TO PERFORM THE 11 ZERO INTERCEPT STUDY.

To perform the study, Company records were provided. These records include cost and quantity for poles in Account 364, conductor in Accounts 365 and 367, and transformers in Account 368. This data was then input to a linear regression calculation to identify the zero intercept for each of the respective accounts. For poles, the size of the facility is the pole height from Company records. For conductor, the size is the cross-sectional area of the conductor in kcmil (where 1 kcmil = 0.5067 mm²). This information is available in electrical industry handbooks. For transformers, the size is the transformer kilovolt-amperes (kVA) from Company records.

| 1 | Q. | DID THE ZERO INTERCEPT ANALYSIS PROVIDE A REASONABLE                                 |
|---|----|--|
| 2 |    | SOLUTION FOR ACCOUNT 364 – POLES?  |
| 3 | A. | No. The linear regression provided a zero intercept that is less than zero, which is |

unreasonable. This is a very common outcome for the zero intercept analysis for
poles, which is why some utilities in Kentucky (including Kentucky Utilities
Company and Louisville Gas & Electric Company) split pole costs between
demand and customer in rate cases using the zero intercept study results for
overhead conductor, since the two are mutually dependent (i.e., overhead
conductor requires poles, and poles are only required for overhead conductor).

# 10 Q. DID THE ZERO INTERCEPT ANALYSIS PROVIDE A REASONABLE 11 SOLUTION FOR THE OTHER ACCOUNTS?

12 A. Yes. The zero intercept results for Account 365 – Overhead Conductor, Account
13 367 - Underground Conductor, and Account 368 – Transformers were all
14 mathematically sound and provide a reasonable basis for separating the cost of
15 these facilities between their customer and demand components. These results are
16 provided in Exhibit 2.

#### V. <u>CONCLUSION</u>

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A.

#### O. PLEASE SUMMARIZE YOUR FINDINGS AND RECOMMENDATIONS.

The zero intercept study provided in Exhibit 2 provides a mathematically sound and rational basis for separating the costs for overhead conduit, underground conduit, and line transformers between their customer and demand components. It is also reasonable to apply the zero intercept study results for overhead conductor to poles, since the two are interdependent and since the Commission

- has accepted this numerous times in electric rate filings. The study is consistent
- with industry standard methods, meets the requirements of the Commission's
- Orders in Case No. 2020-00174, and should be accepted by the Commission.

#### 4 Q. DOES THIS CONCLUDE YOUR TESTIMONY?

5 A. Yes.





#### Steward Verification Form.doc

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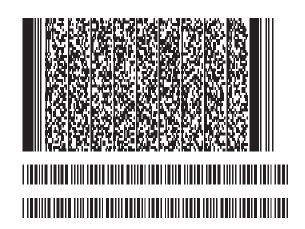
#### E-Signature 1: Katherine Steward (KS)

June 23, 2023 10:13:40 -8:00 [93796B82B379] [104.187.152.60] katherine.steward@clearspringenergy.com (Principal) (Personally Known)

#### E-Signature Notary: Jennifer Young (JAY)

June 23, 2023 10:13:40 -8:00 [DE700A179079] [161.235.221.106] jayoung1@aep.com

I, Jennifer Young, did witness the participants named above electronically sign this document.



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### **VERIFICATION**

The undersigned, Katherine Steward, being duly sworn, deposes and says she is an Economist, for Clearspring Energy Advisors, that she has personal knowledge of the matters set forth in the foregoing testimony and the information contained therein is true and correct to the best of her information, knowledge, and belief after reasonable inquiry.

|   | Katherine Steward Signed on 2023.0623 10:13:40-8:00 |  |       |
|---|---|--|-------|
|   | Katherine Steward                                   |  |       |
| Commonwealth of Kentucky County of Boyd | ) Case No. 2023-0015                                | 9  |       |
| Subscribed and swor                     | n to before me, a Notary P                          | ublic in and before said County  |       |
| and State, by <u>Katherine Stew</u>     | <u>ard</u> , on June 23, 2023.                      | JENNIFER A. YOUNG ONLINE NOTARY PUBLIC STATE AT LARGE KENTUCKY Commission # KYNP31964 My Commission Expires Jun 21, 2025 | A1790 |
| Notary Public                           | Notaria   | al act performed by audio-visual communication   |       |
| My Commission Expires                   | 06/21/25  |  |       |
| Notary ID NumberKY                      | NP31964   | _  |       |

### **Katherine Steward**

### **SUMMARY OF QUALIFICATIONS**

Provides consulting services to cooperative, investor-owned, and municipal utilities regarding cost-of-service and rate design studies, load research and consulting, survey design and implementation, and demand side management.

### PROFESSIONAL EXPERIENCE

### Clearspring Energy Advisors - Madison, WI (2022-Present)

### **Economist**

Responsible for supporting load forecasting, cost-of-service, and data analysis consulting projects for utilities and regulators. Provide survey design, implementation, and analysis.

### Power System Engineering, Inc. – Madison, WI (2021-2022) Utility Rate and Financial Analyst

Provided consulting services to utilities and regulators in the areas of revenue requirements and cost-of-service, rate design, data analysis, demand-side management, and customer segmentation.

# Apex Analytics, LLC – Madison, WI (2019-2021) Quantitative Analyst

Assisted in the completion of evaluation, measurement, and verification projects for investorowned electric and gas utilities in the areas of energy efficiency, demand response, benchmarking, and market research.

### **EDUCATION**

Bachelor of Science, Economics, University of Wisconsin-Madison, 2016

Master of Science, Applied Economics, University of Wisconsin-Madison, 2019

Account 365 - Overhead Conductors and Devices

**PRIMARY** 

| Acco | dili 303 - Overi | Anna (name Table of Completed Cine      | TRIMAINT      |            | Actual                     | Linear F | Regression Inp | outs       |
|------|------------------|---|---------------|------------|----------------------------|----------|----------------|------------|
| #    | Description      | Area from Table of Conductor Sizes Size | Cost          | Quantity   | Unit Cost<br>(\$ per Unit) | y*n^0.5  | n^0.5          | xn^0.5     |
| 1    | 1/0AA            | 105.53                                  | \$ 1,893.03   | 1,198      | 1.58                       | 54.69    | 34.61          | 3,652.83   |
| 2    | 2AA              | 66.37                                   | 1,454.85      | 1,335      | 1.09                       | 39.82    | 36.53          | 2,424.71   |
| 3    | 2AS              | 66.37                                   | 122.08        | 112        | 1.09                       | 11.54    | 10.58          | 702.38     |
| 4    | 4/0AA            | 211.59                                  | 4,396.13      | 2,326      | 1.89                       | 91.15    | 48.23          | 10,204.78  |
| 5    | 4/0AL            | 211.59                                  | 756.00        | 400        | 1.89                       | 37.80    | 20.00          | 4,231.84   |
| 6    | 556AL            | 556.00                                  | 27,932.50     | 9,976      | 2.80                       | 279.66   | 99.88          | 55,532.94  |
| 7    | 1/0AL            | 105.53                                  | 1,137.60      | 720        | 1.58                       | 42.40    | 26.83          | 2,831.69   |
| 8    | 2AA              | 66.37                                   | 3,231.27      | 2,964      | 1.09                       | 59.35    | 54.45          | 3,613.59   |
| 9    | 4CU              | 41.74                                   | 896.40        | 270        | 3.32                       | 54.55    | 16.43          | 685.86     |
| 10   | 4/0AA            | 211.59                                  | 3,160.07      | 1,672      | 1.89                       | 77.28    | 40.89          | 8,652.01   |
| 11   | 556AL            | 556.00                                  | 7,209.92      | 2,575      | 2.80                       | 142.08   | 50.74          | 28,213.76  |
| 12   | 750AL            | 750.00                                  | 20,517.17     | 5,399      | 3.80                       | 279.22   | 73.48          | 55,109.72  |
| 13   | 1AA              | 83.69                                   | 638.32        | 404        | 1.58                       | 31.76    | 20.10          | 1,682.15   |
| 14   | 1/0AA            | 105.53                                  | 783,210.31    | 495,703    | 1.58                       | 1,112.42 | 704.06         | 74,300.32  |
| 15   | 1/0AL            | 105.53                                  | 45,646.44     | 28,890     | 1.58                       | 268.55   | 169.97         | 17,937.21  |
| 16   | 1/0AS            | 105.53                                  | 44,413.67     | 28,110     | 1.58                       | 264.90   | 167.66         | 17,693.34  |
| 17   | 1/0CU            | 105.53                                  | 9,689.84      | 2,842      | 3.41                       | 181.78   | 53.31          | 5,625.50   |
| 18   | 1/0CW            | 105.53                                  | 5,801.44      | 1,701      | 3.41                       | 140.65   | 41.25          | 4,352.82   |
| 19   | 2A5              | 66.37                                   | 1,003.74      | 921        | 1.09                       | 33.08    | 30.35          | 2,014.02   |
| 20   | 2AA              | 66.37                                   | 15,739,381.76 | 14,439,800 | 1.09                       | 4,141.97 | 3,799.97       | 252,200.45 |
| 21   | 2AL              | 66.37                                   | 361,086.50    | 331,272    | 1.09                       | 627.36   | 575.56         | 38,199.50  |
| 22   | 2AS              | 66.37                                   | 3,865,958.84  | 3,546,751  | 1.09                       | 2,052.78 | 1,883.28       | 124,991.55 |
| 23   | 2CC              | 66.37                                   | 6,316.90      | 2,163      | 2.92                       | 135.81   | 46.51          | 3,086.92   |
| 24   | 2CU              | 66.37                                   | 99,842.22     | 34,193     | 2.92                       | 539.94   | 184.91         | 12,272.44  |
| 25   | 2CW              | 66.37                                   | 2,622.15      | 898        | 2.92                       | 87.50    | 29.97          | 1,988.85   |
| 26   | 2Unknown         | 66.37                                   | 660.04        | 606        | 1.09                       | 26.82    | 24.61          | 1,633.19   |
| 27   | 2/0AA            | 133.07                                  | 332.94        | 179        | 1.86                       | 24.89    | 13.38          | 1,780.38   |
| 28   | 2/0AL            | 133.07                                  | 65.10         | 35         | 1.86                       | 11.00    | 5.92           | 787.26     |
| 29   | 2AAA             | 66.37                                   | 137.34        | 126        | 1.09                       | 12.24    | 11.22          | 744.99     |
| 30   | 2ACC             | 66.37                                   | 61,645.45     | 21,111     | 2.92                       | 424.27   | 145.30         | 9,643.27   |
| 31   | 3/0AA            | 167.80                                  | 724.88        | 328        | 2.21                       | 40.02    | 18.11          | 3,038.98   |
| 32   | 3/0AS            | 167.80                                  | 2,194.53      | 993        | 2.21                       | 69.64    | 31.51          | 5,287.69   |
| 33   | 336AS            | 336.00                                  | 4,347.47      | 1,732      | 2.51                       | 104.46   | 41.62          | 13,983.65  |
| 34   | 4A5              | 41.74                                   | 576.85        | 695        | 0.83                       | 21.88    | 26.36          | 1,100.38   |
| 35   | 4AA<br>4AA       | 41.74                                   | 13,688.36     | 16,492     | 0.83                       | 106.59   | 128.42         | 5,360.30   |
| 36   | 4AA<br>4AL       | 41.74                                   | 6,778.94      | 8,167      | 0.83                       | 75.01    | 90.37          |            |
|      |                  |   |               |            |                            |          |                | 3,772.20   |
| 37   | 4AS              | 41.74                                   | 879,488.70    | 1,059,625  | 0.83                       | 854.39   | 1,029.38       | 42,966.36  |
| 38   | 4CC              | 41.74                                   | 1,152.04      |            | 3.32                       | 61.84    | 18.63          | 777.53     |
| 39   | 4CU              | 41.74                                   | 14,501,311.12 |            | 3.32                       | 6,938.61 | 2,089.94       | 87,234.25  |
| 40   | 4CW              | 41.74                                   | 24,776.93     | 7,463      | 3.32                       | 286.81   | 86.39          | 3,605.85   |
| 41   | 4Unknown         | 41.74                                   | 341.13        | 411        | 0.83                       | 16.83    | 20.27          | 846.20     |
| 42   | 4/0AA            | 211.59                                  | 117,772.32    | 62,313     | 1.89                       | 471.79   | 249.63         | 52,818.97  |
| 43   | 4/0AL            | 211.59                                  | 5,773.56      | 3,055      | 1.89                       | 104.46   | 55.27          | 11,694.73  |
| 44   | 4/0AS            | 211.59                                  | 30,304.83     |            | 1.89                       | 239.32   | 126.63         | 26,793.18  |
| 45   | 4/0CU            | 211.59                                  | 27,473.21     | 4,845      | 5.67                       | 394.68   | 69.61          | 14,728.63  |
| 46   | 4AAS             | 41.74                                   | 217.46        | 262        | 0.83                       | 13.43    | 16.19          | 675.62     |
| 47   | 4ACC             | 41.74                                   | 305,950.09    | 167,186    | 1.83                       | 748.26   | 408.88         | 17,066.80  |
| 48   | 556AL            | 556.00                                  | 22,034.89     | 7,870      | 2.80                       | 248.39   | 88.71          | 49,323.20  |
| 49   | 6AA              | 26.25                                   | 6,180.64      |            | 0.83                       | 71.62    | 86.29          | 2,265.29   |
| 50   | 6AL              | 26.25                                   | 2,695.00      | 3,247      | 0.83                       | 47.30    | 56.98          | 1,495.84   |
| 51   | 6AS              | 26.25                                   | 3,588.47      | 4,323      | 0.83                       | 54.58    | 65.75          | 1,726.08   |
| 52   | 6CC              | 26.25                                   | 762,238.65    | 725,942    | 1.05                       | 894.62   | 852.02         | 22,366.43  |
| 53   | 6CU              | 26.25                                   | 181,019.60    | 172,400    | 1.05                       | 435.97   | 415.21         | 10,899.69  |
| 54   | 6CW              | 26.25                                   | 380.10        | 362        | 1.05                       | 19.98    | 19.03          | 499.46     |
| 55   | 6Unknown         | 26.25                                   | 443.93        | 535        | 0.83                       | 19.20    | 23.13          | 607.11     |
| 56   | 6ACC             | 26.25                                   | 2,488,985.49  | 2,370,462  | 1.05                       | 1,616.61 | 1,539.63       | 40,416.84  |
| 57   | 6ACU             | 26.25                                   | 1,595.93      | 1,520      | 1.05                       | 40.94    | 38.99          | 1,023.43   |
| 58   | 8AA              | 16.51                                   | 571.87        | 689        | 0.83                       | 21.79    | 26.25          | 433.34     |
| 59   | 8CC              | 16.51                                   | 58,743.12     | 70,775     | 0.83                       | 220.81   | 266.04         | 4,391.98   |
| 60   | 8ACC             | 16.51                                   | 97,683.27     | 117,691    | 0.83                       | 284.74   | 343.06         | 5,663.59   |
| 61   | 1/0AA            | 105.53                                  | 22,374.88     | 5,827      | 3.84                       | 293.12   | 76.33          | 8,055.54   |
| 62   | 1/0AL            | 105.53                                  | 18,400.27     | 4,792      | 3.84                       | 265.81   | 69.22          | 7,305.11   |
| 63   | 2AA              | 66.37                                   | 2,324.16      | 848        | 2.74                       | 79.80    | 29.12          | 1,932.96   |
|      |                  |   |               |            |                            |          |                |            |

Account 365 - Overhead Conductors and Devices

**PRIMARY** 

|  | Acce | ount ood - o ven | Area from Table of Conductor Sizes | T KIMAKT     |           | Actual<br>Unit Cost | Linear I | Regression Inp | outs       |
|--|------|------------------|------------------------------------|--------------|-----------|---------------------|----------|----------------|------------|
| 66         A/OAA         211.69         59.390.12         110,773         5.51         571.00         103,779         21.981.05           67         A/OAS         211.99         2.231.55         4.05         5.51         11.09         2.281.80         2.281.80         2.281.80         2.281.80         2.281.80         2.281.80         2.281.80         2.281.80         2.281.80         2.281.80         2.281.80         2.281.80         2.281.80         2.281.80         2.281.80         2.281.80         1.121.70         1.201.80                                |      | •                | Size                               |              |           | (\$ per Unit)       |          |                |            |
| 66         A/OAL         211.59         2.48.28.94         4.506         5.51         309.87         67.13         1.12.03.73           67         A/OAS         211.99         2.23.155         4.09         5.51         110.88         3.71.30         17.10         2.281.80         3.13.80         17.06         14.06         15.06         15.06         15.06         15.06         15.06         15.06         15.06         15.06         2.284         14.14         17.06,867.64           70         1/OAL         105.53         2.33.44         17.07.52         1.58         2.23.94         14.74         16.56,666.67           71         1/OAL         105.53         2.33.24,84         11.805         17.20         144.75         14.83.43         38.343         38.35.23           71         1/OCU         105.53         2.02.296.65         5.927         2.34         16.22         7.688         14.22         7.77         17.07         14.07         12.07         1.08         2.02         7.688         14.22         1.02         1.00         10.00         18.01         18.22         1.00         1.00         18.01         18.22         18.02         1.00         18.02         12.27         18.02 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>                               |      |                  |                                    |              |           |                     |          |                |            |
| 67         4/MAS         211.98         2.231.55         4.05         5.51         110.89         2.01         2.288.16           68         556AL         5560         733.3222         10.268         7.10         2.281.80         2.281.80         110.209.89           70         1/0AL         105.33         3.304.784.70         2.175.82         1.58         2.234.81         14.46         12.09.89           71         1/0AL         105.53         3.207.80         11.32.80         1.58         2.230.48         14.40         15.68         2.24         14.40         15.208.80         1.18         2.24         14.40         15.208.80         1.38         7.22         2.04.33         3.33.32.29         2.72         1.04         14.10         2.208.40         3.33.32.20         3.43         4.15.50         1.11.76         4.68.14         4.98.67         7.69.72         3.44         4.10.20         1.11.76         4.68.14         4.918.67         7.70         2.20         3.43         4.22.12         1.88         7.34         4.66.61         1.24.16.5         3.41         4.15.70         4.01.62         3.40         4.16.27         3.40         4.16.22         3.20         4.01.62         3.40         4.16.22         3.20 </td <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> |      | •                |                                    |              |           |                     |          |                |            |
| 68         556AL         555.00         733,377.21         103,288         7,10         2,281,80         321,38         178,807.62           70         1,00AA         105,53         3,437,418.97         2,175,582         1,58         2,230,48         1,474.99         158,086.27           71         1,00AL         105,53         3,437,418.97         2,175,582         1,58         670,22         1,217.61         128,948.94           72         1,00AL         105,53         312,523,81         1197,800         1,58         700,70         444.75         48,948.84           74         1,00W         105,53         320,209,66         5,927         3,41         415,20         76.68         81,142.33           75         1,00W         105,53         334,32         2,177         1,00         20.39         18,17         1,241.65           76         2AS         66,37         381,50         30         1,09         20.39         18,12         11,241.65           77         2AA         66,37         83,066,34         76,207         1,09         20.09         276,06         18,321.54           80         2U         66,37         25,244         4,662.37         25,244         8,082 </td <td></td> <td>•</td> <td></td> <td></td> <td>·</td> <td></td> <td></td> <td></td> <td></td>   |      | •                |                                    |              | ·         |                     |          |                |            |
| 66         1 AAA         83.69         330.22         209         1.58         2.234         1.474.09         156,666.67           71         1 JOBAL         105.53         3247.4819         2.155.52         1.58         2.330.48         1.474.09         156,666.67           71         1 JOBAL         105.53         320.8687.01         132,090         1.58         77.22         333.43         333,323.93           73         1 JOCU         105.53         50,654.49         11,825         3.41         215.20         121.76         12,849.40           75         1 JOUInfloworn         105.53         3.432.22         2.172         1.58         73.64         4.6.61         4,918.57           76         2AS         66.37         3.727.401.52         3.419.634         1.09         2.015.66         1.849.23         122.712.12           77         2AA         66.37         7.727.01.52         3.419.634         1.09         2.015.66         1.849.23         122.712.12           80         2LU         66.37         7.62.544.27         699.594         1.09         2.015.66         1.849.23         122.712.12           81         2LW         66.37         7.62.544.27         699.554 <t< td=""><td></td><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>  |      | •                |                                    |              |           |                     |          |                |            |
| 100A    1005.33  |      |                  |                                    |              |           |                     |          |                |            |
| 71         1 (MAL)         195.53         208.687.01         132.080         1.58         574.22         383.43         383.52.99           73         1 (MOL)         165.53         312.528.1         118.25         3.41         415.20         121.76         12.849.0           74         1 (MOL)         165.53         50.558.44         11.825         3.41         415.20         121.76         12.849.0           75         1 (MOInhown)         105.53         3.432.22         21.72         1.58         73.44         46.61         4.918.57           76         2 AA         66.37         83.635.22         21.72         1.58         73.44         46.61         4.918.57           77         2 AA         66.37         83.636.34         70.70         1.09         20.15.66         18.849.23         122.71.24           80         2 CU         66.37         762.514.27         689.594         1.09         211.67         28.68         122.71.24           81         2 CW         66.37         25.224.84         8.639         2.92         2271.40         92.54         6.16.82           81         2 CW         66.37         25.224.84         8.639         2.92         2.80.62   |      |                  |                                    |              |           |                     |          |                |            |
| 72         1/00CU         105.53         515.554.99         11.80         702.70         14.475         46,934.88           74         1/0CW         105.53         20.209.85         5.927         3.41         415.22         7.69         8.124.23           75         1/0Um/morm         105.53         20.209.85         5.927         3.41         426.22         7.69         8.124.23           76         2/As         66.37         38.30.65.34         76.207         1.09         20.39         1.87.11         1.241.65           78         2/A         66.37         83.065.34         76.207         1.09         300.80         276.06         18.321.54           78         2/A         66.37         265.814.27         680.95.54         1.09         91.15         383.39         55.50.61           80         CU         66.37         225.244         88.39         84         2.92         286.14         296.22         19.666.21         19.666.37           81         2/OV         66.37         225.244         88.39         2.92         2.10         9.24         2.21         86.34         3.60         5.602.23         3.401.50         3.40         3.602.33         3.40         5.602.   |      |                  |                                    |              |           |                     |          |                |            |
| 73         1/OCU         105.53         50.564.49         14.825         3.41         415.20         12.78         12.894.02           75         1/OUnthorour         105.53         3.432.22         2.172         1.58         73.64         46.61         4.918.57           76         2AS         66.37         3.815.0         3.90         1.09         2.0.36         1.849.23         1.22.731.24           77         2AA         66.37         3.805.53         3.772.401.52         3.419.634         1.09         2.015.68         1.849.23         122.731.42           79         2AS         68.37         78.2514.27         699.554         1.09         911.67         83.30         55.501.61           81         2CW         68.37         2.52.914.84         8.798.4         2.02         2.071.40         92.94         1.688.38         2.55.00         1.688.48           81         2CW         68.37         2.259.11         1.447         1.60         70.78         3.20         1.00         1.688.48           81         2CW         68.37         1.349.48         8.639         4.04         1.74         1.06.53         2.02         2.00         1.00         1.00         1.00   |      |                  |                                    |              |           |                     |          |                |            |
| 74         J/DCW         165.53         20.209.66         5,927         3.41         26.22         7.98         8,124.22           76         2.00         165.53         343.22         2.172         1.98         7.38         4.61         4.61         4.61         4.61         4.61         4.61         4.61         4.61         4.61         4.61         4.61         4.61         4.61         4.61         4.61         4.61         4.61         1.221.62           76         2.04         66.37         7.62.61         2.72         1.09         2.03.00         2.76.66         18.21.22           78         2.04         66.37         7.62.61         4.72         699.554         1.09         2.00.00         2.76.66         18.51.61           81         2.0V.         66.37         7.26.21.42         86.63         2.292         2.01.01         3.04         1.60.62.45           83         2.0V.         133.07         2.68.19         1.41         4.71         12.02         2.29         0.36.41         1.60.62.45           83         2.0V.         1.33.07         3.481.33         1.54         2.21         5.96.62         3.90.30         3.68.45         3.30.30         5.62.24 <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>  |      | •                |                                    |              |           |                     |          |                |            |
| 75         J. Ollohinown         105.53         3.432.22         2.1,72         1.58         7.364         4.618         4.918.67           77         2AA         66.37         3.727.401.52         3.419.634         1.09         2.015.66         1.849.23         122,731.42           78         2AL         66.37         762.2514.27         699.554         1.09         911.67         38.30         255.510.61           79         2AS         66.37         762.2514.27         699.554         1.09         911.67         38.30         255.510.61           81         2CW         66.37         22.624.44         8.639         2.22         271.40         92.44         6.168.62           81         2CW         66.37         2.581.91         1.447         1.66         70.70         38.04         1.696.62           83         2/OCU         133.07         3.482.98         8.35         4.17         120.52         2.89         3.845.55           84         2/OCU         133.07         3.482.98         8.35         4.47         120.52         2.89         3.845.55           87         3/OA         167.80         1.377.72         1.62.21         4.17         120.52         2.   |      | •                |                                    |              |           |                     |          |                |            |
| 76         2AS         66.37         37.27.401.52         3.491.634         1.09         2.01.66         1.494.23         122.731.24           78         2AA         66.37         37.27.401.52         3.491.634         1.09         2.01.66         1.494.23         122.731.24           78         2AS         66.37         83.065.34         76.207         1.09         300.90         2.76.06         18.231.54           80         2CU         66.37         256.814.47         80.985.44         1.09         101.67         38.03         55.510.61           81         2CU         66.37         25.224.84         86.639         2.92         271.40         32.04         106.82           82         2/OKU         133.07         2.681.91         1.447         1.08         70.76         36.04         50.62.29         3.491.36           83         3/OKU         167.80         3.431.33         1.544         2.21         58.68         3.930         4.529.33           87         3/OAL         167.80         3.431.33         1.544         2.21         58.68         3.930         4.529.33           87         3/OAL         167.80         3.730.77         77         760         4   |      | •                |                                    |              |           |                     |          |                |            |
| 77         2AA         66.37         3.727.401.62         3.449.634         1.09         2.01.656         1.480.23         12.731.24           79         2AS         66.37         782.051.427         699.554         1.09         90.90         2.76.06         18.211.54           80         2CU         66.37         256.914.44         87.984         2.92         866.14         92.966.2         19.686.82           81         2CW         66.37         25.224.84         87.984         2.92         286.14         92.966.2         19.686.82           82         2/OAS         133.07         2.522.48         87.984         2.92         22.14.0         92.96         2.966.24         19.686.82           82         2/OAS         133.07         2.681.91         1.447         1.66         70.76         38.04         50.62.28         3.470.59         3.482.86         335         4.17         120.52         2.26         3.470.59         3.470.59         3.470.59         3.470.59         3.482.86         335         4.17         120.52         2.26         2.896.83         3.470.59         3.482.86         3.00         1.501.81         2.21         69.69         3.515.81         4.293.33         4.502.41         3.2   |      | •                |                                    |              |           |                     |          |                |            |
| 78         2AL         66.37         76.207         1.09         300.90         276.06         81.221.54           80         2CU         66.37         256.914.44         87.884         2.92         866.14         296.22         19.686.48           81         2CW         66.37         256.914.44         87.884         2.92         866.14         296.22         19.686.48           82         2/OKS         133.07         2.52.24.84         8.638         2.92         271.40         92.94         6.168.62         19.686.48           83         2/OKU         133.07         3.482.96         835         4.17         121.06         6.22         3.470.58           85         3/OKU         167.80         3.413.33         1.544         4.21         18.66         26.99         3.470.59           85         3/OAA         167.80         2.19.777.20         99.47         2.21         68.95         3.93         4.529.33           87         3/OAS         167.80         2.37.97.77         760         4.91         135.34         2.25.7         4.625.44           89         3.36AA         336.00         2.398.59         10.517         2.51         2.57.41         102.55  |      |                  |                                    |              |           |                     |          |                |            |
| 79         2AS         66.37         762,514.27         699,554         1.09         911.67         836.39         55.510.61           81         2CU         66.37         256,914.44         87.984         2.92         271.40         92.94         6.18.62           81         2CW         63.37         26,224.84         8.639         2.92         271.40         92.94         6.18.62           82         2/OK         133.07         2,691.91         1,447         1.86         70.76         38.04         5,602.45           84         2/CU         133.07         3,492.36         835         4.17         218.06         52.29         3,470.59           85         3/OAA         167.80         1,610.18         729         2.21         59.65         26.99         4,529.33           86         3/OAL         167.80         2,19,777.20         99.447         2.21         59.65         26.99         4,529.33           87         3/OAS         167.80         3,739.77         760         4.91         135.34         27.57         4,625.41           80         336A         336.00         21,937.20         9.04         2.51         25.47         10.25         24.48 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>   |      |                  |                                    |              |           |                     |          |                |            |
| 80         2CU         66.37         256.914.44         87.894         2.92         86.614         20.94         46.8638           82         2/0AS         133.07         2.681.91         1.447         1.86         70.76         38.04         5.062.45           84         2/CC         66.37         11.402.81         2.734         4.17         120.52         28.90         3.045.85           85         3/OAA         167.80         3.413.33         1.544         2.21         86.85         39.30         6.694.65           86         3/OAL         167.80         3.413.33         1.544         2.21         86.85         39.30         6.694.529.33           87         3/OAS         167.80         219.777.20         99.447         2.21         686.35         315.35         52.916.24           88         3/OCU         167.80         3.730.77         760         4.91         135.34         2.757         746.24           88         3/ACU         336.00         2.1987.86         3.748         2.51         225.741         102.55         34.458.21           89         336A         336.00         2.1987.86         3.748         2.51         225.747         102.55   |      |                  |                                    |              |           |                     |          |                |            |
| 81         2 CV         66.37         25.22.48         8.6.99         2.92         271.40         2.94         6.168.24           83         2 /OCU         133.07         2.691.91         1.447         1.262         2.890         3.845.85           84         2 ACC         66.37         11.402.21         2.734         4.17         210.52         2.281.90         3.845.85           84         3 /OAA         167.80         3.413.33         1.544         4.21         66.85         3.90         6.594.55           86         3 /OAA         167.80         1.617.80         3.413.33         1.544         2.21         69.66         26.99         4.529.30           86         3 /OAA         167.80         2.197.77.20         99.447         2.21         69.663         3.63.55         529.162           87         3 /OAS         167.80         3.730.77         760         4.91         135.34         2.757         4.625.41           80         3 36AL         336.00         21.957.86         8.748         2.51         234.76         93.53         31.426.60           91         3 36AL         336.00         2.099.10         599         3.51         85.27.41         12.5 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>   |      |                  |                                    |              |           |                     |          |                |            |
| 82         Z/QAS         133.07         2,681.91         1,447         1,168         70.76         38.04         5,062.48           84         32,0CU         133.07         3,482.95         835         4,17         212.66         52.29         3,470.59           85         3,0AA         167.80         3,413.33         1,544         2.21         58.06         3,93.0         6,594.55           87         3,0AS         167.80         219,777.20         99,447         2.21         59.06         2.0.99         3,525.35         52,916.02           89         336AA         336.00         219,777.20         99,447         2.21         59.05         335.34         167.80         3,790.77         760         4.91         135.34         2.757         4,665.41           89         336AA         336.00         21,957.88         8,748         2.51         257.41         102.55         34,488.21           91         336AS         336.00         21,957.88         8,748         2.51         257.41         102.55         34,488.21           91         336AS         336.00         21,959.10         599         3.51         88.79.77         70.02         2.22         2.50         77.01   |      |                  |                                    |              |           |                     |          |                | •          |
| 83         2/OCU         133.07         3.482.96         8.85         4.17         120.52         28.09         3.344.85           84         2ACC         66.37         11,002.81         2.734         4.17         121.60         52.29         3.740.59           85         3/OAA         167.80         1.610.18         7.29         2.21         58.65         20.99         4.529.35           86         3/OAS         167.80         219.777.70         99.447         2.21         696.93         315.35         52.916.02           87         3/OAS         167.80         3.730.77         760         4.91         135.34         2.75         4.625.41           89         336AA         336.00         26.398.99         10.517         2.51         297.41         102.55         34.458.21           90         336AS         336.00         21.957.88         8.748         2.51         297.41         102.55         34.458.21           91         350AL         350.00         2.069.10         589         3.51         85.22         24.28         8.97.77           92         350AL         350.00         2.069.10         589         3.51         85.22         24.28   |      |                  |                                    |              |           |                     |          |                |            |
| 84         2ACC         66.37         11.402.81         2.734         4.17         218.06         52.29         3,470.58           85         3/0AL         167.80         3.413.33         1.544         2.21         58.65         26.39         4,528.33           87         3/0AS         167.80         219.777.20         99.447         2.21         598.65         26.39         4,528.33           88         3/0CU         167.80         219.777.20         99.447         2.21         598.63         315.35         52.916.02           89         336AA         336.00         26.388.59         10.517         2.51         257.41         102.55         34.458.21           91         336AA         336.00         21.957.86         8.748         2.51         557.30         22.92         277.012.16           92         350AL         336.00         21.957.86         8.748         2.51         557.30         22.92         77.012.16           92         350AL         350.00         2.008.16         2.642         3.41         175.27         51.40         2.040.475           94         4AA         41.74         4.719.06         5.686         0.33         62.58         75.40 <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>  |      | •                |                                    |              |           |                     |          |                |            |
| 85         3/OAA         167.80         3,413.33         1,544         2,21         68.85         39.05         6,594.55           87         3/OAS         167.80         219,777.20         99,447         2,21         696.693         315.35         52,915.02           88         3/OCU         167.80         219,777.20         99,447         2,21         696.93         315.35         52,915.02           89         336AA         336.00         21,957.86         87.48         2,51         227.41         102.55         34,458.21           90         336AA         336.00         21,957.86         8.748         2,51         224.476         93.53         31,426.60           91         336AA         336.00         2,099.10         599         3.51         55.23         24.28         8,497.77           93         397AS         397.00         9,008.16         2,642         3.41         175.27         51.40         20,040.75           94         4AA         41.74         4,744.67         8,849         0.83         76.80         9.47         3,147.32           95         4AL         41.74         4,744.67         8,849         0.83         78.00         9.40   |      | -                |                                    |              |           |                     |          |                |            |
| 86         3/OAL         167.80         1.610.18         72.9         2.21         99.63         26.93         4.529.31           87         3/OCU         167.80         219,777.20         99.447         2.21         696.93         315.35         52.916.02           88         3/OCU         167.80         3.730.77         760         4.91         135.34         27.57         4,625.11           89         336AL         336.00         26.938.59         10.517         2.51         257.41         102.55         34.458.21           91         336AL         336.00         21.957.86         8.748         2.51         575.30         229.20         77.012.16           91         336AL         336.00         21.957.86         8.748         2.51         575.30         229.20         77.012.16           91         336AL         336.00         21.880.21         52.544         2.51         575.30         229.20         77.012.16           93         397AS         397.00         9.008.16         2.642         3.41         175.27         51.40         2.040.47           94         4AA         41.74         7.344.67         8.89         0.83         18.83         78.06   |      |                  |                                    |              |           |                     |          |                |            |
| 87         3/OAS         167.80         219.777.20         99.447         2.21         69.69.3         15.34         27.57         4,625.41           89         336AA         336.00         26.988.59         10.517         2.51         257.41         102.55         34.452.51           90         336AA         336.00         21.957.86         8.748         2.51         234.76         99.53         31.426.60           92         350AL         336.00         131.880.21         52.54         2.51         575.30         229.20         77.012.16           92         350AL         350.00         2.069.10         589         3.51         85.22         24.28         8,497.77           93         397AS         397.00         9.000.16         2.642         3.41         175.27         51.04         20,404.75           44         4AA         41.74         4,719.06         5.686         0.83         62.58         75.40         3,417.32           95         4AL         41.74         6,517.71         11.99         0.83         78.08         94.07         3,926.44           94         4CU         41.74         6,517.71         11.99         0.83         28.02 <t< td=""><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>   |      | -                |                                    |              |           |                     |          |                |            |
| 88         3/OCU         167.00         3,730,77         760         4,91         135.24         27.57         4,626.41           90         336AA         336,00         26,398.59         10,517         2.51         234.76         93.53         31,458.62           91         336AA         336,00         21,957.86         8,748         2.51         234.76         93.53         31,426.60           91         336AA         336,00         20,90.10         589         3.51         85.22         24.28         8,497.77           93         397AS         397.00         9,008.16         2,642         3.41         175.27         51.40         20,404.75           94         4AA         41.74         4,719.06         5,686         0.83         76.08         94.07         3.946.81           96         AAS         41.74         2,468,605.02         743,556         3.32         179.89         84.18         2,261.67           97         4/OAS         211.59         756.00         400         1.89         37.80         94.18         2,261.67           99         4/OAS         211.59         62,49.74.02         3.30.722         1.89         34.68         8.18.8         <  |      | -                |                                    |              |           |                     |          |                |            |
| 89         336AA         336AO         26,398.59         10,517         2.51         257.41         102.55         34,482.21           91         336AA         336.00         21,957.86         8,748         2.51         234.76         93.53         31,426.60           91         356AS         336.00         131,860.21         52,534         2.51         757.50         229.20         77,012.16           92         350AL         350.00         2,069.10         598         3.51         85,22         24.28         8,497.77           94         4AA         41.74         4,719.06         5,686         0.83         62.58         75.40         3,147.32           95         4AL         41.74         2,417.71         3.19.99         0.83         74.83         49.07         3,226.44           94         4AS         41.74         2,468.605.02         743,556         3.32         2,862.83         862.30         35,992.27           97         4CU         41.74         2,468.605.02         743,556         3.32         1,892.862.83         862.30         35,992.27           99         4/OAS         211.59         7,746.02         3,306.732         1.89         3,456.66  |      | •                |                                    |              |           |                     |          |                |            |
| 90         336AL         336.00         21,957.86         8,748         2.51         234.76         .93.53         314.26.60           91         336AS         336.00         22,069.10         589         3.51         .85.22         .24.28         8,497.77           93         397AS         397.00         9,008.16         2,642         3.41         175.27         51.40         20,404.75           95         4AL         41.74         4,734.67         8,849         .083         78.08         94.07         3,926.44           96         AS         41.74         2,6517.71         31,948         .083         78.08         94.07         7,460.73           96         AS         41.74         2,688.605.02         743,556         3.32         2,862.83         882.30         35,992.27           98         4CW         41.74         2,688.605.02         743,556         3.32         2,862.83         862.30         35,992.27           98         4/0AS         211.59         765.00         400         1.89         37.80         20.00         42,218.44           101         4/0AA         211.59         765.00         40         1.89         3.43.66         1.81.42  |      | •                |                                    |              |           |                     |          |                |            |
| 91         336AS         336.00         131,860.21         52,534         2.51         575.30         229.20         77,012.16           92         350AL         350.00         2,069.10         589         3.51         85.22         24.28         8,497.77           93         397AS         397.00         9,068.16         2,642         3.41         175.27         51.40         20,404.75           94         4AA         41.74         4,719.06         5,686         0.83         62.58         75.40         3,147.32           96         4AL         41.74         2,648.77.71         13,1949         0.83         148.36         178.74         7,460.73           97         4CU         41.74         2,488.605.02         743,556         3.32         2,862.83         862.30         35,592.27           99         4/0AS         211.59         756.00         400         1.89         3,736         2.00         4,231.84           100         4/0AA         211.59         756.00         400         1.89         3,736         50.01         91.583.61           101         4/0AS         211.59         247.268.21         250.190         1.89         945.36         50.19  |      |                  |                                    | ,            |           |                     |          |                |            |
| 92         350AL         350.00         2,069.10         589         3.51         85.22         24.28         8,497.77           93         397AS         397.00         9,008.16         2,642         3.41         175.27         51.40         20,040.75           44         4AA         41.74         4,719.06         6,686         0.83         62.58         75.40         3,147.32           95         4AL         41.74         2,6517.71         31.949         0.83         78.08         94.07         7,406.073           96         4AS         41.74         2,66517.71         31.949         0.83         148.36         178.74         7,406.073           97         4CU         41.74         2,468.605.02         72.735.56         3.32         2,662.83         362.20         35.992.27           99         4/0AS         211.59         756.00         40         1.89         37.60         20.00         42.318.4           101         4/0AA         211.59         747,858.21         250.190         1.89         345.36         1.818.44         384.767.84           102         4/0AS         211.59         247,858.21         250.190         1.89         345.63         1.818.44   |      |                  |                                    | ,            |           |                     |          |                |            |
| 93         397AS         397.00         9,008.16         2,642         3.41         175.27         51.40         20,404.75           94         4AAA         41.74         4,719.06         5,686         0.83         62.58         75.0         3,147.32           95         54 AL         41.74         4,734.67         8,649         0.83         78.08         94.07         3,926.44           96         4AS         41.74         2,665.77.71         31.949         0.83         148.36         178.74         7,406.073           97         4CU         41.74         2,665.17.71         31.949         0.83         148.36         178.74         7,406.073           99         4/0AS         211.59         756.00         400         1.89         37.80         2.00         4231.84           100         4/0AA         211.59         756.00         400         1.89         345.86         1,818.44         384,767.84           101         4/0AA         211.59         756.80.21         250.190         1.89         345.56         50.19         105,836.10           102         4/0AS         211.59         233,896.27         122.549         1.89         664.59         351.64   |      |                  |                                    |              |           |                     |          |                |            |
| 94         4AA         41.74         4,719.06         5,686         0.83         62.58         75.40         3,147.32           95         4AL         41.74         7,344.67         8,849         0.83         78.08         94.07         3,926.44           66         4AS         41.74         2,468,605.02         743,556         3.32         2,862.83         862.30         35,992.27           98         4CW         41.74         9,747.45         2,936         3.32         179.89         54.18         2,261.67           99         4QAS         211.59         756.00         0         1.89         3,436.86         1,818.44         384,767.84           101         4/OAA         211.59         72,2858.21         250,190         1.89         945.36         500.19         165,836.10           104         4/OAL         211.59         272,3858.21         250,190         1.89         945.36         500.19         105,836.10           104         4/OAL         211.59         2236,379.97         123,649         1.89         945.36         500.19         165,836.10           104         4ACC         41.74         236,197.81         35,412         6.67         1,255.61   |      |                  |                                    |              |           |                     |          |                |            |
| 95         4AL         41.74         7,344.67         8,849         0.83         78.08         94.07         3,926.44           96         4AS         41.74         26,617.71         31,949         0.83         148.36         178.74         7,460.73           97         4CU         41.74         2,648,605.02         743,566         3.32         2,862.83         862.30         35,992.27           98         4CW         41.74         9,747.45         2,936         3.32         179.89         54.18         2,261.67           99         4/0AS         211.59         6249,724.02         3,306,732         1.89         345.36         0.00         4,231.84           101         4/0AL         211.59         472,858.21         250,190         1.89         345.36         500.19         105,836.10           102         4/0AS         211.59         472,858.21         250,190         1.89         945.36         500.19         105,836.10           102         4/0AS         211.59         472,858.21         250,190         1.89         945.36         500.19         105,836.10           103         4/OCL         211.59         233,696.27         123,649         1.89         664.59 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>  |      |                  |                                    |              |           |                     |          |                |            |
| 96         4AS         41.74         26,517.71         31,949         0.83         148.36         178.74         7,460.73           97         4CU         41.74         2,468.605.02         743,556         3.32         2,862.83         862.30         35,992.27           98         4CW         41.74         9,747.45         2,936         3.32         179.89         54.18         2,261.67           99         4/OAS         211.59         756.00         400         1.89         37.80         20.00         4,231.84           100         4/OAA         211.59         6,249,724.02         3,306,732         1.89         945.36         500.19         105,836.10           102         4/OAS         211.59         472,858.21         250,190         1.89         664.59         351.64         74,403.65           103         4/OCU         211.59         256,379.97         45,217         6.67         1,255.68         212.64         44,993.50           104         4ACC         41.74         236,197.81         3,541.2         6.67         1,255.17         188.18         4,993.50           105         6AA         26.25         560.99         676         0.83         22.43  |      |                  |                                    |              |           |                     |          |                |            |
| 97         4CU         41.74         2,468,605.02         743,556         3.32         2,862.83         862.30         35,992.27           98         4CW         41.74         9,747.45         2,936         3.32         179.89         54.18         2,261.67           98         4/0A5         211.59         756.00         400         1.89         37.80         20.00         4,231.84           100         4/0AA         211.59         6,249,724.02         3,306,732         1.89         345.86         500.19         105,836.10           102         4/0AA         211.59         233,696.27         123,649         1.89         945.36         500.19         105,836.10           102         4/0AS         211.59         2256,379.97         45,217         5.67         1,206.68         212.64         44,993.50           104         4ACC         41.74         236,197.81         35,412         6.67         1,255.17         188.18         7,854.66           105         556AL         560.00         6,812,539.94         2,433,050         2.80         4,367.51         1,559.82         867,261.98           106         6AL         26.25         560.99         676         0.83         21  |      |                  |                                    |              |           |                     |          |                |            |
| 98         4CW         41,74         9,747.45         2,936         3.32         179.89         54.18         2,261.67           99         4/0AA         2211.59         756.00         400         1.89         37.80         20.00         4,231.84           100         4/0AA         2211.59         6,249.724.02         3,306.732         1.89         343.686         1,818.44         384,767.84           101         4/0AL         2211.59         472.858.21         250,190         1.89         945.36         500.19         105,836.10           102         4/0AS         2211.59         233,896.27         123,649         1.89         664.59         351.64         74,403.65           104         4ACC         41.74         236,197.81         35,412         6.67         1,255.17         188.18         7,854.66           105         556AL         556.00         6,812,539.94         2,433,050         2.80         4,367.51         1,559.82         867,261.98           106         6AA         26.25         833.93         1,005         0.83         26.31         31.70         82.09           107         6AL         26.25         56.09         676         0.83         22.15  |      |                  |                                    |              |           |                     |          |                | ,          |
| 99         4/0A5         211.59         756.00         400         1.89         37.80         20.00         4,231.84           100         4/0AA         211.59         6.249,724.02         3,306,732         1.89         3,436.86         1,818.44         384,767.84           102         4/0AS         211.59         472,858.21         250,190         1.89         945.36         500.19         105,836.10           102         4/0AS         211.59         233,696.27         123,649         1.89         664.59         351.64         74,403.65           103         4/0CU         211.59         256,379.97         45,217         5.67         1,205.68         212.64         44,993.50           104         4ACC         41.74         236,197.81         35,412         6.67         1,255.17         188.18         7,854.66           105         556AL         556.00         6812,539.94         2,433.050         2.80         4,367.51         1,559.82         867,261.98           106         6AA         26.25         633.393         1,005         0.83         26.31         31.70         832.09           107         6AL         26.25         560.99         676         0.83         22.  |      |                  |                                    |              |           |                     |          |                |            |
| 100         4/0AA         211.59         6,249,724.02         3,306,732         1.89         3,436.86         1,818.44         384,767.84           101         4/OAL         211.59         472,858.21         250,190         1.89         945.36         500.19         105,836.10           102         4/OSC         211.59         233,696.27         123,649         1.89         664.59         351.64         74,403.65           103         4/OCU         211.59         256,379.97         45,217         5.67         1,255.17         188.18         7,854.66           104         4ACC         41.74         236,197.81         35,412         6.67         1,255.17         188.18         7,854.66           105         556AL         556.00         6,812,539.94         2,433,050         2.80         4,367.51         1,559.82         867,261.98           106         6AA         26.25         560.99         676         0.83         26.31         31.70         832.09           107         6AL         26.25         607.63         732         0.83         22.43         26.27         8,066.18           109         6CC         26.25         54,351.89         51,764         1.05         23  |      |                  |                                    |              |           |                     |          |                |            |
| 101         4/0AL         211.59         472,858.21         250,190         1.89         945.36         500.19         105,836.10           102         4/0AS         211.59         233,696.27         123,649         1.89         664.59         361.64         74,403.65           104         4/OCU         211.59         256,379.97         45,217         5.67         1,205.68         212.64         44,993.50           104         4ACC         41.74         236,197.81         35,412         6.67         1,255.17         188.18         7,854.66           105         556AL         556.00         6,812,539.94         2,433,050         2.80         4,367.51         1,559.82         867,261.98           106         6AA         26.25         833.93         1,005         0.83         26.31         31.70         832.09           107         6AL         26.25         560.99         676         0.83         21.58         26.00         682.47           109         6CC         26.25         560.63         732         0.83         22.48         27.06         710.28           110         6CU         26.25         54,351.89         51,764         1.05         238.89         22   | 100  | 4/0AA            |                                    | 6,249,724.02 | 3,306,732 |                     |          |                |            |
| 102         4/0AS         211.59         233,696.27         123,649         1.89         664.59         351.64         74,403.65           103         4/0CU         211.59         256,379.97         45,217         5.67         1,205.68         212.64         44,993.50           104         4ACC         41.74         236,197.81         35,112         6.67         1,255.17         188.18         7,854.66           105         556AL         556.00         6,812,539.94         2,433,050         2.80         4,367.51         1,559.82         867,261.90           106         6AA         26.25         560.99         676         0.83         26.31         31.70         832.09           107         6AL         26.25         607.63         732         0.83         22.46         27.06         710.28           109         6CC         26.25         99,136.46         94,416         1.05         322.63         307.27         8,066.18           110         6CU         26.25         56,858.85.85         56,580         1.05         288.89         225.09         6,722.50           112         795AL         795.00         211.02         56         3.80         28.32         7.4   | 101  | 4/0AL            | 211.59                             |              | 250,190   | 1.89                |          |                |            |
| 104         4ACC         41.74         236,197.81         35,412         6.67         1,255.17         188.18         7,854.66           105         556AL         556.00         6,812,539.94         2,433,050         2.80         4,367.51         1,559.82         867,261.98           106         6AA         26.25         833.93         1,005         0.83         26.31         31.70         832.09           107         6AL         26.25         560.99         676         0.83         21.58         26.00         682.47           108         6AS         26.25         607.63         732         0.83         22.46         27.06         710.28           109         6CC         26.25         99,136.46         94,416         1.05         322.63         307.27         8,066.18           110         6CU         26.25         54,351.89         51,764         1.05         238.89         227.52         5,972.53           111         6ACC         26.25         68,858.85         65,580         1.05         268.89         256.09         6,722.50           112         795AL         795.00         211.02         56         3.80         28.32         7.45         5,92  | 102  | 4/0AS            | 211.59                             | 233,696.27   | 123,649   | 1.89                | 664.59   | 351.64         | 74,403.65  |
| 105         556AL         556.00         6,812,539.94         2,433,050         2.80         4,367.51         1,559.82         867,261.98           106         6AA         26.25         833.93         1,005         0.83         26.31         31.70         832.09           107         6AL         26.25         560.99         676         0.83         21.58         26.00         682.47           108         6AS         26.25         607.63         732         0.83         22.46         27.06         710.28           109         6CC         26.25         99,136.46         94,416         1.05         322.63         307.27         8,066.18           110         6CU         26.25         54,351.89         51,764         1.05         238.89         227.52         5,972.53           111         6ACC         26.25         68,858.85         65,580         1.05         268.89         256.09         6,722.50           112         795AL         795.00         211.02         56         3.80         28.32         7.45         5,924.31           113         8CC         16.51         17,378.25         20,938         0.83         120.10         144.70         2,388.83  | 103  | 4/0CU            | 211.59                             | 256,379.97   | 45,217    | 5.67                | 1,205.68 | 212.64         | 44,993.50  |
| 106         6AA         26.25         833.93         1,005         0.83         26.31         31.70         832.09           107         6AL         26.25         560.99         676         0.83         21.58         26.00         682.47           108         6AS         26.25         607.63         732         0.83         22.46         27.06         710.28           109         6CC         26.25         99,136.46         94,416         1.05         322.63         307.27         8,066.18           110         6CU         26.25         54,351.89         51,764         1.05         238.89         227.52         5,972.53           111         6ACC         26.25         68,858.85         65,580         1.05         268.89         256.09         6,722.50           112         795AL         795.00         211.02         56         3.80         28.32         7.45         5,924.31           113         8CC         16.51         17,378.25         20,938         0.83         120.10         144.70         2,388.83           115         2AA         66.37         423.90         389         1.09         21.50         19.72         1,308.83 <tr< td=""><td>104</td><td>4ACC</td><td>41.74</td><td>236,197.81</td><td>35,412</td><td>6.67</td><td>1,255.17</td><td>188.18</td><td>7,854.66</td></tr<>                                | 104  | 4ACC             | 41.74                              | 236,197.81   | 35,412    | 6.67                | 1,255.17 | 188.18         | 7,854.66   |
| 107         6AL         26.25         560.99         676         0.83         21.58         26.00         682.47           108         6AS         26.25         607.63         732         0.83         22.46         27.06         710.28           109         6CC         26.25         99,136.46         94,416         1.05         322.63         307.27         8,066.18           110         6CU         26.25         54,351.89         51,764         1.05         238.89         227.52         5,972.53           111         6ACC         26.25         68,858.85         65,580         1.05         268.89         256.09         6,722.50           112         795AL         795.00         211.02         56         3.80         28.32         7.45         5,924.31           113         8CC         16.51         5,561.72         6,701         0.83         67.94         81.86         1,351.41           114         8ACC         16.51         17,378.25         20,938         0.83         120.10         144.70         2,388.83           115         2AA         66.37         423.90         389         1.09         21.50         19.72         1,308.83  | 105  | 556AL            | 556.00                             | 6,812,539.94 | 2,433,050 | 2.80                | 4,367.51 | 1,559.82       | 867,261.98 |
| 108         6AS         26.25         607.63         732         0.83         22.46         27.06         710.28           109         6CC         26.25         99,136.46         94,416         1.05         322.63         307.27         8,066.18           110         6CU         26.25         54,351.89         51,764         1.05         238.89         227.52         5,972.53           111         6ACC         26.25         68,858.85         65,580         1.05         268.89         256.09         6,722.50           112         795AL         795.00         211.02         56         3.80         28.32         7.45         5,924.31           113         8CC         16.51         5,561.72         6,701         0.83         67.94         81.86         1,351.41           114         8ACC         16.51         17,378.25         20,938         0.83         120.10         144.70         2,388.83           115         2AA         66.37         423.90         389         1.09         21.50         19.72         1,308.83           117         1/0AA         105.53         282.02         178         1.58         21.11         13.36         1,409.90 <td>106</td> <td>6AA</td> <td>26.25</td> <td>833.93</td> <td>1,005</td> <td>0.83</td> <td>26.31</td> <td>31.70</td> <td>832.09</td>   | 106  | 6AA              | 26.25                              | 833.93       | 1,005     | 0.83                | 26.31    | 31.70          | 832.09     |
| 109         6CC         26.25         99,136.46         94,416         1.05         322.63         307.27         8,066.18           110         6CU         26.25         54,351.89         51,764         1.05         238.89         227.52         5,972.53           111         6ACC         26.25         68,858.85         65,580         1.05         268.89         256.09         6,722.50           112         795AL         795.00         211.02         56         3.80         28.32         7.45         5,924.31           113         8CC         16.51         5,561.72         6,701         0.83         67.94         81.86         1,351.41           114         8ACC         16.51         17,378.25         20,938         0.83         120.10         144.70         2,388.83           115         2AA         66.37         423.90         389         1.09         21.50         19.72         1,308.83           116         556AL         556.00         10,911.51         3,897         2.80         174.79         62.43         34,708.68           117         1/0AA         105.53         191,923.62         178         1.58         21.11         13.36         1,409  | 107  | 6AL              | 26.25                              | 560.99       | 676       | 0.83                | 21.58    | 26.00          | 682.47     |
| 110         6CU         26.25         54,351.89         51,764         1.05         238.89         227.52         5,972.53           111         6ACC         26.25         68,858.85         65,580         1.05         268.89         256.09         6,722.50           112         795AL         795.00         211.02         56         3.80         28.32         7.45         5,924.31           113         8CC         16.51         5,561.72         6,701         0.83         67.94         81.86         1,351.41           114         8ACC         16.51         17,378.25         20,938         0.83         120.10         144.70         2,388.83           115         2AA         66.37         423.90         389         1.09         21.50         19.72         1,308.83           116         556AL         556.00         10,911.51         3,897         2.80         174.79         62.43         34,708.68           117         1/0AA         105.53         282.02         178         1.58         21.11         13.36         1,409.90           118         1/OCU         105.53         191,923.62         121,471         1.58         550.67         348.53         36,7  | 108  | 6AS              | 26.25                              | 607.63       | 732       | 0.83                | 22.46    | 27.06          | 710.28     |
| 111       6ACC       26.25       68,858.85       65,580       1.05       268.89       256.09       6,722.50         112       795AL       795.00       211.02       56       3.80       28.32       7.45       5,924.31         113       8CC       16.51       5,561.72       6,701       0.83       67.94       81.86       1,351.41         114       8ACC       16.51       17,378.25       20,938       0.83       120.10       144.70       2,388.83         115       2AA       66.37       423.90       389       1.09       21.50       19.72       1,308.83         116       556AL       556.00       10,911.51       3,897       2.80       174.79       62.43       34,708.68         117       1/0AA       105.53       282.02       178       1.58       21.11       13.36       1,409.90         118       1/OAL       105.53       191,923.62       121,471       1.58       550.67       348.53       36,780.34         119       1/OCU       105.53       11,268.21       3,304       3.41       196.02       57.48       6,066.39         120       2AA       66.37       37,933.99       34,802       1.09<   | 109  | 6CC              | 26.25                              | 99,136.46    | 94,416    | 1.05                | 322.63   | 307.27         | 8,066.18   |
| 112       795AL       795.00       211.02       56       3.80       28.32       7.45       5,924.31         113       8CC       16.51       5,561.72       6,701       0.83       67.94       81.86       1,351.41         114       8ACC       16.51       17,378.25       20,938       0.83       120.10       144.70       2,388.83         115       2AA       66.37       423.90       389       1.09       21.50       19.72       1,308.83         116       556AL       556.00       10,911.51       3,897       2.80       174.79       62.43       34,708.68         117       1/0AA       105.53       282.02       178       1.58       21.11       13.36       1,409.90         118       1/0AL       105.53       191,923.62       121,471       1.58       550.67       348.53       36,780.34         119       1/0CU       105.53       11,268.21       3,304       3.41       196.02       57.48       6,066.39         120       2AA       66.37       37,933.99       34,802       1.09       203.34       186.55       12,381.30         121       2AL       66.37       18,504.76       16,977       1.09<   | 110  | 6CU              | 26.25                              | 54,351.89    | 51,764    | 1.05                | 238.89   | 227.52         | 5,972.53   |
| 113       8CC       16.51       5,561.72       6,701       0.83       67.94       81.86       1,351.41         114       8ACC       16.51       17,378.25       20,938       0.83       120.10       144.70       2,388.83         115       2AA       66.37       423.90       389       1.09       21.50       19.72       1,308.83         116       556AL       556.00       10,911.51       3,897       2.80       174.79       62.43       34,708.68         117       1/0AA       105.53       282.02       178       1.58       21.11       13.36       1,409.90         118       1/OAL       105.53       191,923.62       121,471       1.58       550.67       348.53       36,780.34         119       1/OCU       105.53       11,268.21       3,304       3.41       196.02       57.48       6,066.39         120       2AA       66.37       37,933.99       34,802       1.09       203.34       186.55       12,381.30         121       2AL       66.37       18,504.76       16,977       1.09       142.02       130.30       8,647.56         122       2CU       66.37       3,162.92       1,083  | 111  | 6ACC             | 26.25                              | 68,858.85    | 65,580    | 1.05                | 268.89   | 256.09         | 6,722.50   |
| 114       8ACC       16.51       17,378.25       20,938       0.83       120.10       144.70       2,388.83         115       2AA       66.37       423.90       389       1.09       21.50       19.72       1,308.83         116       556AL       556.00       10,911.51       3,897       2.80       174.79       62.43       34,708.68         117       1/0AA       105.53       282.02       178       1.58       21.11       13.36       1,409.90         118       1/0AL       105.53       191,923.62       121,471       1.58       550.67       348.53       36,780.34         119       1/0CU       105.53       11,268.21       3,304       3.41       196.02       57.48       6,066.39         120       2AA       66.37       37,933.99       34,802       1.09       203.34       186.55       12,381.30         121       2AL       66.37       18,504.76       16,977       1.09       142.02       130.30       8,647.56         122       2CU       66.37       3,162.92       1,083       2.92       96.10       32.91       2,184.33   | 112  | 795AL            | 795.00                             | 211.02       | 56        | 3.80                | 28.32    | 7.45           | 5,924.31   |
| 115       2AA       66.37       423.90       389       1.09       21.50       19.72       1,308.83         116       556AL       556.00       10,911.51       3,897       2.80       174.79       62.43       34,708.68         117       1/0AA       105.53       282.02       178       1.58       21.11       13.36       1,409.90         118       1/0AL       105.53       191,923.62       121,471       1.58       550.67       348.53       36,780.34         119       1/0CU       105.53       11,268.21       3,304       3.41       196.02       57.48       6,066.39         120       2AA       66.37       37,933.99       34,802       1.09       203.34       186.55       12,381.30         121       2AL       66.37       18,504.76       16,977       1.09       142.02       130.30       8,647.56         122       2CU       66.37       3,162.92       1,083       2.92       96.10       32.91       2,184.33   | 113  | 8CC              | 16.51                              | 5,561.72     | 6,701     | 0.83                | 67.94    | 81.86          | 1,351.41   |
| 116       556AL       556.00       10,911.51       3,897       2.80       174.79       62.43       34,708.68         117       1/0AA       105.53       282.02       178       1.58       21.11       13.36       1,409.90         118       1/0AL       105.53       191,923.62       121,471       1.58       550.67       348.53       36,780.34         119       1/0CU       105.53       11,268.21       3,304       3.41       196.02       57.48       6,066.39         120       2AA       66.37       37,933.99       34,802       1.09       203.34       186.55       12,381.30         121       2AL       66.37       18,504.76       16,977       1.09       142.02       130.30       8,647.56         122       2CU       66.37       3,162.92       1,083       2.92       96.10       32.91       2,184.33  | 114  | 8ACC             | 16.51                              | 17,378.25    | 20,938    | 0.83                | 120.10   | 144.70         | 2,388.83   |
| 117       1/0AA       105.53       282.02       178       1.58       21.11       13.36       1,409.90         118       1/0AL       105.53       191,923.62       121,471       1.58       550.67       348.53       36,780.34         119       1/0CU       105.53       11,268.21       3,304       3.41       196.02       57.48       6,066.39         120       2AA       66.37       37,933.99       34,802       1.09       203.34       186.55       12,381.30         121       2AL       66.37       18,504.76       16,977       1.09       142.02       130.30       8,647.56         122       2CU       66.37       3,162.92       1,083       2.92       96.10       32.91       2,184.33   | 115  | 2AA              | 66.37                              | 423.90       | 389       | 1.09                | 21.50    | 19.72          | 1,308.83   |
| 118       1/OAL       105.53       191,923.62       121,471       1.58       550.67       348.53       36,780.34         119       1/OCU       105.53       11,268.21       3,304       3.41       196.02       57.48       6,066.39         120       2AA       66.37       37,933.99       34,802       1.09       203.34       186.55       12,381.30         121       2AL       66.37       18,504.76       16,977       1.09       142.02       130.30       8,647.56         122       2CU       66.37       3,162.92       1,083       2.92       96.10       32.91       2,184.33   | 116  | 556AL            | 556.00                             | 10,911.51    | 3,897     | 2.80                | 174.79   | 62.43          | 34,708.68  |
| 119       1/0CU       105.53       11,268.21       3,304       3.41       196.02       57.48       6,066.39         120       2AA       66.37       37,933.99       34,802       1.09       203.34       186.55       12,381.30         121       2AL       66.37       18,504.76       16,977       1.09       142.02       130.30       8,647.56         122       2CU       66.37       3,162.92       1,083       2.92       96.10       32.91       2,184.33  | 117  | 1/0AA            | 105.53                             | 282.02       | 178       | 1.58                | 21.11    | 13.36          | 1,409.90   |
| 120     2AA     66.37     37,933.99     34,802     1.09     203.34     186.55     12,381.30       121     2AL     66.37     18,504.76     16,977     1.09     142.02     130.30     8,647.56       122     2CU     66.37     3,162.92     1,083     2.92     96.10     32.91     2,184.33  | 118  | 1/0AL            | 105.53                             | 191,923.62   | 121,471   | 1.58                | 550.67   | 348.53         | 36,780.34  |
| 121     2AL     66.37     18,504.76     16,977     1.09     142.02     130.30     8,647.56       122     2CU     66.37     3,162.92     1,083     2.92     96.10     32.91     2,184.33  | 119  | 1/0CU            | 105.53                             | 11,268.21    | 3,304     | 3.41                | 196.02   | 57.48          | 6,066.39   |
| 122 2CU 66.37 3,162.92 1,083 2.92 96.10 32.91 2,184.33   | 120  | 2AA              | 66.37                              | 37,933.99    | 34,802    | 1.09                | 203.34   | 186.55         | 12,381.30  |
| · · · · · · · · · · · · · · · · · · ·  | 121  | 2AL              | 66.37                              | 18,504.76    | 16,977    | 1.09                | 142.02   | 130.30         | 8,647.56   |
| 123 4CU 41.74 1,546.49 466 3.32 71.65 21.58 900.86   | 122  | 2CU              | 66.37                              | 3,162.92     | 1,083     | 2.92                | 96.10    | 32.91          | 2,184.33   |
|  | 123  | 4CU              | 41.74                              | 1,546.49     | 466       | 3.32                | 71.65    | 21.58          | 900.86     |

Percentage Classified as Demand-Related

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|            | ount 365 - Overhead Conductors and Devices  Area from Table of Conduct |        |    | MARY          |            | Actual<br>Unit Cost | Linear  | Regression Inp | outs       |
|------------|--|--------|----|---------------|------------|---------------------|---------|----------------|------------|
| #          | Description Area from Table of Conduct                                 | Sizes  |    | Cost          | Quantity   | (\$ per Unit)       | y*n^0.5 | n^0.5          | xn^0.5     |
| 124        | 4/0AL  | 211.59 |    | 36,559.57     | 19,344     | 1.89                | 262.86  | 139.08         | 29,428.55  |
| 125        | 500AL  | 500.00 |    | 450.83        | 161        | 2.80                | 35.53   | 12.69          | 6,344.52   |
| 126        | 6AL  | 26.25  |    | 505.06        | 609        | 0.83                | 20.47   | 24.67          | 647.56     |
| 127        | 6CC  | 26.25  |    | 257.25        | 245        | 1.05                | 16.44   | 15.65          | 410.89     |
| 128        | 6CU  | 26.25  |    | 367.50        | 350        | 1.05                | 19.64   | 18.71          | 491.11     |
| 129        | 750AL  | 750.00 |    | 25,103.57     | 6,606      | 3.80                | 308.86  | 81.28          | 60,958.91  |
| 130        | 750CU  | 750.00 |    | 1,140.00      | 300        | 3.80                | 65.82   | 17.32          | 12,990.38  |
| 131        | 1/0AA  | 105.53 |    | 9,665.54      | 6,117      | 1.58                | 123.58  | 78.21          | 8,254.00   |
| 132        | 1/0AL  | 105.53 |    | 418.70        | 265        | 1.58                | 25.72   | 16.28          | 1,717.92   |
| 133        | 1/0AS  | 105.53 |    | 1,308.99      | 828        | 1.58                | 45.48   | 28.78          | 3,037.52   |
| 134        | 2AA  | 66.37  |    | 27,987.29     | 25,676     | 1.09                | 174.66  | 160.24         | 10,634.88  |
| 135        | 2AL  | 66.37  |    | 1,075.83      | 987        | 1.09                | 34.24   | 31.42          | 2,085.08   |
| 136        | 2AS  | 66.37  |    | 5,937.39      | 5,447      | 1.09                | 80.45   | 73.80          | 4,898.35   |
| 137        | 3/0AS  | 167.80 |    | 556.92        | 252        | 2.21                | 35.08   | 15.87          | 2,663.74   |
| 138        | 4CU  | 41.74  |    | 27,174.15     | 8,185      | 3.32                | 300.36  | 90.47          | 3,776.26   |
| 139        | 4/0AA  | 211.59 |    | 68,665.81     | 36,331     | 1.89                | 360.25  | 190.61         | 40,330.97  |
| 140        | 4/0AL  | 211.59 |    | 2,666.08      | 1,411      | 1.89                | 70.99   | 37.56          | 7,947.03   |
| 141        | 4/0AS  | 211.59 |    | 563.57        | 298        | 1.89                | 32.64   | 17.27          | 3,653.79   |
| 142        | 4ACC   | 41.74  |    | 5,137.71      | 1,548      | 3.32                | 130.60  | 39.34          | 1,641.98   |
| 143        | 556AL  | 556.00 |    | 98,534.73     | 35,191     | 2.80                | 525.26  | 187.59         | 104,301.47 |
| 144        | 6CC  | 26.25  |    | 852.60        | 812        | 1.05                | 29.92   | 28.50          | 748.04     |
| 145        | 6ACC   | 26.25  |    | 158.55        | 151        | 1.05                | 12.90   | 12.29          | 322.58     |
| 146        | TOTAL  | 20.20  | \$ | 68,459,133.83 | 42,863,703 |                     | .2.00   |                | 022.00     |
| 147        |  |        | *  |               | -,,        |                     |         |                |            |
| 148        | Zero Intercept Linear Regression Results                               |        |    |               |            |                     | LINEST  | Array          |            |
| 149        |  |        |    |               |            | •                   |         |                |            |
| 150        | Size Coefficient (\$ per MCM)  |        |    | 0.00282       |            |                     | 0.00282 | 1.29842        |            |
| 151        | Zero Intercept (\$ per Unit)   |        |    | 1.29842       |            |                     | 0.00054 | 0.08754        |            |
| 152        | R-Square   |        |    | 0.8078        |            |                     | 0.80779 | 436.75140      |            |
| 153        | DI . OI . III . I  |        |    |               |            |                     |         |                |            |
| 154        | Plant Classification   |        |    |               |            |                     |         |                |            |
| 155<br>156 | Total Number of Units  |        |    | 42,863,703    |            |                     |         |                |            |
| 157        | Zero Intercept (\$/Unit)   |        | \$ | 1.30          |            |                     |         |                |            |
| 158        | Minimum System (\$/Unit)   |        | \$ | 0.83          |            |                     |         |                |            |
| 159        | Use Min System (M) or Zero Intercept (Z)?                              |        | Ψ  | Z             |            |                     |         |                |            |
| 160        | Zero Intercept or Min System Cost (\$)                                 |        | \$ | 55,655,089    |            |                     |         |                |            |
| 161        | Total Cost of Sample   |        | \$ | 68,459,134    |            |                     |         |                |            |
| 162        | Percentage of Total  |        |    | 0.8130        |            |                     |         |                |            |
| 163        | Percentage Classified as Customer-Related                              |        |    | 81.30%        |            |                     |         |                |            |
| 161        | Percentage Classified as Demand Related                                |        |    | 19 700/       |            |                     |         |                |            |

18.70%

**Account 365 - Overhead Conductors and Devices** 

**SECONDARY** 

|    |             | and Devices SE | CONDARY      |          |                  |          |               |           |
|----|-------------|----------------|--------------|----------|------------------|----------|---------------|-----------|
|    |             |                |              |          | Actual Unit Cost | Linear R | egression Inp | outs      |
| #  | Description | Size           | Cost         | Quantity | (\$ per Unit)    | y*n^0.5  | n^0.5         | xn^0.5    |
| 1  | 1/0AA       | 105.53 \$      | 2,049.26     | 1,297    | 1.58             | 56.90    | 36.01         | 3,800.58  |
| 2  | 1/0AL       | 105.53         | 821.60       | 520      | 1.58             | 36.03    | 22.80         | 2,406.47  |
| 3  | 2AA         | 66.37          | 141,083.14   | 129,434  | 1.09             | 392.15   | 359.77        | 23,877.54 |
| 4  | 2AL         | 66.37          | 11,264.53    | 10,334   | 1.09             | 110.81   | 101.66        | 6,746.97  |
| 5  | 2AS         | 66.37          | 4,609.18     | 4,229    | 1.09             | 70.88    | 65.03         | 4,315.83  |
| 6  | 2CU         | 66.37          | 694.81       | 238      | 2.92             | 45.04    | 15.43         | 1,023.78  |
| 7  | 336AL       | 336.00         | 439.25       | 175      | 2.51             | 33.20    | 13.23         | 4,444.86  |
| 8  | 4AA         | 41.74          | 483.89       | 583      | 0.83             | 20.04    | 24.15         | 1,007.83  |
| 9  | 4AL         | 41.74          | 382.58       | 461      | 0.83             | 17.82    | 21.47         | 896.13    |
| 10 | 4AS         | 41.74          | 710.48       | 856      | 0.83             | 24.28    | 29.26         | 1,221.21  |
| 11 | 4CU         | 41.74          | 27,674.96    | 8,336    | 3.32             | 303.12   | 91.30         | 3,810.89  |
| 12 | 4CW         | 41.74          | 315.40       | 95       | 3.32             | 32.36    | 9.75          | 406.83    |
| 13 | 4/0AA       | 211.59         | 3,247.01     | 1,718    | 1.89             | 78.34    | 41.45         | 8,770.22  |
| 14 | 6CC         | 26.25          | 1,220.10     | 1,162    | 1.05             | 35.79    | 34.09         | 894.85    |
| 15 | 6CU         | 26.25          | 888.30       | 846      | 1.05             | 30.54    | 29.09         | 763.54    |
| 16 | 6ACC        | 26.25          | 1,082.55     | 1,031    | 1.05             | 33.71    | 32.11         | 842.90    |
| 17 | 8ACC        | 16.51          | 553.50       | 270      | 2.05             | 33.68    | 16.43         | 271.27    |
| 18 | 1AA         | 83.69          | 502.44       | 318      | 1.58             | 28.18    | 17.83         | 1,492.40  |
| 19 | 1/0AA       | 105.53         | 34,093.61    | 21,578   | 1.58             | 232.09   | 146.90        | 15,502.01 |
| 20 | 1/0AL       | 105.53         | 14,351.58    | 9,083    | 1.58             | 150.58   | 95.31         | 10,057.76 |
| 21 | 1/0AS       | 105.53         | 82,388.14    | 52,144   | 1.58             | 360.80   | 228.35        | 24,098.16 |
| 22 | 1/0CC       | 105.53         | 272.80       | 80       | 3.41             | 30.50    | 8.94          | 943.90    |
| 23 | 1/0CU       | 105.53         | 634.26       | 186      | 3.41             | 46.51    | 13.64         | 1,439.25  |
| 24 | 2A5         | 66.37          | 170.04       | 156      | 1.09             | 13.61    | 12.49         | 828.95    |
| 25 | 2AA         | 66.37          | 119,867.75   | 109,970  | 1.09             | 361.46   | 331.62        | 22,009.15 |
| 26 | 2AL         | 66.37          | 15,637.23    | 14,346   | 1.09             | 130.55   | 119.78        | 7,949.36  |
| 27 | 2AS         | 66.37          | 200,762.59   | 184,186  | 1.09             | 467.79   | 429.17        | 28,483.50 |
| 28 | 2CC         | 66.37          | 1,305.81     | 447      | 2.92             | 61.75    | 21.15         | 1,403.51  |
| 29 | 2CU         | 66.37          | 45,565.22    | 15,605   | 2.92             | 364.76   | 124.92        | 8,290.69  |
| 30 | 2CW         | 66.37          | 440.92       | 151      | 2.92             | 35.88    | 12.29         | 815.56    |
| 31 | 3/0AL       | 167.80         | 230.64       | 124      | 1.86             | 20.71    | 11.14         | 1,868.54  |
| 32 | 3/0AS       | 167.80         | 1,550.56     | 834      | 1.86             | 53.70    | 28.87         | 4,844.85  |
| 33 | 336AL       | 336.00         | 960.85       | 383      | 2.51             | 49.11    | 19.57         | 6,574.01  |
| 34 | 336AS       | 336.00         | 321.28       | 128      | 2.51             | 28.40    | 11.31         | 3,801.40  |
| 35 | 4AA         | 41.74          | 2,559.65     | 3,084    | 0.83             | 46.09    | 55.53         | 2,317.95  |
| 36 | 4AL         | 41.74          | 18,938.72    | 22,818   | 0.83             | 125.38   | 151.06        | 6,305.05  |
| 37 | 4AS         | 41.74          | 27,558.86    | 33,203   | 0.83             | 151.24   | 182.22        | 7,605.78  |
| 38 | 4CU         | 41.74          | 1,407,423.39 | 423,923  | 3.32             | 2,161.63 | 651.09        | 27,176.64 |
| 39 | 4CW         | 41.74          | 10,720.26    | 3,229    |                  | 188.66   | 56.82         | 2,371.84  |
| 40 | 4/0AA       | 211.59         | 1,408.05     | 745      | 1.89             | 51.59    | 27.29         | 5,775.33  |
| 41 | 4/0AL       | 211.59         | 2,701.88     | 1,430    | 1.89             | 71.46    | 37.81         | 8,000.20  |
| 42 | 4/0AS       | 211.59         | 923.85       | 489      | 1.89             | 41.79    | 22.11         | 4,678.10  |
| 43 | 4/0CU       | 211.59         | 504.63       | 89       | 5.67             | 53.49    | 9.43          | 1,996.15  |
| 44 | 4ACC        | 41.74          | 6,837.73     | 2,060    | 3.32             | 150.67   | 45.38         | 1,894.26  |
| 45 | 556AL       | 556.00         | 1,089.40     | 260      | 4.19             | 67.56    | 16.12         | 8,965.22  |
| 46 | 6AL         | 26.25          | 917.15       | 1,105    | 0.83             | 27.59    | 33.24         | 872.62    |
| 47 | 6AS         | 26.25          | 654.04       | 788      | 0.83             | 23.30    | 28.07         | 736.90    |
| 48 | 6CC         | 26.25          | 51,517.14    | 49,064   | 1.05             | 232.58   | 221.50        | 5,814.70  |
| 49 | 6CU         | 26.25          | 31,286.53    | 29,797   | 1.05             | 181.25   | 172.62        | 4,531.37  |
| 50 | 6CW         | 26.25          | 11,684.86    | 11,128   | 1.05             | 110.77   | 105.49        | 2,769.26  |
| 51 | 6AAL        | 26.25          | 1,513.92     | 1,824    | 0.83             | 35.45    | 42.71         | 1,121.13  |
| 52 | 6ACC        | 26.25          | 42,869.49    | 40,828   | 1.05             | 212.16   | 202.06        | 5,304.27  |
| 53 | 8CC         | 16.51          | 533.52       | 260      | 2.05             | 33.07    | 16.13         | 266.33    |
| 54 | 8CU         | 16.51          | 869.25       | 285      | 3.05             | 51.49    | 16.88         | 278.70    |
| 55 | 8ACC        | 16.51          | 2,130.30     | 526      | 4.05             | 92.89    | 22.93         | 378.63    |
| 56 | 1/0AA       | 105.53         | 227.50       | 144      | 1.58             | 18.96    | 12.00         | 1,266.31  |
| 57 | 1/0AL       | 105.53         | 496.12       | 314      | 1.58             | 28.00    | 17.72         | 1,870.01  |
| 58 | 2AL         | 66.37          | 78.48        | 72       | 1.09             | 9.25     | 8.49          | 563.16    |
| 59 | 4CU         | 41.74          | 1,152.29     | 347      | 3.32             | 61.85    | 18.63         | 777.61    |
| 60 | 4/0AL       | 211.59         | 132.30       | 70       | 1.89             | 15.81    | 8.37          | 1,770.30  |
| 61 | 1/0AA       | 105.53         | 33,419.93    | 21,152   | 1.58             | 229.79   | 145.44        | 15,348.09 |
| 62 | 1/0AL       | 105.53         | 154,722.24   | 97,925   | 1.58             | 494.43   | 312.93        | 33,023.86 |
| 63 | 1/0AS       | 105.53         | 89,041.78    | 56,356   | 1.58             | 375.08   | 237.39        | 25,052.35 |
|    |             |                |              |          |                  |          |               |           |

| Account    | account 365 - Overhead Conductors and Devices |                 | SECONDARY                 |                  | Actori           | Linear Regression Inputs |                 |                       |  |
|------------|---|-----------------|---------------------------|------------------|------------------|--------------------------|-----------------|-----------------------|--|
|            |   |                 |                           |                  | Actual Unit Cost | Linear R                 | egression inp   | uts                   |  |
| #          | Description                                   | Size            | Cost                      | Quantity         | (\$ per Unit)    | y*n^0.5                  | n^0.5           | xn^0.5                |  |
| 65         | 1/0Unknown                                    | 105.53          | 379.20                    | 240              | 1.58             | 24.48                    | 15.49           | 1,634.88              |  |
| 66         | 2A5   | 66.37           | 207.10                    | 190              | 1.09             | 15.02                    | 13.78           | 914.83                |  |
| 67         | 2AA   | 66.37           | 130,226.55                | 119,474          | 1.09             | 376.76                   | 345.65          | 22,940.44             |  |
| 68         | 2AL   | 66.37           | 54,641.92                 | 50,130           | 1.09             | 244.05                   | 223.90          | 14,859.87             |  |
| 69         | 2AS   | 66.37           | 229,953.53                | 210,967          | 1.09             | 500.65                   | 459.31          | 30,484.01             |  |
| 70<br>74   | 2CC   | 66.37           | 601.52                    | 206              | 2.92             | 41.91                    | 14.35           | 952.57                |  |
| 71<br>72   | 2CU<br>2CW                                    | 66.37<br>66.37  | 73,102.02<br>1,457.08     | 25,035<br>499    | 2.92<br>2.92     | 462.02<br>65.23          | 158.22<br>22.34 | 10,501.19<br>1,482.57 |  |
| 72<br>73   | 2/0AA   | 133.07          | 996.96                    | 536              | 1.86             | 43.06                    | 23.15           | 3,080.84              |  |
| 73<br>74   | 2/0AL   | 133.07          | 2,153.88                  | 1,158            | 1.86             | 63.29                    | 34.03           | 4,528.36              |  |
| 75<br>75   | 2/0AS   | 133.07          | 2,730.47                  | 1,468            | 1.86             | 71.26                    | 38.31           | 5,098.58              |  |
| 76         | 3/0AA   | 167.80          | 180.42                    | 97               | 1.86             | 18.32                    | 9.85            | 1,652.64              |  |
| 77         | 3/0AL   | 167.80          | 18,179.12                 | 9,774            | 1.86             | 183.88                   | 98.86           | 16,589.07             |  |
| 78         | 3/0AS   | 167.80          | 4,882.13                  | 2,625            | 1.86             | 95.29                    | 51.23           | 8,596.87              |  |
| 79         | 336AL   | 336.00          | 557.51                    | 222              | 2.51             | 37.41                    | 14.90           | 5,007.60              |  |
| 80         | 336AL   | 336.00          | 2,715.96                  | 1,082            | 2.51             | 82.57                    | 32.89           | 11,052.59             |  |
| 81         | 336AS   | 336.00          | 604.91                    | 241              | 2.51             | 38.97                    | 15.52           | 5,216.12              |  |
| 82         | 336CU   | 336.00          | 404.11                    | 161              | 2.51             | 31.85                    | 12.69           | 4,263.36              |  |
| 83         | 350AL   | 350.00          | 988.94                    | 394              | 2.51             | 49.82                    | 19.85           | 6,947.29              |  |
| 84         | 4AA   | 41.74           | 4,794.49                  | 5,776            | 0.83             | 63.08                    | 76.00           | 3,172.37              |  |
| 85         | 4AL   | 41.74           | 26,503.40                 | 31,932           | 0.83             | 148.32                   | 178.69          | 7,458.72              |  |
| 86<br>87   | 4AS<br>4CU                                    | 41.74<br>41.74  | 17,049.98<br>1,259,244.71 | 20,542           | 0.83             | 118.96                   | 143.33          | 5,982.40              |  |
| 87<br>88   | 4CU<br>4CW                                    | 41.74           | 3,821.31                  | 379,291<br>1,151 | 3.32<br>3.32     | 2,044.67<br>112.64       | 615.87<br>33.93 | 25,706.23<br>1,416.09 |  |
| 89         | 4/0AA   | 211.59          | 2,775.49                  | 1,151            | 1.89             | 72.43                    | 38.32           | 8,108.45              |  |
| 90         | 4/0AL   | 211.59          | 16,894.78                 | 8,939            | 1.89             | 178.69                   | 94.55           | 20,005.28             |  |
| 91         | 4/0AS   | 211.59          | 922.32                    | 488              | 1.89             | 41.75                    | 22.09           | 4,674.22              |  |
| 92         | 4/0CU   | 211.59          | 8,383.32                  | 2,525            | 3.32             | 166.83                   | 50.25           | 10,632.57             |  |
| 93         | 4ACC  | 41.74           | 3,817.99                  | 1,150            | 3.32             | 112.59                   | 33.91           | 1,415.47              |  |
| 94         | 500AL   | 500.00          | 4,774.92                  | 1,140            | 4.19             | 141.45                   | 33.76           | 16,878.98             |  |
| 95         | 6CC   | 26.25           | 35,351.71                 | 33,668           | 1.05             | 192.66                   | 183.49          | 4,816.78              |  |
| 96         | 6CU   | 26.25           | 69,884.23                 | 66,556           | 1.05             | 270.88                   | 257.99          | 6,772.37              |  |
| 97         | 6CW   | 26.25           | 6,453.73                  | 6,146            | 1.05             | 82.32                    | 78.40           | 2,058.05              |  |
| 98         | 6ACC  | 26.25           | 31,304.84                 | 29,814           | 1.05             | 181.30                   | 172.67          | 4,532.70              |  |
| 99         | 750AL   | 750.00          | 2,451.79                  | 247              | 9.94             | 156.11                   | 15.71           | 11,779.03             |  |
| 100        | 8CC   | 16.51           | 1,226.65                  | 402              | 3.05             | 61.17                    | 20.05           | 331.08                |  |
| 101<br>102 | 8ACC<br>1/0AL                                 | 16.51<br>105.53 | 2,203.20<br>1,565.90      | 544<br>991       | 4.05<br>1.58     | 94.46<br>49.74           | 23.32<br>31.48  | 385.05<br>3,322.25    |  |
| 102        | 1/0AS   | 105.53          | 758.40                    | 480              | 1.58             | 34.62                    | 21.91           | 2,312.07              |  |
| 104        | 2AA   | 66.37           | 1,080.58                  | 991              | 1.09             | 34.32                    | 31.49           | 2,089.68              |  |
| 105        | 2AL   | 66.37           | 925.40                    | 849              | 1.09             | 31.76                    | 29.14           | 1,933.82              |  |
| 106        | 2AS   | 66.37           | 966.55                    | 887              | 1.09             | 32.46                    | 29.78           | 1,976.35              |  |
| 107        | 2CU   | 66.37           | 338.72                    | 116              | 2.92             | 31.45                    | 10.77           | 714.82                |  |
| 108        | 2/0AA   | 133.07          | 154.38                    | 83               | 1.86             | 16.95                    | 9.11            | 1,212.34              |  |
| 109        | 2/0AL   | 133.07          | 1,112.28                  | 598              | 1.86             | 45.48                    | 24.45           | 3,254.14              |  |
| 110        | 2/0AL   | 133.07          | 109.74                    | 59               | 1.86             | 14.29                    | 7.68            | 1,022.14              |  |
| 111        | 3/0AL   | 167.80          | 2,392.68                  | 314              | 7.62             | 135.03                   | 17.72           | 2,973.42              |  |
| 112        | 336AA   | 336.00          | 80.32                     | 32               | 2.51             | 14.20                    | 5.66            | 1,900.70              |  |
| 113        | 336AL   | 336.00          | 1,459.63                  | 582              | 2.51             | 60.53                    | 24.11           | 8,102.59              |  |
| 114        | 4CU   | 41.74           | 1,553.76                  | 468              | 3.32             | 71.82                    | 21.63           | 902.97                |  |
| 115<br>116 | 4/0AL<br>6CC                                  | 211.59<br>26.25 | 1,224.72<br>453.60        | 648<br>432       | 1.89<br>1.05     | 48.11<br>21.82           | 25.46<br>20.78  | 5,386.25<br>545.62    |  |
| 117        | 6CU   | 26.25           | 108.15                    | 103              | 1.05             | 10.66                    | 10.15           | 266.42                |  |
| 118        | 750AL   | 750.00          | 2,862.71                  | 288              | 9.94             | 168.69                   | 16.13           | 12,727.91             |  |
| 119        | 1/0AL   | 105.53          | 257.54                    | 163              | 1.58             | 20.17                    | 12.77           | 1,347.33              |  |
| 120        | 2AA   | 66.37           | 318.28                    | 292              | 1.09             | 18.63                    | 17.09           | 1,134.11              |  |
| 121        | 2AL   | 66.37           | 374.96                    | 344              | 1.09             | 20.22                    | 18.55           | 1,230.96              |  |
| 122        | 2AS   | 66.37           | 155.87                    | 143              | 1.09             | 13.03                    | 11.96           | 793.66                |  |
| 123        | 336AL   | 336.00          | 753.00                    | 300              | 2.51             | 43.47                    | 17.32           | 5,819.68              |  |
| 124        | 4CU   | 41.74           | 1,371.16                  | 413              | 3.32             | 67.47                    | 20.32           | 848.26                |  |
| 125        | 4/0AL   | 211.59          | 60.48                     | 32               | 1.89             | 10.69                    | 5.66            | 1,196.94              |  |
| 126        | 1/0AL   | 105.53          | 760.14                    | 246              | 3.09             | 48.46                    | 15.68           | 1,655.19              |  |
| 127        | 4AL   | 41.74           | 1,758.90                  | 1,353            | 1.30             | 47.82                    | 36.78           | 1,535.33              |  |
| 128        | 1/0AL   | 105.53          | 9,881.56                  | 3,198            | 3.09             | 174.74                   | 56.55           | 5,967.79              |  |

Account 365 - Overhead Conductors and

**SECONDARY** 

|                 | nt 365 - Overhead Conductors and | <u>-</u>          | CONDARY               |                | Actual           | Linear Regression Inputs |                       |                       |  |
|-----------------|----------------------------------|-------------------|-----------------------|----------------|------------------|--------------------------|-----------------------|-----------------------|--|
| Device:         |                                  | Ci                | 01                    | O              | Actual Unit Cost |                          |                       |                       |  |
| <b>#</b><br>129 | Description                      | <b>Size</b> 66.37 | 2 092 51              | Quantity 2,064 | (\$ per Unit)    | <b>y*n^0.5</b><br>87.68  | <b>n^0.5</b><br>45.43 | xn^0.                 |  |
| 30              | 2AL<br>2/0AL                     | 133.07            | 3,983.51<br>18,608.58 | 4,723          | 1.93<br>3.94     | 270.77                   | 68.72                 | 3,015.22<br>9,145.24  |  |
| 30<br>31        |                                  | 336.00            | 93,374.65             | 11,672         | 8.00             | 864.29                   | 108.04                | 9,145.24<br>36,300.18 |  |
|                 | 336AL                            |                   | ·                     |                |                  |                          |                       |                       |  |
| 32              | 350AL                            | 350.00            | 225.77                | 28             | 8.00             | 42.50                    | 5.31                  | 1,859.34              |  |
| 33              | 4AL                              | 41.74             | 716.86                | 491            | 1.46             | 32.35                    | 22.16                 | 924.90                |  |
| 34              | 4/0AL                            | 211.59            | 172,701.33            | 30,840         | 5.60             | 983.43                   | 175.61                | 37,158.06             |  |
| 35              | 6CU                              | 26.25             | 4,280.39              | 435            | 9.84             | 205.23                   | 20.86                 | 547.51                |  |
| 36              | 750AL                            | 750.00            | 3,787.13              | 381            | 9.94             | 194.02                   | 19.52                 | 14,639.40             |  |
| 37              | 1AL                              | 83.69             | 414.06                | 134            | 3.09             | 35.77                    | 11.58                 | 968.78                |  |
| 38              | 1/0AL                            | 105.53            | 4,401,714.63          | 1,424,503      | 3.09             | 3,687.99                 | 1,193.53              | 125,953.94            |  |
| 39              | 2AL                              | 66.37             | 31,782.13             | 17,180         | 1.85             | 242.48                   | 131.07                | 8,699.03              |  |
| 40              | 2/0AL                            | 133.07            | 3,279.63              | 901            | 3.64             | 109.26                   | 30.02                 | 3,994.37              |  |
| 41              | 3/0AL                            | 167.80            | 5,090.15              | 668            | 7.62             | 196.94                   | 25.85                 | 4,336.90              |  |
| 42              | 336AL                            | 336.00            | 88,401.90             | 10,754         | 8.22             | 852.45                   | 103.70                | 34,844.49             |  |
| 43              | 350AL                            | 350.00            | 1,931.70              | 235            | 8.22             | 126.01                   | 15.33                 | 5,365.39              |  |
| 44              | 4AL                              | 41.74             | 9,553.65              | 6,544          | 1.46             | 118.10                   | 80.89                 | 3,376.45              |  |
| 45              | 4CU                              | 41.74             | 2,534.39              | 576            | 4.40             | 105.60                   | 24.00                 | 1,001.76              |  |
| 46              | 4/0AL                            | 211.59            | 652,155.49            | 446,682        | 1.46             | 975.78                   | 668.34                | 141,415.95            |  |
| 47              | 4/0Unknown                       | 211.59            | 765.06                | 311            | 2.46             | 43.38                    | 17.64                 | 3,731.46              |  |
| 48              | 500AL                            | 500.00            | 1,676.00              | 400            | 4.19             | 83.80                    | 20.00                 | 9,999.99              |  |
| 49              | 6CU                              | 26.25             | 4,398.47              | 447            | 9.84             | 208.04                   | 21.14                 | 555.01                |  |
| 50              | 1/0AL                            | 105.53            | 494.40                | 160            | 3.09             | 39.09                    | 12.65                 | 1,334.87              |  |
| 51              | 2AA                              | 66.37             | 231.94                | 159            | 1.46             | 18.40                    | 12.60                 | 836.52                |  |
| 52              | 2AL                              | 66.37             | 27,939.90             | 19,137         | 1.46             | 201.97                   | 138.34                | 9,181.24              |  |
| 53              | 2Unknown                         | 66.37             | 258.42                | 177            | 1.46             | 19.42                    | 13.30                 | 882.98                |  |
| 54              | 2/0AL                            | 133.07            | 29.20                 | 20             | 1.46             | 6.53                     | 4.47                  | 595.12                |  |
| 55              | 336AL                            | 336.00            | 1,088.00              | 136            | 8.00             | 93.30                    | 11.66                 | 3,918.40              |  |
| 56              | 4AA                              | 41.74             | 128.70                | 99             | 1.30             | 12.93                    | 9.95                  | 415.31                |  |
| 57              | 4AL                              | 41.74             | 2,576,933.40          | 1,982,256      | 1.30             | 1,830.30                 | 1,407.93              | 58,766.84             |  |
| 58              | 4CU                              | 41.74             | 14,801.57             | 3,364          | 4.40             | 255.20                   | 58.00                 | 2,420.92              |  |
| 59              | 4Unknown                         | 41.74             | 4,816.75              | 1,095          | 4.40             | 145.58                   | 33.09                 | 1,381.03              |  |
| 60              | 4/0AL                            | 211.59            | 35,433.95             | 4,650          | 7.62             | 519.62                   | 68.19                 | 14,428.84             |  |
| 61              | -                                | 26.25             | 1,110.17              |                | 1.09             | 34.79                    | 31.91                 | 837.77                |  |
| 62              | 6AL<br>6CC                       | 26.25             | 9,653.02              | 1,019<br>981   | 9.84             | 308.20                   | 31.32                 | 822.20                |  |
| 62<br>63        |                                  |                   |                       |                |                  |                          |                       |                       |  |
|                 | 6CW                              | 26.25             | 738.00                | 75             | 9.84             | 85.22                    | 8.66                  | 227.34                |  |
| 64              | 1/0AL                            | 105.53            | 14,710.63             | 4,761          | 3.09             | 213.20                   | 69.00                 | 7,281.43              |  |
| 65              | 2AL                              | 66.37             | 50,031.91             | 23,712         | 2.11             | 324.91                   | 153.99                | 10,219.92             |  |
| 66              | 2/0AL                            | 133.07            | 100,957.13            | 25,624         | 3.94             | 630.69                   | 160.07                | 21,301.35             |  |
| 67              | 3/0AL                            | 167.80            | 408.80                | 73             | 5.60             | 47.85                    | 8.54                  | 1,433.68              |  |
| 68              | 336AL                            | 336.00            | 81,263.79             | 10,158         | 8.00             | 806.29                   | 100.79                | 33,864.36             |  |
| 69              | 350AL                            | 350.00            | 698.21                | 87             | 8.00             | 74.74                    | 9.34                  | 3,269.76              |  |
| 70              | 4AL                              | 41.74             | 873.08                | 598            | 1.46             | 35.70                    | 24.45                 | 1,020.71              |  |
| 71              | 4/0AA                            | 211.59            | 1,198.40              | 214            | 5.60             | 81.92                    | 14.63                 | 3,095.32              |  |
| 72              | 4/0AL                            | 211.59            | 109,453.29            | 51,874         | 2.11             | 480.57                   | 227.76                | 48,191.72             |  |
| 73              | 556AL                            | 556.00            | 11,731.92             | 2,800          | 4.19             | 221.71                   | 52.91                 | 29,420.65             |  |
| 74              | 750AL                            | 750.00            | 467.18                | 47             | 9.94             | 68.15                    | 6.86                  | 5,141.74              |  |
| 75              | 1AL                              | 83.69             | 1,832.37              | 593            | 3.09             | 75.25                    | 24.35                 | 2,037.98              |  |
| 76              | 1/0AA                            | 105.53            | 927.49                | 300            | 3.09             | 53.53                    | 17.33                 | 1,828.33              |  |
| 77              | 1/0AL                            | 105.53            | 8,763,912.64          | 2,836,218      | 3.09             | 5,203.89                 | 1,684.11              | 177,725.54            |  |
| 78              | 1/0AL                            | 105.53            | 417.15                | 135            | 3.09             | 35.90                    | 11.62                 | 1,226.16              |  |
| 79              | 1/0XX                            | 105.53            | 398.61                | 129            | 3.09             | 35.10                    | 11.36                 | 1,198.60              |  |
| 80              | 2AA                              | 66.37             | 196.10                | 106            | 1.85             | 19.05                    | 10.30                 | 683.31                |  |
| 81              | 2AL                              | 66.37             | 5,819,940.61          | 3,145,914      | 1.85             | 3,281.29                 | 1,773.67              | 117,716.86            |  |

|          |                                      |        |               |            | Actual           | Linear   | Regression In | outs       |
|----------|--------------------------------------|--------|---------------|------------|------------------|----------|---------------|------------|
|          |                                      |        |               |            | <b>Unit Cost</b> |          |               |            |
| #        | Description                          | Size   | Cost          | Quantity   | (\$ per Unit)    | y*n^0.5  | n^0.5         | xn^0.5     |
| 82       | 2AL                                  | 66.37  | 3,093.53      | 1,672      | 1.85             | 75.65    | 40.89         | 2,713.98   |
| 83       | 2AL                                  | 66.37  | 342.25        | 185        | 1.85             | 25.16    | 13.60         | 902.72     |
| 84       | 2/0AL                                | 133.07 | 53,525.38     | 14,705     | 3.64             | 441.40   | 121.26        | 16,136.74  |
| 85       | 2AAL                                 | 66.37  | 190.55        | 103        | 1.85             | 18.78    | 10.15         | 673.57     |
| 86       | 3/0AL                                | 167.80 | 24,490.63     | 3,214      | 7.62             | 431.99   | 56.69         | 9,512.93   |
| 87       | 336AL                                | 336.00 | 5,416.23      | 659        | 8.22             | 211.00   | 25.67         | 8,624.86   |
| 88       | 350AL                                | 350.00 | 2,153.64      | 262        | 8.22             | 133.05   | 16.19         | 5,665.24   |
| 89       | 4AL                                  | 41.74  | 446,533.22    | 305,845    | 1.46             | 807.43   | 553.03        | 23,083.57  |
| 90       | 4CU                                  | 41.74  | 19,029.95     | 4,325      | 4.40             | 289.36   | 65.76         | 2,745.02   |
| 91       | 4/0AL                                | 211.59 | 2,235,582.56  | 293,384    | 7.62             | 4,127.36 | 541.65        | 114,608.58 |
| 92       | 4/0AL                                | 211.59 | 1,104.90      | 145        | 7.62             | 91.76    | 12.04         | 2,547.90   |
| 93       | 556AL                                | 556.00 | 519.56        | 124        | 4.19             | 46.66    | 11.14         | 6,191.35   |
| 94       | 6AL                                  | 26.25  | 1,221.89      | 1,121      | 1.09             | 36.49    | 33.48         | 878.92     |
| 95       | 6CC                                  | 26.25  | 3,426.94      | 348        | 9.84             | 183.63   | 18.66         | 489.89     |
| 96       | 750AL                                | 750.00 | 1,292.13      | 130        | 9.94             | 113.33   | 11.40         | 8,551.09   |
| 97       | 1/0AL                                | 105.53 | 750.87        | 243        | 3.09             | 48.17    | 15.59         | 1,645.06   |
| 98       | 1/0AA                                | 105.53 | 2,348.40      | 760        | 3.09             | 85.19    | 27.57         | 2,909.29   |
| 99       | 2AA                                  | 66.37  | 74.00         | 40         | 1.85             | 11.70    | 6.32          | 419.75     |
| 200      | 2AL                                  | 66.37  | 680.80        | 368        | 1.85             | 35.49    | 19.18         | 1,273.18   |
| :01      | 4AL                                  | 41.74  | 1,159.36      | 794        | 1.46             | 41.14    | 28.18         | 1,176.21   |
| 202      | 4CU                                  | 41.74  | 2,875.91      | 866        | 3.32             | 97.71    | 29.43         | 1,228.49   |
| 03       | 4/0AL                                | 211.59 | 8,991.34      | 1,180      | 7.62             | 261.75   | 34.35         | 7,268.32   |
| 04       | 500AL                                | 500.00 | 586.60        | 140        | 4.19             | 49.58    | 11.83         | 5,916.08   |
| 05       | 6CC                                  | 26.25  | 980.04        | 100        | 9.84             | 98.20    | 9.98          | 261.98     |
| 06       | 1/0AL                                | 105.53 | 14,337.22     | 4,640      | 3.09             | 210.48   | 68.12         | 7,188.42   |
| 07       | 1/0Unknown                           | 105.53 | 259.56        | 84         | 3.09             | 28.32    | 9.17          | 967.21     |
| 80       | 2AL                                  | 66.37  | 6,038.39      | 3,264      | 1.85             | 105.69   | 57.13         | 3,791.75   |
| 09       | 4AL                                  | 41.74  | 1,382.62      | 947        | 1.46             | 44.93    | 30.77         | 1,284.48   |
| 10       | 4/0AL                                | 211.59 | 2,407.43      | 316        | 7.62             | 135.44   | 17.77         | 3,760.96   |
| 11       | TOTAL                                | \$     | 30,669,582.89 | 13,127,234 | •                |          |               |            |
| 12<br>13 | Zero Intercept Linear Regression Res | ults   |               |            |                  | LINES    | Γ Array       |            |
| 14<br>15 | Size Coefficient (\$ per MCM)        |        | 0.01738       |            |                  | 0.01738  | 0.87122       |            |
| 16       | Zero Intercept (\$ per Unit)         |        | 0.87122       |            |                  | 0.00189  | 0.19067       |            |
| 147      | D. Course                            |        | 0.0072        |            |                  | 0.00700  | 004 44005     |            |

0.88732

291.44685

| 215 | Size Coefficient (\$ per MCM)             | 0.01738          |
|-----|---|------------------|
| 216 | Zero Intercept (\$ per Unit)              | 0.87122          |
| 217 | R-Square                                  | 0.8873           |
| 218 |   |                  |
| 219 | Plant Classification                      |                  |
| 220 |   |                  |
| 221 | Total Number of Units                     | 13,127,234       |
| 222 | Zero Intercept (\$/Unit)                  | \$<br>0.87       |
| 223 | Minimum System (\$/Unit)                  | \$<br>1.46       |
| 224 | Use Min System (M) or Zero Intercept (Z)? | Z                |
| 225 | Zero Intercept or Min System Cost (\$)    | \$<br>11,436,647 |
| 226 | Total Cost of Sample                      | \$<br>30,669,583 |
| 227 | Percentage of Total                       | <br>0.3729       |
| 228 | Percentage Classified as Customer-Related | 37.29%           |
| 229 | Percentage Classified as Demand-Related   | 62.71%           |
|     |   | ·                |

Percentage Classified as Demand-Related

58

### **PRIMARY**

| Area from Table of Co                      | onductor Sizes |  |           |               | Actual<br>Unit Cost | Linear   | Regression I | nputs    |
|--|----------------|--|-----------|---------------|---------------------|----------|--------------|----------|
| Description                                | Size           | Co   | st        | Quantity      | (\$ per Unit)       | y*n^0.5  | n^0.5        | xn^0     |
| 1/0AL                                      | 105.53         |  | 8,915.71  | 957           | 9.32                | 288.26   | 30.93        | 3,264.0  |
| 1/0AL                                      | 105.53         |  | 2,077.82  | 223           | 9.32                | 139.16   | 14.93        | 1,575.7  |
| 2AL  | 66.37          |  | 7,234.18  | 931           | 7.77                | 237.09   | 30.51        | 2,025.1  |
| 1/0AL                                      | 105.53         | 1  | 18,073.02 | 1,939         | 9.32                | 410.42   | 44.04        | 4,647.1  |
| 2AL  | 66.37          |  | 1,554.00  | 200           | 7.77                | 109.88   | 14.14        | 938.6    |
| 4/0AL                                      | 211.59         | 1  | 10,840.58 | 856           | 12.66               | 370.46   | 29.26        | 6,191.6  |
| 1/0AL                                      | 105.53         |  | 792.20    | 85            | 9.32                | 85.93    | 9.22         | 972.9    |
| 1/0AL                                      | 105.53         | 3,16   | 65,076.29 | 339,600       | 9.32                | 5,431.25 | 582.75       | 61,498.4 |
| 1/0CU                                      | 105.53         | ,  | 7,782.20  | 835           | 9.32                | 269.31   | 28.90        | 3,049.   |
| 2AL  | 66.37          | ç  | 91,308.17 | 11,751        | 7.77                | 842.30   | 108.40       | 7,194.0  |
| 2CU  | 66.37          |  | 17,368.51 | 2,235         | 7.77                | 367.36   | 47.28        | 3,137.   |
| 4/0AL                                      | 211.59         | ç  | 95,435.00 | 7,538         | 12.66               | 1,099.18 | 86.82        | 18,371.  |
| 500AL                                      | 500.00         |  | 7,711.20  | 272           | 28.35               | 467.56   | 16.49        | 8,246.   |
| 500CU                                      | 500.00         |  | 7,101.06  | 250           | 28.35               | 448.68   | 15.83        | 7,913.2  |
| 750AL                                      | 750.00         | 13   | 38,958.12 | 3,624         | 38.34               | 2,308.17 | 60.20        | 45,152.0 |
| 1/0AL                                      | 105.53         |  | 6,710.40  | 720           | 9.32                | 250.08   | 26.83        | 2,831.0  |
| 750AL                                      | 750.00         | 11   | 15,089.74 | 3,002         | 38.34               | 2,100.60 | 54.79        | 41,091.  |
| 750AL                                      | 750.00         | 2  | 13,785.05 | 1,142         | 38.34               | 1,295.65 | 33.79        | 25,345.  |
| 750AL                                      | 750.00         | 3  | 33,739.20 | 880           | 38.34               | 1,137.35 | 29.66        | 22,248.  |
| 1/0AL                                      | 105.53         |  | 70,516.90 | 93,403        | 9.32                | 2,848.37 | 305.62       | 32,252.  |
| 1/0CU                                      | 105.53         |  | 30,797.57 | 3,304         | 9.32                | 535.75   | 57.48        | 6,066.   |
| 2AL  | 66.37          | ç  | 96,172.14 | 12,377        | 7.77                | 864.44   | 111.25       | 7,383.   |
| 2CU  | 66.37          |  | 8,416.41  | 1,083         | 7.77                | 255.73   | 32.91        | 2,184.   |
| 4/0AL                                      | 211.59         | 24   | 10,077.72 | 18,963        | 12.66               | 1,743.38 | 137.71       | 29,137.  |
| 500AL                                      | 500.00         |  | 4,564.69  | 161           | 28.35               | 359.73   | 12.69        | 6,344.   |
| 750AL                                      | 750.00         | 21   | 14,213.34 | 5,587         | 38.34               | 2,865.82 | 74.75        | 56,060.  |
| 750CU                                      | 750.00         | 1  | 11,502.00 | 300           | 38.34               | 664.07   | 17.32        | 12,990.  |
| 1/0AL                                      | 105.53         | 2  | 22,396.99 | 1,711         | 13.09               | 541.46   | 41.36        | 4,365.   |
| 1/0AL                                      | 105.53         | 1  | 13,404.16 | 1,024         | 13.09               | 418.88   | 32.00        | 3,376.   |
| 1/0AL                                      | 105.53         | 1,67   | 79,726.58 | 128,321       | 13.09               | 4,689.10 | 358.22       | 37,803.  |
| 2AL  | 66.37          |  | 1,942.50  | 250           | 7.77                | 122.85   | 15.81        | 1,049.   |
| 4/0AL                                      | 211.59         | 1  | 17,761.95 | 970           | 18.32               | 570.44   | 31.14        | 6,588.   |
| 750AL                                      | 750.00         | 2  | 29,381.32 | 629           | 46.68               | 1,171.12 | 25.09        | 18,816.  |
| 750AL                                      | 750.00         | 11   | 11,912.39 | 2,397         | 46.68               | 2,285.62 | 48.96        | 36,722.  |
| 750AL                                      | 750.00         |  | 4,201.20  | 90            | 46.68               | 442.85   | 9.49         | 7,115.   |
| 1/0AL                                      | 105.53         | 36   | 67,404.13 | 28,068        | 13.09               | 2,193.02 | 167.53       | 17,680.  |
| 2AL  | 66.37          |  | 6,450.89  | 830           | 7.77                | 223.88   | 28.81        | 1,912.   |
| 4/0AL                                      | 211.59         |  | 1,741.98  | 95            | 18.32               | 178.64   | 9.75         | 2,063.   |
| 750AL                                      | 750.00         | 4  | 17,566.92 | 1,019         | 46.68               | 1,490.11 | 31.92        | 23,941.  |
| TOTAL                                      | •              | \$ 7,55  | 59,704.22 | \$ 677,626.64 |                     |          |              |          |
|  |                |  |           |               |                     |          |              |          |
| Zero Intercept Linear Regression Results   |                |  |           |               |                     | LINES    | Γ Array      |          |
|  |                |  |           |               |                     |          | _            |          |
| Size Coefficient (\$ per MCM)              |                |  | 0.04578   |               |                     | 0.04578  | 5.36852      |          |
| Zero Intercept (\$ per Unit)               |                |  | 5.36852   |               |                     | 0.00266  | 0.44292      |          |
| R-Square                                   |                |  | 0.9798    |               |                     | 0.97982  | 237.05845    |          |
|  |                |  |           |               |                     |          |              |          |
| Plant Classification                       |                |  |           |               |                     |          |              |          |
|  |                |  |           |               |                     |          |              |          |
| Total Number of Units                      |                | _  | 677,627   |               |                     |          |              |          |
| Zero Intercept (\$/Unit)                   |                | \$   | 5.37      |               |                     |          |              |          |
| Minimum System (\$/Unit)                   |                | \$   | 7.77      |               |                     |          |              |          |
| Use Min System (M) or Zero Intercept (Z)?  |                | _  | Z         |               |                     |          |              |          |
| Zero Intercept or Min System Cost (\$)     |                |  | 3,637,851 |               |                     |          |              |          |
| Total Cost of Sample                       |                | \$ 7   | 7,559,704 |               |                     |          |              |          |
| Percentage of Total                        |                |  | 0.4812    |               |                     |          |              |          |
| Percentage Classified as Customer-Related  |                |  | 48.12%    |               |                     |          |              |          |
| Denne etema Oleasiffe des Denne ed Deleted |                | in the second se | E4 000/   |               |                     |          |              |          |

51.88%

| Accoun   | t 367 - Underground Conductors and Devices | SE          | CONDARY    |          |               |          |              |            |  |
|----------|--|-------------|------------|----------|---------------|----------|--------------|------------|--|
|          |  |             |            |          | Actual        | Linear   | Regression I | nputs      |  |
|          | Area from Table of Condu                   | ıctor Sizes |            |          | Unit Cost     |          |              |            |  |
| #        | Description                                | Size        | Cost       | Quantity | (\$ per Unit) | y*n^0.5  | n^0.5        | xn^0.5     |  |
| 1        | 350AL                                      | 350.00 \$   | 297.07     | 47       | 6.28          | 43.19    | 6.88         | 2,407.22   |  |
| 2        | 1/0AL                                      | 105.53      | 85.84      | 29       | 2.96          | 15.94    | 5.39         | 568.30     |  |
| 3        | 12CU                                       | 6.53        | 3,203.54   | 1,497    | 2.14          | 82.80    | 38.69        | 252.65     |  |
| 4        | 350AL                                      | 350.00      | 2,128.92   | 339      | 6.28          | 115.63   | 18.41        | 6,444.19   |  |
| 5        | 4AL  | 41.74       | 595.00     | 340      | 1.75          | 32.27    | 18.44        | 769.65     |  |
| 6        | 6AL  | 26.25       | 1,633.60   | 1,008    | 1.62          | 51.44    | 31.76        | 833.61     |  |
| 7        | 6CC  | 26.25       | 459.00     | 100      | 4.59          | 45.90    | 10.00        | 262.51     |  |
| 8        | 6CU  | 26.25       | 25,956.88  | 5,655    | 4.59          | 345.17   | 75.20        | 1,974.08   |  |
| 9        | 350AL                                      | 350.00      | 4,687.59   | 746      | 6.28          | 171.58   | 27.32        | 9,562.32   |  |
| 10       | 4AL  | 41.74       | 325.50     | 186      | 1.75          | 23.87    | 13.64        | 569.26     |  |
| 11       | 4/0AL                                      | 211.59      | 4,367.56   | 1,035    | 4.22          | 135.76   | 32.17        | 6,807.10   |  |
| 12       | 500AL                                      | 500.00      | 1,225.00   | 140      | 8.75          | 103.53   | 11.83        | 5,916.08   |  |
| 13       | 350AL                                      | 350.00      | 35,004.11  | 4,042    | 8.66          | 550.58   | 63.58        | 22,251.98  |  |
| 14       | 4/0AL                                      | 211.59      | 1,137.57   | 208      | 5.46          | 78.81    | 14.43        | 3,054.17   |  |
| 15       | 500AL                                      | 500.00      | 967.21     | 48       | 19.96         | 138.94   | 6.96         | 3,480.56   |  |
| 16       | 1/0AL                                      | 105.53      | 68,446.58  | 23,124   | 2.96          | 450.11   | 152.07       | 16,047.60  |  |
| 17       | 2/0AL                                      | 133.07      | 3,800.64   | 1,284    | 2.96          | 106.07   | 35.83        | 4,768.36   |  |
| 18       | 350AL                                      | 350.00      | 632,003.77 | 100,638  | 6.28          | 1,992.23 | 317.23       | 111,031.97 |  |
| 19       | 350CU                                      | 350.00      | 1,897.33   | 302      | 6.28          | 109.16   | 17.38        | 6,083.58   |  |
| 20       | 4AL  | 41.74       | 2,954.52   | 1,688    | 1.75          | 71.91    | 41.09        | 1,715.05   |  |
| 21       | 4CU  | 41.74       | 795.15     | 155      | 5.13          | 63.87    | 12.45        | 519.66     |  |
| 22       | 4/0AL                                      | 211.59      | 129,523.86 | 30,693   | 4.22          | 739.32   | 175.19       | 37,069.60  |  |
| 23       | 4/0CU                                      | 211.59      | 1,133.28   | 269      | 4.22          | 69.16    | 16.39        | 3,467.46   |  |
| 24       | 4/0Unknown                                 | 211.59      | 262.57     | 62       | 4.22          | 33.29    | 7.89         | 1,669.03   |  |
| 25       | 500AL                                      | 500.00      | 38,576.74  | 4,409    | 8.75          | 580.99   | 66.40        | 33,199.28  |  |
| 26       | 6AL  | 26.25       | 518.40     | 320      | 1.62          | 28.98    | 17.89        | 469.59     |  |
| 27       | 6CU  | 26.25       | 3,249.72   | 708      | 4.59          | 122.13   | 26.61        | 698.49     |  |
| 28       | 8CU  | 16.51       | 3,428.28   | 1,602    | 2.14          | 85.65    | 40.02        | 660.77     |  |
| 29       | TOTAL                                      | \$          | 968,665.24 | 180,675  |               |          |              |            |  |
| 30       |  |             |            |          |               |          |              |            |  |
| 31       | Zero Intercept Linear Regression Results   |             |            |          |               | LINEST   | Array        |            |  |
| 32       |  |             |            |          |               |          |              |            |  |
| 33       | Size Coefficient (\$ per MCM)              |             | 0.01245    |          |               | 0.01245  | 1.96922      |            |  |
| 34       | Zero Intercept (\$ per Unit)               |             | 1.96922    |          |               | 0.00108  | 0.32035      |            |  |
| 35       | R-Square                                   |             | 0.9867     |          |               | 0.98671  | 53.75085     |            |  |
| 36       |  |             |            |          |               |          |              |            |  |
| 37       | Plant Classification                       |             |            |          |               |          |              |            |  |
| 38       |  |             |            |          |               |          |              |            |  |
| 39       | Total Number of Units                      |             | 180,675    |          |               |          |              |            |  |
| 40       | Zero Intercept (\$/Unit)                   | \$          | 1.97       |          |               |          |              |            |  |
| 41       | Minimum System (\$/Unit)                   | \$          | 1.62       |          |               |          |              |            |  |
| 42       | Use Min System (M) or Zero Intercept (Z)?  | _           | Z          |          |               |          |              |            |  |
| 43       | Zero Intercept or Min System Cost (\$)     | \$          | 355,790    |          |               |          |              |            |  |
| 44<br>45 | Total Cost of Sample                       | \$          | 968,665    |          |               |          |              |            |  |
| 45<br>46 | Percentage of Total                        | _           | 0.3673     |          |               |          |              |            |  |
| 46<br>47 | Percentage Classified as Customer-Related  | <u> </u>    | 36.73%     |          |               |          |              |            |  |
| 47       | Percentage Classified as Demand-Related    |             | 63.27%     |          |               |          |              |            |  |

Account 364 - Poles

|    | nt 364 - Poles         |      |               |          | Actual<br>Unit Cost | Linear R   | egression In <sub>l</sub> | outs     |
|----|------------------------|------|---------------|----------|---------------------|------------|---------------------------|----------|
| #  | Description            | Size | Cost          | Quantity | (\$ per Unit)       | y*n^0.5    | n^0.5                     | xn^0.5   |
| 1  | 10 Feet Wood           | 10   | \$ 569.37     | 1        | 569.37              | 569.37     | 1.00                      | 10.00    |
| 2  | 14 Feet FBGL           | 14   | 35,398.08     | 36       | 983.28              | 5,899.68   | 6.00                      | 84.00    |
| 3  | 15 Feet Pine           | 15   | 569.37        | 1        | 569.37              | 569.37     | 1.00                      | 15.00    |
| 4  | 16 Feet Ornamental     | 16   | 1,110.78      | 1        | 1,110.78            | 1,110.78   | 1.00                      | 16.00    |
| 5  | 17 Feet Alumn          | 17   | 149,955.30    | 135      | 1,110.78            | 12,906.10  | 11.62                     | 197.52   |
| 6  | 17 Feet FBGL           | 17   | 441,492.72    | 449      | 983.28              | 20,835.33  | 21.19                     | 360.22   |
| 7  | 17 Feet Ornamental     | 17   | 22,215.60     | 20       | 1,110.78            | 4,967.56   | 4.47                      | 76.03    |
| 8  | 17 Feet Pine           | 17   | 569.37        | 1        | 569.37              | 569.37     | 1.00                      | 17.00    |
| 9  | 17 Feet Steel          | 17   | 31,101.84     | 28       | 1,110.78            | 5,877.70   | 5.29                      | 89.96    |
| 10 | 20 Feet Alumn          | 20   | 1,186.70      | 1        | 1,186.70            | 1,186.70   | 1.00                      | 20.00    |
| 11 | 20 Feet Pine           | 20   | 3,416.22      | 6        | 569.37              | 1,394.67   | 2.45                      | 48.99    |
| 12 | 20 Feet Pine           | 20   | 1,708.11      | 3        | 569.37              | 986.18     | 1.73                      | 34.64    |
| 13 | 20 Feet Pine           | 20   | 1,138.74      | 2        | 569.37              | 805.21     | 1.41                      | 28.28    |
| 14 | 20 Feet Pine           | 20   | 2,846.85      | 5        | 569.37              | 1,273.15   | 2.24                      | 44.72    |
| 15 | 20 Feet Pine           | 20   | 7,401.81      | 13       | 569.37              | 2,052.89   | 3.61                      | 72.11    |
| 16 | 20 Feet Pine           | 20   | 5,693.70      | 10       | 569.37              | 1,800.51   | 3.16                      | 63.25    |
| 17 | 20 Feet Pine           | 20   | 21,066.69     | 37       | 569.37              | 3,463.34   | 6.08                      | 121.66   |
| 18 | 20 Feet Pine           | 20   | 1,138.74      | 2        | 569.37              | 805.21     | 1.41                      | 28.28    |
| 19 | 20 Feet Pine           | 20   | 569.37        | 1        | 569.37              | 569.37     | 1.00                      | 20.00    |
| 20 | 20 Feet FBGL           | 20   | 27,093.54     | 29       | 934.26              | 5,031.14   | 5.39                      | 107.70   |
| 21 | 20 Feet Steel          | 20   | 2,221.56      | 2        | 1,110.78            | 1,570.88   | 1.41                      | 28.28    |
| 22 | 20 Feet Unknown        | 20   | 1,708.11      | 3        | 569.37              | 986.18     | 1.73                      | 34.64    |
| 23 | 20 Feet Unknown        | 20   | 569.37        | 1        | 569.37              | 569.37     | 1.00                      | 20.00    |
| 24 | 20 Feet Wood           | 20   | 2,277.48      | 4        | 569.37              | 1,138.74   | 2.00                      | 40.00    |
| 25 | 24 Feet Steel          | 24   | 82,817.02     | 26       | 3,185.27            | 16,241.75  | 5.10                      | 122.38   |
| 26 | 24Feet FBGL            | 24   | 3,155.34      | 3        | 1,051.78            | 1,821.74   | 1.73                      | 41.57    |
| 27 | 25 Feet Aluminum       | 25   | 4,207.12      | 4        | 1,051.78            | 2,103.56   | 2.00                      | 50.00    |
| 28 | 25 Feet Pine           | 25   | 3,985.59      | 7        | 569.37              | 1,506.41   | 2.65                      | 66.14    |
| 29 | 25 Feet Pine           | 25   | 1,138.74      | 2        | 569.37              | 805.21     | 1.41                      | 35.36    |
| 30 | 25 Feet Pine           | 25   | 2,846.85      | 5        | 569.37              | 1,273.15   | 2.24                      | 55.90    |
| 31 | 25 Feet Pine           | 25   | 1,138.74      | 2        | 569.37              | 805.21     | 1.41                      | 35.36    |
| 32 | 25 Feet Pine           | 25   | 9,109.92      | 16       | 569.37              | 2,277.48   | 4.00                      | 100.00   |
| 33 | 25 Feet Pine           | 25   | 35,870.31     | 63       | 569.37              | 4,519.23   | 7.94                      | 198.43   |
| 34 | 25 Feet Pine           | 25   | 9,109.92      | 16       | 569.37              | 2,277.48   | 4.00                      | 100.00   |
| 35 | 25 Feet Pine           | 25   | 26,760.39     | 47       | 569.37              | 3,903.40   | 6.86                      | 171.39   |
| 36 | 25 Feet Pine           | 25   | 1,708.11      | 3        | 569.37              | 986.18     | 1.73                      | 43.30    |
| 37 | 25 Feet Unknown        | 25   | 1,708.11      | 3        | 569.37              | 986.18     | 1.73                      | 43.30    |
| 38 | 25 Feet FBGL           | 25   | 32,605.18     | 31       | 1,051.78            | 5,856.06   | 5.57                      | 139.19   |
| 39 | 25 Feet Steel          | 25   | 12,741.08     | 4        | 3,185.27            | 6,370.54   | 2.00                      | 50.00    |
| 40 | 25 Feet Wood           | 25   | 569.37        | 1        | 569.37              | 569.37     | 1.00                      | 25.00    |
| 41 | 30 Feet Alumunum       | 30   | 61,469.76     | 22       | 2,794.08            | 13,105.40  | 4.69                      | 140.71   |
| 42 | 30 Feet Cedar          | 30   | 1,347.92      | 2        | 673.96              | 953.12     | 1.41                      | 42.43    |
| 43 | 30 Feet Concrete       | 30   | 673.96        | 1        | 673.96              | 673.96     | 1.00                      | 30.00    |
| 44 | 30 Feet Concrete       | 30   | 673.96        | 1        | 673.96              | 673.96     | 1.00                      | 30.00    |
| 45 | 30 Feet Concrete       | 30   | 453.30        | . 1      | 453.30              | 453.30     | 1.00                      | 30.00    |
| 46 | 30 Feet Douglas Fur    | 30   | 673.96        | 1        | 673.96              | 673.96     | 1.00                      | 30.00    |
| 47 | 30 Feet Douglas Fur    | 30   | 673.96        | 1        | 673.96              | 673.96     | 1.00                      | 30.00    |
| 48 | 30 Feet N/A            | 30   | 12,805.24     | 19       | 673.96              | 2,937.72   | 4.36                      | 130.77   |
| 49 | 30 Feet Pine           | 30   | 16,707.06     | 18       | 928.17              | 3,937.89   | 4.24                      | 127.28   |
| 50 | 30 Feet Pine           | 30   | 1,751.26      | 2        | 875.63              | 1,238.33   | 1.41                      | 42.43    |
| 51 | 30 Feet Pine           | 30   | 17,347.47     | 21       | 826.07              | 3,785.53   | 4.58                      | 137.48   |
| 52 | 30 Feet Pine           | 30   |               | 32       | 779.31              |            |                           | 169.71   |
|    |                        |      | 24,937.92     |          |                     | 4,408.44   | 5.66                      |          |
| 53 | 30 Feet Pine           | 30   | 353,734.75    | 485      | 729.35              | 16,062.27  | 22.02                     | 660.68   |
| 54 | 30 Feet Pine           | 30   | 1,042,945.55  | 1,405    | 742.31              | 27,824.25  | 37.48                     | 1,124.50 |
| 55 | 30 Feet Pine           | 30   | 22,488,697.28 | 33,368   | 673.96              | 123,111.67 | 182.67                    | 5,480.07 |
| 56 | 30 Feet Pine           | 30   | 1,078,433.16  | 1,862    | 579.18              | 24,992.14  | 43.15                     | 1,294.53 |
| 57 | 30 Feet Pine           | 30   | 13,900.32     | 24       | 579.18              | 2,837.39   | 4.90                      | 146.97   |
| 58 | 30 Feet Pine           | 30   | 1,158.36      | 2        | 579.18              | 819.08     | 1.41                      | 42.43    |
| 59 | 30 Feet Pine           | 30   | 4,717.72      | 7        | 673.96              | 1,783.13   | 2.65                      | 79.37    |
| 60 | 30 Feet Ponderosa Pine | 30   | 729.35        | 1        | 729.35              | 729.35     | 1.00                      | 30.00    |
| 61 | 30 Feet Ponderosa Pine | 30   | 742.31        | 1        | 742.31              | 742.31     | 1.00                      | 30.00    |
| 62 | 30 Feet Ponderosa Pine | 30   | 3,369.80      | 5        | 673.96              | 1,507.02   | 2.24                      | 67.08    |
| 63 | 30 Feet Ponderosa Pine | 30   | 174,912.36    | 302      | 579.18              | 10,065.08  | 17.38                     | 521.34   |
| 64 | 30 Feet Ponderosa Pine | 30   | 25,483.92     | 44       | 579.18              | 3,841.85   | 6.63                      | 199.00   |
| 65 | 30 Feet Steel          | 30   | 3,648.64      | 1        | 3,648.64            | 3,648.64   | 1.00                      | 30.00    |
| 66 | 30 Feet Steel          | 30   | 40,135.04     | 11       | 3,648.64            | 12,101.17  | 3.32                      | 99.50    |
| 67 | 30 Feet Steel          | 30   | 76,621.44     | 21       | 3,648.64            | 16,720.17  | 4.58                      | 137.48   |
| 68 | 30 Feet Unknown        | 30   | 673.96        | 1        | 673.96              | 673.96     | 1.00                      | 30.00    |
| 69 | 30 Feet Unknown        | 30   | 20,892.76     | 31       | 673.96              | 3,752.45   | 5.57                      | 167.03   |

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|          |                              |          |                               |                 | Actual<br>Unit Cost | Linear R                | egression In <sub>l</sub> | outs                 |
|----------|------------------------------|----------|-------------------------------|-----------------|---------------------|-------------------------|---------------------------|----------------------|
| #        | Description                  | Size     | Cost                          | Quantity        | (\$ per Unit)       | y*n^0.5                 | n^0.5                     | xn^0.5               |
| 70       | 30 Feet Unknown              | 30       | 14,153.16                     | 21              | 673.96              | 3,088.47                | 4.58                      | 137.48               |
| 71       | 30 Feet Wood                 | 30       | 2,337.93                      | 3               | 779.31              | 1,349.80                | 1.73                      | 51.96                |
| 72       | 30 Feet Wood                 | 30       | 779.31                        | 1               | 779.31              | 779.31                  | 1.00                      | 30.00                |
| 73       | 30 Feet Wood                 | 30       | 779.31                        | 1               | 779.31              | 779.31                  | 1.00                      | 30.00                |
| 74       | 30 Feet Wood                 | 30       | 4,376.10                      | 6               | 729.35              | 1,786.54                | 2.45                      | 73.48                |
| 75       | 30 Feet Wood                 | 30       | 17,073.13                     | 23              | 742.31              | 3,559.99                | 4.80                      | 143.87               |
| 76       | 30 Feet Wood                 | 30       | 706,984.04                    | 1,049           | 673.96              | 21,828.40               | 32.39                     | 971.65               |
| 77       | 30 Feet Wood                 | 30       | 21,429.66                     | 37              | 579.18              | 3,523.01                | 6.08                      | 182.48               |
| 78       | 30 Feet Wood                 | 30       | 3,369.80                      | 5               | 673.96              | 1,507.02                | 2.24                      | 67.08                |
| 79       | 32 Feet Steel                | 32       | 76,446.60                     | 12              | 6,370.55            | 22,068.23               | 3.46                      | 110.85               |
| 80       | 33 Feet Pine                 | 33       | 673.96                        | 1               | 673.96              | 673.96                  | 1.00                      | 33.00                |
| 81       | 33 Feet Unknown              | 33       | 6,739.60                      | 10              | 673.96              | 2,131.25                | 3.16                      | 104.36               |
| 82       | 35 Feet Aluminum             | 35       | 248,002.46                    | 107             | 2,317.78            | 23,975.30               | 10.34                     | 362.04               |
| 83       | 35 Feet Cedar                | 35       | 2,071.77                      | 3               | 690.59              | 1,196.14                | 1.73                      | 60.62                |
| 84       | 35 Feet Douglas Fur          | 35       | 1,713.20                      | 2               | 856.60              | 1,211.42                | 1.41                      | 49.50                |
| 85<br>86 | 35 Feet Douglas Fur          | 35       | 826.61<br>5.776.40            | 1               | 826.61<br>5.776.10  | 826.61<br>5.776.10      | 1.00                      | 35.00                |
| 86       | 35 Feet Fiberglass           | 35       | 5,776.10                      | 1 4 4           | 5,776.10            | 5,776.10                | 1.00                      | 35.00                |
| 87<br>88 | 35 Feet Pine<br>35 Feet Pine | 35<br>35 | 13,427.96<br>15,346.24        | 14<br>16        | 959.14<br>959.14    | 3,588.77<br>3,836.56    | 3.74                      | 130.96<br>140.00     |
| 89       |                              |          |                               |                 | 959.14<br>959.14    |                         | 4.00                      | 742.46               |
| 90       | 35 Feet Pine<br>35 Feet Pine | 35<br>35 | 431,613.00<br>92,313.93       | 450<br>97       | 959.14<br>951.69    | 20,346.43<br>9,373.06   | 21.21<br>9.85             | 344.71               |
| 91       | 35 Feet Pine                 | 35       | 3,119,737.20                  | 3,642           | 856.60              | 51,694.94               | 60.35                     | 2,112.21             |
| 92       | 35 Feet Fine                 |          |                               |                 | 826.61              |                         |                           |                      |
| 93       | 35 Feet Pine                 | 35<br>35 | 26,492,850.50<br>3,743,688.39 | 32,050<br>5,421 | 690.59              | 147,983.97<br>50,846.37 | 179.03<br>73.63           | 6,265.88<br>2,576.96 |
| 94       | 35 Feet Fine                 | 35       | 667,326.20                    | 1,028           | 649.15              | 20,813.33               | 73.03<br>32.06            | 1,122.19             |
| 95       | 35 Feet Pine                 | 35       | 571.26                        | 1,028           | 571.26              | 20,813.33<br>571.26     | 1.00                      | 35.00                |
| 96       | 35 Feet Pine                 | 35       | 1,381.18                      | 2               | 690.59              | 976.64                  | 1.00                      | 49.50                |
| 97       | 35 Feet Ponderosa Pine       | 35       | 959.14                        | 1               | 959.14              | 959.14                  | 1.41                      | 35.00                |
| 98       | 35 Feet Ponderosa Pine       | 35       | 8,566.00                      | 10              | 856.60              | 2,708.81                | 3.16                      | 110.68               |
| 99       | 35 Feet Ponderosa Pine       | 35       | 171,934.88                    | 208             | 826.61              | 11,921.54               | 14.42                     | 504.78               |
| 100      | 35 Feet Ponderosa Pine       | 35       | 2,071.77                      | 3               | 690.59              | 1,196.14                | 1.73                      | 60.62                |
| 101      | 35 Feet Steel                | 35       | 12,341.79                     | 3               | 4,113.93            | 7,125.54                | 1.73                      | 60.62                |
| 102      | 35 Feet Steel                | 35       | 4,113.93                      | 1               | 4,113.93            | 4,113.93                | 1.00                      | 35.00                |
| 103      | 35 Feet Steel                | 35       | 209,810.43                    | 51              | 4,113.93            | 29,379.34               | 7.14                      | 249.95               |
| 104      | 35 Feet Unknown              | 35       | 959.14                        | 1               | 959.14              | 959.14                  | 1.00                      | 35.00                |
| 105      | 35 Feet Unknown              | 35       | 6,852.80                      | 8               | 856.60              | 2,422.83                | 2.83                      | 98.99                |
| 106      | 35 Feet Unknown              | 35       | 28,931.35                     | 35              | 826.61              | 4,890.29                | 5.92                      | 207.06               |
| 107      | 35 Feet Unknown              | 35       | 2,071.77                      | 3               | 690.59              | 1,196.14                | 1.73                      | 60.62                |
| 108      | 35 Feet Unknown              | 35       | 1,381.18                      | 2               | 690.59              | 976.64                  | 1.41                      | 49.50                |
| 109      | 35 Feet Unknown              | 35       | 1,381.18                      | 2               | 690.59              | 976.64                  | 1.41                      | 49.50                |
| 110      | 35 Feet Wood                 | 35       | 10,550.54                     | 11              | 959.14              | 3,181.11                | 3.32                      | 116.08               |
| 111      | 35 Feet Wood                 | 35       | 5,710.14                      | 6               | 951.69              | 2,331.15                | 2.45                      | 85.73                |
| 112      | 35 Feet Wood                 | 35       | 99,365.60                     | 116             | 856.60              | 9,225.86                | 10.77                     | 376.96               |
| 113      | 35 Feet Wood                 | 35       | 646,409.02                    | 782             | 826.61              | 23,115.54               | 27.96                     | 978.75               |
| 114      | 35 Feet Wood                 | 35       | 169,194.55                    | 245             | 690.59              | 10,809.44               | 15.65                     | 547.84               |
| 115      | 35 Feet Wood                 | 35       | 18,825.35                     | 29              | 649.15              | 3,495.78                | 5.39                      | 188.48               |
| 116      | 35 Feet Wood                 | 35       | 610.21                        | 1               | 610.21              | 610.21                  | 1.00                      | 35.00                |
| 117      | 35 Feet Wood                 | 35       | 2,479.83                      | 3               | 826.61              | 1,431.73                | 1.73                      | 60.62                |
| 118      | 37 Feet Steel                | 37       | 4,113.93                      | 1               | 4,113.93            | 4,113.93                | 1.00                      | 37.00                |
| 119      | 40 Feet Cedar                | 40       | 4,383.28                      | 4               | 1,095.82            | 2,191.64                | 2.00                      | 80.00                |
| 120      | 40 Feet Cedar                | 40       | 4,466.24                      | 4               | 1,116.56            | 2,233.12                | 2.00                      | 80.00                |
| 121      | 40 Feet Cedar                | 40       | 2,055.38                      | 2               | 1,027.69            | 1,453.37                | 1.41                      | 56.57                |
| 122      | 40 Feet Concrete             | 40       | 1,998.56                      | 1               | 1,998.56            | 1,998.56                | 1.00                      | 40.00                |
| 123      | 40 Feet Douglas Fur          | 40       | 1,027.69                      | 1               | 1,027.69            | 1,027.69                | 1.00                      | 40.00                |
| 124      | 40 Feet Douglas Fur          | 40       | 952.06                        | 1               | 952.06              | 952.06                  | 1.00                      | 40.00                |
| 125      | 40 Feet Douglas Fur          | 40       | 952.06                        | 1               | 952.06              | 952.06                  | 1.00                      | 40.00                |
| 126      | 40 Feet Fiberglass           | 40       | 11,271.72                     | 6               | 1,878.62            | 4,601.66                | 2.45                      | 97.98                |
| 127      | 40 Feet Pine                 | 40       | 12,054.02                     | 11              | 1,095.82            | 3,634.42                | 3.32                      | 132.66               |
| 128      | 40 Feet Pine                 | 40       | 29,587.14                     | 27              | 1,095.82            | 5,694.05                | 5.20                      | 207.85               |
| 129      | 40 Feet Pine                 | 40       | 3,049,325.36                  | 2,731           | 1,116.56            | 58,350.28               | 52.26                     | 2,090.36             |
| 130      | 40 Feet Pine                 | 40       | 369,263.36                    | 344             | 1,073.44            | 19,909.35               | 18.55                     | 741.89               |
| 131      | 40 Feet Pine                 | 40       | 31,465,812.42                 | 30,618          | 1,027.69            | 179,825.20              | 174.98                    | 6,999.20             |
| 132      | 40 Feet Pine                 | 40       | 19,556,264.46                 | 20,541          | 952.06              | 136,450.49              | 143.32                    | 5,732.85             |
| 133      | 40 Feet Pine                 | 40       | 689,103.80                    | 770             | 894.94              | 24,833.58               | 27.75                     | 1,109.95             |
| 134      | 40 Feet Pine                 | 40       | 45,426.96                     | 54              | 841.24              | 6,181.83                | 7.35                      | 293.94               |
| 135      | 40 Feet Pine                 | 40       | 1,324.54                      | 1               | 1,324.54            | 1,324.54                | 1.00                      | 40.00                |
| 136      | 40 Feet Pine                 | 40       | 1,396.40                      | 1               | 1,396.40            | 1,396.40                | 1.00                      | 40.00                |
|          | 40 Feet Pine                 | 40       | 7,193.83                      | 7               | 1,027.69            | 2,719.01                | 2.65                      | 105.83               |
| 137      |                              | 70       |                               |                 |                     |                         |                           |                      |

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|            |   |          |                        |          | Actual<br>Unit Cost  | Linear Regression Inputs |               |                  |
|------------|---|----------|------------------------|----------|----------------------|--------------------------|---------------|------------------|
| #          | Description                                   | Size     | Cost                   | Quantity | (\$ per Unit)        | y*n^0.5                  | n^0.5         | xn^0.5           |
| 139        | 40 Feet Ponderosa Pine                        | 40       | 229,174.87             | 223      | 1,027.69             | 15,346.68                | 14.93         | 597.33           |
| 140        | 40 Feet Ponderosa Pine                        | 40       | 158,994.02             | 167      | 952.06               | 12,303.33                | 12.92         | 516.91<br>40.00  |
| 141<br>142 | 40 Feet Steel<br>40 Feet Steel                | 40<br>40 | 2,226.92<br>438,703.24 | 197      | 2,226.92<br>2,226.92 | 2,226.92<br>31,256.31    | 1.00<br>14.04 | 561.43           |
| 143        | 40 Feet Unknown                               | 40       | 1,183.55               | 197      | 1,183.55             | 1,183.55                 | 1.00          | 40.00            |
| 144        | 40 Feet Unknown                               | 40       | 4,466.24               | 4        | 1,116.56             | 2,233.12                 | 2.00          | 80.00            |
| 145        | 40 Feet Unknown                               | 40       | 26,719.94              | 26       | 1,027.69             | 5,240.21                 | 5.10          | 203.96           |
| 146        | 40 Feet Unknown                               | 40       | 14,280.90              | 15       | 952.06               | 3,687.31                 | 3.87          | 154.92           |
| 147        | 40 Feet Unknown                               | 40       | 952.06                 | 1        | 952.06               | 952.06                   | 1.00          | 40.00            |
| 148        | 40 Feet Unknown                               | 40       | 13,359.97              | 13       | 1,027.69             | 3,705.39                 | 3.61          | 144.22           |
| 149        | 40 Feet Wood                                  | 40       | 88,208.24              | 79       | 1,116.56             | 9,924.20                 | 8.89          | 355.53           |
| 150        | 40 Feet Wood                                  | 40       | 12,881.28              | 12       | 1,073.44             | 3,718.51                 | 3.46          | 138.56           |
| 151        | 40 Feet Wood                                  | 40       | 718,355.31             | 699      | 1,027.69             | 27,170.69                | 26.44         | 1,057.54         |
| 152        | 40 Feet Wood                                  | 40       | 642,640.50             | 675      | 952.06               | 24,735.24                | 25.98         | 1,039.23         |
| 153        | 40 Feet Wood                                  | 40       | -                      | 68       | -                    | -                        | 8.25          | 329.85           |
| 154        | 40 Feet Wood                                  | 40       | -                      | 2        | -                    | -                        | 1.41          | 56.57            |
| 155        | 40 Feet Wood                                  | 40       | 2,055.38               | 2        | 1,027.69             | 1,453.37                 | 1.41          | 56.57            |
| 156        | 45 Feet Cedar                                 | 45<br>45 | 2,642.88               | 2        | 1,321.44             | 1,868.80                 | 1.41          | 63.64            |
| 157        | 45 Feet Cedar                                 | 45<br>45 | 1,160.08               | 1        | 1,160.08             | 1,160.08                 | 1.00          | 45.00            |
| 158<br>159 | 45 Feet Cedar<br>45 Feet Concrete             | 45<br>45 | 1,493.96<br>1,998.56   | 1        | 1,493.96<br>1,998.56 | 1,493.96<br>1,998.56     | 1.00<br>1.00  | 45.00<br>45.00   |
| 160        | 45 Feet Concrete                              | 45<br>45 | 3,997.12               | 2        | 1,998.56             | 2,826.39                 | 1.41          | 63.64            |
| 161        | 45 Feet Pine                                  | 45<br>45 | 22,350.41              | 17       | 1,314.73             | 5,420.77                 | 4.12          | 185.54           |
| 162        | 45 Feet Pine                                  | 45       | 89,401.64              | 68       | 1,314.73             | 10,841.54                | 8.25          | 371.08           |
| 163        | 45 Feet Pine                                  | 45       | 8,778,325.92           | 6,643    | 1,321.44             | 107,703.44               | 81.50         | 3,667.71         |
| 164        | 45 Feet Pine                                  | 45       | 722,099.40             | 660      | 1,094.09             | 28,107.68                | 25.69         | 1,156.07         |
| 165        | 45 Feet Pine                                  | 45       | 39,276,828.56          | 33,857   | 1,160.08             | 213,457.87               | 184.00        | 8,280.12         |
| 166        | 45 Feet Pine                                  | 45       | 3,906,859.68           | 3,792    | 1,030.29             | 63,444.45                | 61.58         | 2,771.06         |
| 167        | 45 Feet Pine                                  | 45       | 94,534.72              | 98       | 964.64               | 9,549.45                 | 9.90          | 445.48           |
| 168        | 45 Feet Pine                                  | 45       | 4,533.85               | 5        | 906.77               | 2,027.60                 | 2.24          | 100.62           |
| 169        | 45 Feet Pine                                  | 45       | 1,493.96               | 1        | 1,493.96             | 1,493.96                 | 1.00          | 45.00            |
| 170        | 45 Feet Ponderosa Pine                        | 45       | 33,036.00              | 25       | 1,321.44             | 6,607.20                 | 5.00          | 225.00           |
| 171        | 45 Feet Ponderosa Pine                        | 45       | 1,094.09               | 1        | 1,094.09             | 1,094.09                 | 1.00          | 45.00            |
| 172        | 45 Feet Ponderosa Pine                        | 45       | 232,016.00             | 200      | 1,160.08             | 16,406.01                | 14.14         | 636.40           |
| 173        | 45 Feet Ponderosa Pine                        | 45       | 11,333.19              | 11       | 1,030.29             | 3,417.09                 | 3.32          | 149.25           |
| 174        | 45 Feet Steel                                 | 45       | 28,174.26              | 6        | 4,695.71             | 11,502.09                | 2.45          | 110.23           |
| 175        | 45 Feet Unknown                               | 45       | 54,350.79              | 39       | 1,393.61             | 8,703.09                 | 6.24          | 281.02           |
| 176        | 45 Feet Unknown                               | 45       | 13,147.30              | 10       | 1,314.73             | 4,157.54                 | 3.16          | 142.30           |
| 177        | 45 Feet Unknown                               | 45       | 2,642.88               | 2        | 1,321.44             | 1,868.80                 | 1.41          | 63.64            |
| 178        | 45 Feet Unknown                               | 45<br>45 | 44,857.69              | 41       | 1,094.09             | 7,005.59                 | 6.40          | 288.14           |
| 179<br>180 | 45 Feet Unknown<br>45 Feet Unknown            | 45<br>45 | 10,440.72<br>6,181.74  | 9<br>6   | 1,160.08<br>1,030.29 | 3,480.24<br>2,523.68     | 3.00<br>2.45  | 135.00<br>110.23 |
| 181        | 45 Feet Wood                                  | 45<br>45 | 3,944.19               | 3        | 1,314.73             | 2,277.18                 | 1.73          | 77.94            |
| 182        | 45 Feet Wood                                  | 45       | 199,838.96             | 152      | 1,314.73             | 16,209.08                | 12.33         | 554.80           |
| 183        | 45 Feet Wood                                  | 45       | 9,250.08               | 7        | 1,321.44             | 3,496.20                 | 2.65          | 119.06           |
| 184        | 45 Feet Wood                                  | 45       | 653,171.73             | 597      | 1,094.09             | 26,732.54                | 24.43         | 1,099.51         |
| 185        | 45 Feet Wood                                  | 45       | 203,014.00             | 175      | 1,160.08             | 15,346.42                | 13.23         | 595.29           |
| 186        | 45 Feet Wood                                  | 45       | 1,030.29               | 1        | 1,030.29             | 1,030.29                 | 1.00          | 45.00            |
| 187        | 45 Feet Wood                                  | 45       | 964.64                 | 1        | 964.64               | 964.64                   | 1.00          | 45.00            |
| 188        | 45 Feet Wood                                  | 45       | 6,960.48               | 6        | 1,160.08             | 2,841.60                 | 2.45          | 110.23           |
| 189        | 50 Feet Cedar                                 | 50       | 1,507.52               | 1        | 1,507.52             | 1,507.52                 | 1.00          | 50.00            |
| 190        | 50 Feet Cedar                                 | 50       | 17,178.72              | 13       | 1,321.44             | 4,764.52                 | 3.61          | 180.28           |
| 191        | 50 Feet Cedar                                 | 50       | 2,188.18               | 2        | 1,094.09             | 1,547.28                 | 1.41          | 70.71            |
| 192        | 50 Feet Cedar                                 | 50       | 6,960.48               | 6        | 1,160.08             | 2,841.60                 | 2.45          | 122.47           |
| 193        | 50 Feet Douglas Fur                           | 50       | 5,656.32               | 4        | 1,414.08             | 2,828.16                 | 2.00          | 100.00           |
| 194        | 50 Feet Douglas Fur                           | 50       | 1,084.55               | 1        | 1,084.55             | 1,084.55                 | 1.00          | 50.00            |
| 195        | 50 Feet Pine                                  | 50       | 179,394.88             | 119      | 1,507.52             | 16,445.10                | 10.91         | 545.44           |
| 196        | 50 Feet Pine                                  | 50       | 12,923,277.12          | 9,139    | 1,414.08             | 135,183.39               | 95.60         | 4,779.91         |
| 197        | 50 Feet Pine                                  | 50       | 2,249,786.16           | 1,578    | 1,425.72             | 56,635.37                | 39.72         | 1,986.20         |
| 198        | 50 Feet Pine                                  | 50       | 4,332,241.29           | 3,341    | 1,296.69             | 74,950.48                | 57.80         | 2,890.07         |
| 199        | 50 Feet Pine                                  | 50<br>50 | 45,633.51              | 39       | 1,170.09             | 7,307.21                 | 6.24          | 312.25           |
| 200        | 50 Feet Pine                                  | 50<br>50 | 2,169.10               | 2        | 1,084.55             | 1,533.79                 | 1.41          | 70.71<br>70.71   |
| 201<br>202 | 50 Feet Pine<br>50 Feet Pine                  | 50<br>50 | 2,038.94               | 2        | 1,019.47<br>1,706.32 | 1,441.75<br>2,413,10     | 1.41<br>1.41  | 70.71<br>70.71   |
| 202        | 50 Feet Pine<br>50 Feet Pine                  | 50<br>50 | 3,412.64<br>1,614.02   | 2        | 1,706.32<br>1,614.02 | 2,413.10<br>1,614.02     | 1.41          | 70.71<br>50.00   |
| 203<br>204 | 50 Feet Pine<br>50 Feet Pine                  | 50<br>50 | 1,614.02               | 1        | 1,614.02             | 1,614.02                 | 1.00          | 50.00            |
| ムリナ        | OU I COLI IIIC                                | 50       |                        | ı        |                      |                          |               |                  |
|            | 50 Feet Ponderosa Pine                        | 50       | 55 1 <u>4</u> 0 12     | રવ       | 1 ፈ1ፈ በጾ             | 8 83N Q3                 | 6 24          | 312 25           |
| 205<br>206 | 50 Feet Ponderosa Pine 50 Feet Ponderosa Pine | 50<br>50 | 55,149.12<br>7,128.60  | 39<br>5  | 1,414.08<br>1,425.72 | 8,830.93<br>3,188.01     | 6.24<br>2.24  | 312.25<br>111.80 |

Account 364 - Poles

| 710004 | nt 364 - Poles         |      |              |          | Actual<br>Unit Cost | Linear Ro  | egression Inp | outs     |
|--------|------------------------|------|--------------|----------|---------------------|------------|---------------|----------|
| #      | Description            | Size | Cost         | Quantity | (\$ per Unit)       | y*n^0.5    | n^0.5         | xn^0.5   |
| 208    | 50 Feet Ponderosa Pine | 50   | 1,170.09     | 1        | 1,170.09            | 1,170.09   | 1.00          | 50.00    |
| 209    | 50 Feet Ponderosa Pine | 50   | 1,019.47     | 1        | 1,019.47            | 1,019.47   | 1.00          | 50.00    |
| 210    | 50 Feet Steel          | 50   | 23,234.85    | 5        | 4,646.97            | 10,390.94  | 2.24          | 111.80   |
| 211    | 50 Feet Unknown        | 50   | 31,109.76    | 22       | 1,414.08            | 6,632.62   | 4.69          | 234.52   |
| 212    | 50 Feet Unknown        | 50   | 1,296.69     | 1        | 1,296.69            | 1,296.69   | 1.00          | 50.00    |
| 213    | 50 Feet Wood           | 50   | 1,597.97     | 1        | 1,597.97            | 1,597.97   | 1.00          | 50.00    |
| 214    | 50 Feet Wood           | 50   | 7,537.60     | 5        | 1,507.52            | 3,370.92   | 2.24          | 111.80   |
| 215    | 50 Feet Wood           | 50   | 270,089.28   | 191      | 1,414.08            | 19,542.97  | 13.82         | 691.01   |
| 216    | 50 Feet Wood           | 50   | 9,980.04     | 7        | 1,425.72            | 3,772.10   | 2.65          | 132.29   |
| 217    | 50 Feet Wood           | 50   | 125,778.93   | 97       | 1,296.69            | 12,770.92  | 9.85          | 492.44   |
| 218    | 50 Feet Wood           | 50   | 1,170.09     | 1        | 1,170.09            | 1,170.09   | 1.00          | 50.00    |
| 219    | 50 Feet Wood           | 50   | 2,169.10     | 2        | 1,084.55            | 1,533.79   | 1.41          | 70.71    |
| 220    | 50 Feet Wood           | 50   | 1,296.69     | 1        | 1,296.69            | 1,296.69   | 1.00          | 50.00    |
| 221    | 55 Feet Cedar          | 55   | 4,522.56     | 3        | 1,507.52            | 2,611.10   | 1.73          | 95.26    |
| 222    | 55 Feet Cedar          | 55   | 12,726.72    | 9        | 1,414.08            | 4,242.24   | 3.00          | 165.00   |
| 223    | 55 Feet Cedar          | 55   | 5,702.88     | 4        | 1,425.72            | 2,851.44   | 2.00          | 110.00   |
| 224    | 55 Feet Concrete       | 55   | 2,238.39     | 1        | 2,238.39            | 2,238.39   | 1.00          | 55.00    |
| 225    | 55 Feet Douglas Fur    | 55   | 1,840.85     | 1        | 1,840.85            | 1,840.85   | 1.00          | 55.00    |
| 226    | 55 Feet Pine           | 55   | 1,951.30     | 1        | 1,951.30            | 1,951.30   | 1.00          | 55.00    |
| 227    | 55 Feet Pine           | 55   | 150,949.70   | 82       | 1,840.85            | 16,669.61  | 9.06          | 498.05   |
| 228    | 55 Feet Pine           | 55   | 7,345,659.50 | 4,450    | 1,650.71            | 110,116.09 | 66.71         | 3,668.96 |
| 229    | 55 Feet Pine           | 55   | 328,608.54   | 234      | 1,404.31            | 21,481.81  | 15.30         | 841.34   |
| 230    | 55 Feet Pine           | 55   | 400,413.79   | 287      | 1,395.17            | 23,635.68  | 16.94         | 931.76   |
| 231    | 55 Feet Pine           | 55   | 24,626.47    | 19       | 1,296.13            | 5,649.70   | 4.36          | 239.74   |
| 232    | 55 Feet Pine           | 55   | 3,655.08     | 3        | 1,218.36            | 2,110.26   | 1.73          | 95.26    |
| 233    | 55 Feet Pine           | 55   | 11,674.38    | 6        | 1,945.73            | 4,766.05   | 2.45          | 134.72   |
| 234    | 55 Feet Pine           | 55   | 2,161.76     | 1        | 2,161.76            | 2,161.76   | 1.00          | 55.00    |
| 235    | 55 Feet Pine           | 55   | 1,650.71     | 1        | 1,650.71            | 1,650.71   | 1.00          | 55.00    |
| 236    | 55 Feet Pine           | 55   | 1,650.71     | 1        | 1,650.71            | 1,650.71   | 1.00          | 55.00    |
| 237    | 55 Feet Ponderosa Pine | 55   | 46,219.88    | 28       | 1,650.71            | 8,734.74   | 5.29          | 291.03   |
| 238    | 55 Feet Ponderosa Pine | 55   | 2,808.62     | 2        | 1,404.31            | 1,985.99   | 1.41          | 77.78    |
| 239    | 55 Feet Ponderosa Pine | 55   | 1,395.17     | 1        | 1,395.17            | 1,395.17   | 1.00          | 55.00    |
| 240    | 55 Feet Ponderosa Pine | 55   | 1,170.09     | 1        | 1,170.09            | 1,170.09   | 1.00          | 55.00    |
| 241    | 55 Feet Steel          | 55   | 7,109.07     | 3        | 2,369.69            | 4,104.42   | 1.73          | 95.26    |
| 242    | 55 Feet Steel          | 55   | 2,369.69     | 1        | 2,369.69            | 2,369.69   | 1.00          | 55.00    |
| 243    | 55 Feet Unknown        | 55   | 11,554.97    | 7        | 1,650.71            | 4,367.37   | 2.65          | 145.52   |
| 244    | 55 Feet Wood           | 55   | 7,363.40     | 4        | 1,840.85            | 3,681.70   | 2.00          | 110.00   |
| 245    | 55 Feet Wood           | 55   | 170,023.13   | 103      | 1,650.71            | 16,752.88  | 10.15         | 558.19   |
| 246    | 55 Feet Wood           | 55   | 5,617.24     | 4        | 1,404.31            | 2,808.62   | 2.00          | 110.00   |
| 247    | 55 Feet Wood           | 55   | 26,508.23    | 19       | 1,395.17            | 6,081.41   | 4.36          | 239.74   |
| 248    | 60 Feet Cedar          | 60   | 2,093.67     | 1        | 2,093.67            | 2,093.67   | 1.00          | 60.00    |
| 249    | 60 Feet Cedar          | 60   | 97,426.19    | 53       | 1,838.23            | 13,382.52  | 7.28          | 436.81   |
| 250    | 60 Feet Cedar          | 60   | 4,885.44     | 3        | 1,628.48            | 2,820.61   | 1.73          | 103.92   |
| 251    | 60 Feet Cedar          | 60   | 1,530.77     | 1        | 1,530.77            | 1,530.77   | 1.00          | 60.00    |
| 252    | 60 Feet Douglas Fur    | 60   | 11,554.97    | 7        | 1,650.71            | 4,367.37   | 2.65          | 158.75   |
| 253    | 60 Feet Douglas Fur    | 60   | 1,530.77     | 1        | 1,530.77            | 1,530.77   | 1.00          | 60.00    |
| 254    | 60 Feet Pine           | 60   | 93,883.35    | 51       | 1,840.85            | 13,146.30  | 7.14          | 428.49   |
| 255    | 60 Feet Pine           | 60   | 1,373,390.72 | 832      | 1,650.71            | 47,613.76  | 28.84         | 1,730.66 |
| 256    | 60 Feet Pine           | 60   | 44,937.92    | 32       | 1,404.31            | 7,943.98   | 5.66          | 339.41   |
| 257    | 60 Feet Pine           | 60   | 11,161.36    | 8        | 1,395.17            | 3,946.14   | 2.83          | 169.71   |
| 258    | 60 Feet Pine           | 60   | 1,395.17     | 1        | 1,395.17            | 1,395.17   | 1.00          | 60.00    |
| 259    | 60 Feet Pine           | 60   | 4,185.51     | 3        | 1,395.17            | 2,416.51   | 1.73          | 103.92   |
| 260    | 60 Feet Pine           | 60   | 4,995.22     | 2        | 2,497.61            | 3,532.15   | 1.41          | 84.85    |

Account 364 - Poles

| Account | 364 - Poles            |      |            |          | Actual<br>Unit Cost | Linear Re       | egression Inp | outs     |
|---------|------------------------|------|------------|----------|---------------------|-----------------|---------------|----------|
| #       | Description            | Size | Cost       | Quantity | (\$ per Unit)       | y*n^0.5         | n^0.5         | xn^0.5   |
| 261     | 60 Feet Pine           | 60   | 2,771.88   | 1        | 2,771.88            | 2,771.88        | 1.00          | 60.00    |
| 262     | 60 Feet Ponderosa Pine | 60   | 8,253.55   | 5        | 1,650.71            | 3,691.10        | 2.24          | 134.16   |
| 263     | 60 Feet Steel          | 60   | 2,526.74   | 1        | 2,526.74            | 2,526.74        | 1.00          | 60.00    |
| 264     | 60 Feet Unknown        | 60   | 3,301.42   | 2        | 1,650.71            | 2,334.46        | 1.41          | 84.85    |
| 265     | 60 Feet Wood           | 60   | 1,951.30   | 1        | 1,951.30            | 1,951.30        | 1.00          | 60.00    |
| 266     | 60 Feet Wood           | 60   | 1,840.85   | 1        | 1,840.85            | 1,840.85        | 1.00          | 60.00    |
| 267     | 60 Feet Wood           | 60   | 478,705.90 | 290      | 1,650.71            | 28,110.58       | 17.03         | 1,021.76 |
| 268     | 60 Feet Wood           | 60   | 47,746.54  | 34       | 1,404.31            | 8,188.46        | 5.83          | 349.86   |
| 269     | 60 Feet Wood           | 60   | 9,766.19   | 7        | 1,395.17            | 3,691.27        | 2.65          | 158.75   |
| 270     | 60 Feet Wood           | 60   | 2,790.34   | 2        | 1,395.17            | 1,973.07        | 1.41          | 84.85    |
| 271     | 60 Feet Wood           | 60   | 1,395.17   | 1        | 1,395.17            | 1,395.17        | 1.00          | 60.00    |
| 272     | 60 Feet Wood           | 60   | 2,432.53   | 1        | 2,432.53            | 2,432.53        | 1.00          | 60.00    |
| 273     | 65 Feet Cedar          | 65   | 4,630.46   | 2        | 2,315.23            | 3,274.23        | 1.41          | 91.92    |
| 274     | 65 Feet Cedar          | 65   | 44,882.88  | 24       | 1,870.12            | 9,161.68        | 4.90          | 318.43   |
| 275     | 65 Feet Cedar          | 65   | 1,870.12   | 1        | 1,870.12            | 1,870.12        | 1.00          | 65.00    |
| 276     | 65 Feet Pine           | 65   | 46,218.07  | 19       | 2,432.53            | 10,603.15       | 4.36          | 283.33   |
| 277     | 65 Feet Pine           | 65   | 625,112.10 | 270      | 2,315.23            | 38,043.11       | 16.43         | 1,068.06 |
| 278     | 65 Feet Pine           | 65   | 5,610.36   | 3        | 1,870.12            | 3,239.14        | 1.73          | 112.58   |
| 279     | 65 Feet Pine           | 65   | 7,031.64   | 4        | 1,757.91            | 3,515.82        | 2.00          | 130.00   |
| 280     | 65 Feet Pine           | 65   | 5,312.16   | 2        | 2,656.08            | 3,756.26        | 1.41          | 91.92    |
| 281     | 65 Feet Pine           | 65   | 3,915.50   | 1        | 3,915.50            | 3,915.50        | 1.00          | 65.00    |
| 282     | 65 Feet Ponderosa Pine | 65   | 2,315.23   | 1        | 2,315.23            | 2,315.23        | 1.00          | 65.00    |
| 283     | 65 Feet Steel          | 65   | 15,160.44  | 6        | 2,526.74            | 6,189.22        | 2.45          | 159.22   |
| 284     | 65 Feet Wood           | 65   | 9,730.12   | 4        | 2,432.53            | 4,865.06        | 2.00          | 130.00   |
| 285     | 65 Feet Wood           | 65   | 456,100.31 | 197      | 2,315.23            | 32,495.80       | 14.04         | 912.32   |
| 286     | 65 Feet Wood           | 65   | 56,103.60  | 30       | 1,870.12            | 10,243.07       | 5.48          | 356.02   |
| 287     | 65 Feet Wood           | 65   | 5,273.73   | 3        | 1,757.91            | 3,044.79        | 1.73          | 112.58   |
| 288     | 65 Feet Wood           | 65   | 1,395.17   | 1        | 1,395.17            | 1,395.17        | 1.00          | 65.00    |
| 289     | 65 Feet Wood           | 65   | 4,630.46   | 2        | 2,315.23            | 3,274.23        | 1.41          | 91.92    |
| 290     | 70 Feet Cedar          | 70   | 14,839.68  | 7        | 2,119.95            | 5,608.87        | 2.65          | 185.20   |
| 291     | 70 Feet Cedar          | 70   | 3,108.37   | 2        | 1,554.19            | 2,197.95        | 1.41          | 98.99    |
| 292     | 70 Feet Cedar          | 70   | 3,351.27   | 1        | 3,351.27            | 3,351.27        | 1.00          | 70.00    |
| 293     | 70 Feet Pine           | 70   | 11,719.76  | 4        | 2,929.94            | 5,859.88        | 2.00          | 140.00   |
| 294     | 70 Feet Pine           | 70   | 145,923.52 | 64       | 2,280.06            | 18,240.44       | 8.00          | 560.00   |
| 295     | 70 Feet Pine           | 70   | 12,433.48  | 4        | 3,108.37            | 6,216.74        | 2.00          | 140.00   |
| 296     | 70 Feet Pine           | 70   | 2,921.87   | 1        | 2,921.87            | 2,921.87        | 1.00          | 70.00    |
| 297     | 70 Feet Wood           | 70   | 5,859.88   | 2        | 2,929.94            | 4,143.56        | 1.41          | 98.99    |
| 298     | 70 Feet Wood           | 70   | 143,450.24 | 101      | 1,420.30            | 14,273.83       | 10.05         | 703.49   |
| 299     | 70 Feet Wood           | 70   | 2,921.87   | 1        | 2,921.87            | 2,921.87        | 1.00          | 70.00    |
| 300     | 75 Feet Cedar          | 75   | 7,528.02   | 2        | 3,764.01            | 5,323.11        | 1.41          | 106.07   |
| 301     | 75 Feet Pine           | 75   | 10,477.04  | 2        | 5,238.52            | 7,408.39        | 1.41          | 106.07   |
| 302     | 75 Feet Pine           | 75   | 86,572.23  | 23       | 3,764.01            | 18,051.56       | 4.80          | 359.69   |
| 303     | 75 Feet Unknown        | 75   | 3,764.01   | 1        | 3,764.01            | 3,764.01        | 1.00          | 75.00    |
| 304     | 75 Feet Wood           | 75   | 10,477.04  | 2        | 5,238.52            | 7,408.39        | 1.41          | 106.07   |
| 305     | 75 Feet Wood           | 75   | 158,088.42 | 42       | 3,764.01            | 24,393.57       | 6.48          | 486.06   |
| 306     | 75 Feet Wood           | 75   | 3,312.33   | 1        | 3,312.33            | 3,312.33        | 1.00          | 75.00    |
| 307     | 75 Feet Wood           | 75   | 7,528.02   | 2        | 3,764.01            | 5,323.11        | 1.41          | 106.07   |
| 308     | 80 Feet Cedar          | 80   | 3,771.74   | 1        | 3,771.74            | 3,771.74        | 1.00          | 80.00    |
| 309     | 80 Feet Douglas Fur    | 80   | 3,771.74   | 1        | 3,771.74            | 3,771.74        | 1.00          | 80.00    |
| 310     | 80 Feet Pine           | 80   | 7,543.48   | 6        | 1,257.25            | 3,079.61        | 2.45          | 195.96   |
| 311     | 80 Feet Pine           | 80   | 3,319.13   | 1        | 3,319.13            | 3,319.13        | 1.00          | 80.00    |
|         |                        |      | 2,3.00     |          | -,                  | 2,2 · 2 · · · · |               |          |

### Account 364 - Poles

|     |   |      |                   |          | Actual<br>Unit Cost | Linear Regression Inputs |             |        |  |
|-----|---|------|-------------------|----------|---------------------|--------------------------|-------------|--------|--|
| #   | Description                               | Size | Cost              | Quantity | (\$ per Unit)       | y*n^0.5                  | n^0.5       | xn^0.5 |  |
| 312 | 85 Feet Cedar                             | 85   | 8,512.34          | 1        | 8,512.34            | 8,512.34                 | 1.00        | 85.00  |  |
| 313 | 85 Feet Pine                              | 85   | 72,274.59         | 9        | 8,030.51            | 24,091.53                | 3.00        | 255.00 |  |
| 314 | TOTAL                                     |      | \$ 208,768,892.28 | 210,115  |                     |                          |             |        |  |
| 315 |   |      |                   |          |                     |                          |             |        |  |
| 316 | Zero Intercept Linear Regression Results  |      |                   |          |                     | LINEST                   | Array       |        |  |
| 317 |   |      |                   |          |                     |                          |             |        |  |
| 318 | Size Coefficient (\$ per MCM)             |      | 35.01859          |          |                     | 35.01859                 | (386.51047) |        |  |
| 319 | Zero Intercept (\$ per Unit)              |      | (386.51047)       |          |                     | 1.14938                  | 46.01274    |        |  |
| 320 | R-Square                                  |      | 0.9810            |          |                     | 0.98099                  | 3,703.78655 |        |  |
| 321 |   |      |                   |          |                     |                          |             |        |  |
| 322 | Plant Classification                      |      |                   |          |                     |                          |             |        |  |
| 323 |   |      |                   |          |                     |                          |             |        |  |
| 324 | Total Number of Units                     |      | 210,115           |          |                     |                          |             |        |  |
| 325 | Zero Intercept (\$/Unit)                  |      | \$ (386.51)       |          |                     |                          |             |        |  |
| 326 | Minimum System (\$/Unit)                  |      | \$ -              |          |                     |                          |             |        |  |
| 327 | Use Min System (M) or Zero Intercept (Z)? |      | Z                 |          |                     |                          |             |        |  |
| 328 | Zero Intercept or Min System Cost (\$)    |      | \$ (81,211,648)   |          |                     |                          |             |        |  |
| 329 | Total Cost of Sample                      |      | \$ 208,768,892    |          |                     |                          |             |        |  |
| 330 | Percentage of Total                       |      | -0.3890           |          |                     |                          |             |        |  |
| 331 | Percentage Classified as Customer-Related |      | -38.90%           |          |                     |                          |             |        |  |
| 332 | Percentage Classified as Demand-Related   |      | 138.90%           |          |                     |                          |             |        |  |

### **Account 368 - Transformers**

| Description   Size   Color   Quantity   Color   Quantity   Color   Quantity   Color   Quantity      | Account 368 - Transformers |                  |       |               |          | Actual                     | Linear Re  | Linear Regression Inputs |                  |  |  |
|--|----------------------------|------------------|-------|---------------|----------|----------------------------|------------|--------------------------|------------------|--|--|
| 2   124/005/DYCZEOV   100   254/655   8   367547   376   526 | #                          | Description      | Size  | Cost          | Quantity | Unit Cost<br>(\$ per Unit) | y*n^0.5    | n^0.5                    | xn^0.5           |  |  |
| 1  | 1                          | 34500GRDY/19920V | 100   | \$ 119,722.60 | 20       | 5,986.13                   | 26,770.79  | 4.47                     | 447.21           |  |  |
| MANUSHAPPY   1000   1004   1004   1014   1015   1016   1   | 2                          | 12470GRDY/7200V  | 100   | 737,701.52    | 164      | 4,498.18                   | 57,604.81  | 12.81                    | 1,280.62         |  |  |
| 5   Second Print Floro   100   31,794.13   1   31,794.13   10,544.20   32,333   33,3 | 3                          | 12470GRDY/7200V  | 1000  | 245,405.36    | 8        | 30,675.67                  | 86,763.90  | 2.83                     | 2,828.43         |  |  |
| MANUSCRIPTON   1100  | 4                          | 12470GRDY/7200V  | 1000  | 604,088.47    | 19       | 31,794.13                  | 138,587.40 | 4.36                     | 4,358.90         |  |  |
| 1  | 5                          | 34500GRDY/19920V | 1000  | 31,794.13     | 1        | 31,794.13                  | 31,794.13  | 1.00                     | 1,000.00         |  |  |
| Beautiful   1925   1927, 1929   192   | 6                          | 34500GRDY/19920V | 1000  | 349,735.43    | 11       | 31,794.13                  | 105,449.20 | 3.32                     | 3,316.62         |  |  |
| 9 SERGISCHIVITISTORY 112.5   | 7                          | 12470GRDY/7200V  | 112.5 | 109,569.33    | 13       | 8,428.41                   | 30,389.06  | 3.61                     | 405.62           |  |  |
| 10   SECONDALYPYZDOW   110   498-408-46   5   13,281-50   30,592-50   62,701   31,   | 8                          | 12470GRDY/7200V  | 112.5 | 127,176.52    | 4        | 31,794.13                  | 63,588.26  | 2.00                     | 225.00           |  |  |
| 1  | 9                          | 34500GRDY/19920V | 112.5 | 165,726.84    | 12       | 13,810.57                  | 47,841.22  | 3.46                     | 389.71           |  |  |
| 12   12-WORKINY/SERV   150   158-WORK   15   14   14-22-5   14   14-22-5   14   14-22-5   15   15   15   15   15   15   15   | 10                         | 34500GRDY/19920V | 112.5 | 68,408.45     | 5        | 13,681.69                  | 30,593.19  | 2.24                     | 251.56           |  |  |
| Selectificative   1999   | 11                         | 12470GRDY/7200V  | 150   | 463,137.75    | 45       | 10,291.95                  | 69,040.50  | 6.71                     | 1,006.23         |  |  |
| 14   SARIGE DETENTATION   190   59,019.776   4   14,725.80   22,640.83   22,640.83   23,000   50,000   | 12                         | 12470GRDY/7200V  | 150   | 101,004.40    | 10       | 10,100.44                  | 31,940.40  | 3.16                     | 474.34           |  |  |
| 15   15470060777200V   1500   697/50148   16   43,965,03   174,28012   1,400   6,000   16   3450060701920V   1500   76   1500   20,57800   16   38,486,15   44,87974   2,121   17   3450060701920V   1500   76   174,78755   22   75,005   16   38,486,15   44,87974   2,121   18   3450060701920V   120   128   133,88110   10   13,38811   42,278,88   18   18   17   12   1247006077200V   225   43,006   10   13,38811   42,278,88   18   18   17   12   1247006077200V   225   44,006   2   16,400,00   24,44.68   17,3   23   345006060791820V   225   144,945,80   7   18,400,00   24,44.68   17,3   24   3450060701920V   225   144,945,80   7   18,400,00   24,44.68   17,3   25   345006060791820V   225   147,006   24,400,00   22,252   144   10   26   1247006077200V   226   228,44.60   2   18,400,00   22,252   144   10   27   1247006077200V   226   228,44.60   2   18,400,00   22,252   144   10   28   1247006077200V   226   228,44.60   2   18,400,00   22,252   144   10   28   1247006077200V   226   228,44.60   2   18,400,00   22,000   22,000   29   1247006077200V   226   228,24.60   2   18,400,00   2   29   1247006077200V   250   50,376,02   1   50,376,02   50,376,02   1   29   1247006077200V   250   50,376,02   1   50,376,02   50,376,02   1   29   1247006077200V   250   60,744,75   53   15,205,75   110,017.93   7.26   2,460   20   1247006077200V   250   60,744,75   53   15,205,75   110,017.93   7.26   2,460   20   1247006077200V   250   60,744,75   53   15,205,75   10,017.93   4   20   1247006077200V   250   60,744,75   60,000   60,744,75   53   10,000   60,744,75   60,000   60,744,75   60,000   60,744,75   60,000   60,744,75   60,000   60,744,75   60,000   60,744,75   60,000   60,744,75   60,000   60,744,75   60,000   60,744,75   60,000   60,744,75   60,000   60,744,75   60,000   60,744,75   60,000   60,744,75   60,0 | 13                         | 34500GRDY/19920V | 150   | 158,207.17    | 11       | 14,382.47                  | 47,701.26  | 3.32                     | 497.49           |  |  |
| 66   | 14                         | 34500GRDY/19920V | 150   | 56,918.76     | 4        | 14,229.69                  | 28,459.38  | 2.00                     | 300.00           |  |  |
|  | 15                         | 12470GRDY/7200V  | 1500  | 697,040.48    | 16       | 43,565.03                  | 174,260.12 | 4.00                     | 6,000.00         |  |  |
| 18   | 16                         | 34500GRDY/19920V | 1500  | 76,912.30     | 2        | 38,456.15                  | 54,385.21  | 1.41                     | 2,121.32         |  |  |
| 19   12470GROVYZDOV  | 17                         | 3450GRDY/19920V  | 1500  | 230,736.90    | 6        | 38,456.15                  | 94,197.94  | 2.45                     | 3,674.23         |  |  |
| 12   12   12   12   12   12   12   12  | 18                         | 3450GRDY/19920V  | 167   | 171,687.56    | 22       | 7,803.98                   | 36,603.91  | 4.69                     | 783.30           |  |  |
| 14700ROV77200V   | 19                         | 12470GRDY/7200V  | 167   | 456,761.76    | 78       | 5,855.92                   | 51,718.09  | 8.83                     | 1,474.90         |  |  |
| 22 SASSOCIRDY/1980W 225 11.4648.80 7 16.420.80 43.445.35 2.85 SRS  | 20                         | 12470GRDY/7200V  | 225   | 133,681.10    | 10       | 13,368.11                  | 42,273.68  | 3.16                     | 711.51           |  |  |
| 23 34500GRDY19820V 225 107,131.24 40 23.28.04 15,765.04 0.76 1.00 25.00 12470GRDY1720V 25 14270GRDY1720V 25 14270GRDY1720V 25 14270GRDY1720V 250 50,773.02 1 1 6,073.76 2 50,371.02 1 10.0 25.00 25.00 1 1 6,073.76 2 50,371.02 1 10.0 25.00 25. | 21                         | 12470GRDY/7200V  | 225   | 49,262.40     | 3        | 16,420.80                  | 28,441.66  | 1.73                     | 389.71           |  |  |
| 24 34900GROY/19920V 25 107,131.24 66 2,388.94 15,798.64 5,78 188 25 12470GROY/200V 25 0 8,207.06 177 24,078.78 33,322.00 18,30 33,22 26 12470GROY/200V 25 0 8,207.06 1 5,078.06 3,079.06 2 1 5,078.06 3,079.06 2 1 5,078.06 2 1 5, | 22                         | 34500GRDY/19920V | 225   | 114,945.60    | 7        | 16,420.80                  | 43,445.35  | 2.65                     | 595.29           |  |  |
| 24 SASDIGNOYINSBUY 25 107.31.24 46 2.328.34 15.78.64 5.78 188 26 12470CROYYZOUV 25 442.1229 177 24.078 32.22.00 18.30 33.22 26 12470CROYYZOUV 250 9.927.05 1 8.207.05 12.00 25.00 27 12470CROYYZOUV 250 6.205.22 1 5.62.95.22 10.00 25.00 28 34500CROYY109DUY 250 6.205.22 1 5.62.95.22 10.00 25.00 28 34500CROYY109DUY 300 62.05.22 1 5.62.95.22 10.00 25.00 29 12470CROYYZOUV 300 62.05.22 1 5.62.95.22 10.00 25.00 20 12470CROYYZOUV 300 70 27.08.65 1 6 14.24.13 6.00 27.08 27 780.95 1 6 14.24.13 6.00 27.08 1 1.00 25.00 27 780.95 1 6 14.24.13 6.00 27.08 1 1.00 25.00 27 780.95 1 780.00 1 1.00 25.00 27 780.95 1 780.00 1 1.00 25.00 27 780.95 1 780.00 1 1.00 25.00 27 780.95 1 780.00 1 1.00 25.00 27 780.95 1 780.00 1 1.00 25.00 27 780.95 1 780.00 1 1.00 25.00 27 780.95 1 780.00 1 1.00 25.00 27 780.95 1 780.00 1 1.00 25.00 27 780.95 1 780.00 1 1.00 25.00 27 780.95 1 780.00 1 1.00 25.00 27 780.95 1 780.00 1 1.00 25.00 27 780.95 1 780.00 1 1.00 25.00 27 780.95 1 780.00 1 1.00 25.00 28 34500GROYY109DUY 500 1.00 25.00 25.00 25.00 25.00 25.00 25.00 28 34500GROYY109DUY 500 1.00 25.00  | 23                         | 34500GRDY/19920V | 225   | 32,841.60     | 2        | 16,420.80                  | 23,222.52  | 1.41                     | 318.20           |  |  |
| 25 147/05RDYYZBOV 26 441,22.99 177 2,407.81 33,22.20 13.30 332 27 147/05RDYYZBOV 2500 59,379.62 1 69,379.02 59,379.02 1.00 2500 28 34500SRDYYBBOV 2500 59,379.62 1 69,379.02 59,379.02 1.00 2500 29 1447/05RDYYZBOV 300 87,949.75 33 15,203.75 11,0917.03 7.28 2.194 20 1447/05RDYYZBOV 300 37,4482.00 16 15,005.81 75,623.24 4.00 1.200 20 1447/05RDYYZBOV 300 37,4482.00 16 15,005.81 75,623.24 4.00 1.200 21 347/05RDYYZBOV 300 37,4482.00 16 15,005.81 75,623.24 4.00 1.200 23 34500SRDYYBBOV 300 37,4482.00 16 15,005.81 75,623.24 4.00 1.200 23 34500SRDYYBBOV 300 37,4482.00 16 15,005.81 75,623.24 4.00 1.200 23 34500SRDYYBBOV 300 37,4482.00 16 15,005.81 75,623.24 4.00 1.200 24 34500SRDYYBBOV 300 37,4482.00 16 15,005.81 75,623.24 4.00 1.200 25 34500SRDYYBBOV 300 37,4482.00 16 15,005.81 75,623.24 1.00 1.200 25 34500SRDYYBBOV 300 37,4482.00 16 15,005.81 75,623.24 1.00 1.200 25 34500SRDYYBBOV 50 10,04809.18 55 14,048.09 12 12 1 1,091.20 1.00 1.00 1.00 1.00 1.00 1.00 1.00  |                            | 34500GRDY/19920V |       | ·             | 46       |                            |            | 6.78                     | 169.56           |  |  |
| 26   147/05RDYYZQDV   250   9.207.05   1   9.207.05   9.207.05   1.00   250   250.075  |                            | 12470GRDY/7200V  |       |               |          | ·                          |            |                          | 332.60           |  |  |
| 27 1470GRDY72DDV 2500 69.379.62 1 69.379.62 59.379.62 1.00 2.500 28 3450GRDY718DV 2500 85.285.22 1 59.285.25 1.00 2.500 29 12470GRDY72DDV 300 87.481.78 53 15.285.78 11.00 14.00 31 2470GRDY72DDV 300 87.481.78 53 15.285.78 11.00 14.00 31 3450GRDY718DV 300 314.482.99 16 19.055.81 7.66.367.48 4.00 1.700 31 3450GRDY718DV 300 314.482.99 16 19.055.81 7.66.367.48 4.00 1.700 33 3450GRDY718DV 50 47.783.80 4.00 1.700 33 3450GRDY718DV 50 47.783.80 4.00 1.700 34 14.77GRDY72DDV 50 47.783.80 4.00 1.700 35 14.77GRDY72DDV 50 1.700 36 12470GRDY72DDV 50 1.700 37 12470GRDY72DDV 50 0 50.750.750 38 3450GRDY718DV 50 0 50.750.750 38 3450GRDY718DV 50 0 50.750.750 38 3450GRDY718DV 50 0 50 0 50.7754 3 16.6671.8 131.440.76 7.75 3.672 39 3450GRDY718DV 50 0 50 0 50.7754 3 16.6671.8 131.440.76 7.75 3.672 30 3450GRDY718DV 50 0 50 0 50.7754 3 16.6671.8 131.440.76 7.75 3.672 31 3450GRDY718DV 50 0 50 0 50.7754 3 16.6671.8 131.440.76 7.75 3.672 31 3450GRDY718DV 50 0 50 0 50.7754 3 16.6671.8 131.440.76 7.75 3.672 31 3450GRDY718DV 50 0 50 0 50.7754 3 16.6671.8 131.440.76 7.75 3.672 31 3450GRDY718DV 50 0 50 0 50.7754 3 16.6671.8 131.440.76 7.75 3.672 31 3450GRDY718DV 50 0 50 0 50.7754 3 16.6671.8 131.440.76 7.75 3.672 31 3450GRDY718DV 50 0 50 0 50.7754 3 16.6671.8 131.440.76 7.75 3.672 31 3450GRDY718DV 50 0 50 0 50.7754 3 16.6671.8 131.440.76 7.75 3.672 31 3450GRDY718DV 50 0 50 0 50.7754 3 3 50.750 0 3.750 |                            |                  |       | ·             | 1        | ·                          | ·          |                          | 250.00           |  |  |
| 28 34500GRDY/1992UV 300 82,245.22 11 82,285.22 12,925.22 1.00 8.20 1.00 8.20 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1  |                            |                  |       | •             | 1        | ·                          |            |                          | 2,500.00         |  |  |
| 29 12470GRDY/2200V 300 807,494.75 53 15,282.75 11.0919.33 7.28 2,185.00 12470GRDY/2200V 300 304,492.96 16 19,065.81 76,6967.48 4.00 1,204.00 13.00 314,492.96 16 19,065.81 76,623.24 4.00 1,203.00 314,902.00 16 19,000.01 7 18,043.13 49,325.00 2,66 7.203.33 34500GRDY/19920V 50 427,838.90 94 4.543.5 41,075.8 9.70 4.84 12470GRDY/2200V 50 1,337,197.50 450 2,267.55 63,030.00 92.12 1,000.00 1,00 |                            |                  |       |               | 1        |                            |            |                          | 2,500.00         |  |  |
| 12470GRDY/7200V   300   227,889.92   16  |                            |                  |       | ,             | 53       | ·                          | ·          |                          | 2,184.03         |  |  |
| 34500KRDY/1992DV   300   314.492.96   16   19.655.61   75.6673.24   4.00   11.200   1.000      |                            |                  |       |               |          |                            |            |                          | 1,200.00         |  |  |
| 32 34500RDY/19920V 50 147.638.90 94 4.549.35 4.4107.58 9.70 484 34 12470RDY/7200V 50 1.374.975.0 450 51 2470RDY/7200V 500 1.084.980.15 55 18.725.33 146.268.89 7.42 3.708 51 12470RDY/7200V 500 1.084.980.15 55 18.725.33 146.268.89 7.42 3.708 51 12470RDY/7200V 500 1.084.980.15 55 18.725.33 146.268.89 7.42 3.708 51 12470RDY/7200V 500 1.084.980.15 55 18.725.33 146.268.89 7.42 3.708 53 34500RDY/19920V 500 50.372.411.01 17 21.908.53 93.322.94 4.12 2.666.338.09 3.4500RDY/19920V 500 21.255.21 1 21.255.21 10.500 50 3450GRDY/19920V 500 52.535.84 26 21.255.21 10.05.00 50 3450GRDY/19920V 75 260.372.00 40 5.209.38 2.2947.01 6.22 474 51 3450GRDY/7200V 75 386.561.30 106 3.741.05 38.516.47 10.30 7.72 51 12470GRDY/7200V 75 90.552.655.48 26 21.255.21 10.857.37 4.12 3.082 51 42470GRDY/7200V 75 90.552.655.48 26 21.255.21 10.857.37 4.12 3.082 51 3450GRDY/19920V 75 90.565.655.30 106 3.741.05 38.516.47 10.30 7.72 51 12470GRDY/7200V 750 90.561.42 39 25.369.78 165.621.88 0.24 4.48 52 3450GRDY/19920V 750 30.982.76 1 30.982.76 10.667.37 4.12 3.082 51 3450GRDY/19920V 750 61.785.52 2 2 30.882.76 43.888.80 1.41 1.00 7.50 51 3450GRDY/19920V 750 61.785.52 2 2 30.882.76 43.888.80 1.41 1.00 7.50 51 3450GRDY/19920V 750 61.785.52 2 2 30.882.76 43.888.80 6.1.14 1.00 7.50 51 2470GRDY/7200V 1000 31.784.13 1 4 2.286.83 6.817.65 2.30 1.50 51 2470GRDY/7200V 1000 31.784.13 1 3.784.13 1.00 1.00 52 12470GRDY/7200V 1000 31.784.13 1 3.784.13 1.00 1.00 52 12470GRDY/7200V 1000 31.784.13 1 3.784.13 1.00 1.00 53 12470GRDY/7200V 1000 31.784.13 1 3.784.13 1.00 1.00 54 12470GRDY/7200V 1000 31.784.13 1 3.784.13 1.00 1.00 55 12470GRDY/7200V 1000 31.784.13 1 1 1.010.44 1 10.00 1.50 56 12470GRDY/7200V 1000 31.784.13 1 1 1.010.44 1 10.00 1.50 57 12470GRDY/7200V 1000 31.784.13 1 1 1.010.44 1 10.00 1.50 58 12470GRDY/7200V 1000 31.784.13 1 1 1.010.44 1 10.00 1.50 58 12470GRDY/7200V 100 31.784.13 1 1 1.010.44 1 1.010.44 1 1.00 1.50 59 12470GRDY/7200V 100 100 31.784.13 1 1 1.010.44 1 1.010.44 1 1.00 1.50 50 12470GRDY/7200V 100 100 31.784.13 1 1 1.010.44 1 1.010.44 1 1.00 1.5 |                            |                  |       |               |          |                            |            |                          | 1,200.00         |  |  |
| 33         344000RDV/19020V         50         427 G8B.90         94         4.549.35         4.4107.58         9.70         448           34         124700RDV/7200V         500         1.034.893.15         55         18725.33         1416.286.98         7.42         3.70           37         124700RDV/7200V         500         1.014.893.15         55         18725.33         1416.286.98         7.42         3.73           37         124700RDV/7200V         500         0.1071.54         3         18.957.18         29.370.70         1.73         8.86           38         34500CRDV/19920V         500         372.411.01         7         21.968.21         21.255.21         1.00         500           39         3450CRDV/19920V         75         208.375.20         40         5.209.38         32.947.01         6.32         47           41         2470CRDV/7200V         75         208.375.20         40         5.209.38         32.947.01         6.32         47           42         12470CRDV/7200V         750         386.551.30         10         5.203.38         38.2947.01         6.32         47           43         12470CRDV/7200V         750         448.073.22         17 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>793.73</td></t<>  |                            |                  |       |               |          |                            |            |                          | 793.73           |  |  |
| 14   1247GRDY/7200V  |                            |                  |       | •             | •        | ·                          | ·          |                          | 484.77           |  |  |
| 15         1247OSRDY/7200V         500         1,084,893.16         55         19,726.33         144,289.98         7,42         3,775   |                            |                  |       | •             |          | ·                          | ·          |                          | 1,060.66         |  |  |
| 88       12470GRDY/7200V       500       1.017,430.80       60       1.6967.18       29,370.70       173       3.686         38       3.4600GRDY/19920V       500       372,411.01       17       21,906.53       90,322.94       4.12       2,061         38       3.4600GRDY/19920V       500       212,556.21       1       21,255.21       21,256.21       4.12       2,061         40       3.4500GRDY/19920V       75       28,377.20       40       5,000.88       2.947.01       6.32       247         42       12470GRDY/7200V       75       396,551.30       106       3,741.05       38,516.47       10.30       77         43       12470GRDY/7200V       760       48,877.25       10,637.25       10,673.73       1.1       12,366         44       12470GRDY/7200V       760       48,877.25       1       26,367.25       10,673.73       1.2       1.3       12,476GRDY/7200V       760       30,982.76       1       30,982.76       156,621.68       6.2       4,483         43       12470GRDY/7200V       750       30,982.76       1       30,982.76       30,982.76       10,00       2,924         46       3450GRDY/19920V       750       161,447.32   |                            |                  |       |               |          | ·                          |            |                          | 3,708.10         |  |  |
| 124TOGRDYT2BOV   |                            |                  |       |               |          |                            |            |                          | 3,872.98         |  |  |
| 38       34500GRDY/19820V       500       372,411.01       17       21,956.21       12,256.21       10,26,61         40       3450GRDY/19820V       500       525,263.46       26       21,256.21       108,380,73       5.10       2.540         41       3450GRDY/19820V       75       208,376.20       40       5,209.38       32,947.01       6.32       -44         42       12470GRDY/7200V       75       396,561.30       106       3,741.05       38,516.47       10.30       772         43       12470GRDY/7200V       750       948,681.32       17       26,337.25       108,673.73       4.12       3,092.76         44       12470GRDY/7200V       750       948,681.42       39       25,399.78       136,621.58       6.24       4,683         45       34500GRDY/19820V       750       61,786.52       2       30,982.76       1       30,982.76       30,982.76       10.30,882.76       10.00       750         47       34500GRDY/19820V       750       21,781.47       9       29,088.83       58,173.66       2.00       15,00         49       12470GRDY/7200V       100       30,875.67       1       30,075.67       10.00       10.76  |                            |                  |       |               |          |                            |            |                          | 866.03           |  |  |
| 38         34500GRDY/19820V         500         21,255,21         1         21,255,21         21,255,21         1.00         50           40         3450GRDY/19820V         75         203,375,20         40         5,209,38         32,947,01         6,32         474           41         3450GRDY/19820V         75         308,651,30         108         3,741,105         38,516,47         103,00         772           43         12470GRDY/200V         750         448,073,25         17         28,357,25         108,673,73         412         30,00           45         3450GRDY/19820V         750         30,892,76         1         25,309,78         18,862158         62,4         4,881           45         3450GRDY/19820V         750         61,785,52         2         30,882,76         30,892,76         1,00         750           48         3450GRDY/19820V         750         161,781,747         9         29,086,83         52,173,66         2,0         1,500           48         3450GRDY/19820V         750         261,781,47         9         29,086,83         52,173,66         2,0         1,500           48         2450GRDY/19820V         100         44,818         10         1,4   |                            |                  |       | •             |          |                            |            |                          |                  |  |  |
| 0  |                            |                  |       | ·             |          |                            | ·          |                          | 500.00           |  |  |
| 41         3450GRDY/19920V         75         208,378.20         40         5,209.38         32,947.01         6.32         4.74           42         12470GRDY/200V         75         366,551.30         106         3,516.47         10.30         772           43         12470GRDY/7200V         750         448,073.25         17         26,357.25         108,673.73         4.12         3.092           44         12470GRDY/7200V         750         990,591.42         39         25,389.78         156,621.58         6.24         4,683           34500GRDY/19920V         750         61,785.52         2         30,892.76         43,688.96         1.41         1,000           48         3450GRDY/19920V         750         161,6347.32         4         29,086.83         82,260.49         3.00         22,64           48         3450GRDY/19920V         100         44,881.80         10         44,881.81         14,224.49         3.16         3.16         3.16           50         12470GRDY/7200V         100         30,675.67         1         30,675.67         1.00         1,000         31,794.13         1         30,675.67         30,675.67         1.00         1,000         1,000         1,000  |                            |                  |       | ·             | -        |                            |            |                          |                  |  |  |
| 12470GRDY/7200V  |                            |                  |       |               |          |                            |            |                          | 474.34           |  |  |
| 43   12470GRDV/7200V   |                            |                  |       |               |          |                            |            |                          | 474.34<br>772.17 |  |  |
| 44         12470GRDY/7200V         750         990,591,42         39         25,389.78         158,821,58         6,24         4,683           45         34500GRDY/19920V         750         30,892.76         1         30,892.76         30,892.76         30,892.76         30,892.76         30,892.76         30,892.76         30,892.76         43,688.86         1,41         1,060           47         34500GRDY/19920V         750         161,647.32         4         29,986.83         58,720.49         30.0         2,250           49         12470GRDY/7200V         100         44,981.80         10         4,498.18         14,224.49         3.16         316         316         316         316         316         316         316         316         316         316         317,9413         310         31,9413         31,00   |                            |                  |       |               |          | ·                          |            |                          |                  |  |  |
| 45         34500GRDY/19920V         750         30.892.76         1         30.892.76         430.882.76         1.00         759           46         34500GRDY/19920V         750         61.785.52         2         30.892.76         43.888.96         1.41         1.00           47         34500GRDY/19920V         750         116.347.32         4         29.086.83         58.715.66         2.00         1.50           48         3450GRDY/19920V         750         261.781.47         9         29.086.83         67.260.49         3.00         2.250           49         12470GRDY/7200V         100         44.981.80         10         4.4981.81         14.224.49         3.16         3.16         3.1794.13         1         30.675.67         30.675.67         10.00         10.00           51         12470GRDY/7200V         150         51.459.75         5         10.291.95         23.013.50         2.24         335           53         12470GRDY/7200V         150         10.104.41         10.100.44         10.100.44         10.100.44         10.100.44         10.100.44         10.100.44         10.100.44         10.100.44         10.100.44         10.100.44         10.100.44         10.100.44         10.100.44         <   |                            |                  |       |               |          |                            |            |                          |                  |  |  |
| 66         34500GRDY/1982DV         750         61,785,52         2         30,892,76         43,688,96         1,41         10,06           47         34500GRDY/1982DV         750         116,347,32         4         29,086,83         58,173,66         2.00         1,500           48         34500GRDY/1982DV         750         261,781,47         9         29,086,83         57,260,49         3.00         2,250           49         12470GRDY/72DOV         1000         30,675,67         1         30,675,67         30,675,67         1.00         1,000           51         12470GRDY/72DOV         1000         31,794,13         1         31,794,13         31,794,13         11,00         1,000           52         12470GRDY/72DOV         150         10,291,95         5         10,291,95         12,301,350         2,24         335           53         12470GRDY/72DOV         150         10,291,95         1         10,291,95         10,291,95         10,291,95         10,291,95         10,00         150           56         12470GRDY/72DOV         150         10,291,95         1         10,291,95         10,00         150           57         12470GRDY/72DOV         300         48,707,25 <td></td> <td></td> <td></td> <td></td> <td>39</td> <td>·</td> <td>·</td> <td></td> <td>· ·</td>   |                            |                  |       |               | 39       | ·                          | ·          |                          | · ·              |  |  |
| 47         34500GRDY/1992DV         750         116,347.32         4         29,086.83         58,173.66         2.00         1,500           49         12470GRDY/1992DV         750         261,781.47         9         29,086.83         87,260.49         3.00         2,250           49         12470GRDY/72DOV         100         44,981.80         10         4,498.18         14,224.49         3.16         3.66           50         12470GRDY/72DOV         1000         30,675.67         1         30,675.67         30,675.67         1.00         1,00           51         12470GRDY/72DOV         150         51,459.75         5         10,291.95         23,013.50         2.24         335           34500GRDY/1992DV         150         10,219.95         1         10,291.95         10,100.44         10,100.44         10,100.44         10,100.44         10,00.44 <t< td=""><td></td><td></td><td></td><td>•</td><td>1</td><td>·</td><td></td><td></td><td></td></t<>   |                            |                  |       | •             | 1        | ·                          |            |                          |                  |  |  |
| 48         3450GRDY/19920V         750         261781,47         9         29,086,83         87,260,49         3,00         2,250           49         12470GRDY/7200V         100         44,981,80         10         4,486,18         14,224,49         3,16         36           50         12470GRDY/7200V         1000         30,675,67         1         30,675,67         30,675,67         1,00         1,00           51         12470GRDY/7200V         150         51,485,75         5         10,291,95         23,013,50         22,4         35           53         12470GRDY/7200V         150         10,291,95         1         10,291,95         10,291,95         10,0         150           54         34500GRDY/19920V         150         10,100,44         1         10,100,44         10,100,44         10,100,44         10,100,44         10,00         150           55         12470GRDY/7200V         300         45,707.25         3         15,255,75         26,389.09         1,73         519           56         12470GRDY/7200V         300         76,178.75         5         15,235,75         26,389.09         1,73         519           57         12470GRDY/7200V         300         39,   |                            |                  |       |               | 2        |                            |            |                          |                  |  |  |
| 49         12470GRDY/7200V         100         44,981,80         10         4,981,80         11,424,49         3.16         316           50         12470GRDY/7200V         1000         30,675,67         1         30,675,67         30,675,67         10.0         10,00           51         12470GRDY/7200V         150         51,489,75         5         10,291,95         23,013,50         2,24         335           53         12470GRDY/7200V         150         10,291,95         1         10,291,95         10,291,95         10,291,95         10,291,95         10,291,95         10,291,95         10,0044         10,100,44         10,100   |                            |                  |       | •             | 4        | ·                          | ·          |                          |                  |  |  |
| 60         12470GRDY/7200V         1000         30.875.67         1         30.675.67         30.675.67         10.0         1,000           51         12470GRDY/7200V         1000         31,794.13         1         31,794.13         31,794.13         31,00         1,000           52         12470GRDY/7200V         150         51,459.75         5         10,291.95         22,013.50         2,24         335           53         12470GRDY/7200V         150         10,291.95         1         10,291.95  |                            |                  |       | •             | •        | ·                          |            |                          |                  |  |  |
| 51         12470GRDV/7200V         1000         31,794.13         1         31,794.13         31,794.13         1,00         1,000           52         12470GRDV/7200V         150         51,459.75         5         10,291.95         12,013.50         2.24         335           53         12470GRDV/7200V         150         10,291.95         1         10,291.95         10,001.44         10,100.44         10,100.44         10,100.44         10,100.44         10,100.44         10,100.44         10,100.44         10,100.44         10,100.44         10,291.95         10.291.95         10.0         150           56         12470GRDV/7200V         300         45,707.25         3         15,235.75         26,389.09         1.73         519           57         12470GRDV/7200V         300         76,178.75         5         15,235.75         26,389.09         1.73         519           58         12470GRDV/7200V         300         76,178.75         5         15,235.75         34,068.17         224         670           59         34500GRDV/19920V         300         78,910.32         4         19,725.33         39,450.66         2.00         1,000           61         12470GRDV/7200V         500  |                            |                  |       |               | 10       | ·                          |            |                          |                  |  |  |
| 62         12470GRDV/7200V         150         51,459.75         5         10,291.95         23,013.50         2.24         335           53         12470GRDV/7200V         150         10,291.95         1         10,291.95         10,291.95         1.00         150           54         34500GRDV/19920V         150         10,100.44         1         10,100.44         10,100.44         1.01         10,291.95         10,291.95         10,291.95         10,291.95         10,291.95         10,00         150         150         10,291.95         1         10,291.95         10,291.95         10,00         150         150         10,291.95         1         10,291.95         10,291.95         10,00         150         150         10,291.95         1         10,291.95         10,291.95         10,291.95         10,00         150         150         150         150.957.81         1         10,291.95         10,291.95         10,00         150         150         150.84         14,241.87         20,141.05         1,44         44         42         14,241.87         20,141.05         1,44         44         42         14,241.87         20,141.05         1,44         46         20,241.05         1,44         1,42         1,42  |                            |                  |       | •             | 1        | ·                          | ·          |                          | *                |  |  |
| 53         12470GRDV/7200V         150         10,291.95         1         10,291.95         10,291.95         10,291.95         10,00.44         10,100.44         10,200.70         10,100.44         10,100.44         10,100.44         10,100.44         10,100.44         10,100.44  |                            |                  |       | •             | 1        | ·                          | ·          |                          |                  |  |  |
| 54         34500GRDY/19920V         150         10,100.44         1         10,100.44         10,291.95         10,00         150           56         12470GRDY/7200V         300         48,767.75         3         15,235.75         26,388.99         1.73         51           58         12470GRDY/7200V         300         76,178.75         5         15,235.75         34,068.17         2.24         60           12470GRDY/7200V         300         78,901.32         4         19,725.33         39,450.66         2.00         1,000           61         12470GRDY/7200V         500         101,743.08         6         16,957.18         41,536.44         2.45         1,224           62         12470GRDY/7200V         500         19,725.33         1         19,725.33         19,725.33         10,00         50           63         12470GRD  |                            |                  |       | ·             | 5        | ·                          |            |                          | 335.41           |  |  |
| 55         12470GRDY/7200V         150         10,291.95         1         10,291.95         10,291.95         1,00         150           56         12470GRDY/7200V         300         45,707.25         3         15,235.75         26,389.09         1,73         519           58         12470GRDY/7200V         300         28,483.74         2         14,241.87         20,141.05         1,41         424           58         12470GRDY/7200V         300         39,311.62         2         19,655.81         27,797.51         1,41         424           60         12470GRDY/7200V         500         78,901.32         4         19,725.33         39,450.66         2.00         1,000           61         12470GRDY/7200V         500         10,743.08         6         16,957.18         41,536.44         2.45         1,224           62         12470GRDY/7200V         500         16,957.18         1         16,957.18         16,957.18         10.00         500           63         12470GRDY/7200V         500         19,725.33         1         19,725.33         19,725.33         1.00         500           65         34500GRDY/19920V         500         42,510.42         2         21,255.21   |                            |                  |       |               | 1        |                            |            |                          | 150.00           |  |  |
| 56         12470GRDY/7200V         300         45,707.25         3         15,235.75         26,389.09         1.73         519           57         12470GRDY/7200V         300         28,483.74         2         14,241.87         20,141.05         1.41         424           58         12470GRDY/7200V         300         76,178.75         5         15,235.75         34,068.17         2.24         607           59         34500GRDY/19920V         300         39,311.62         2         19,655.81         27,797.51         1.41         424           60         12470GRDY/7200V         500         78,901.32         4         19,725.33         39,450.66         2.00         1,000           61         12470GRDY/7200V         500         16,957.18         1         16,957.18         41,536.44         2.45         1,224           62         12470GRDY/7200V         500         19,725.33         1         19,925.33         19,725.33         1,00         500           63         12470GRDY/7200V         500         65,719.59         3         21,906.53         37,943.22         1,73         866           64         34500GRDY/19920V         500         65,719.59         3         21,906.53   |                            |                  |       |               | 1        |                            |            |                          | 150.00           |  |  |
| 57         12470GRDY/7200V         300         28,483.74         2         14,241.87         20,141.05         1.41         424           58         12470GRDY/7200V         300         76,178.75         5         15,235.75         34,068.17         2.24         670           59         34500GRDY/7200V         300         39,311.62         2         19,655.81         27,79.51         1.41         424           60         12470GRDY/7200V         500         78,901.32         4         19,725.33         39,450.66         2.00         1,000           61         12470GRDY/7200V         500         101,743.08         6         16,957.18         41,536.44         2.45         1,224           62         12470GRDY/7200V         500         16,957.18         1         16,957.18         16,957.18         10,957.18         11,9725.33         1,00         500           63         12470GRDY/7200V         500         19,725.33         1         19,725.33         1,9725.33         1,00         500           64         34500GRDY/19920V         500         65,719.59         3         21,906.53         37,943.22         1,73         866           65         34500GRDY/19920V         75         7   |                            |                  |       |               | 1        |                            |            |                          | 150.00           |  |  |
| 58         12470GRDY/7200V         300         76,178.75         5         15,235.75         34,068.17         2.24         670           59         34500GRDY/1920V         300         39,311.62         2         19,655.81         27,797.51         1.41         424           60         12470GRDY/7200V         500         78,901.32         4         19,725.33         39,450.66         2.00         1,000           61         12470GRDY/7200V         500         101,743.08         6         16,957.18         41,536.44         2,45         1,224           62         12470GRDY/7200V         500         16,957.18         1         16,957.18         16,957.18         10,00         500           63         12470GRDY/7200V         500         19,725.33         1         19,725.33         19,725.33         1.00         500           64         34500GRDY/19920V         500         65,719.59         3         21,906.53         37,943.22         1.73         866           65         34500GRDY/19920V         500         42,510.42         2         21,255.21         30,059.41         1.41         707           66         12470GRDY/7200V         75         7,482.10         2         3,741.05<   |                            |                  |       | •             | _        |                            |            |                          | 519.62           |  |  |
| 59         34500GRDY/19920V         300         39,311.62         2         19,655.81         27,797.51         1.41         424           60         12470GRDY/7200V         500         78,901.32         4         19,725.33         39,450.66         2.00         1,000           61         12470GRDY/7200V         500         101,743.08         6         16,957.18         41,536.44         2.45         1,224           62         12470GRDY/7200V         500         16,957.18         1         16,957.18         16,957.18         1.00         500           63         12470GRDY/7200V         500         65,719.59         3         21,906.53         37,943.22         1.73         866           65         34500GRDY/19920V         500         65,719.59         3         21,906.53         37,943.22         1.73         866           65         34500GRDY/19920V         500         42,510.42         2         21,255.21         30,059.41         1.41         707           66         12470GRDY/7200V         75         7,482.10         2         3,741.05         5,290.64         1.41         1.06           67         12470GRDY/7200V         750         25,399.78         1         25,399.78<   |                            |                  |       | •             | 2        |                            | •          |                          | 424.26           |  |  |
| 60         12470GRDY/7200V         500         78,901.32         4         19,725.33         39,450.66         2.00         1,000           61         12470GRDY/7200V         500         101,743.08         6         16,957.18         41,536.44         2.45         1,224           62         12470GRDY/7200V         500         16,957.18         1         16,957.18         16,957.18         1.00         500           63         12470GRDY/7200V         500         19,725.33         1         19,725.33         19,725.33         1.00         500           64         34500GRDY/19920V         500         65,719.59         3         21,906.53         37,943.22         1.73         866           65         34500GRDY/19920V         500         42,510.42         2         21,255.21         30,059.41         1.41         707           66         12470GRDY/7200V         75         7,482.10         2         3,741.05         15,290.64         1.41         106           67         12470GRDY/7200V         750         52,714.50         2         26,357.25         37,274.78         1.41         1,060           69         12470GRDY/7200V         750         52,399.78         1         25,399.78   |                            |                  |       | •             | 5        |                            |            |                          | 670.82           |  |  |
| 61       12470GRDY/7200V       500       101,743.08       6       16,957.18       41,536.44       2.45       1,224         62       12470GRDY/7200V       500       16,957.18       1       16,957.18       16,957.18       1.00       500         63       12470GRDY/7200V       500       19,725.33       1       19,725.33       19,725.33       1.00       500         64       34500GRDY/19920V       500       65,719.59       3       21,906.53       37,943.22       1.73       866         65       34500GRDY/19920V       500       42,510.42       2       21,255.21       30,059.41       1.41       707         66       12470GRDY/7200V       75       7,482.10       2       3,741.05       5,290.64       1.41       106         67       12470GRDY/7200V       75       74,821.00       20       3,741.05       16,730.48       4.47       335         68       12470GRDY/7200V       750       52,399.78       1       25,399.78       25,399.78       1.00       75         69       12470GRDY/7200V       750       50,799.56       2       25,399.78       35,920.71       1.41       1,060         71       12470GRDY/7200V       750  |                            |                  |       |               | 2        |                            |            |                          | 424.26           |  |  |
| 62       12470GRDY/7200V       500       16,957.18       1       16,957.18       16,957.18       1.00       500         63       12470GRDY/7200V       500       19,725.33       1       19,725.33       19,725.33       1.00       500         64       34500GRDY/19920V       500       65,719.59       3       21,906.53       37,943.22       1.73       866         65       34500GRDY/19920V       500       42,510.42       2       21,255.21       30,529.64       1.41       106         66       12470GRDY/7200V       75       7,482.10       2       3,741.05       5,290.64       1.41       106         67       12470GRDY/7200V       75       74,821.00       20       3,741.05       16,730.48       4.47       335         68       12470GRDY/7200V       750       52,714.50       2       26,357.25       37,274.78       1.41       1,060         69       12470GRDY/7200V       750       50,799.56       2       25,399.78       35,999.78       1.00       750         71       12470GRDY/7200V       750       25,399.78       1       25,399.78       35,990.78       1.00       75         72       34500GRDY/19920V       112.5  |                            |                  |       |               | 4        |                            |            |                          | 1,000.00         |  |  |
| 63       12470GRDY/7200V       500       19,725.33       1       19,725.33       19,725.33       1.00       500         64       34500GRDY/19920V       500       65,719.59       3       21,906.53       37,943.22       1.73       866         65       34500GRDY/19920V       500       42,510.42       2       21,255.21       30,059.41       1.41       707         66       12470GRDY/7200V       75       7,482.10       2       3,741.05       5,290.64       1.41       106         67       12470GRDY/7200V       75       74,821.00       20       3,741.05       16,730.48       4.47       335         68       12470GRDY/7200V       750       52,714.50       2       26,357.25       37,274.78       1.41       1,060         69       12470GRDY/7200V       750       25,399.78       1       25,399.78       25,399.78       1.00       750         70       12470GRDY/7200V       750       50,799.56       2       25,399.78       35,920.71       1.41       1,060         71       12470GRDY/7200V       750       25,399.78       1       25,399.78       25,399.78       1.00       75         72       34500GRDY/19920V       112  | 61                         |                  |       | 101,743.08    | 6        | 16,957.18                  | 41,536.44  | 2.45                     | 1,224.74         |  |  |
| 64       34500GRDY/19920V       500       65,719.59       3       21,906.53       37,943.22       1.73       866         65       34500GRDY/19920V       500       42,510.42       2       21,255.21       30,059.41       1.41       707         66       12470GRDY/7200V       75       7,482.10       2       3,741.05       5,290.64       1.41       106         67       12470GRDY/7200V       75       74,821.00       20       3,741.05       16,730.48       4.47       335         68       12470GRDY/7200V       750       52,714.50       2       26,357.25       37,274.78       1.41       1,060         69       12470GRDY/7200V       750       25,399.78       1       25,399.78       25,399.78       1.00       750         70       12470GRDY/7200V       750       50,799.56       2       25,399.78       35,920.71       1.41       1,060         71       12470GRDY/7200V       750       25,399.78       1       25,399.78       25,399.78       10.0       750         72       34500GRDY/19920V       112.5       13,810.57       1       13,810.57       13,810.57       10.0       112         73       12470GRDY/7200V   | 62                         |                  |       |               | 1        | 16,957.18                  |            | 1.00                     | 500.00           |  |  |
| 65         34500GRDY/19920V         500         42,510.42         2         21,255.21         30,059.41         1.41         707           66         12470GRDY/7200V         75         7,482.10         2         3,741.05         5,290.64         1.41         106           67         12470GRDY/7200V         75         74,821.00         20         3,741.05         16,730.48         4.47         335           68         12470GRDY/7200V         750         52,714.50         2         26,357.25         37,274.78         1.41         1,060           69         12470GRDY/7200V         750         25,399.78         1         25,399.78         25,399.78         1.00         750           70         12470GRDY/7200V         750         50,799.56         2         25,399.78         35,920.71         1.41         1,060           71         12470GRDY/7200V         750         25,399.78         1         25,399.78         25,399.78         1.00         750           72         34500GRDY/19920V         112.5         13,810.57         1         13,810.57         1.3810.57         1.00         112           73         12470GRDY/7200V         50         13,648.05         3         45,49.35  | 63                         | 12470GRDY/7200V  | 500   | 19,725.33     | 1        | 19,725.33                  | 19,725.33  | 1.00                     | 500.00           |  |  |
| 66       12470GRDY/7200V       75       7,482.10       2       3,741.05       5,290.64       1.41       106         67       12470GRDY/7200V       75       74,821.00       20       3,741.05       16,730.48       4.47       335         68       12470GRDY/7200V       750       52,714.50       2       26,357.25       37,274.78       1.41       1,060         69       12470GRDY/7200V       750       25,399.78       1       25,399.78       25,399.78       1.00       750         70       12470GRDY/7200V       750       50,799.56       2       25,399.78       35,920.71       1.41       1,060         71       12470GRDY/7200V       750       25,399.78       1       25,399.78       25,399.78       1.00       750         72       34500GRDY/19920V       750       25,399.78       1       25,399.78       25,399.78       1.00       750         73       12470GRDY/7200V       50       13,648.05       3       4,549.35       7,879.71       1.73       8660         74       34500GRDY/19920V       5000       243,802.32       3       81,267.44       140,759.34       1.73       8,660         75       12470GRDY/7200V   | 64                         | 34500GRDY/19920V | 500   | 65,719.59     | 3        | 21,906.53                  | 37,943.22  | 1.73                     | 866.03           |  |  |
| 67       12470GRDY/7200V       75       74,821.00       20       3,741.05       16,730.48       4.47       335         68       12470GRDY/7200V       750       52,714.50       2       26,357.25       37,274.78       1.41       1,060         69       12470GRDY/7200V       750       25,399.78       1       25,399.78       25,399.78       1.00       750         70       12470GRDY/7200V       750       50,799.56       2       25,399.78       35,920.71       1.41       1,060         71       12470GRDY/7200V       750       25,399.78       1       25,399.78       25,399.78       1.00       750         72       34500GRDY/19920V       750       13,810.57       1       13,810.57       13,810.57       1.00       112         73       12470GRDY/7200V       50       13,648.05       3       4,549.35       7,879.71       1.73       86         74       34500GRDY/19920V       500       243,802.32       3       81,267.44       140,759.34       1.73       8,660         75       12470GRDY/7200V       75       3,741.05       1       3,741.05       3,741.05       1.00       75         76       12470GRDY/7200V       75 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>707.11</td>   |                            |                  |       |               |          |                            |            |                          | 707.11           |  |  |
| 68       12470GRDY/7200V       750       52,714.50       2       26,357.25       37,274.78       1.41       1,060         69       12470GRDY/7200V       750       25,399.78       1       25,399.78       25,399.78       1.00       750         70       12470GRDY/7200V       750       50,799.56       2       25,399.78       35,920.71       1.41       1,060         71       12470GRDY/7200V       750       25,399.78       1       25,399.78       25,399.78       1.00       750         72       34500GRDY/19920V       112.5       13,810.57       1       13,810.57       13,810.57       1.00       112         73       12470GRDY/7200V       50       13,648.05       3       4,549.35       7,879.71       1.73       86         74       34500GRDY/19920V       5000       243,802.32       3       81,267.44       140,759.34       1.73       8,660         75       12470GRDY/7200V       75       3,741.05       1       3,741.05       3,741.05       1.00       75         76       12470GRDY/7200V       75       7,482.10       2       3,741.05       5,290.64       1.41       106         77       12470GRDY/7200V       1.5<  | 66                         |                  |       | •             |          |                            | 5,290.64   |                          | 106.07           |  |  |
| 69       12470GRDY/7200V       750       25,399.78       1       25,399.78       25,399.78       1.00       750         70       12470GRDY/7200V       750       50,799.56       2       25,399.78       35,920.71       1.41       1,060         71       12470GRDY/7200V       750       25,399.78       1       25,399.78       25,399.78       1.00       750         72       34500GRDY/19920V       112.5       13,810.57       1       13,810.57       13,810.57       1.00       112         73       12470GRDY/7200V       50       13,648.05       3       4,549.35       7,879.71       1.73       86         74       34500GRDY/19920V       5000       243,802.32       3       81,267.44       140,759.34       1.73       8,660         75       12470GRDY/7200V       75       3,741.05       1       3,741.05       3,741.05       1.00       75         76       12470GRDY/7200V       75       7,482.10       2       3,741.05       5,290.64       1.41       106         77       12470GRDY/7200V       1.5       1,371.72       2       685.86       969.95       1.41       2         78       1247GRDY/7200V       1.5       <   | 67                         | 12470GRDY/7200V  | 75    | 74,821.00     | 20       | 3,741.05                   | 16,730.48  | 4.47                     | 335.41           |  |  |
| 70       12470GRDY/7200V       750       50,799.56       2       25,399.78       35,920.71       1.41       1,060         71       12470GRDY/7200V       750       25,399.78       1       25,399.78       25,399.78       1.00       750         72       34500GRDY/19920V       112.5       13,810.57       1       13,810.57       13,810.57       1.00       112         73       12470GRDY/7200V       50       13,648.05       3       4,549.35       7,879.71       1.73       86         74       34500GRDY/19920V       5000       243,802.32       3       81,267.44       140,759.34       1.73       8,660         75       12470GRDY/7200V       75       3,741.05       1       3,741.05       3,741.05       1.00       75         76       12470GRDY/7200V       75       7,482.10       2       3,741.05       5,290.64       1.41       106         77       12470GRDY/7200V       1.5       1,371.72       2       685.86       969.95       1.41       2         78       1247GRDY/7200V       1.5       8,242.32       12       686.86       2,379.35       3.46       5  | 68                         |                  | 750   | 52,714.50     | 2        | 26,357.25                  | 37,274.78  | 1.41                     | 1,060.66         |  |  |
| 71       12470GRDY/7200V       750       25,399.78       1       25,399.78       25,399.78       1.00       750         72       34500GRDY/19920V       112.5       13,810.57       1       13,810.57       13,810.57       1.00       112         73       12470GRDY/7200V       50       13,648.05       3       4,549.35       7,879.71       1.73       86         74       34500GRDY/19920V       5000       243,802.32       3       81,267.44       140,759.34       1.73       8,660         75       12470GRDY/7200V       75       3,741.05       1       3,741.05       3,741.05       1.00       75         76       12470GRDY/7200V       75       7,482.10       2       3,741.05       5,290.64       1.41       106         77       12470GRDY/7200V       1.5       1,371.72       2       685.86       969.95       1.41       2         78       1247GRDY/7200V       1.5       8,242.32       12       686.86       2,379.35       3.46       5  | 69                         | 12470GRDY/7200V  | 750   | 25,399.78     | 1        | 25,399.78                  | 25,399.78  | 1.00                     | 750.00           |  |  |
| 72       34500GRDY/19920V       112.5       13,810.57       1 13,810.57       13,810.57       1.00       112         73       12470GRDY/7200V       50       13,648.05       3 4,549.35       7,879.71       1.73       86         74       34500GRDY/19920V       5000       243,802.32       3 81,267.44       140,759.34       1.73       8,660         75       12470GRDY/7200V       75       3,741.05       1 3,741.05       3,741.05       1.00       75         76       12470GRDY/7200V       75       7,482.10       2 3,741.05       5,290.64       1.41       106         77       12470GRDY/7200V       1.5       1,371.72       2 685.86       969.95       1.41       2         78       1247GRDY/7200V       1.5       8,242.32       12 686.86       2,379.35       3.46       5  | 70                         | 12470GRDY/7200V  | 750   | 50,799.56     | 2        | 25,399.78                  | 35,920.71  | 1.41                     | 1,060.66         |  |  |
| 72       34500GRDY/19920V       112.5       13,810.57       1       13,810.57       13,810.57       1.00       112         73       12470GRDY/7200V       50       13,648.05       3       4,549.35       7,879.71       1.73       86         74       34500GRDY/19920V       5000       243,802.32       3       81,267.44       140,759.34       1.73       8,660         75       12470GRDY/7200V       75       3,741.05       1       3,741.05       3,741.05       1.00       75         76       12470GRDY/7200V       75       7,482.10       2       3,741.05       5,290.64       1.41       106         77       12470GRDY/7200V       1.5       1,371.72       2       685.86       969.95       1.41       2         78       1247GRDY/7200V       1.5       8,242.32       12       686.86       2,379.35       3.46       5  | 71                         | 12470GRDY/7200V  | 750   | 25,399.78     | 1        | 25,399.78                  | 25,399.78  | 1.00                     | 750.00           |  |  |
| 73       12470GRDY/7200V       50       13,648.05       3       4,549.35       7,879.71       1.73       86         74       34500GRDY/19920V       5000       243,802.32       3       81,267.44       140,759.34       1.73       8,660         75       12470GRDY/7200V       75       3,741.05       1       3,741.05       3,741.05       1.00       75         76       12470GRDY/7200V       75       7,482.10       2       3,741.05       5,290.64       1.41       106         77       12470GRDY/7200V       1.5       1,371.72       2       685.86       969.95       1.41       2         78       1247GRDY/7200V       1.5       8,242.32       12       686.86       2,379.35       3.46       5   | 72                         | 34500GRDY/19920V | 112.5 | 13,810.57     | 1        | 13,810.57                  | 13,810.57  | 1.00                     | 112.50           |  |  |
| 74     34500GRDY/19920V     5000     243,802.32     3     81,267.44     140,759.34     1.73     8,660       75     12470GRDY/7200V     75     3,741.05     1     3,741.05     3,741.05     1.00     75       76     12470GRDY/7200V     75     7,482.10     2     3,741.05     5,290.64     1.41     106       77     12470GRDY/7200V     1.5     1,371.72     2     685.86     969.95     1.41     2       78     1247GRDY/7200V     1.5     8,242.32     12     686.86     2,379.35     3.46     5   | 73                         | 12470GRDY/7200V  |       |               | 3        |                            |            | 1.73                     | 86.60            |  |  |
| 75       12470GRDY/7200V       75       3,741.05       1       3,741.05       3,741.05       1.00       75         76       12470GRDY/7200V       75       7,482.10       2       3,741.05       5,290.64       1.41       106         77       12470GRDY/7200V       1.5       1,371.72       2       685.86       969.95       1.41       2         78       1247GRDY/7200V       1.5       8,242.32       12       686.86       2,379.35       3.46       5   |                            |                  |       |               | 3        |                            | ·          |                          | 8,660.25         |  |  |
| 76       12470GRDY/7200V       75       7,482.10       2       3,741.05       5,290.64       1.41       106         77       12470GRDY/7200V       1.5       1,371.72       2       685.86       969.95       1.41       2         78       1247GRDY/7200V       1.5       8,242.32       12       686.86       2,379.35       3.46       5  |                            | 12470GRDY/7200V  |       | ·             | 1        |                            | ·          |                          | 75.00            |  |  |
| 77 12470GRDY/7200V 1.5 1,371.72 2 685.86 969.95 1.41 2 78 1247GRDY/7200V 1.5 8,242.32 12 686.86 2,379.35 3.46 5  |                            |                  |       |               | 2        |                            |            |                          | 106.07           |  |  |
| 78 1247GRDY/7200V 1.5 8,242.32 12 686.86 2,379.35 3.46 5   |                            |                  |       | ·             |          |                            |            |                          | 2.12             |  |  |
|  |                            |                  |       |               |          |                            |            |                          | 5.20             |  |  |
| 10 12-11-200V 1.0 1,010.12 2 000.00 \$11.01 1.41 2   | 79                         | 1247GRDY/7200V   | 1.5   | 1,373.72      | 2        | 686.86                     | 971.37     | 1.41                     | 2.12             |  |  |

**Account 368 - Transformers** 

| Account 368 - Transformers |                                      |          |                        |               | Actual                     | Linear Regression Inputs |                |                    |  |
|----------------------------|--------------------------------------|----------|------------------------|---------------|----------------------------|--------------------------|----------------|--------------------|--|
| #                          | Description                          | Size     | Cost                   | Quantity      | Unit Cost<br>(\$ per Unit) | y*n^0.5                  | n^0.5          | xn^0.5             |  |
| 80                         | 34500GRDY/19920V                     | 1.5      | 1,167.96               | 1             | 1,167.96                   | 1,167.96                 | 1.00           | 1.50               |  |
| 81                         | 34500GRDY/19920V                     | 1.5      | 8,175.72               | 7             | 1,167.96                   | 3,090.13                 | 2.65           | 3.97               |  |
| 82                         | 12470GRDY/7200V                      | 1.5      | 686.86                 | 1             | 686.86                     | 686.86                   | 1.00           | 1.50               |  |
| 83                         | 12470GRDY/7200V                      | 10       | 8,512,197.37           | 5,699         | 1,493.63                   | 112,756.70               | 75.49          | 754.92             |  |
| 84                         | 12470GRDY/7200V                      | 10       | 47,796.16              | 32            | 1,493.63                   | 8,449.25                 | 5.66           | 56.57              |  |
| 85                         | 1247GRDY/7200V                       | 10       | 2,987.26               | 2             | 1,493.63                   | 2,112.31                 | 1.41           | 14.14              |  |
| 86                         | 34500GRDY/19920V                     | 10       | 14,126.50              | 10            | 1,412.65                   | 4,467.19                 | 3.16           | 31.62              |  |
| 87                         | 34500GRDY/19920V                     | 10       | 2,825.30               | 2             | 1,412.65                   | 1,997.79                 | 1.41           | 14.14              |  |
| 88                         | 34500GRDY/19920V                     | 10       | 4,237.95               | 3             | 1,412.65                   | 2,446.78                 | 1.73           | 17.32              |  |
| 89                         | 34500GRDY/19920V                     | 10       | 22,602.40              | 16            | 1,412.65                   | 5,650.60                 | 4.00           | 40.00              |  |
| 90                         | 1247GRDY/7200V                       | 10       | 4,480.89               | 3             | 1,493.63                   | 2,587.04                 | 1.73           | 17.32              |  |
| 91                         | 34500GRDY/19920V                     | 10       | 2,746,191.60           | 1,944         | 1,412.65                   | 62,284.89                | 44.09          | 440.91             |  |
| 92                         | 34500GRDY/19920V                     | 10       | 24,377.58              | 18            | 1,354.31                   | 5,745.85                 | 4.24           | 42.43              |  |
| 93                         | 1247GRDY/7200V                       | 10       | 2,987.26               | 2             | 1,493.63                   | 2,112.31                 | 1.41           | 14.14              |  |
| 94                         | 1247GRDY/7200V                       | 10       | 2,195,636.10           | 1,470         | 1,493.63                   | 57,266.64                | 38.34          | 383.41             |  |
| 95                         | 1247GRDY/7200V                       | 10       | 8,961.78               | 6             | 1,493.63                   | 3,658.63                 | 2.45           | 24.49              |  |
| 96                         | 1247GRDY/7200V                       | 100      | 3,486.42               | 1             | 3,486.42                   | 3,486.42                 | 1.00           | 100.00             |  |
| 97                         | 12470GRDY/7200V                      | 100      | 10,459.26              | 3             | 3,486.42                   | 6,038.66                 | 1.73           | 173.21             |  |
| 98                         | 12470GRDY/7200V                      | 100      | 622,755.00             | 210           | 2,965.50                   | 42,974.18                | 14.49          | 1,449.14           |  |
| 99                         | 12470GRD1/7200V<br>1247GRDY/7200V    | 100      | 128,997.54             | 37            | 3,486.42                   | 21,207.06                | 6.08           | 608.28             |  |
| 100                        | 34500GRDY/19920V                     | 100      | 485,007.40             | 124           | ·                          |                          | 11.14          |                    |  |
|                            | 34500GRDY/19920V<br>34500GRDY/19920V |          | ·                      |               | 3,911.35                   | 43,554.95                | 3.74           | 1,113.55           |  |
| 101                        |                                      | 100      | 45,201.52              | 14            | 3,228.68                   | 12,080.61                |                | 374.17             |  |
| 102                        | 34500GRDY/19920V                     | 100      | 9,978.66               | 2             | 4,989.33                   | 7,055.98                 | 1.41           | 141.42             |  |
| 103                        | 12470GRDY/7200V                      | 100      | 3,486.42               | 1             | 3,486.42                   | 3,486.42                 | 1.00           | 100.00             |  |
| 104                        | 12470GRDY/7200V                      | 100      | 45,323.46              | 13            | 3,486.42                   | 12,570.47                | 3.61           | 360.56             |  |
| 105                        | 34500GRDY/19920V                     | 100      | 829,206.20             | 212           | 3,911.35                   | 56,950.12                | 14.56          | 1,456.02           |  |
| 106                        | 34500GRDY/19920V                     | 100      | 370,687.50             | 125           | 2,965.50                   | 33,155.30                | 11.18          | 1,118.03           |  |
| 107                        | 34500GRDY/19920V                     | 100      | 2,030.53               | 1             | 2,030.53                   | 2,030.53                 | 1.00           | 100.00             |  |
| 108                        | 12470GRDY/7200V                      | 100      | 6,972.84               | 2             | 3,486.42                   | 4,930.54                 | 1.41           | 141.42             |  |
| 109                        | 12470GRDY/7200V                      | 100      | 3,817,629.90           | 1,095         | 3,486.42                   | 115,368.37               | 33.09          | 3,309.08           |  |
| 110                        | 12470GRDY/7200V                      | 100      | 119,461.16             | 37            | 3,228.68                   | 19,639.29                | 6.08           | 608.28             |  |
| 111                        | 12470GRDY/7200V                      | 100      | 29,655.00              | 10            | 2,965.50                   | 9,377.73                 | 3.16           | 316.23             |  |
| 112                        | 12470GRDY/7200V                      | 15       | 2,464.82               | 2             | 1,232.41                   | 1,742.89                 | 1.41           | 21.21              |  |
| 113                        | 12470GRDY/7200V                      | 15       | 19,660,636.73          | 15,953        | 1,232.41                   | 155,659.77               | 126.31         | 1,894.58           |  |
| 114                        | 12470GRDY/7200V                      | 15       | 189,523.18             | 154           | 1,230.67                   | 15,272.21                | 12.41          | 186.15             |  |
| 115                        | 34500GRDY/19920V                     | 15       | 114,019.20             | 64            | 1,781.55                   | 14,252.40                | 8.00           | 120.00             |  |
| 116                        | 34500GRDY/19920V                     | 15       | 2,147.48               | 2             | 1,073.74                   | 1,518.50                 | 1.41           | 21.21              |  |
| 117                        | 12470GRDY/7200V                      | 15       | 16,021.33              | 13            | 1,232.41                   | 4,443.52                 | 3.61           | 54.08              |  |
| 118                        | 34500GRDY/19920V                     | 15       | 7,435,290.14           | 4,978         | 1,493.63                   | 105,382.98               | 70.55          | 1,058.32           |  |
| 119                        | 34500GRDY/19920V                     | 15       | 68,787.02              | 46            | 1,495.37                   | 10,142.09                | 6.78           | 101.73             |  |
| 120                        | 34500GRDY/19920V                     | 15       | 7,468.15               | 5             | 1,493.63                   | 3,339.86                 | 2.24           | 33.54              |  |
| 121                        | 12470GRDY/7200V                      | 15       | 13,556.51              | 11            | 1,232.41                   | 4,087.44                 | 3.32           | 49.75              |  |
| 122                        | 12470GRDY/7200V                      | 15       | 3,082,212.51           | 2,301         | 1,339.51                   | 64,254.61                | 47.97          | 719.53             |  |
| 123                        | 12470GRDY/7200V                      | 15       | 41,125.80              | 30            | 1,370.86                   | 7,508.51                 | 5.48           | 82.16              |  |
| 124                        | 12470GRDY/7200V                      | 167      | 715,531.52             | 128           | 5,590.09                   | 63,244.65                | 11.31          | 1,889.39           |  |
| 125                        | 34500GRDY/19920V                     | 167      | 264,409.20             | 45            | 5,875.76                   | 39,415.80                | 6.71           | 1,120.27           |  |
| 126                        | 34500GRDY/19920V                     | 167      | 89,807.94              | 18            | 4,989.33                   | 21,167.93                | 4.24           | 708.52             |  |
| 127                        | 12470GRDY/7200V                      | 167      | 13,776.95              | 5             | 2,755.39                   | 6,161.24                 | 2.24           | 373.42             |  |
| 128                        | 34500GRDY/19920V                     | 167      | 240,906.16             | 41            | 5,875.76                   | 37,623.22                | 6.40           | 1,069.32           |  |
| 129                        | 34500GRDY/19920V                     | 167      | 305,730.17             | 61            | 5,011.97                   | 39,144.74                | 7.81           | 1,304.31           |  |
| 130                        | 34500GRDY/19920V                     | 167      | 468,997.02             | 94            | 4,989.33                   | 48,373.35                | 9.70           | 1,619.13           |  |
| 131                        | 12470GRDY/7200V                      | 167      | 537,301.05             | 195           | 2,755.39                   | 38,476.93                | 13.96          | 2,332.03           |  |
| 132                        | 12470GRDY/7200V                      | 167      | 120,964.20             | 28            | 4,320.15                   | 22,860.09                | 5.29           | 883.68             |  |
| 133                        | 12470GRDY/7200V                      | 167      | 41,925.60              | 15            | 2,795.04                   | 10,825.14                | 3.87           | 646.79             |  |
| 134                        | 12470GRD1/7200V<br>12470GRDY/7200V   | 167      | 17,280.58              | 2             | 8,640.29                   | 12,219.22                | 1.41           | 236.17             |  |
| 135                        | 12470GRD1/7200V<br>12470GRDY/7200V   | 167      | 2,755.39               | 1             | 2,755.39                   | 2,755.39                 | 1.00           | 167.00             |  |
| 136                        | 12470GRD1/7200V<br>12470GRDY/7200V   | 25       | 7,381.10               | 5             | 1,476.22                   | 3,300.93                 | 2.24           | 55.90              |  |
| 137                        | 12470GRDY/7200V<br>12470GRDY/7200V   | 25<br>25 | 41,343,017.32          | 28,006        | 1,476.22                   | 3,300.93<br>247,045.32   | 2.24<br>167.35 | 55.90<br>4,183.75  |  |
| 137                        | 12470GRDY/7200V<br>12470GRDY/7200V   | 25<br>25 | 587,389.44             | 28,006<br>409 |                            |                          | 20.22          | 4,183.75<br>505.59 |  |
| 138                        | 1247GRDY/7200V<br>1247GRDY/7200V     | 25<br>25 | 587,389.44<br>2,952.44 | _             | 1,436.16<br>1,476.22       | 29,044.54                | 20.22<br>1.41  | 35.36              |  |
|                            |                                      |          | ·                      | 2             | 1,476.22                   | 2,087.69                 |                |                    |  |
| 140                        | 1247GRDY/7200V                       | 25       | 1,476.22               | 1             | 1,476.22                   | 1,476.22                 | 1.00           | 25.00              |  |
| 141                        | 34500GRDY/19920V                     | 25       | 364,029.84             | 204           | 1,784.46                   | 25,487.19                | 14.28          | 357.07             |  |
| 142                        | 34500GRDY/19920V                     | 25       | 1,928.57               | 1             | 1,928.57                   | 1,928.57                 | 1.00           | 25.00              |  |
| 143                        | 34500GRDY/19920V                     | 25       | 5,353.38               | 3             | 1,784.46                   | 3,090.78                 | 1.73           | 43.30              |  |
| 144                        | 34500GRDY/19920V                     | 25       | 25,071.41              | 13            | 1,928.57                   | 6,953.56                 | 3.61           | 90.14              |  |
| 145                        | 12470GRDY/ 7200V                     | 25       | 41,334.16              | 28            | 1,476.22                   | 7,811.42                 | 5.29           | 132.29             |  |
| 146                        | 12470GRDY/ 7200V                     | 25       | 1,476.22               | 1             | 1,476.22                   | 1,476.22                 | 1.00           | 25.00              |  |
| 147                        | 34500GRDY/19920V                     | 25       | 1,784.46               | 1             | 1,784.46                   | 1,784.46                 | 1.00           | 25.00              |  |
| 148                        | 34500GRDY/19920V                     | 25       | 16,033,373.10          | 8,985         | 1,784.46                   | 169,147.61               | 94.79          | 2,369.73           |  |
| 149                        | 34500GRDY/19920V                     | 25       | 448,932.90             | 258           | 1,740.05                   | 27,949.34                | 16.06          | 401.56             |  |
| 150                        | 34500GRDY/19920V                     | 25       | 44,611.50              | 25            | 1,784.46                   | 8,922.30                 | 5.00           | 125.00             |  |
| 151                        | 12470GRDY/ 7200V                     | 25       | 41,334.16              | 28            | 1,476.22                   | 7,811.42                 | 5.29           | 132.29             |  |
| 152                        | 12470GRDY/ 7200V                     | 25       | 1,551.97               | 1             | 1,551.97                   | 1,551.97                 | 1.00           | 25.00              |  |
| 153                        | 12470GRDY/ 7200V                     | 25       | 5,208,295.95           | 3,315         | 1,571.13                   | 90,459.44                | 57.58          | 1,439.40           |  |
| 154                        | 12470GRDY/ 7200V                     | 25       | 158,300.94             | 102           | 1,551.97                   | 15,674.13                | 10.10          | 252.49             |  |
| 155                        | 12470GRDY/ 7200V                     | 25       | 28,723.10              | 10            | 2,872.31                   | 9,083.04                 | 3.16           | 79.06              |  |
| 156                        | 12470GRDY/ 7200V                     | 25       | 140,746.74             | 86            | 1,636.59                   | 15,177.11                | 9.27           | 231.84             |  |
| 157                        | 12470GRDY/ 7200V                     | 25       | 1,551.97               | 1             | 1,551.97                   | 1,551.97                 | 1.00           | 25.00              |  |
| 158                        | 12470GRDY/7200V                      | 250      | 49,004.85              | 15            | 3,266.99                   | 12,653.00                | 3.87           | 968.25             |  |
|                            | · - · · · <del>- • · ·</del>         |          | 12,00 1100             | .0            | - ,—                       | _,                       | 2.0.           | : 5 3 . <b>_ 0</b> |  |

### **Account 368 - Transformers**

| Account 368 - Transformers |                                    |                 |                      |           | Actual        | Linear Re      | Linear Regression Inputs |          |  |
|----------------------------|------------------------------------|-----------------|----------------------|-----------|---------------|----------------|--------------------------|----------|--|
| ш                          | Description                        | S:              | Cont                 | Ougatitus | Unit Cost     | * AO E         | ~ 40 F                   | v= 40 E  |  |
| #<br>159                   | Description<br>34500GRDY/19920V    | <b>Size</b> 250 | <b>Cost</b> 7,298.93 | Quantity  | (\$ per Unit) | <u>y*n^0.5</u> | n^0.5                    | xn^0.5   |  |
|                            |                                    |                 | •                    | 1         | 7,298.93      | 7,298.93       | 1.00                     | 250.00   |  |
| 160                        | 34500GRDY/19920V                   | 250             | 14,597.86            | 2         | 7,298.93      | 10,322.25      | 1.41                     | 353.55   |  |
| 161                        | 34500GRDY/19920V                   | 250             | 37,233.06            | 6         | 6,205.51      | 15,200.33      | 2.45                     | 612.37   |  |
| 162                        | 34500GRDY/19920V                   | 250             | 1,372,198.84         | 188       | 7,298.93      | 100,077.89     | 13.71                    | 3,427.83 |  |
| 163                        | 12470GRDY/ 7200V                   | 250             | 73,993.35            | 15        | 4,932.89      | 19,105.00      | 3.87                     | 968.25   |  |
| 164                        | 12470GRDY/ 7200V                   | 250             | 3,266.99             | 1         | 3,266.99      | 3,266.99       | 1.00                     | 250.00   |  |
| 165                        | 12470GRDY/ 7200V                   | 250             | 19,897.20            | 5         | 3,979.44      | 8,898.30       | 2.24                     | 559.02   |  |
| 166                        | 12470GRDY/ 7200V                   | 250             | 29,402.91            | 9         | 3,266.99      | 9,800.97       | 3.00                     | 750.00   |  |
| 167                        | 12470GRDY/ 7200V                   | 250             | 9,800.97             | 3         | 3,266.99      | 5,658.59       | 1.73                     | 433.01   |  |
| 168                        | 12470GRDY/ 7200V                   | 250             | 3,266.99             | 1         | 3,266.99      | 3,266.99       | 1.00                     | 250.00   |  |
| 169                        | 12470GRDY/ 7200V                   | 3               | 65,341.50            | 210       | 311.15        | 4,508.99       | 14.49                    | 43.47    |  |
| 170                        | 12470GRDY/ 7200V                   | 3               | 3,111.50             | 10        | 311.15        | 983.94         | 3.16                     | 9.49     |  |
| 171                        | 12470GRDY/ 7200V                   | 333             | 86,029.60            | 8         | 10,753.70     | 30,416.06      | 2.83                     | 941.87   |  |
| 172                        | 34500GRDY/19920V                   | 333             | 9,279.92             | 1         | 9,279.92      | 9,279.92       | 1.00                     | 333.00   |  |
| 173                        | 34500GRDY/19920V                   | 333             | 27,839.76            | 3         | 9,279.92      | 16,073.29      | 1.73                     | 576.77   |  |
| 174                        | 7200/12470Y                        | 333             | 5,599.95             | 3         | 1,866.65      | 3,233.13       | 1.73                     | 576.77   |  |
| 175                        | 34500GRDY/19920V                   | 333             | 13,992.84            | 3         | 4,664.28      | 8,078.77       | 1.73                     | 576.77   |  |
| 176                        | 34500GRDY/19920V                   | 333             | 816,632.96           | 88        | 9,279.92      | 87,053.37      | 9.38                     | 3,123.82 |  |
| 177                        | 12470GRDY/ 7200V                   | 333             | 11,199.90            | 6         | 1,866.65      | 4,572.34       | 2.45                     | 815.68   |  |
| 178                        | 12470GRDY/ 7200V                   | 333             | 4,664.28             | 1         | 4,664.28      | 4,664.28       | 1.00                     | 333.00   |  |
| 179                        | 12470GRDY/ 7200V                   | 333             | 13,992.84            | 3         | 4,664.28      | 8,078.77       | 1.73                     | 576.77   |  |
| 180                        | 12470GRDY/ 7200V                   | 37.5            | 12,332.11            | 7         | 1,761.73      | 4,661.10       | 2.65                     | 99.22    |  |
| 181                        | 12470GRDY/ 7200V                   | 37.50           | 174,195.45           | 99        | 1,759.55      | 17,507.30      | 9.95                     | 373.12   |  |
| 182                        | 12470GRD1/7200V<br>12470GRDY/7200V | 37.5            | 1,581,835.45         | 899       | 1,759.55      | 52,757.17      | 29.98                    | 1,124.37 |  |
|                            |                                    |                 |                      | _         |               |                |                          |          |  |
| 183                        | 12470GRDY/ 7200V                   | 37.5            | 1,759.55             | 1         | 1,759.55      | 1,759.55       | 1.00                     | 37.50    |  |
| 184                        | 12470GRDY/ 7200V                   | 37.5            | 927,282.85           | 527       | 1,759.55      | 40,393.08      | 22.96                    | 860.87   |  |
| 185                        | 12470GRDY/ 7200V                   | 37.5            | 5,620.86             | 3         | 1,873.62      | 3,245.21       | 1.73                     | 64.95    |  |
| 186                        | 12470GRDY/ 7200V                   | 5               | 204,114.40           | 656       | 311.15        | 7,969.33       | 25.61                    | 128.06   |  |
| 187                        | 12470GRDY/ 7200V                   | 5               | 19,602.45            | 63        | 311.15        | 2,469.68       | 7.94                     | 39.69    |  |
| 188                        | 12470GRDY/ 7200V                   | 50              | 2,012.94             | 1         | 2,012.94      | 2,012.94       | 1.00                     | 50.00    |  |
| 189                        | 12470GRDY/ 7200V                   | 50              | 13,108,265.28        | 6,512     | 2,012.94      | 162,438.15     | 80.70                    | 4,034.85 |  |
| 190                        | 12470GRDY/ 7200V                   | 50              | 790,649.58           | 402       | 1,966.79      | 39,434.02      | 20.05                    | 1,002.50 |  |
| 191                        | 12470GRDY/ 7200V                   | 50              | 4,240.08             | 2         | 2,120.04      | 2,998.19       | 1.41                     | 70.71    |  |
| 192                        | 12470GRDY/ 7200V                   | 50              | 4,240.08             | 2         | 2,120.04      | 2,998.19       | 1.41                     | 70.71    |  |
| 193                        | 34500GRDY/19920V                   | 50              | 361,913.68           | 136       | 2,661.13      | 31,033.84      | 11.66                    | 583.10   |  |
| 194                        | 34500GRDY/19920V                   | 50              | 60,116.48            | 23        | 2,613.76      | 12,535.15      | 4.80                     | 239.79   |  |
| 195                        | 34500GRDY/19920V                   | 50              | 15,966.78            | 6         | 2,661.13      | 6,518.41       | 2.45                     | 122.47   |  |
| 196                        | 12470GRDY/7200V                    | 50              | 16,103.52            | 8         | 2,012.94      | 5,693.45       | 2.83                     | 141.42   |  |
| 197                        | 12470GRDY/7200V                    | 50              | 2,012.94             | 1         | 2,012.94      | 2,012.94       | 1.00                     | 50.00    |  |
| 198                        | 34500GRDY/19920V                   | 50              | 6,562,788.48         | 2,736     | 2,398.68      | 125,467.24     | 52.31                    | 2,615.34 |  |
| 199                        | 34500GRDY/19920V                   | 50              | 505,512.00           | 224       | 2,256.75      | 33,775.94      | 14.97                    | 748.33   |  |
| 200                        | 34500GRDY/19920V                   | 50              | 2,398.68             | 1         | 2,398.68      | 2,398.68       | 1.00                     | 50.00    |  |
| 201                        | 34500GRDY/19920V                   | 50              | 91,149.84            | 38        | 2,398.68      | 14,786.46      | 6.16                     | 308.22   |  |
| 202                        | 12470GRDY/7200V                    | 50              | 20,129.40            | 10        | 2,012.94      | 6,365.48       | 3.16                     | 158.11   |  |
| 203                        | 12470GRDY/7200V                    | 50              | 2,012.94             | 1         | 2,012.94      | 2,012.94       | 1.00                     | 50.00    |  |
| 204                        | 12470GRDY/7200V                    | 50              | 5,988,496.50         | 2,975     | 2,012.94      | 109,792.91     | 54.54                    | 2,727.18 |  |
| 205                        | 12470GRD1/7200V                    | 50              | 62,451.90            | 30        | 2,081.73      | 11,402.10      | 5.48                     | 273.86   |  |
| 206                        | 12470GRD1/7200V<br>12470GRDY/7200V | 50              | 6,245.19             |           | 2,081.73      | 3,605.66       |                          | 86.60    |  |
|                            |                                    |                 | •                    | 3         | ·             |                | 1.73                     |          |  |
| 207                        | 12470GRDY/7200V                    | 50              | 27,535.06            | 14        | 1,966.79      | 7,359.05       | 3.74                     | 187.08   |  |
| 208                        | 12470GRDY/7200V                    | 50              | 129,067.26           | 62        | 2,081.73      | 16,391.56      | 7.87                     | 393.70   |  |
| 209                        | 12470GRDY/7200V                    | 50              | 106,685.82           | 53        | 2,012.94      | 14,654.42      | 7.28                     | 364.01   |  |
| 210                        | 12470GRDY/7200V                    | 500             | 29,017.96            | 2         | 14,508.98     | 20,518.80      | 1.41                     | 707.11   |  |
| 211                        | 34500GRDY/19920V                   | 500             | 30,941.52            | 3         | 10,313.84     | 17,864.09      | 1.73                     | 866.03   |  |
| 212                        | 34500GRDY/19920V                   | 500             | 154,707.60           | 15        | 10,313.84     | 39,945.33      | 3.87                     | 1,936.49 |  |
| 213                        | 34500GRDY/19920V                   | 500             | 20,627.68            | 2         | 10,313.84     | 14,585.97      | 1.41                     | 707.11   |  |
| 214                        | 12470GRDY/7200V                    | 500             | 8,725.46             | 1         | 8,725.46      | 8,725.46       | 1.00                     | 500.00   |  |
| 215                        | 34500GRDY/19920V                   | 500             | 10,313.84            | 1         | 10,313.84     | 10,313.84      | 1.00                     | 500.00   |  |
| 216                        | 34500GRDY/19920V                   | 500             | 3,754,237.76         | 364       | 10,313.84     | 196,775.53     | 19.08                    | 9,539.39 |  |
| 217                        | 12470GRDY/7200V                    | 500             | 17,450.92            | 2         | 8,725.46      | 12,339.66      | 1.41                     | 707.11   |  |
| 218                        | 12470GRDY/7200V                    | 500             | 34,901.84            | 4         | 8,725.46      | 17,450.92      | 2.00                     | 1,000.00 |  |
| 219                        | 12470GRDY/7200V                    | 500             | 43,526.94            | 3         | 14,508.98     | 25,130.29      | 1.73                     | 866.03   |  |
| 220                        | 34500GRDY/19920V                   | 667             | 237,218.32           | 23        | 10,313.84     | 49,463.44      | 4.80                     | 3,198.82 |  |
| 221                        | 12470GRDY/7200V                    | 7.5             | 311.15               | 1         | ,<br>311.15   | 311.15         | 1.00                     | 7.50     |  |
| 222                        | 12470GRDY/7200V                    | 7.5             | 622.30               | 2         | 311.15        | 440.03         | 1.41                     | 10.61    |  |
| 223                        | 12470GRDY/7200V                    | 7.5             | 622.30               | 2         | 311.15        | 440.03         | 1.41                     | 10.61    |  |
| 224                        | 12470GRD1/7200V<br>12470GRDY/7200V | 7.5<br>75       | 209,311.44           | 78        | 2,683.48      | 23,699.85      | 8.83                     | 662.38   |  |
| 225                        | 12470GRD1/7200V<br>12470GRDY/7200V | 75<br>75        | 56,216.80            | 20        | 2,810.84      | 12,570.46      | 4.47                     | 335.41   |  |
|                            |                                    |                 |                      |           | ·             |                |                          |          |  |
| 226                        | 34500GRDY/19920V                   | 75<br>75        | 191,365.76           | 64        | 2,990.09      | 23,920.72      | 8.00                     | 600.00   |  |
| 227                        | 34500GRDY/19920V                   | 75<br>75        | 11,762.88            | 6         | 1,960.48      | 4,802.18       | 2.45                     | 183.71   |  |
| 228                        | 12470GRDY/7200V                    | 75<br>75        | 2,810.84             | 1         | 2,810.84      | 2,810.84       | 1.00                     | 75.00    |  |
| 229                        | 12470GRDY/7200V                    | 75<br>          | 8,432.52             | 3         | 2,810.84      | 4,868.52       | 1.73                     | 129.90   |  |
| 230                        | 34500GRDY/19920V                   | <b>75</b>       | 206,316.21           | 69        | 2,990.09      | 24,837.55      | 8.31                     | 623.00   |  |
| 231                        | 34500GRDY/19920V                   | 75              | 67,087.00            | 25        | 2,683.48      | 13,417.40      | 5.00                     | 375.00   |  |
| 232                        | 12470GRDY/7200V                    | 75              | 2,683.48             | 1         | 2,683.48      | 2,683.48       | 1.00                     | 75.00    |  |
| 233                        | 12470GRDY/7200V                    | 75              | 2,119,373.36         | 754       | 2,810.84      | 77,183.03      | 27.46                    | 2,059.43 |  |
| 234                        | 12470GRDY/7200V                    | 75              | 81,642.90            | 30        | 2,721.43      | 14,905.89      | 5.48                     | 410.79   |  |
| 235                        | 12470GRDY/7200V                    | 75              | 5,621.68             | 2         | 2,810.84      | 3,975.13       | 1.41                     | 106.07   |  |
|                            |                                    |                 |                      |           |               |                |                          |          |  |

### **Account 368 - Transformers**

|     |   |      |                      |          | Actual<br>Unit Cost | Linea      | ar Regression Inpu | uts      |
|-----|---|------|----------------------|----------|---------------------|------------|--------------------|----------|
| #   | Description                               | Size | Cost                 | Quantity | (\$ per Unit)       | y*n^0.5    | n^0.5              | xn^0.5   |
| 236 | 34500GRDY/19920V                          | 833  | 36,159.31            | 1        | 36,159.31           | 36,159.31  | 1.00               | 833.00   |
| 237 | 34500GRDY/19920V                          | 833  | 433,911.72           | 12       | 36,159.31           | 125,259.52 | 3.46               | 2,885.60 |
| 238 | TOTAL                                     |      | \$<br>175,381,585.52 | 96,166   |                     |            |                    |          |
| 239 |   |      |                      |          |                     |            |                    |          |
| 240 | Zero Intercept Linear Regression Results  |      |                      |          |                     | LINES      | T Array            |          |
| 241 |   |      |                      |          |                     |            |                    |          |
| 242 | Size Coefficient (\$ per MCM)             |      | 25.36489             |          |                     | 25.36489   | 957.65569          |          |
| 243 | Zero Intercept (\$ per Unit)              |      | 957.65569            |          |                     | 0.69829    | 52.69681           |          |
| 244 | R-Square                                  |      | 0.9232               |          |                     | 0.92322    | 14,573.24692       |          |
| 245 |   |      |                      |          |                     |            |                    |          |
| 246 | Plant Classification                      |      |                      |          |                     |            |                    |          |
| 247 |   |      |                      |          |                     |            |                    |          |
| 248 | Total Number of Units                     |      | 96,166               |          |                     |            |                    |          |
| 249 | Zero Intercept (\$/Unit)                  |      | \$<br>957.66         |          |                     |            |                    |          |
| 250 | Minimum System (\$/Unit)                  |      | \$<br>311.15         |          |                     |            |                    |          |
| 251 | Use Min System (M) or Zero Intercept (Z)? |      | Z                    |          |                     |            |                    |          |
| 252 | Zero Intercept or Min System Cost (\$)    |      | \$<br>92,093,917     |          |                     |            |                    |          |
| 253 | Total Cost of Sample                      |      | \$<br>175,381,586    |          |                     |            |                    |          |
| 254 | Percentage of Total                       |      | <br>0.5251           |          |                     |            |                    |          |
| 255 | Percentage Classified as Customer-Related |      | 52.51%               |          |                     |            |                    |          |
| 256 | Percentage Classified as Demand-Related   |      | 47.49%               |          |                     |            |                    |          |

### STATE OF KENTUCKY

### KENTUCKY PUBLIC SERVICE COMMISSION

### In the Matter of:

| Electronic Application of Kentucky Power Company )      |                     |
|---|---------------------|
| For (1) A General Adjustment Of Its Rates For )         |                     |
| Electric Service; (2) Approval Of Tariffs And Riders; ) | Case No. 2023-00159 |
| (3) Approval Of Accounting Practices To Establish )     |                     |
| Regulatory Assets And Liabilities; (4) A                |                     |
| Securitization Financing Order; And (5) All Other )     |                     |
| Required Approvals And Relief )                         |                     |

### **DIRECT TESTIMONY OF**

### MICHAEL J. ADAMS

### ON BEHALF OF KENTUCKY POWER COMPANY

# DIRECT TESTIMONY OF MICHAEL J. ADAMS ON BEHALF OF KENTUCKY POWER COMPANY BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY

### CASE NO. 2023-00159

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### I. <u>INTRODUCTION AND BACKGROUND</u>

- 2 Q1. Please state your name and business address.
- 3 A1. My name is Michael Adams. My business address is 293 Boston Post Road West, Suite
- 4 500, Marlborough, Massachusetts 01752.
- 5 Q2. By whom are you employed and in what position?
- 6 A2. I am a Senior Vice President with Concentric Energy Advisors, Inc. ("Concentric").
- 7 Q3. Please describe Concentric.

1

- 8 A3. Concentric is a management consulting and economic advisory firm focused on the North
- 9 American energy and water industries. Concentric specializes in regulatory and litigation
- support, transaction-related financial advisory services, energy market strategies, market
- assessments, energy commodity contracting and procurement, economic feasibility
- studies, and capital market analyses and negotiations.
- 13 Q4. What are your responsibilities in your current position?
- 14 A4. As a consultant, my responsibilities include assisting clients in identifying and addressing
- business issues. My primary areas of focus have been regulatory-, financial- and
- accounting-related issues.
- 17 Q5. Please describe your education.
- 18 A5. I have a Masters of Business Administration in Finance from the University of Illinois –
- 19 Springfield and a Bachelor of Science in Accounting from Illinois College. I am a
- certified public accountant and a member of the American Institute of Certified Public
- Accountants and the Illinois Society of Certified Public Accountants.

Q6. Please describe your work experience.

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- 2 A6. I have worked for an investor-owned utility, a regulatory agency, and most recently as a
- 3 consultant to the energy industry. I have managed and/or participated in a wide variety of
- 4 consulting engagements. A statement of my background and qualifications is attached as
- 5 Kentucky Power Company Exhibit MJA-1.
- 6 Q7. Have you ever testified in a regulatory proceeding?
- 7 A7. Yes. I have provided expert testimony or reports before the Arizona Corporation
- 8 Commission; the Arkansas Public Service Commission; the City of El Paso; the
- 9 Connecticut Public Utilities Regulatory Authority, the Federal Energy Regulatory
- 10 Commission (FERC); the Georgia Public Service Commission; the Hawaii Public Utility
- 11 Commission; the Idaho Public Utilities Commission; the Illinois Commerce Commission;
- the Maine Public Utilities Commission; the Maryland Public Service Commission; the
- Massachusetts Department of Telecommunications and Energy; the Missouri Public
- Service Commission; the Public Service Commission of the State of Montana; the New
- Hampshire Public Utilities Commission; the New Mexico Public Regulation
- 16 Commission; the State of New Jersey Board of Public Utilities; the Oklahoma
- 17 Corporation Commission; the Ontario Energy Board; the Pennsylvania Public Utility
- Commission; the Tennessee Public Utility Commission; the Public Utility Commission
- of Texas; the State Corporation Commission of Virginia; and the Public Service
- 20 Commission of West Virginia.

| 1  |      | II. PURPOSE OF TESTIMONY  |
|----|------|---|
| 2  | Q8.  | What is the purpose of your direct testimony?   |
| 3  | A8.  | I have been asked by Kentucky Power Company ("Kentucky Power" or "the Company")         |
| 4  |      | to discuss the lead-lag study that was prepared by Concentric and used to develop cash  |
| 5  |      | working capital ("CWC") factors and ultimately to calculate the Company's CWC           |
| 6  |      | requirements. The CWC revenue lags and expense leads are set forth on Exhibit MJA-2     |
| 7  | Q9.  | Are you sponsoring any exhibits to your direct testimony?                               |
| 8  | A9.  | Yes. I am sponsoring Exhibit MJA-1, which is a statement of my background and           |
| 9  |      | qualifications and Exhibit MJA-2 which includes the calculated lead and lag days.       |
| 10 | Q10. | Are you sponsoring the Company's CWC requirement?                                       |
| 11 | A10. | No, Company Witness Whitney calculates and discusses the Company's CWC                  |
| 12 |      | requirement in her testimony.   |
| 13 |      | III. <u>CASH WORKING CAPITAL</u>  |
| 14 |      | A. OVERVIEW   |
| 15 | Q11. | What is "cash working capital"?   |
| 16 | A11. | CWC is the amount of funds required to finance the day-to-day operations of the         |
| 17 |      | Company.  |
| 18 | Q12. | How is the cash working capital amount determined?                                      |
| 19 | A12. | Cash working capital requirements are generally determined by lead-lag studies that are |
| 20 |      | used to analyze the lag time between the date customers receive service and the date    |
| 21 |      | customers' payments are received, processed, and available to the Company. This lag is  |
| 22 |      | offset by a lead time during which the Company receives goods and services but pays fo  |

them at a later date. The "leads" and "lags" are both measured in days. The lead and lag days are then divided by 365 to determine the daily CWC factors. These CWC factors are then multiplied by the annual test year revenues and expenses to determine the amount of cash working capital required for operations. The resulting amount of cash working capital is then included as part of the Company's rate base. The cash working capital adjustment to rate base, computed by applying the leads and lags resulting from my study to the adjusted test year operating revenues and expenses, is described in the direct testimony of Company Witness Whitney.

### Q13. What is a lead-lag study?

- A13. A lead-lag study is an analysis of the timing of applicable cash inflows to a utility in conjunction with an analysis of the timing of cash outflows from the utility. I will discuss cash inflows and outflows at various points throughout my testimony, but in brief they primarily involve operational expense and revenue items. Leads and lags are measured in days and are dollar-weighted, where appropriate, to reflect the flow of funds.
  - Q14. Is the approach employed to determine the Company's cash working capital requirements consistent with those that you have used and observed before other utility regulatory commission?
- 18 A14. Yes. The methodology that Concentric employed to determine the Company's cash
  19 working capital requirement has been adopted by numerous Commissions across the
  20 country.

### Q15. For what period was the lead-lag study performed?

A15. The lead-lag study analyzed the Company's cash transactions and invoices for the twelve months ended September 30, 2022 ("Study Period"). The period examined appropriately reflects the current practices and timing of the provisioning and receipt of goods and
services and the payment for such goods and services, as well as the Company's decision
to cease factoring of its accounts receivable in early 2022. The leads and lags were
applied to expenses and revenues for the twelve months ending March 31, 2023.

### 6. In general, how did you calculate the leads and lags in the study?

A17.

A16.

First, I obtained from the Company's Accounts Payable, Customer Service, Human Resources, Payroll, and Tax systems that identified the lead and lag periods for individual transactions during the Study Period for each revenue and expense category. Random sampling and invoice verification was performed, where appropriate. With this information, I calculated weighted averages of the lead and lag periods for each revenue and expense category. These calculations are included in Exhibit MJA-2 the workpapers which will be provided in response to Commission Staff's standard data request to provide all exhibits and schedules that were prepared in the utility's rate application.

# Q17. How were the results of the lead-lag study used to determine Kentucky Power's CWC requirement?

Kentucky Power uses what is called a gross lag methodology. Under the gross lag methodology, the revenue lag is divided by 365 days to calculate a CWC factor for revenues. This factor is then applied to total revenues to determine the CWC requirement for revenues. This same methodology was used to calculate the CWC factor for expense leads, which were also divided by 365 to calculate a CWC factor. The resulting factors were applied to expense amounts to determine the CWC requirement for these items. The impact of pass-through taxes and energy assistance charges has also been included in

- 1 the calculation of the CWC requirement. The methodology used for pass-through taxes
- and energy assistance charges is explained in detail later in my testimony.

### 3 B. REVENUE LAG

- 4 Q18. What is a revenue lag and how is it determined?
- 5 A18. The revenue lag measures the number of days from the date service was rendered to
- 6 customers until the date payment was received from customers and such funds become
- 7 available to the Company.
- 8 Q19. What are the components of the revenue lag?
- 9 A19. The revenue lag consists of the following components: 1) service lag; 2) billing lag; 3)
- 10 collection lag; 4) payment processing lag; and 5) bank float.
- 11 Q20. What is meant by service lag?
- 12 A20. Service lag refers to the period of time from when service is rendered to customers until
- the time the customers' meters are read. The average service lag was determined to be
- 14 15.21 days (i.e., 365 days of the year divided by 12 months divided by 2). Twelve months
- was appropriate to use for the purpose of determining the service lag given that Kentucky
- Power bills its customers monthly.
- 17 Q21. What is the mid-point methodology?
- 18 A21. To determine the service lead or lag, it was assumed that service was provided (or
- received) ratably over a given period (i.e., a month). For example, with the revenue lag,
- it was assumed that a customer received electric service ratably over an entire month and
- 21 not just at the end of a month. Adding the one-half month to the derivation of the lead or
- lag is referred to as the mid-point methodology.

### Q22. What is meant by "billing lag"?

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- 2 A22. Billing lag refers to the average number of days from the date on which the customers'
- meters were read until the date the customers are billed. Based on information provided
- by the Company, customers are billed the day after a meter reading occurs. Based on this
- 5 information, a billing lag of 1.46 days was determined.

### 6 Q23. What is meant by "collection lag"?

- 7 A23. The collection lag refers to the average amount of time from the date Kentucky Power
- 8 issues a bill to the customer to the date that the Company receives payment from that
- 9 customer. The collection lag was calculated using accounts receivable aging data for the
- Study Period. Based on the analysis of this data, Kentucky Power's average collections
- lag was determined to be 32.73 days.

### 12 Q24. Has the Company requested an additional 6 days be added to the collection lag?

- 13 A24. Yes, Company Witness Cobern is supporting the Company's proposal to extend
- customers' bill payment due date from 15 to 21 days. To account for that change, 6 days
- were added to the median collection lag days.

### 16 Q25. What is the payment processing lag?

- 17 A25. The payment processing lag reflects the time between the receipt of a customer's
- payment and the payment being processed and deposited into the Company's bank
- 19 account. Based on information provided by the Company, approximately 20 percent of
- payments are deposited on the same day as received, 61 percent are deposited the
- following day, and 19 percent are deposited the second day. Using this information, a
- payment processing lag of 0.99 days was calculated.

### Q26. What is meant by bank float?

A26. Bank float refers to the time between the Company's deposit of the customers' payment and the time the funds are available to the Company. Bank float data provided by the Company for the Study Period reflected a float time of 1.10 days between the date of deposit and the date the Company had access to the funds.

### 6 Q27. Please summarize Kentucky Power's revenue lag.

A27. Kentucky Power's revenue lag, by lag component, is summarized as follows:

| Service Lag            | 15.21 |  |
|------------------------|-------|--|
| Billing Lag            | 1.46  |  |
| Collections Lag        | 32.73 |  |
| Payment Processing Lag | 0.99  |  |
| Bank Float             | 1.10  |  |
| Total Lag Days         | 51.49 |  |

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## C. LEADS AND LAGS FOR PASS-THROUGH TAXES AND ENERGY ASSISTANCE CHARGES

### 11 Q28. What are pass-through taxes and energy assistance charges?

12 A28. Under state law and municipal ordinances, Kentucky Power is subject to taxes and
13 charges that are added to customers' bills. These amounts are typically referred to as
14 "pass-through" taxes. The Company is required to bill, collect, and remit these taxes and
15 charges to various governmental agencies. The billing, collection, and payment or
16 remittance of these taxes and charges create a timing difference in the Company's cash
17 flows that needs to be accounted for in Kentucky Power's CWC requirements.

| 1 | $\Omega$ 20 | What taxes other than income taxes were analyzed in the CWC study?   |
|---|-------------|--|
| 1 | UZ9.        | what taxes other than income taxes were analyzed in the C w C study? |

- 2 A29. The following taxes and charges have been included in the study: (1) Kentucky Sales and
- 3 Use Tax; (2) Utility Gross Receipts License Tax; (3) Federal Excise Taxes; (4) Local
- Franchise Fees; (5) Kentucky Sales and Use Tax Energy Exemption Annual Return; (6)
- 5 Local Street Lighting Fee; (7) Property/ Real Estate Tax; (8) Federal Unemployment
- 6 Taxes; (9) Kentucky Unemployment Taxes; and (10) West Virginia Unemployment
- 7 Taxes.

### 8 Q30. How were the taxes other than income taxes handled in your study?

- 9 A30. Pass-through taxes are included on the customers' monthly bills and the Company
- receives payments from its customers for these taxes at the same time as all other
- payments. Based on this information, the lag for collection of pass-through taxes and
- energy assistance charges is 51.49 days, which is the same as the overall revenue lag.
- 13 Q31. What are the leads associated with each type of taxes other than income taxes that
- 14 you considered in the cash working capital analysis?
- 15 A31. The treatment of each category of tax included in the study is described below:
- 1. <u>State Sales and Use Tax</u>: The Company is required to pay this tax monthly. The
- amounts are paid electronically and based on statutory filing and payment dates in
- the Study Period, a lead time of 40.23 days was calculated.
- 19 2. Utility Gross Receipts License Tax: The Company pays the taxes to fund schools.
- The Utility Gross Receipts License Tax is paid electronically. Based on the
- statutory filing and payment dates in the Study Period, a lead time of 35.28 days
- was calculated.

Federal Excise Taxes: The Company pays Federal Excise Taxes to the Internal
 Revenue Service quarterly. All Federal Excise tax payments are paid electronically.
 Based on the statutory filing and payment dates in the Study Period, a lead time of
 76.42 days was calculated.

- 4. <u>Local Franchise Fee</u>: The Company is required to pay franchise fees to various cities throughout Kentucky on either a monthly or quarterly basis. The payment frequency is determined by the ordinance approved by each locality. All Local Franchise Fee payments are paid via check. Based on statutory filing and payment dates in the Study Period, a lead time of 46.12 days was calculated.
- 5. <u>Kentucky Sales and Use Tax Energy Exemption Annual Return</u>: Kentucky Power is required to file an annual energy exemption return and report the calculated estimate for energy purchases on the sales and use tax return monthly. Based on statutory filing and payment dates in the Study Period, a lead time of 59.42 days was calculated.
- 6. <u>Local Street Lighting Fee</u>: Kentucky Power is obligated to pay street lighting fees to various localities. Based on statutory filing and payment dates in the Study Period a lead time of 207.23 days was calculated.
- 7. Property/ Real Estate Taxes: The state of Kentucky taxes all property which is not specifically exempted by the state constitution. Kentucky Power pays property/real estate taxes to more than 30 Kentucky counties. The payment frequency is determined by the ordinance approved by each locality, and all property tax payments are paid via check. Based on statutory filing and payment dates in the Study Period, a lead time of 264.85 days was calculated.

| 1 | 8. | <u>Federal Unemployment Taxes</u> : These taxes are remitted based on schedules |
|---|----|---|
| 2 |    | provided by the Internal Revenue Service. Based on statutory filing and payment |
| 3 |    | dates in the Study Period, a lead time of 75.24 days was calculated.            |
| 4 | 9. | Kentucky Unemployment Taxes: These taxes are remitted based on schedules        |
|   |    |   |

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- 9. <u>Kentucky Unemployment Taxes</u>: These taxes are remitted based on schedules provided by the Kentucky Department of Revenue. Based on statutory filing and payment dates in the Study Period, a lead time of 75.21 days was calculated.
- 10. West Virginia Unemployment Taxes: These taxes are remitted based on remittance dates provided by the West Virginia Department of Revenue. Based on the statutory filing and payment dates in the Study Period, a lead time of 75.31 days was calculated.

### Q32. How did you analyze federal and state income taxes for the lead-lag study?

- 12 A32. The Company is required to pay its federal and state income taxes four times a year, on
  13 April 15th, June 15th, September 15th, and December 15th for the current year. Using
  14 those payment dates for the Study Period, a lead time of 37.88 days was determined.
  15 This lead was applied to the current income taxes payable.
  - Q33. Has the Company reflected the revenue lag of 51.49 days for taxes other than income taxes?
- 18 A33. Yes. The lag is being shown separately in the revenue section of Exhibit MJA-2. For the
  19 other taxes, the Company has reflected a zero lag in the revenue section of Exhibit MJA20 2 and netted the revenue lag against the lead calculations.
  - Q34. Does the Company track the collection of these other taxes separately?
- A34. No, the funds are included on customers' bills and the funds are part of customers' overall payments.

### D. EXPENSE LEADS

2 Q35. What is an expense lead?

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- 3 A35. An expense lead is the time difference between when a good or service is provided to
- 4 Kentucky Power and when the Company pays for that good or service.
- 5 Q36. How is an expense lead determined?
- 6 A36. An expense lead typically consists of three components: (1) a service lead, (2) a payment
- 7 lead, and (3) a check float lead if the amount is paid by check. The service lead assumes
- 8 that the goods and services are received ratably over the service period, which in many
- 9 cases is a month. The payment lead represents the elapsed time from the end of the
- service period until the payment is made. Check float reflects the elapsed time between
- the date the payment is made and the date the cash leaves the Company's bank account.
- 12 Q37. What expense-related leads were considered in the lead-lag analysis?
- 13 A37. Lead times associated with the following expense categories were considered in the
- study: (1) Payroll and Withholdings, (2) Employee Benefits; (3) Fuel Purchases, (4)
- Purchased Power, (5) Other Operation and Maintenance Expenses, (6) Intercompany
- Billings, (7) Taxes Other than Income Taxes, (8) Interest Expense, and (9) Federal and
- 17 State Income Taxes.
- 18 Q38. Please explain the lead associated with Kentucky Power's payroll and withholding
- 19 expenses.
- A38. As part of the study, the Company's payroll records for the Study Period year were
- 21 reviewed and analyzed. The Company's employees are paid on a bi-weekly basis every
- other Friday. The majority of the Company's employees are paid via direct deposit. The
- Company remits payroll-related withholdings to the Federal and State governments on

| 1  |      | the payroll dates. Utilizing Study Period pay period information, a weighted lead time of  |
|----|------|--|
| 2  |      | 13.82 days was determined.   |
| 3  | Q39. | What employee benefits does the Company provide to its employees?                          |
| 4  | A39. | Company Witness Carlin describes the Company's employee compensation and benefits          |
| 5  |      | in his testimony.  |
| 6  | Q40. | How was the expense lead time associated with fuel purchases determined?                   |
| 7  | A40. | The Company purchases commodity, pipeline, and transportation services from various        |
| 8  |      | suppliers on a monthly basis. Typically, the Company receives invoices for these           |
| 9  |      | services around the middle of the following month. Payments for these purchases are        |
| 10 |      | typically due within 15 days. Based on actual amounts and payment dates during the         |
| 11 |      | Study Period, a dollar-weighted lead of 23.00 days was determined.                         |
| 12 | Q41. | What is the expense lead time associated with purchased power?                             |
| 13 | A41. | The Company purchases power through contracted power purchase agreements. Based            |
| 14 |      | on the purchased power records during the Study Period provided by the Company, a          |
| 15 |      | lead time of 27.92 days was determined.  |
| 16 | Q42. | How was the expense lead time associated with intercompany billings determined?            |
| 17 | A42. | Kentucky Power is a subsidiary of American Electric Power ("AEP") and receives and         |
| 18 |      | billed for the various services from its parent company and other affiliated companies.    |
| 19 |      | Kentucky Power pays its affiliates when services are provided, or when an affiliate        |
| 20 |      | company pays an invoice that should be borne by multiple AEP companies. The billing        |
| 21 |      | for both the services received and the services provided is done monthly and settlement is |

routinely done by the end of the month following the month of service. The payments

| 1  |      | are made electronically. Based on a review and analysis of Study Period data, a lead time  |
|----|------|--|
| 2  |      | of 18.21 days was determined.  |
| 3  | Q43. | What are the lead times associated with other operations and maintenance                   |
| 4  |      | ("O&M") expenses?  |
| 5  | A43. | The Company engages in transactions with various vendors for a variety of services.        |
| 6  |      | These transactions include such items as parts, supplies, facility and system maintenance, |
| 7  |      | customer service, and legal services. A random sample of these transactions and invoices   |
| 8  |      | were reviewed to determine the service periods covered and the payment terms. Using        |
| 9  |      | this sample set of data and actual payment dates, a dollar-weighted lead time of 58.44     |
| 10 |      | days was determined.   |
| 11 | Q44. | How was the expense lead time associated with fuel purchases determined?                   |
| 12 | A44. | The Company purchases commodity, pipeline, and transportation services from various        |
| 13 |      | suppliers on a monthly basis. Typically, the Company receives invoices for these           |
| 14 |      | services around the middle of the following month. Payments for these purchases are        |
| 15 |      | typically due within 15 days. Based on actual amounts and payment dates during the         |
| 16 |      | Study Period, a dollar-weighted lead of 23.00 days was determined.                         |
| 17 | Q45. | Can you provide a description of how the lead time associated with the Company's           |
| 18 |      | interest expense was analyzed for the lead-lag study?                                      |
| 19 | A45. | The Company's interest expense is associated with a combination of long- and short-term    |
| 20 |      | debt. Using Study Period interest payment information, a lead time of 82.05 days was       |
| 21 |      | calculated.  |

| 1  | Q46. | When Kentucky Power pays an expense by check, was check float included as part            |
|----|------|---|
| 2  |      | of the lead time calculation?   |
| 3  | A46. | Yes. Check float is the difference in time between the date Kentucky Power mailed a       |
| 4  |      | check to a vendor and the date the cash left the Company's bank account.                  |
| 5  | Q47. | How was the check float determined?   |
| 6  | A47. | Concentric examined a list of checks issued by the Company during the Study Period,       |
| 7  |      | including the dates that the checks were issued and the date the checks cleared the bank. |
| 8  |      | Based on the analysis, a float time of 12.73 days was determined. The check float was     |
| 9  |      | added to all checks as part of the CWC review.  |
| 10 |      | IV. CONCLUSION  |
|    |      |   |
| 11 | Q48. | Have you prepared an exhibit that summarizes the leads and lags resulting from the        |
| 12 |      | cash working capital analysis?  |
| 13 | A48. | Yes. Exhibit MJA-2 summarizes the leads and lags derived from the cash working            |
| 14 |      | capital study prepared by Concentric.   |
| 15 | Q49. | How should the results of the CWC study be reflected in the Company's rate filing?        |
| 16 | A49. | The CWC requirement determined by the lead-lag study should be included as a              |
| 17 |      | component of the Company's rate base.   |
| 18 | Q50. | In addition to the cash working capital requirement that you have discussed in your       |
| 19 |      | direct testimony, which is supported by a lead-lag study, has the Company also            |
| 20 |      | included certain working capital items in rate base?                                      |
| 21 | A50. | Yes. Company Witness Walsh presents the jurisdictional cost of service, including         |
| 22 |      | jurisdictional rate base, which reflects end of test-year amount of the various working   |

| 1  |      | capital components. The end of test-year amount of these components is appropriately        |
|----|------|---|
| 2  |      | included in the Company's rate base.  |
| 3  | Q51. | In your experience, is it an appropriate regulatory practice to include the end of          |
| 4  |      | test-year amount of the components discussed by Company Witness Walsh in rate               |
| 5  |      | base?   |
| 6  | A51. | Yes. It is a widely accepted regulatory practice to include such components of the          |
| 7  |      | Company's overall working capital requirement in the Company's rate base.                   |
| 8  | Q52. | Does the inclusion of both cash working capital and the end of test-year amounts of         |
| 9  |      | working capital in rate base result in a duplication or double counting?                    |
| 10 | A52. | No, the cash working capital study examines the timing of certain O&M cash flows,           |
| 11 |      | while the working capital items represent the end of test-year amount of certain rate base  |
| 12 |      | components.   |
| 13 | Q53. | Is it your recommendation that both the CWC requirement and the end of test-year            |
| 14 |      | amount of working capital components be included in the Company's rate base?                |
| 15 | A53. | Yes. It is my recommendation that both the cash working capital requirement be              |
| 16 |      | determined, in part, based upon the lead-lag study, as well as the end of test-year amounts |
| 17 |      | of non-cash working capital components as previously discussed.                             |
| 18 | Q54. | Does this conclude your direct testimony?   |
| 19 | A54. | Yes, it does.   |

# VERIFICATION

The undersigned, Michael J. Adams, being duly sworn, deposes and says he is the Senior Vice President, for Concentric Energy Advisors, Incorporated, that he has personal knowledge of the matters set forth in the foregoing testimony and the information contained therein is true and correct to the best of his information, knowledge, and belief after reasonable inquiry.

|   | Michael, adams   |
|---|--|
|   | Michael J. Adams   |
| Commonwealth of Illinois County of Sangamon | ) Case No. 2023-00159  |
| Subscribed and swor                         | n to before me, a Notary Public in and before said County ms, on June 27, 2025                       |
| Notary Public                               | MICHELLE KEOKHAM Official Seal Notary Public- State of Illinois My Commission Expires March 17, 2026 |
| My Commission Expires                       | 3/17/2024  |
| Notary ID Number 77                         | 9582   |



#### MICHAEL J. ADAMS

Senior Vice President

Mr. Adams has over thirty-five years of direct experience in the public utility industry. He has worked for an investor-owned utility, a regulatory agency, and most recently as a consultant to the utility industry.

While employed by Illinois Power Company, Mr. Adams monitored project expenditures associated with gas and electric distribution, transmission, and generation capital projects.

While employed by the Illinois Commerce Commission, Mr. Adams initially evaluated the rate filings of regulated utilities and provided expert testimony regarding the reasonableness of the requests. Mr. Adams was subsequently charged with developing and managing a management and operations audit program to evaluate company management policies, procedures and performance, as well as operational efficiency and effectiveness. Mr. Adams served as the Deputy Executive Director of the agency at the time of his departure. As a consultant, Mr. Adams has provided consulting services to regulatory agencies and regulated utilities on an array of operational and financial issues since 1995.

Prior to joining Concentric, Mr. Adams was a Managing Director of Navigant Consulting, Inc. Mr. Adams is a Certified Public Accountant, a graduate of Illinois College and holds an M.B.A. from the University of Illinois, Springfield.

Mr. Adams provides financial, regulatory, strategic, operational and litigation support to his energy clients. He has assisted clients with regulatory/legislative initiatives related to the approval and implementation of alternative regulation plans as well as the preparation and support of regulatory filings under alternative rate plans. Mr. Adams also provides advisory services in the areas of mergers and acquisitions. As a consultant, Mr. Adams has provided expert testimony or reports before State and Federal regulatory agencies.

### **PROFESSIONAL HISTORY**

Concentric Energy Advisors, Inc. (2007 - Present)

Senior Vice President Vice President

Navigant Consulting, Inc. (1999 - 2007)

**Managing Director** 

L.E. Burgess Consultants, Inc. (1995 - 1999)

Illinois Commerce Commission (1983 - 1995)

Accounting/Rate Case Staff
Director, Management Audit/Studies
Deputy Executive Director



# Illinois Power Company (1981 - 1983)

**Accounting/Auditing Department** 

### **EDUCATION**

# University of Illinois at Springfield

M.B.A., Finance

# **Illinois College**

**B.S.**, Accounting

## REPRESENTATIVE PROJECT EXPERIENCE

## Audits/Special Studies

- Management audits
- Regulatory reviews/audits
- Project performance monitoring/reviews
- Prudence reviews
- Commission ordered studies
- Audit prep and support
- Project controls and assessments

## **Affiliate Transactions**

- Code of Conduct
- Shared Services reviews
- Cost controls

# **Benchmarking**

- 0&M costs
- Capital expenditures
- Shared Services
- Operational performance
- Customer service
- Reliability

# Due Diligence/Litigation/Special Projects

- Assessment of cost controls
- Financial outlook
- Historical/future performance assessment
- Merger Synergies
- Regulatory environment/assessment

## **Expert Witness**

- Regulatory proceedings
- Civil litigation



## Litigation Support

- Data review and analyses
- Position development and review
- Research
- Expert testimony and reports

# **Regulatory Proceedings**

- Revenue Requirement
- Cash working capital
- Benchmarking
  - o 0&M
  - o Capital
  - Shared Services
- Case development/management
- Multi-year rate plans
- Research
- Performance based regulation

## **DESIGNATIONS AND PROFESSIONAL AFFILIATIONS**

Certified Public Accountant

American Institute of Public Accountants

Illinois Society of Certified Public Accountants

# **AVAILABLE UPON REQUEST**

Extensive client and project listings, and specific references.



|   | <b>-</b> |  | D 0 0 / F = 1 : 0  |   |  |
|---|----------|--|--|---|--|
| SPONSOR   | DATE     | CASE/APPLICANT                         | DOCKET NO.   | SUBJECT   |  |
| Arkansas Public Service Commission  |          |  |  |   |  |
| Arkansas Oklahoma Gas<br>Corporation  | 2002     | Arkansas Oklahoma Gas<br>Corporation   | 02-024-U   | Reasonableness of ratemaking adjustments  |  |
| Centerpoint Energy Arkla  | 2005     | Centerpoint Energy Arkla               | 04-121-U   | Cash Working Capital  |  |
| Arizona Corporation Comr  | nission  |  |  |   |  |
| Liberty Utilities (Entrada<br>Del Oro Sewer Company<br>and Gold Canyon Sewer<br>Company | 2022     | Liberty Utilities                      | SW-02519A-<br>0235, SW-<br>0362+A-21-<br>0236, SW-<br>04316A-21-<br>0359 | Indirect<br>Overhead/Capitalization<br>Rates  |  |
| Connecticut Public Utilitie   | s Regul  | atory Authority                        |  |   |  |
| Connecticut Natural Gas   | 2013     | Connecticut Natural Gas                | 13-06-08   | Cash Working Capital  |  |
| United Illuminating<br>Company  | 2022     | United Illuminating<br>Company         | 22-08-08   | Cash Working Capital  |  |
| Federal Energy Regulatory   | Comm     | ission                                 |  |   |  |
| Granite State Gas<br>Transmission   | 2010     | Granite State Gas<br>Transmission      | RP10-896   | Revenue Requirement   |  |
| Georgia Public Service Con  | nmissio  | on                                     |  |   |  |
| Atlanta Gas Light Company   | 2019     | Granite State Gas<br>Transmission      | 42315  | Cash Working Capital  |  |
| Hawaii Public Utilities Con   | nmissio  | n                                      |  |   |  |
| Hawaii Electric Light<br>Company, Inc.  | 2005     | Hawaii Electric Light<br>Company, Inc. | 05-0315  | Allowance for Funds Used<br>During Construction   |  |
| Idaho Public Utilities Com  | mission  |  |  |   |  |
| Intermountain Gas<br>Company  | 2016     | Intermountain Gas<br>Company           | INT-G-16-2   | Cash working capital,<br>prepared/supported<br>benchmarking for client                                  |  |
| Illinois Commerce Commis  | sion     |  |  |   |  |
| Illinois Power Company  | 1999     | Illinois Power Company                 | 99-0120/99-<br>0134 (Cons.)  | Functionalization/Unbund ling of General and Intangible Assets and Administrative and General expenses. |  |
| Illinois Power Company  | 2004     | Illinois Power Company                 | 04-0476  | Cash working capital and asset separation   |  |



|  | 1        | T   | T  | T  |
|--|----------|---|--|--|
| SPONSOR  | DATE     | CASE/APPLICANT  | DOCKET NO.   | SUBJECT  |
| Ameren Illinois Utilities  | 2006     | Ameren Illinois Utilities   | 06-0070/06-<br>0071/06-0072<br>(Cons.)                                     | Functionalization of<br>Assets,<br>Cash Working Capital,<br>Shared Services Costs,<br>Benchmarking |
| Ameren Illinois Utilities  | 2007     | Ameren Illinois Utilities   | 07-0585/07-<br>0586/07-<br>0587/<br>07-0588/07-<br>0589/07-0590<br>(Cons.) | Shared Services Costs,<br>Asset Separation, Cash<br>Working<br>Capital                             |
| The Peoples Gas Light and<br>Coke Company, Inc. and<br>North Shore Gas Company | 2007     | The Peoples Gas Light<br>and Coke Company, Inc.<br>and North Shore Gas<br>Company | 07-0241/07-<br>0242 (Cons.)  | Cash working capital   |
| Northern Illinois Gas<br>Company   | 2008     | Northern Illinois Gas<br>Company  | 08-0363  | Cash working capital   |
| Ameren Illinois  | 2015     | Ameren Illinois   | 16-0262  | Benchmarking of Utility<br>Performance   |
| Commonwealth Edison<br>Company   | 2022     | Commonwealth Edison<br>Company  | 22-0645  | Rider ZEA Reconciliation   |
| Commonwealth Edison<br>Company   | 2022     | Commonwealth Edison<br>Company  | 22-0103  | Rider PE Reconciliation  |
| <b>Maine Public Utilities Com</b>  | missio   | n   |  |  |
| Emera Maine  | 2017     | Emera Maine   | Docket No.<br>2017-00198   | Cash working capital   |
| Versant Power  | 2020     | Versant Power   | Docket No.<br>2020-00316   | Cash working capital   |
| Versant Power  | 2022     | Versant Power   | Docket No.<br>2022-00255   | Cash working capital   |
| Maryland Public Service Co   | ommiss   | sion  |  |  |
| Constellation Energy   | 2009     | Constellation Energy  | Case No. 9173,<br>Phase II   | Shared Services,<br>Benchmarking   |
| Massachusetts Departmen  | t of Pul | olic Utilities  | •  |  |
| Massachusetts Distribution<br>Companies  | 2002     | Massachusetts<br>Distribution Companies   | DTE-99-84  | Reliability standards and<br>the appropriateness of<br>utilizing data for<br>benchmarking purposes |
| Missouri Public Service Co   | mmissi   | on  |  |  |
| AmerenUE (Union Electric<br>Company)   | 2002     | AmerenUE (Union<br>Electric Company)  | EC-2002-001  | Cash working capital   |
|  |          |   |  |  |



| SPONSOR                              | DATE      | CASE/APPLICANT                       | DOCKET NO.              | SUBJECT   |
|--------------------------------------|-----------|--------------------------------------|-------------------------|---|
| AmerenUE                             | 2003      | AmerenUE                             | GR-2003-0517            | Cash working capital                            |
| AmerenUE                             | 2007      | AmerenUE                             | ER-2007-0002            | Cash working capital                            |
| AmerenUE                             | 2008      | AmerenUE                             | ER-2008-0318            | Cash working capital                            |
| Missouri Gas Energy                  | 2006      | Missouri Gas Energy                  | GR-2006-0422            | Cash working capital                            |
| Ameren Missouri Gas                  | 2010      | Ameren Missouri Gas                  | GR-2010-0363            | Cash working capital                            |
| Ameren Missouri Electric             | 2010      | Ameren Missouri Electric             | ER-2011-0028            | Cash working capital                            |
| Ameren Missouri                      | 2012      | Ameren Missouri                      | ER-2012-0166            | Cash working capital                            |
| Ameren Missouri                      | 2014      | Ameren Missouri                      | ER-2014-0258            | Affiliate transactions,<br>Benchmarking         |
| Evergy Metro, Inc.                   | 2022      | Evergy Metro, Inc.                   | ER-2022-0129            | Cash working capital,<br>Property Tax Tracker   |
| Evergy Missouri West, Inc.           | 2022      | Evergy Missouri West,<br>Inc.        | ER-2022-0130            | Cash working capital,<br>Property Tax Tracker   |
| <b>Public Service Commission</b>     | of Mo     | ntana                                |                         |   |
| Montana-Dakota Utilities             | 2022      | Montana-Dakota Utilities             | 2022.11.XXXX            | Cash working capital                            |
| New Hampshire Public Uti             | lities Co | ommission                            |                         |   |
| National Grid Energy North           | 2010      | National Grid Energy<br>North        | DG 10-017               | Revenue Requirement                             |
| New Mexico Public Regula             | tion Co   | mmission                             |                         |   |
| New Mexico Gas Company               | 2019      | New Mexico Gas<br>Company            | No. 19-00317-<br>UT     | Future Test Year Model /<br>Revenue Requirement |
| State of New Jersey Board            | of Publ   | ic Utilities                         |                         |   |
| PSEG                                 | 2018      | PSEG                                 | ER18010029 & GR18010030 | Benchmarking                                    |
| Oklahoma Corporation Co              | mmissi    | on                                   |                         |   |
| Arkansas Oklahoma Gas<br>Corporation | 2003      | Arkansas Oklahoma Gas<br>Corporation | PUD20030008<br>8        | Cash working capital                            |
| Ontario Energy Board                 |           |                                      |                         |   |
| Hydro One Distribution<br>Business   | 2005      | Hydro One Distribution<br>Business   | -                       | Cash working capital                            |
|                                      | _         |                                      |                         |   |



| SPONSOR                                    | DATE    | CASE/APPLICANT                             | DOCKET NO.         | SUBJECT  |
|--|---------|--|--------------------|--|
| Hydro One Transmission<br>Business         | 2006    | Hydro One Transmission<br>Business         | -                  | Cash working capital   |
| Toronto Hydro                              | 2006    | Toronto Hydro                              | -                  | Cash working capital   |
| Pennsylvania Public Utilit                 | y Comm  | nission                                    |                    |  |
| Allegheny Power                            | 2004    | Allegheny Power                            | M-00991220         | Reliability data and reasonableness of established standards     |
| T.W. Phillips Gas and Oil<br>Company, Inc. | 2006    | T.W. Phillips Gas and Oil<br>Company, Inc. | R-00051178         | Cash working capital   |
| Public Utility Commission                  | of Texa | s  |                    |  |
| Texas-New Mexico Power<br>Company          | 2008    | Texas-New Mexico Power<br>Company          | 36025              | Revenue Requirement  |
| El Paso Electric Company                   | 2012    | El Paso Electric Company                   | 40094              | O&M Benchmarking   |
| El Paso Electric Company                   | 2014    | El Paso Electric Company                   | -                  | Benchmarking of New<br>Generation Costs                          |
| El Paso Electric Company                   | 2015    | El Paso Electric Company                   | 44941              | Benchmarking of costs of new generation units                    |
| Public Service Commission                  | n of We | st Virginia                                |                    |  |
| Appalachian Power<br>Company               | 2018    | Appalachian Power<br>Company               | 18-0646-E-42T      | Cash working capital   |
| Tennessee Public Utility C                 | ommiss  | sion                                       |                    |  |
| Chattanooga Gas Company                    | 2018    | Chattanooga Gas<br>Company                 | 18-00017           | Cash working capital   |
| Virginia State Corporation                 | Comm    | ission                                     |                    |  |
| Virginia Natural Gas                       | 2012    | Virginia Natural Gas                       | PUE-2010-<br>00142 | Cash Working Capital   |
| Virginia Natural Gas                       | 2017    | Virginia Natural Gas                       | -                  | Shared Services Review,<br>Benchmarking, Cash<br>Working Capital |
| Virginia Natural Gas                       | 2022    | Virginia Natural Gas                       | PUR-2022-<br>00052 | Cash working capital   |

Kentucky Power Company
Summary of Lead Lag Days
12 months ended September 30, 2022
Case No. 2023-00159

| Line<br>No. | Description   | Lead   |
|-------------|---|--------|
|             |   |        |
| 1           | Revenues  | 51.49  |
| 2           | Fuel Expense  | 23.00  |
| 3           | Payroll & Benefits  | 13.82  |
| 4           | Other Operation & Maintenance Expense                       | 58.44  |
| 5           | Purchased Power   | 27.92  |
|             |   |        |
| 6           | Sales/Use Tax   | 40.23  |
| 7           | Utility Gross Receipts License Tax (UGRLT)                  | 35.28  |
| 8           | Federal Excise Taxes  | 76.42  |
| 9           | Local Franchise Fee   | 46.12  |
| 10          | Kentucky Sales and Use Tax - Energy Exemption Annual Return | 59.42  |
| 11          | Local Street Lighting Fee                                   | 207.23 |
| 12          | Property /Real Estate Tax                                   | 264.85 |
| 13          | Federal Unemployment Taxes                                  | 75.24  |
| 14          | State Unemployment Taxes - Kentucky                         | 75.21  |
| 15          | State Unemployment Taxes - West Virginia                    | 75.31  |
|             | , ,   |        |
| 16          | Interest Expense  | 82.05  |
| 17          | Federal Income Tax  | 37.88  |
| 18          | State Income Tax  | 37.88  |
|             |   |        |

### KENTUCKY POWER COMPANY LEAD LAG STUDY REVENUE LAG

|                        | Lag Time |
|------------------------|----------|
| Service Lag            | 15.21    |
| Billing Lag            | 1.46     |
| Collections Lag        | 32.73    |
| Payment Processing Lag | 0.99     |
| Bank Float             | 1.10     |
|                        | 51.49    |

## SERVICE LAG

Number of Days in Year: 365.00
Average Number of Days in Month: 30.42
Midpoint of Average Number of Days in Month: 15.21 days

### **BILLING LAG**

Average Billing Lag (Scheduled) \_\_\_\_\_\_ 1.46\_ days

| Biling Cycle | Scheduled Read Day [1] | Date Bill Mailed [2] | Lag    |
|--------------|------------------------|----------------------|--------|
| (A)          | (B)                    | (C)                  | (D)    |
| 4            | 10/1/21                | 10/4/21              | 3      |
| 5            | 10/4/21                | 10/5/21              | 1      |
| 6            | 10/5/21                | 10/6/21              | 1      |
| 7            | 10/6/21                | 10/7/21              | 1      |
| 8            | 10/7/21                | 10/8/21              | 1      |
| 9            | 10/8/21                | 10/11/21             | 3      |
| 10           | 10/11/21               | 10/12/21             | 1      |
| 11           | 10/12/21               | 10/13/21             | 1      |
| 12           | 10/13/21               | 10/14/21             | 1      |
| 13           | 10/14/21               | 10/15/21             | 1      |
| 14           | 10/15/21               | 10/18/21             | 3      |
| 15           | 10/18/21               | 10/19/21             | 1      |
| 16           | 10/19/21               | 10/20/21             | 1      |
| 17           | 10/20/21               | 10/21/21             | 1      |
| 18           | 10/21/21               | 10/22/21             | 1      |
| 19           | 10/22/21               | 10/25/21             | 3      |
| 20           | 10/25/21               | 10/26/21             | 1      |
| 21           | 10/26/21               | 10/27/21             | 1      |
| 1<br>2       | 10/27/21               | 10/28/21             | 1      |
| 3            | 10/28/21               | 10/29/21             | 1 3    |
| 4            | 10/29/21               | 11/1/21              | 3<br>1 |
| 5<br>5       | 11/1/21                | 11/2/21<br>11/3/21   | 1      |
| 6            | 11/2/21<br>11/3/21     | 11/3/21              | 1      |
| 7            | 11/4/21                | 11/5/21              | 1      |
| 8            | 11/5/21                | 11/8/21              | 3      |
| 9            | 11/8/21                | 11/9/21              | 3<br>1 |
| 10           | 11/9/21                | 11/10/21             | 1      |
| 11           | 11/10/21               | 11/11/21             | 1      |
| 12           | 11/11/21               | 11/11/21             | 1      |
| 13           | 11/12/21               | 11/15/21             | 3      |
| 14           | 11/15/21               | 11/16/21             | 1      |
| 15           | 11/16/21               | 11/17/21             | 1      |
| 16           | 11/17/21               | 11/18/21             | 1      |
| 17           | 11/18/21               | 11/19/21             | 1      |
| <br>18       | 11/19/21               | 11/22/21             | 3      |
| 19           | 11/22/21               | 11/23/21             | 1      |
| 20           | 11/23/21               | 11/24/21             | 1      |
| 21           | 11/24/21               | 11/29/21             | 5      |
| 1            | 11/29/21               | 11/30/21             | 1      |
| 2            | 11/30/21               | 12/1/21              | 1      |
| 3            | 12/1/21                | 12/2/21              | 1      |
| 4            | 12/2/21                | 12/3/21              | 1      |
| 5            | 12/3/21                | 12/6/21              | 3      |
| 6            | 12/6/21                | 12/7/21              | 1      |
| -            | · + ·                  | · ·=·                | •      |

| 7        | 12/7/21            | 12/8/21            | 1      |
|----------|--------------------|--------------------|--------|
| 8        | 12/8/21            | 12/9/21            | 1      |
| 9        | 12/9/21            | 12/10/21           | 1      |
| 10       | 12/10/21           | 12/13/21           | 3      |
| 11       | 12/13/21           | 12/14/21           | 1      |
| 12       | 12/14/21           | 12/15/21           | 1      |
| 13       | 12/15/21           | 12/16/21           | 1      |
| 14       | 12/16/21           | 12/17/21           | 1      |
| 15       | 12/17/21           | 12/20/21           | 3      |
| 16       | 12/20/21           | 12/21/21           | 1      |
| 17       | 12/21/21           | 12/22/21           | 1      |
| 18       | 12/22/21           | 12/27/21           | 5      |
| 19       | 12/27/21           | 12/28/21           | 1      |
| 20       | 12/28/21           | 12/29/21           | 1      |
| 21       | 12/29/21           | 12/30/21           | 1      |
| 1        | 12/30/21           | 1/3/22             | 4      |
| 2        | 1/3/22             | 1/4/22             | 1      |
| 3        | 1/4/22             | 1/5/22             | 1      |
| 4        | 1/5/22             | 1/6/22             | 1      |
| 5        | 1/6/22             | 1/7/22             | 1      |
| 6        | 1/7/22             | 1/10/22            | 3      |
| 7        | 1/10/22            | 1/11/22            | 1      |
| 8        | 1/11/22            | 1/12/22            | 1      |
| 9        | 1/12/22            | 1/13/22            | 1      |
| 10       | 1/13/22            | 1/14/22            | 1      |
| 11       | 1/14/22            | 1/17/22            | 3      |
| 12       | 1/17/22            | 1/18/22            | 1      |
| 13       | 1/18/22            | 1/19/22            | 1      |
| 14<br>15 | 1/19/22<br>1/20/22 | 1/20/22<br>1/21/22 | 1<br>1 |
| 16       | 1/21/22            | 1/24/22            | 3      |
| 17       | 1/24/22            | 1/25/22            | 1      |
| 18       | 1/25/22            | 1/26/22            | 1      |
| 19       | 1/26/22            | 1/27/22            | 1      |
| 20       | 1/27/22            | 1/28/22            | 1      |
| 21       | 1/28/22            | 1/31/22            | 3      |
| 1        | 1/31/22            | 2/1/22             | 1      |
| 2        | 2/1/22             | 2/2/22             | 1      |
| 3        | 2/2/22             | 2/3/22             | 1      |
| 4        | 2/3/22             | 2/4/22             | 1      |
| 5<br>6   | 2/4/22<br>2/7/22   | 2/7/22<br>2/8/22   | 3<br>1 |
| 7        | 2/8/22             | 2/9/22             | 1      |
| 8        | 2/9/22             | 2/10/22            | 1      |
| 9        | 2/10/22            | 2/11/22            | 1      |
| 10       | 2/11/22            | 2/14/22            | 3      |
| 11       | 2/14/22            | 2/15/22            | 1      |
| 12       | 2/15/22            | 2/16/22            | 1      |
| 13       | 2/16/22            | 2/17/22            | 1      |
| 14       | 2/17/22            | 2/18/22            | 1      |
| 15       | 2/18/22            | 2/21/22            | 3      |
| 16       | 2/21/22            | 2/22/22            | 1      |
| 17       | 2/22/22            | 2/23/22            | 1      |
| 18       | 2/23/22            | 2/24/22            | 1      |
| 19       | 2/24/22            | 2/25/22            | 1      |
| 20       | 2/25/22            | 2/28/22            | 3      |
| 21<br>1  | 2/28/22<br>3/1/22  | 3/1/22<br>3/2/22   | 1<br>1 |
| 2        | 3/2/22             | 3/3/22             | 1      |
| 3        | 3/3/22             | 3/4/22             | 1      |
| 4        | 3/4/22             | 3/7/22             | 3      |
| 5        | 3/7/22             | 3/8/22             | 1      |
| 6        | 3/8/22             | 3/9/22             | 1      |
| 7        | 3/9/22             | 3/10/22            | 1      |
| 8        | 3/10/22            | 3/11/22            | 1      |
| 9        | 3/11/22            | 3/14/22            | 3      |
| 10       | 3/14/22            | 3/15/22            | 1      |
| 11       | 3/15/22            | 3/16/22            | 1      |
| 12<br>13 | 3/16/22<br>3/17/22 | 3/17/22<br>3/18/22 | 1<br>1 |
| ıU       | 3/11/22            | J/ 10/22           |        |

| 14<br>15 | 3/18/22<br>3/21/22 | 3/21/22<br>3/22/22 | 3      |
|----------|--------------------|--------------------|--------|
| 16       | 3/22/22            | 3/23/22            | 1      |
| 17       | 3/23/22            | 3/24/22            | 1      |
| 18       | 3/24/22            | 3/25/22            | 1      |
| 19       | 3/25/22            | 3/28/22            | 3      |
| 20<br>21 | 3/28/22            | 3/29/22            | 1<br>1 |
| 1        | 3/29/22<br>3/30/22 | 3/30/22<br>3/31/22 | 1      |
| 2        | 3/31/22            | 4/1/22             | 1      |
| 3        | 4/1/22             | 4/4/22             | 3      |
| 4        | 4/4/22             | 4/5/22             | 1      |
| 5        | 4/5/22             | 4/6/22             | 1      |
| 6        | 4/6/22             | 4/7/22             | 1      |
| 7<br>8   | 4/7/22<br>4/8/22   | 4/8/22<br>4/11/22  | 1<br>3 |
| 9        | 4/11/22            | 4/11/22            | ა<br>1 |
| 10       | 4/12/22            | 4/13/22            | 1      |
| 11       | 4/13/22            | 4/14/22            | 1      |
| 12       | 4/14/22            | 4/18/22            | 4      |
| 13       | 4/18/22            | 4/19/22            | 1      |
| 14       | 4/19/22            | 4/20/22            | 1      |
| 15<br>16 | 4/20/22<br>4/21/22 | 4/21/22<br>4/22/22 | 1<br>1 |
| 17       | 4/22/22            | 4/25/22            | 3      |
| 18       | 4/25/22            | 4/26/22            | 1      |
| 19       | 4/26/22            | 4/27/22            | 1      |
| 20       | 4/27/22            | 4/28/22            | 1      |
| 21       | 4/28/22            | 4/29/22            | 1      |
| 1        | 4/29/22            | 5/2/22             | 3      |
| 2 3      | 5/2/22<br>5/3/22   | 5/3/22<br>5/4/22   | 1<br>1 |
| 4        | 5/4/22             | 5/5/22             | 1      |
| 5        | 5/5/22             | 5/6/22             | 1      |
| 6        | 5/6/22             | 5/9/22             | 3      |
| 7        | 5/9/22             | 5/10/22            | 1      |
| 8        | 5/10/22            | 5/11/22            | 1      |
| 9        | 5/11/22            | 5/12/22            | 1      |
| 10<br>11 | 5/12/22<br>5/13/22 | 5/13/22<br>5/16/22 | 1<br>3 |
| 12       | 5/16/22            | 5/17/22            | 1      |
| 13       | 5/17/22            | 5/18/22            | 1      |
| 14       | 5/18/22            | 5/19/22            | 1      |
| 15       | 5/19/22            | 5/20/22            | 1      |
| 16       | 5/20/22            | 5/23/22            | 3      |
| 17<br>18 | 5/23/22<br>5/24/22 | 5/24/22<br>5/25/22 | 1<br>1 |
| 19       | 5/25/22            | 5/26/22            | 1      |
| 20       | 5/26/22            | 5/27/22            | 1      |
| 21       | 5/27/22            | 5/31/22            | 4      |
| 1        | 5/31/22            | 6/1/22             | 1      |
| 2        | 6/1/22             | 6/2/22             | 1      |
| 3        | 6/2/22             | 6/3/22             | 1      |
| 4<br>5   | 6/3/22<br>6/6/22   | 6/6/22<br>6/7/22   | 3<br>1 |
| 6        | 6/7/22             | 6/8/22             | 1      |
| 7        | 6/8/22             | 6/9/22             | 1      |
| 8        | 6/9/22             | 6/10/22            | 1      |
| 9        | 6/10/22            | 6/13/22            | 3      |
| 10       | 6/13/22            | 6/14/22            | 1      |
| 11<br>12 | 6/14/22            | 6/15/22            | 1<br>1 |
| 13       | 6/15/22<br>6/16/22 | 6/16/22<br>6/17/22 | 1      |
| 14       | 6/17/22            | 6/20/22            | 3      |
| 15       | 6/20/22            | 6/21/22            | 1      |
| 16       | 6/21/22            | 6/22/22            | 1      |
| 17       | 6/22/22            | 6/23/22            | 1      |
| 18       | 6/23/22            | 6/24/22            | 1<br>3 |
| 19<br>20 | 6/24/22<br>6/27/22 | 6/27/22<br>6/28/22 | ა<br>1 |
|          | VILITE             | 0,20,22            | •      |

| 0.4 | 0/00/00 | 0/00/00 | 4    |
|-----|---------|---------|------|
| 21  | 6/28/22 | 6/29/22 | 1    |
| 1   | 6/29/22 | 6/30/22 | 1    |
|     |         |         |      |
| 2   | 6/30/22 | 7/1/22  | 1    |
| 3   | 7/1/22  | 7/5/22  | 4    |
|     |         |         |      |
| 4   | 7/5/22  | 7/6/22  | 1    |
| 5   | 7/6/22  | 7/7/22  | 1    |
|     |         |         |      |
| 6   | 7/7/22  | 7/8/22  | 1    |
| 7   | 7/8/22  | 7/11/22 | 3    |
|     |         |         |      |
| 8   | 7/11/22 | 7/12/22 | 1    |
| 9   | 7/12/22 | 7/13/22 | 1    |
|     |         |         |      |
| 10  | 7/13/22 | 7/14/22 | 1    |
| 11  | 7/14/22 | 7/15/22 | 1    |
|     |         |         |      |
| 12  | 7/15/22 | 7/18/22 | 3    |
| 13  | 7/18/22 | 7/19/22 | 1    |
|     |         |         |      |
| 14  | 7/19/22 | 7/20/22 | 1    |
| 15  | 7/20/22 | 7/21/22 | 1    |
|     |         |         |      |
| 16  | 7/21/22 | 7/22/22 | 1    |
| 17  | 7/22/22 | 7/25/22 | 3    |
|     |         |         | 1    |
| 18  | 7/25/22 | 7/26/22 |      |
| 19  | 7/26/22 | 7/27/22 | 1    |
| 20  | 7/27/22 | 7/28/22 | 1    |
|     |         |         |      |
| 21  | 7/28/22 | 7/29/22 | 1    |
| 1   | 7/29/22 | 8/1/22  | 3    |
|     |         |         |      |
| 2   | 8/1/22  | 8/2/22  | 1    |
| 3   | 8/2/22  | 8/3/22  | 1    |
|     |         |         |      |
| 4   | 8/3/22  | 8/4/22  | 1    |
| 5   | 8/4/22  | 8/5/22  | 1    |
|     |         |         |      |
| 6   | 8/5/22  | 8/8/22  | 3    |
| 7   | 8/8/22  | 8/9/22  | 1    |
|     |         |         |      |
| 8   | 8/9/22  | 8/10/22 | 1    |
| 9   | 8/10/22 | 8/11/22 | 1    |
|     |         |         |      |
| 10  | 8/11/22 | 8/12/22 | 1    |
| 11  | 8/12/22 | 8/15/22 | 3    |
| 12  | 8/15/22 | 8/16/22 | 1    |
|     | 6/15/22 |         |      |
| 13  | 8/16/22 | 8/17/22 | 1    |
| 14  | 8/17/22 | 8/18/22 | 1    |
|     |         |         |      |
| 15  | 8/18/22 | 8/19/22 | 1    |
| 16  | 8/19/22 | 8/22/22 | 3    |
|     |         |         |      |
| 17  | 8/22/22 | 8/23/22 | 1    |
| 18  | 8/23/22 | 8/24/22 | 1    |
|     |         |         |      |
| 19  | 8/24/22 | 8/25/22 | 1    |
| 20  | 8/25/22 | 8/26/22 | 1    |
|     |         |         |      |
| 21  | 8/26/22 | 8/29/22 | 3    |
| 1   | 8/29/22 | 8/30/22 | 1    |
|     |         |         |      |
| 2   | 8/30/22 | 8/31/22 | 1    |
| 3   | 8/31/22 | 9/1/22  | 1    |
|     | 9/1/22  |         |      |
| 4   | 9/1/22  | 9/2/22  | 1    |
| 5   | 9/2/22  | 9/6/22  | 4    |
|     |         |         |      |
| 6   | 9/6/22  | 9/7/22  | 1    |
| 7   | 9/7/22  | 9/8/22  | 1    |
| 8   | 9/8/22  | 9/9/22  | 1    |
|     |         |         |      |
| 9   | 9/9/22  | 9/12/22 | 3    |
| 10  | 9/12/22 | 9/13/22 | 1    |
|     |         |         |      |
| 11  | 9/13/22 | 9/14/22 | 1    |
| 12  | 9/14/22 | 9/15/22 | 1    |
|     |         |         |      |
| 13  | 9/15/22 | 9/16/22 | 1    |
| 14  | 9/16/22 | 9/19/22 | 3    |
|     |         |         |      |
| 15  | 9/19/22 | 9/20/22 | 1    |
| 16  | 9/20/22 | 9/21/22 | 1    |
| 17  |         |         | 1    |
|     | 9/21/22 | 9/22/22 |      |
| 18  | 9/22/22 | 9/23/22 | 1    |
| 19  | 9/23/22 | 9/26/22 | 3    |
|     |         |         |      |
| 20  | 9/26/22 | 9/27/22 | 1    |
| 21  | 9/27/22 | 9/28/22 | 1    |
|     |         |         |      |
| 1   | 9/28/22 | 9/29/22 | 1    |
| 2   | 9/29/22 | 9/30/22 | 1    |
|     |         |         |      |
| 3   | 9/30/22 | 10/3/22 | 3    |
|     |         |         | 1.46 |
|     |         |         |      |

### PAYMENT PROCESSING LAG

|                       |       | Amount         | Weight  | Lag | Weig | hted Lead |
|-----------------------|-------|----------------|---------|-----|------|-----------|
| Checkless Payment     | \$    | 60,407,943.01  | 9.70%   |     | 0    | 0.000     |
| In-Person Payments    |       | 29,768,384.41  | 4.78%   |     | 0    | 0.000     |
| Electronic Remittance |       | 98,629,584.86  | 15.84%  |     | 2    | 0.317     |
| ER Direct Send        |       | 10,217,428.42  | 1.64%   |     | 0    | 0.000     |
| DELX Remit Exception  |       | 22,084,363.82  | 3.55%   |     | 0    | 0.000     |
| BNYN Remittance       |       | 42,591.52      | 0.01%   |     | 0    | 0.000     |
| BNYN Remittance       |       | 191,640,558.64 | 30.79%  |     | 1    | 0.308     |
| BNYN Remittance       |       | 21,274,465.84  | 3.42%   |     | 2    | 0.068     |
| Bill Matrix Payment   |       | 187,317,449.55 | 30.09%  |     | 1    | 0.301     |
| PRIM Payment          |       | 1,103,592.70   | 0.18%   |     | 0    | 0.000     |
|                       | \$ 62 |                | 100.00% |     |      | 0.99 days |

### **BANK FLOAT**

| DANKILOAI         |                      |            |                  |      |
|-------------------|----------------------|------------|------------------|------|
|                   | Amount               | % of Total | Weighted Average |      |
| Toal Same Day     | \$<br>42,591.52      | 0.02%      | =                |      |
| Total 1 Day Float | \$<br>191,640,558.64 | 89.99%     | 0.90             |      |
| Total 2 Day Float | \$<br>21,274,465.84  | 9.99%      | 0.20             |      |
| Total             | \$<br>212,957,616.00 | _          | 1.10             | days |
|                   |                      |            |                  |      |

| Month  | Same Day        | 1 Day Float          | 2 Day Float         | Total Amount         |
|--------|-----------------|----------------------|---------------------|----------------------|
| Oct-21 | \$<br>3,082.18  | \$<br>13,868,276.85  | \$<br>1,539,549.79  | \$<br>15,410,908.82  |
| Nov-21 | 3,201.40        | 14,404,683.46        | 1,599,097.54        | 16,006,982.40        |
| Dec-21 | 3,150.67        | 14,176,454.86        | 1,573,761.35        | 15,753,366.89        |
| Jan-22 | 3,981.29        | 17,913,820.69        | 1,988,655.06        | 19,906,457.04        |
| Feb-22 | 4,308.24        | 19,384,909.59        | 2,151,964.07        | 21,541,181.90        |
| Mar-22 | 4,091.70        | 18,410,615.62        | 2,043,805.42        | 20,458,512.75        |
| Apr-22 | 3,060.89        | 13,772,480.65        | 1,528,915.23        | 15,304,456.77        |
| May-22 | 3,378.11        | 15,199,810.24        | 1,687,366.42        | 16,890,554.77        |
| Jun-22 | 3,031.10        | 13,638,424.51        | 1,514,033.35        | 15,155,488.95        |
| Jul-22 | 3,756.24        | 16,901,198.01        | 1,876,241.45        | 18,781,195.70        |
| Aug-22 | 4,240.97        | 19,082,264.03        | 2,118,366.68        | 21,204,871.69        |
| Sep-22 | 3,308.73        | 14,887,620.12        | 1,652,709.47        | 16,543,638.32        |
|        | \$<br>42,591.52 | \$<br>191,640,558.64 | \$<br>21,274,465.84 | \$<br>212,957,616.00 |

#### KENTUCKY POWER COMPANY LEAD LAG STUDY COLLECTIONS LAG

| Month  | Current (0-30) [1]   | 30 Days (30-60) [2] | 60 Days (60-90) [3]   | 180 Days (90- 180) [4] | 365 Days (180 - 365) | >365 Days | Total   |
|--|--|---------------------|---|------------------------|----------------------|-----------|---|
| (A)  | (B)  | (C)                 | (D)   | (E)                    | (F)                  | (G)       | (H)   |
| October 2021 November 2021 December 2021 January 2022 February 2022 March 2022 April 2022 May 2022 June 2022 July 2022 | \$ 6,345,681.02<br>6,500,314.61<br>6,065,183.35<br>9,694,885.79<br>11,049,253.88<br>8,319,116.20<br>6,599,047.74<br>6,925,518.67<br>6,993,405.22<br>8,331,471.86 | . ,                 | \$ 235,054.90<br>247,530.96<br>304,556.76<br>444,152.09<br>345,982.42<br>1,062,255.72<br>749,533.40<br>577,812.97<br>463,066.23 |                        | · /                  | , ,       | \$ 7,677,197.83<br>7,912,263.08<br>7,570,030.50<br>11,736,342.42<br>13,706,801.63<br>11,470,760.25<br>9,808,786.57<br>9,354,651.11<br>9,179,569.61<br>10,044,576.36 |
| August 2022  | 8,758,192.36   | 1,106,117.06        | 371,923.25  | 537,607.90             |                      |           | 10,773,840.57   |
| September 2022   | 8,870,816.06   | 1,265,589.65        | 437,215.56  | 485,272.11             |                      |           | 11,058,893.38   |
|  | \$ 94,452,886.76   | \$ 13,307,774.87    | \$ 5,617,637.91   | \$ 6,915,413.77        | \$ - 5               | -         | \$ 120,293,713.31   |
| Weighted Average   | 78.52%   | 11.06%              | 4.67%   | 5.75%                  | 0.00%                | 0.00%     |   |
| Midpoint of Range  | 21   | 45                  | 5 75  | 135                    | 272.5                | 365       |   |
| Weighted Days  | 16.49  | 4.98                | 3.50  | 7.76                   | -                    |           | 32.73   |

#### KENTUCKY POWER COMPANY LEAD LAG STUDY FUEL PURCHASES

Weighted Lead Time: 23.00 days

|  |                              | Payment    |                          |                          | Payment                  | Service       | Payment        | Total Lead     | Weighting         | Dollar-<br>Weighted |
|--|------------------------------|------------|--------------------------|--------------------------|--------------------------|---------------|----------------|----------------|-------------------|---------------------|
| Vendor Name  | Invoice Amount               | Method     | Period Beginning         | Period End               | Date                     | Lead Time     | Lead Time      | Time           | Factor            | Days                |
| (A)<br>ALPHA THERMAL COAL SALES COMPANY                              | (B)<br>\$ 806,035.45         | (C)<br>EFT | (D)<br>9/28/2021         | (E)<br>10/8/2021         | (F)<br>10/18/2021        | (G)<br>5.50   | (H)<br>10.00   | (I)<br>15.50   | (J)<br>0.582%     | (K)<br>0.09         |
| ALPHA THERMAL COAL SALES COMPANY<br>ALPHA THERMAL COAL SALES COMPANY | 382,361.30<br>2,029,895.03   | EFT<br>EFT | 9/28/2021<br>10/14/2021  | 10/8/2021<br>10/23/2021  | 10/18/2021<br>11/1/2021  | 5.50<br>5.00  | 10.00<br>9.00  | 15.50<br>14.00 | 0.276%<br>1.465%  | 0.04<br>0.21        |
| ALPHA THERMAL COAL SALES COMPANY                                     | 204,261.40                   | EFT        | 10/14/2021               | 10/23/2021               | 11/1/2021                | 5.00          | 9.00           | 14.00          | 0.147%            | 0.02                |
| ALPHA THERMAL COAL SALES COMPANY ALPHA THERMAL COAL SALES COMPANY    | 812,899.95<br>681.431.81     | EFT<br>EFT | 10/21/2021<br>11/9/2021  | 10/27/2021<br>11/14/2021 |                          | 3.50<br>3.00  | 20.00<br>16.00 | 23.50<br>19.00 | 0.587%<br>0.492%  | 0.14<br>0.09        |
| ALPHA THERMAL COAL SALES COMPANY                                     | 189,621.42                   | EFT        | 11/9/2021                | 11/14/2021               |                          | 3.00          | 16.00          | 19.00          | 0.492%            | 0.09                |
| ALPHA THERMAL COAL SALES COMPANY                                     | 1,128,192.06                 | EFT        | 11/19/2021               | 11/30/2021               | 12/15/2021               | 6.00          | 15.00          | 21.00          | 0.814%            | 0.17                |
| ALPHA THERMAL COAL SALES COMPANY ALPHA THERMAL COAL SALES COMPANY    | 302,152.44<br>281,856.13     | EFT<br>EFT | 11/19/2021<br>12/8/2021  | 11/30/2021<br>12/27/2021 | 12/15/2021<br>12/27/2021 | 6.00<br>10.00 | 15.00          | 21.00<br>10.00 | 0.218%<br>0.203%  | 0.05<br>0.02        |
| ALPHA THERMAL COAL SALES COMPANY                                     | 288,539.95                   | EFT        | 12/8/2021                | 12/27/2021               | 12/27/2021               | 10.00         | -              | 10.00          | 0.208%            | 0.02                |
| ALPHA THERMAL COAL SALES COMPANY ALPHA THERMAL COAL SALES COMPANY    | 469,346.19<br>850,389.40     | EFT<br>EFT | 12/30/2021<br>1/12/2022  | 1/9/2022<br>1/19/2022    | 1/18/2022<br>2/1/2022    | 5.50<br>4.00  | 9.00<br>13.00  | 14.50<br>17.00 | 0.339%<br>0.614%  | 0.05<br>0.10        |
| ALPHA THERMAL COAL SALES COMPANY                                     | 16,780.94                    | EFT        | 1/12/2022                | 1/19/2022                | 2/1/2022                 | 4.00          | 13.00          | 17.00          | 0.012%            | 0.00                |
| ALPHA THERMAL COAL SALES COMPANY ALPHA THERMAL COAL SALES COMPANY    | 472,407.88<br>657,064.51     | EFT<br>EFT | 1/25/2022<br>2/15/2022   | 2/2/2022<br>3/1/2022     | 2/16/2022<br>3/1/2022    | 4.50<br>7.50  | 14.00          | 18.50<br>7.50  | 0.341%<br>0.474%  | 0.06<br>0.04        |
| ALPHA THERMAL COAL SALES COMPANY                                     | 480,373.68                   | EFT        | 2/15/2022                | 3/1/2022                 | 3/1/2022                 | 7.50          | -              | 7.50           | 0.347%            | 0.03                |
| ALPHA THERMAL COAL SALES COMPANY ALPHA THERMAL COAL SALES COMPANY    | 737,313.73<br>127,715.85     | EFT<br>EFT | 3/15/2022<br>3/15/2022   | 3/23/2022<br>3/23/2022   | 3/30/2022<br>3/30/2022   | 4.50<br>4.50  | 7.00<br>7.00   | 11.50<br>11.50 | 0.532%<br>0.092%  | 0.06<br>0.01        |
| ALPHA THERMAL COAL SALES COMPANY                                     | 101,611.31                   | EFT        | 3/28/2022                | 4/6/2022                 | 4/18/2022                | 5.00          | 12.00          | 17.00          | 0.073%            | 0.01                |
| ALPHA THERMAL COAL SALES COMPANY ALPHA THERMAL COAL SALES COMPANY    | 383,337.11<br>882,177.71     | EFT<br>EFT | 3/28/2022<br>3/28/2022   | 4/4/2022<br>4/4/2022     | 4/14/2022<br>4/14/2022   | 4.00<br>4.00  | 10.00<br>10.00 | 14.00<br>14.00 | 0.277%<br>0.636%  | 0.04<br>0.09        |
| ALPHA THERMAL COAL SALES COMPANY                                     | 608,755.59                   | EFT        | 4/13/2022                | 4/19/2022                | 5/2/2022                 | 3.50          | 13.00          | 16.50          | 0.439%            | 0.07                |
| ALPHA THERMAL COAL SALES COMPANY ALPHA THERMAL COAL SALES COMPANY    | 176,717.05<br>359,452.27     | EFT<br>EFT | 4/18/2022<br>4/26/2022   | 4/27/2022<br>5/6/2022    | 5/18/2022<br>5/18/2022   | 5.00<br>5.50  | 21.00<br>12.00 | 26.00<br>17.50 | 0.128%<br>0.259%  | 0.03<br>0.05        |
| ALPHA THERMAL COAL SALES COMPANY                                     | 1,083,041.38                 | EFT        | 4/26/2022                | 5/6/2022                 | 5/18/2022                | 5.50          | 12.00          | 17.50          | 0.239 %           | 0.03                |
| ALPHA THERMAL COAL SALES COMPANY ALPHA THERMAL COAL SALES COMPANY    | 553,856.52                   | EFT<br>EFT | 5/2/2022<br>5/26/2022    | 5/12/2022                | 5/31/2022                | 5.50          | 19.00          | 24.50          | 0.400%            | 0.10                |
| ALPHA THERMAL COAL SALES COMPANY ALPHA THERMAL COAL SALES COMPANY    | 466,334.96<br>1,204,841.12   | EFT        | 5/26/2022                | 6/2/2022<br>6/2/2022     | 6/16/2022<br>6/16/2022   | 4.00<br>4.00  | 14.00<br>14.00 | 18.00<br>18.00 | 0.336%<br>0.869%  | 0.06<br>0.16        |
| ALPHA THERMAL COAL SALES COMPANY                                     | 1,300,576.71                 | EFT        | 6/15/2022                | 6/23/2022                | 6/30/2022                | 4.50          | 7.00           | 11.50          | 0.938%            | 0.11                |
| ALPHA THERMAL COAL SALES COMPANY<br>ALPHA THERMAL COAL SALES COMPANY | 1,119,160.90<br>371,874.35   | EFT<br>EFT | 6/15/2022<br>6/30/2022   | 6/23/2022<br>7/18/2022   | 6/30/2022<br>7/15/2022   | 4.50<br>9.50  | 7.00<br>(3.00) | 11.50<br>6.50  | 0.807%<br>0.268%  | 0.09<br>0.02        |
| ALPHA THERMAL COAL SALES COMPANY                                     | 1,044,326.97                 | EFT        | 6/30/2022                | 7/18/2022                | 7/15/2022                | 9.50          | (3.00)         | 6.50           | 0.753%            | 0.05                |
| ALPHA THERMAL COAL SALES COMPANY ALPHA THERMAL COAL SALES COMPANY    | 185,351.97<br>99,890.19      | EFT<br>EFT | 7/13/2022<br>7/13/2022   | 7/19/2022<br>7/19/2022   | 8/1/2022<br>8/1/2022     | 3.50<br>3.50  | 13.00<br>13.00 | 16.50<br>16.50 | 0.134%<br>0.072%  | 0.02<br>0.01        |
| ALPHA THERMAL COAL SALES COMPANY                                     | 1,358,616.28                 | EFT        | 7/27/2022                | 8/3/2022                 | 8/16/2022                | 4.00          | 13.00          | 17.00          | 0.980%            | 0.17                |
| ALPHA THERMAL COAL SALES COMPANY ALPHA THERMAL COAL SALES COMPANY    | 874,998.04<br>1,247,702.40   | EFT<br>EFT | 8/11/2022<br>8/25/2022   | 8/18/2022<br>9/6/2022    | 8/30/2022<br>9/16/2022   | 4.00<br>6.50  | 12.00<br>10.00 | 16.00<br>16.50 | 0.631%<br>0.900%  | 0.10<br>0.15        |
| ALPHA THERMAL COAL SALES COMPANY                                     | 16,532.23                    | EFT        | 8/25/2022                | 9/6/2022                 | 9/20/2022                | 6.50          | 14.00          | 20.50          | 0.012%            | 0.00                |
| ALPHA THERMAL COAL SALES COMPANY ALPHA THERMAL COAL SALES COMPANY    | (0.17)<br>801,359.97         | EFT<br>EFT | 8/25/2022<br>8/24/2022   | 9/6/2022<br>9/1/2022     | 9/20/2022<br>9/16/2022   | 6.50<br>4.50  | 14.00<br>15.00 | 20.50<br>19.50 | 0.000%<br>0.578%  | (0.00)<br>0.11      |
| ALPHA THERMAL COAL SALES COMPANY                                     | 1,051,422.73                 | EFT        | 9/15/2022                | 9/28/2022                | 9/30/2022                | 7.00          | 2.00           | 9.00           | 0.759%            | 0.11                |
| ALPHA THERMAL COAL SALES COMPANY<br>AMERICAN CONSOLIDATED NATURAL    | 261,528.90                   | EFT<br>EFT | 9/15/2022<br>9/30/2021   | 9/28/2022<br>9/30/2021   | 9/30/2022<br>10/15/2021  | 7.00<br>0.50  | 2.00<br>15.00  | 9.00<br>15.50  | 0.189%<br>-0.007% | 0.02<br>(0.00)      |
| AMERICAN CONSOLIDATED NATURAL  | (9,504.85)<br>2,931,954.74   | EFT        | 9/30/2021                | 9/30/2021                | 10/15/2021               | 0.50          | 15.00          | 15.50          | 2.115%            | 0.33                |
| AMERICAN CONSOLIDATED NATURAL  | (6,904.33)                   | EFT        | 10/15/2021               | 10/15/2021               | 11/1/2021                | 0.50          | 17.00          | 17.50          | -0.005%           | (0.00)              |
| AMERICAN CONSOLIDATED NATURAL AMERICAN CONSOLIDATED NATURAL          | 2,079,281.60<br>(14,606.99)  | EFT<br>EFT | 10/15/2021<br>10/31/2021 | 10/15/2021<br>10/31/2021 | 11/1/2021<br>11/16/2021  | 0.50<br>0.50  | 17.00<br>16.00 | 17.50<br>16.50 | 1.500%<br>-0.011% | 0.26<br>(0.00)      |
| AMERICAN CONSOLIDATED NATURAL  | 2,799,903.59                 | EFT        | 10/31/2021               | 10/31/2021               |                          | 0.50          | 16.00          | 16.50          | 2.020%            | 0.33                |
| AMERICAN CONSOLIDATED NATURAL AMERICAN CONSOLIDATED NATURAL          | (8,336.13)<br>958,733.27     | EFT<br>EFT | 11/15/2021<br>11/15/2021 | 11/15/2021<br>11/15/2021 | 11/30/2021               | 0.50<br>0.50  | 15.00<br>15.00 | 15.50<br>15.50 | -0.006%<br>0.692% | (0.00)<br>0.11      |
| AMERICAN CONSOLIDATED NATURAL  | (10,579.22)                  | EFT        | 11/21/2021               | 11/21/2021               | 12/15/2021               | 0.50          | 24.00          | 24.50          | -0.008%           | (0.00)              |
| AMERICAN CONSOLIDATED NATURAL AMERICAN CONSOLIDATED NATURAL          | 1,286,974.70<br>8,947.27     | EFT<br>EFT | 11/21/2021<br>12/15/2021 | 11/21/2021<br>12/15/2021 |                          | 0.50<br>0.50  | 24.00<br>14.00 | 24.50<br>14.50 | 0.929%<br>0.006%  | 0.23<br>0.00        |
| AMERICAN CONSOLIDATED NATURAL  | 3,328,108.19                 | EFT        | 12/15/2021               | 12/15/2021               | 12/29/2021               | 0.50          | 14.00          | 14.50          | 2.401%            | 0.35                |
| AMERICAN CONSOLIDATED NATURAL AMERICAN CONSOLIDATED NATURAL          | 81,402.95<br>(485,110.83)    | EFT<br>EFT | 12/3/2021<br>12/3/2021   | 12/6/2021<br>12/7/2021   | 12/29/2021<br>1/17/2022  | 2.00<br>2.50  | 23.00<br>41.00 | 25.00<br>43.50 | 0.059%<br>-0.350% | 0.01<br>(0.15)      |
| AMERICAN CONSOLIDATED NATURAL  | 81,947.17                    | EFT        | 12/3/2021                | 12/7/2021                | 1/17/2022                | 2.50          | 41.00          | 43.50          | 0.059%            | 0.03                |
| AMERICAN CONSOLIDATED NATURAL AMERICAN CONSOLIDATED NATURAL          | (28,336.55)<br>2,800,322.80  | EFT<br>EFT | 12/31/2021<br>12/31/2021 | 12/31/2021<br>12/31/2021 | 1/17/2022<br>1/17/2022   | 0.50<br>0.50  | 17.00<br>17.00 | 17.50<br>17.50 | -0.020%<br>2.020% | (0.00)<br>0.35      |
| AMERICAN CONSOLIDATED NATURAL  | (7,495.30)                   | EFT        | 1/15/2022                | 1/15/2022                | 2/1/2022                 | 0.50          | 17.00          | 17.50          | -0.005%           | (0.00)              |
| AMERICAN CONSOLIDATED NATURAL AMERICAN CONSOLIDATED NATURAL          | 3,032,565.14<br>(1,494.89)   | EFT<br>EFT | 1/15/2022<br>1/31/2022   | 1/15/2022<br>1/31/2022   | 2/1/2022<br>2/16/2022    | 0.50<br>0.50  | 17.00<br>16.00 | 17.50<br>16.50 | 2.188%<br>-0.001% | 0.38 (0.00)         |
| AMERICAN CONSOLIDATED NATURAL  | 3,149,105.52                 | EFT        | 1/31/2022                | 1/31/2022                | 2/16/2022                | 0.50          | 16.00          | 16.50          | 2.272%            | 0.37                |
| AMERICAN CONSOLIDATED NATURAL AMERICAN CONSOLIDATED NATURAL          | 113,142.79<br>696,727.02     | EFT<br>EFT | 2/15/2022<br>2/15/2022   | 2/15/2022<br>2/15/2022   | 3/2/2022<br>3/2/2022     | 0.50<br>0.50  | 15.00<br>15.00 | 15.50<br>15.50 | 0.082%<br>0.503%  | 0.01<br>0.08        |
| AMERICAN CONSOLIDATED NATURAL  | (579.55)                     | EFT        | 2/28/2022                | 2/28/2022                | 3/15/2022                | 0.50          | 15.00          | 15.50          | 0.000%            | (0.00)              |
| AMERICAN CONSOLIDATED NATURAL  | 3,681,083.01                 | EFT        | 2/28/2022                | 2/28/2022                | 3/15/2022                | 0.50          | 15.00          | 15.50          | 2.656%            | 0.41                |
| AMERICAN CONSOLIDATED NATURAL AMERICAN CONSOLIDATED NATURAL          | (648.23)<br>1,637,015.05     | EFT<br>EFT | 3/12/2022<br>3/12/2022   | 3/12/2022<br>3/12/2022   | 3/30/2022<br>3/30/2022   | 0.50<br>0.50  | 18.00<br>18.00 | 18.50<br>18.50 | 0.000%<br>1.181%  | (0.00)<br>0.22      |
| AMERICAN CONSOLIDATED NATURAL  | 14,564.73                    | EFT        | 3/31/2022                | 3/31/2022                | 4/14/2022<br>4/14/2022   | 0.50          | 14.00          | 14.50          | 0.011%            | 0.00                |
| AMERICAN CONSOLIDATED NATURAL AMERICAN CONSOLIDATED NATURAL          | 4,725,754.33<br>(11,152.67)  | EFT<br>EFT | 3/31/2022<br>4/12/2022   | 3/31/2022<br>4/12/2022   | 5/2/2022                 | 0.50<br>0.50  | 14.00<br>20.00 | 14.50<br>20.50 | 3.410%<br>-0.008% | 0.49<br>(0.00)      |
| AMERICAN CONSOLIDATED NATURAL  | 1,237,507.92                 | EFT        | 4/12/2022                | 4/12/2022                | 5/2/2022                 | 0.50          | 20.00          | 20.50          | 0.893%            | 0.18                |
| AMERICAN CONSOLIDATED NATURAL AMERICAN CONSOLIDATED NATURAL          | (4,737.34)<br>1,198,681.53   | EFT<br>EFT | 4/30/2022<br>4/30/2022   | 4/30/2022<br>4/30/2022   | 5/17/2022<br>5/17/2022   | 0.50<br>0.50  | 17.00<br>17.00 | 17.50<br>17.50 | -0.003%<br>0.865% | (0.00)<br>0.15      |
| AMERICAN CONSOLIDATED NATURAL  | (11,950.88)                  | EFT        | 5/9/2022                 | 5/9/2022                 | 5/31/2022                | 0.50          | 22.00          | 22.50          | -0.009%           | (0.00)              |
| AMERICAN CONSOLIDATED NATURAL<br>AMERICAN CONSOLIDATED NATURAL       | 1,111,680.09<br>(109,486.08) | EFT<br>EFT | 5/9/2022<br>5/22/2022    | 5/9/2022<br>5/22/2022    | 5/31/2022<br>6/16/2022   | 0.50<br>0.50  | 22.00<br>25.00 | 22.50<br>25.50 | 0.802%<br>-0.079% | 0.18<br>(0.02)      |
| AMERICAN CONSOLIDATED NATURAL  | 312,619.99                   | EFT        | 5/22/2022                | 5/22/2022                | 6/16/2022                | 0.50          | 25.00          | 25.50          | 0.226%            | 0.06                |
| AMERICAN CONSOLIDATED NATURAL<br>AMERICAN CONSOLIDATED NATURAL       | (7,009.94)<br>953,591.34     | EFT<br>EFT | 6/14/2022<br>6/14/2022   | 6/14/2022<br>6/14/2022   | 6/30/2022<br>6/30/2022   | 0.50<br>0.50  | 16.00<br>16.00 | 16.50<br>16.50 | -0.005%<br>0.688% | (0.00)<br>0.11      |
| AMERICAN CONSOLIDATED NATURAL  | (12,318.08)                  | EFT        | 6/30/2022                | 6/30/2022                | 7/15/2022                | 0.50          | 15.00          | 15.50          | -0.009%           | (0.00)              |
| AMERICAN CONSOLIDATED NATURAL  | 1,025,679.81                 | EFT        | 6/30/2022                | 6/30/2022                | 7/15/2022                | 0.50          | 15.00          | 15.50          | 0.740%            | 0.11                |
| AMERICAN CONSOLIDATED NATURAL AMERICAN CONSOLIDATED NATURAL          | (18,198.12)<br>1,217,915.73  | EFT<br>EFT | 7/15/2022<br>7/15/2022   | 7/15/2022<br>7/15/2022   | 8/1/2022<br>8/1/2022     | 0.50<br>0.50  | 17.00<br>17.00 | 17.50<br>17.50 | -0.013%<br>0.879% | (0.00)<br>0.15      |
| AMERICAN CONSOLIDATED NATURAL  | (9,560.02)                   | EFT        | 7/30/2022                | 7/30/2022                | 8/17/2022                | 0.50          | 18.00          | 18.50          | -0.007%           | (0.00)              |
| AMERICAN CONSOLIDATED NATURAL AMERICAN CONSOLIDATED NATURAL          | 1,679,956.45<br>731,390.64   | EFT<br>EFT | 7/30/2022<br>8/15/2022   | 7/30/2022<br>8/15/2022   | 8/17/2022<br>8/30/2022   | 0.50<br>0.50  | 18.00<br>15.00 | 18.50<br>15.50 | 1.212%<br>0.528%  | 0.22<br>0.08        |
| AMERICAN CONSOLIDATED NATURAL  | 779,061.36                   | EFT        | 8/15/2022                | 8/15/2022                | 8/30/2022                | 0.50          | 15.00          | 15.50          | 0.562%            | 0.09                |
| AMERICAN CONSOLIDATED NATURAL AMERICAN CONSOLIDATED NATURAL          | (19,154.70)<br>3,616,227.46  | EFT<br>EFT | 8/31/2022<br>8/31/2022   | 8/31/2022<br>8/31/2022   | 9/16/2022<br>9/16/2022   | 0.50<br>0.50  | 16.00<br>16.00 | 16.50<br>16.50 | -0.014%<br>2.609% | (0.00)<br>0.43      |
|  | -,,                          | •          |                          |                          |                          |               |                |                |                   | - · · <del>-</del>  |

| Vendor Name   | Invoice Amount             | Payment<br>Method | Period Beginning         | Period End               | Payment<br>Date          | Service<br>Lead Time | Payment<br>Lead Time | Total Lead<br>Time | Weighting<br>Factor | Dollar-<br>Weighted<br>Days |
|---|----------------------------|-------------------|--------------------------|--------------------------|--------------------------|----------------------|----------------------|--------------------|---------------------|-----------------------------|
| AMERICAN CONSOLIDATED NATURAL                         | (3,247.80)                 | EFT               | 9/15/2022                | 9/15/2022                | 9/30/2022                | 0.50                 | 15.00                | 15.50              | -0.002%             | (0.00)                      |
| AMERICAN CONSOLIDATED NATURAL BAMM INC                | 2,281,958.41<br>108,057.16 | EFT<br>EFT        | 9/15/2022<br>1/13/2022   | 9/15/2022<br>2/3/2022    | 9/30/2022<br>2/11/2022   | 0.50<br>11.00        | 15.00<br>8.00        | 15.50<br>19.00     | 1.646%<br>0.078%    | 0.26<br>0.01                |
| BLACKHAWK COAL SALES LLC                              | 266,770.80                 | EFT               | 1/11/2022                | 1/18/2022                | 2/16/2022                | 4.00                 | 29.00                | 33.00              | 0.192%              | 0.06                        |
| BLACKHAWK COAL SALES LLC<br>BLACKHAWK COAL SALES LLC  | 99,597.60                  | EFT<br>EFT        | 1/11/2022<br>1/11/2022   | 1/18/2022<br>1/18/2022   | 2/16/2022<br>2/24/2022   | 4.00<br>4.00         | 29.00<br>37.00       | 33.00<br>41.00     | 0.072%<br>-0.004%   | 0.02<br>(0.00)              |
| BLACKHAWK COAL SALES LLC BLACKHAWK COAL SALES LLC     | (5,251.28)<br>89,764.74    | EFT               | 2/9/2022                 | 2/15/2022                | 3/2/2022                 | 3.50                 | 15.00                | 18.50              | 0.065%              | 0.00)                       |
| BLACKHAWK COAL SALES LLC                              | 360,428.86                 | EFT               | 2/9/2022                 | 2/15/2022                | 3/2/2022                 | 3.50                 | 15.00                | 18.50              | 0.260%              | 0.05                        |
| BLACKHAWK COAL SALES LLC<br>BLACKHAWK COAL SALES LLC  | 175,218.13<br>171,126.00   | EFT<br>EFT        | 3/25/2022<br>3/25/2022   | 4/5/2022<br>4/5/2022     | 4/18/2022<br>4/18/2022   | 6.00<br>6.00         | 13.00<br>13.00       | 19.00<br>19.00     | 0.126%<br>0.123%    | 0.02<br>0.02                |
| BLACKHAWK COAL SALES LLC                              | (1,692.14)                 | EFT               | 3/25/2022                | 4/5/2022                 | 4/27/2022                | 6.00                 | 22.00                | 28.00              | -0.001%             | (0.00)                      |
| BLACKHAWK COAL SALES LLC<br>BLACKHAWK COAL SALES LLC  | (713.03)<br>362,103.02     | EFT<br>EFT        | 3/25/2022<br>4/7/2022    | 4/5/2022<br>4/20/2022    | 4/27/2022<br>5/2/2022    | 6.00<br>7.00         | 22.00<br>12.00       | 28.00<br>19.00     | -0.001%<br>0.261%   | (0.00)<br>0.05              |
| BLACKHAWK COAL SALES LLC                              | 435,970.30                 | EFT               | 5/25/2022                | 6/7/2022                 | 6/16/2022                | 7.00                 | 9.00                 | 16.00              | 0.315%              | 0.05                        |
| BLACKHAWK COAL SALES LLC<br>BLACKHAWK COAL SALES LLC  | 416,131.43<br>282,398.33   | EFT<br>EFT        | 5/25/2022<br>5/25/2022   | 6/2/2022<br>6/2/2022     | 6/16/2022<br>6/16/2022   | 4.50<br>4.50         | 14.00<br>14.00       | 18.50<br>18.50     | 0.300%<br>0.204%    | 0.06<br>0.04                |
| BLACKHAWK COAL SALES LLC                              | 367,356.77                 | EFT               | 6/27/2022                | 7/6/2022                 | 7/15/2022                | 5.00                 | 9.00                 | 14.00              | 0.265%              | 0.04                        |
| BLACKHAWK COAL SALES LLC<br>BLACKHAWK COAL SALES LLC  | 587,835.71<br>149,907.07   | EFT<br>EFT        | 6/24/2022<br>6/24/2022   | 7/15/2022<br>7/15/2022   | 7/18/2022<br>7/18/2022   | 11.00<br>11.00       | 3.00<br>3.00         | 14.00<br>14.00     | 0.424%<br>0.108%    | 0.06<br>0.02                |
| BLACKHAWK COAL SALES LLC                              | 87,534.50                  | EFT               | 7/14/2022                | 7/20/2022                | 8/1/2022                 | 3.50                 | 12.00                | 15.50              | 0.063%              | 0.01                        |
| BLACKHAWK COAL SALES LLC<br>BLACKHAWK COAL SALES LLC  | 271,564.62<br>401,862.03   | EFT<br>EFT        | 7/14/2022<br>7/14/2022   | 7/20/2022<br>7/20/2022   | 8/1/2022<br>8/1/2022     | 3.50<br>3.50         | 12.00<br>12.00       | 15.50<br>15.50     | 0.196%<br>0.290%    | 0.03<br>0.04                |
| BLACKHAWK COAL SALES LLC                              | 277,382.62                 | EFT               | 7/14/2022                | 7/20/2022                | 8/1/2022                 | 3.50                 | 12.00                | 15.50              | 0.200%              | 0.03                        |
| BLACKHAWK COAL SALES LLC<br>BLACKHAWK COAL SALES LLC  | 363,054.45<br>676,420.15   | EFT<br>EFT        | 8/4/2022<br>8/4/2022     | 8/10/2022<br>8/9/2022    | 8/31/2022<br>8/31/2022   | 3.50<br>3.00         | 21.00<br>22.00       | 24.50<br>25.00     | 0.262%<br>0.488%    | 0.06<br>0.12                |
| BLACKHAWK COAL SALES LLC                              | 543,082.37                 | EFT               | 9/17/2021                | 9/28/2021                | 10/15/2021               | 6.00                 | 17.00                | 23.00              | 0.392%              | 0.09                        |
| BLACKHAWK COAL SALES LLC<br>BLACKHAWK COAL SALES LLC  | 644,792.82<br>223,059.37   | EFT<br>EFT        | 10/13/2021<br>10/13/2021 | 10/28/2021<br>10/28/2021 | 11/1/2021<br>11/1/2021   | 8.00<br>8.00         | 4.00<br>4.00         | 12.00<br>12.00     | 0.465%<br>0.161%    | 0.06<br>0.02                |
| BLACKHAWK COAL SALES LLC                              | 524,129.64                 | EFT               | 11/10/2021               | 11/24/2021               | 11/30/2021               | 7.50                 | 6.00                 | 13.50              | 0.378%              | 0.05                        |
| BLACKHAWK COAL SALES LLC<br>BLACKHAWK COAL SALES LLC  | 307,354.67<br>529,110.49   | EFT<br>EFT        | 11/10/2021<br>12/14/2021 | 11/24/2021<br>12/22/2021 | 11/30/2021<br>12/29/2021 | 7.50<br>4.50         | 6.00<br>7.00         | 13.50<br>11.50     | 0.222%<br>0.382%    | 0.03<br>0.04                |
| BLACKHAWK COAL SALES LLC                              | 110,762.47                 | EFT               | 12/27/2021               | 1/10/2022                | 1/17/2022                | 7.50                 | 7.00                 | 14.50              | 0.080%              | 0.01                        |
| BLACKHAWK COAL SALES LLC<br>CASE COAL SALES LLC       | 113,585.62<br>130,751.10   | EFT<br>EFT        | 12/27/2021<br>3/11/2022  | 1/10/2022<br>3/23/2022   | 1/17/2022<br>3/31/2022   | 7.50<br>6.50         | 7.00<br>8.00         | 14.50<br>14.50     | 0.082%<br>0.094%    | 0.01<br>0.01                |
| CASE COAL SALES LLC                                   | 149,278.18                 | EFT               | 4/13/2022                | 4/26/2022                | 5/2/2022                 | 7.00                 | 6.00                 | 13.00              | 0.108%              | 0.01                        |
| CASE COAL SALES LLC CASE COAL SALES LLC               | 258,218.02<br>270,150.06   | EFT<br>EFT        | 4/19/2022<br>6/7/2022    | 4/24/2022<br>6/22/2022   | 5/18/2022<br>6/30/2022   | 3.00<br>8.00         | 24.00<br>8.00        | 27.00<br>16.00     | 0.186%<br>0.195%    | 0.05<br>0.03                |
| CASE COAL SALES LLC                                   | 140,740.32                 | EFT               | 6/23/2022                | 6/28/2022                | 7/15/2022                | 3.00                 | 17.00                | 20.00              | 0.102%              | 0.02                        |
| CASE COAL SALES LLC CASE COAL SALES LLC               | 139,874.01<br>146,397.26   | EFT<br>EFT        | 7/7/2022<br>8/12/2022    | 7/19/2022<br>9/6/2022    | 8/8/2022<br>9/6/2022     | 6.50<br>13.00        | 20.00                | 26.50<br>13.00     | 0.101%<br>0.106%    | 0.03<br>0.01                |
| CASE COAL SALES LLC                                   | 141,287.12                 | EFT               | 9/8/2022                 | 9/27/2022                | 9/30/2022                | 10.00                | 3.00                 | 13.00              | 0.102%              | 0.01                        |
| JAVELIN GLOBAL COMMODITIES JAVELIN GLOBAL COMMODITIES | 321,117.39<br>207,622.17   | WIR<br>WIR        | 2/15/2022<br>2/15/2022   | 3/1/2022<br>3/1/2022     | 3/15/2022<br>3/15/2022   | 7.50<br>7.50         | 14.00<br>14.00       | 21.50<br>21.50     | 0.232%<br>0.150%    | 0.05<br>0.03                |
| RFI RESOURCES LLC                                     | 135,753.78                 | EFT               | 2/24/2022                | 3/22/2022                | 3/18/2022                | 13.50                | (4.00)               | 9.50               | 0.098%              | 0.01                        |
| RFI RESOURCES LLC<br>RFI RESOURCES LLC                | 136,237.48<br>139,892.87   | EFT<br>EFT        | 3/7/2022<br>3/25/2022    | 3/22/2022<br>4/2/2022    | 4/11/2022<br>4/18/2022   | 8.00<br>4.50         | 20.00<br>16.00       | 28.00<br>20.50     | 0.098%<br>0.101%    | 0.03<br>0.02                |
| RFI RESOURCES LLC                                     | 135,476.69                 | EFT               | 3/25/2022                | 4/2/2022                 | 4/18/2022                | 4.50                 | 16.00                | 20.50              | 0.098%              | 0.02                        |
| RFI RESOURCES LLC<br>RFI RESOURCES LLC                | (4,517.30)<br>419,938.49   | EFT<br>EFT        | 3/25/2022<br>4/14/2022   | 4/2/2022<br>4/26/2022    | 4/27/2022<br>5/2/2022    | 4.50<br>6.50         | 25.00<br>6.00        | 29.50<br>12.50     | -0.003%<br>0.303%   | (0.00)<br>0.04              |
| RFI RESOURCES LLC                                     | 2,449.80                   | EFT               | 4/14/2022                | 4/26/2022                | 5/19/2022                | 6.50                 | 23.00                | 29.50              | 0.002%              | 0.00                        |
| RFI RESOURCES LLC<br>RFI RESOURCES LLC                | 135,843.37<br>280,111.48   | EFT<br>EFT        | 4/29/2022<br>4/29/2022   | 5/10/2022<br>5/10/2022   | 5/19/2022<br>5/19/2022   | 6.00<br>6.00         | 9.00<br>9.00         | 15.00<br>15.00     | 0.098%<br>0.202%    | 0.01<br>0.03                |
| RFI RESOURCES LLC                                     | 582.23                     | EFT               | 4/29/2022                | 5/10/2022                | 5/19/2022                | 6.00                 | 9.00                 | 15.00              | 0.000%              | 0.00                        |
| RFI RESOURCES LLC<br>RFI RESOURCES LLC                | 130,878.78<br>143,024.86   | EFT<br>EFT        | 5/5/2022<br>5/17/2022    | 5/18/2022<br>5/26/2022   | 5/31/2022<br>6/16/2022   | 7.00<br>5.00         | 13.00<br>21.00       | 20.00<br>26.00     | 0.094%<br>0.103%    | 0.02<br>0.03                |
| RFI RESOURCES LLC                                     | 267,333.56                 | EFT               | 6/10/2022                | 6/30/2022                | 6/21/2022                | 10.50                | (9.00)               | 1.50               | 0.193%              | 0.00                        |
| RFI RESOURCES LLC<br>RFI RESOURCES LLC                | 137,045.14<br>257,465.47   | EFT<br>EFT        | 6/30/2022<br>6/30/2022   | 7/18/2022<br>7/18/2022   | 7/14/2022<br>7/14/2022   | 9.50<br>9.50         | (4.00)<br>(4.00)     | 5.50<br>5.50       | 0.099%<br>0.186%    | 0.01<br>0.01                |
| RIVER TRADING COMPANY                                 | 3,457.69                   | EFT               | 4/20/2022                | 5/10/2022                | 5/23/2022                | 10.50                | 13.00                | 23.50              | 0.002%              | 0.00                        |
| RIVER TRADING COMPANY<br>RIVER TRADING COMPANY        | 267,718.64<br>408,653.90   | EFT<br>EFT        | 4/20/2022<br>5/23/2022   | 5/10/2022<br>6/1/2022    | 5/23/2022<br>6/16/2022   | 10.50<br>5.00        | 13.00<br>15.00       | 23.50<br>20.00     | 0.193%<br>0.295%    | 0.05<br>0.06                |
| RIVER TRADING COMPANY                                 | 274,437.33                 | EFT               | 5/23/2022                | 6/1/2022                 | 6/16/2022                | 5.00                 | 15.00                | 20.00              | 0.198%              | 0.04                        |
| RIVER TRADING COMPANY<br>RIVER TRADING COMPANY        | 17,864.05<br>437,439.16    | EFT<br>EFT        | 5/23/2022<br>6/24/2022   | 6/1/2022<br>7/1/2022     | 6/29/2022<br>7/18/2022   | 5.00<br>4.00         | 28.00<br>17.00       | 33.00<br>21.00     | 0.013%<br>0.316%    | 0.00<br>0.07                |
| RIVER TRADING COMPANY                                 | 158,384.95                 | EFT               | 6/24/2022                | 7/1/2022                 | 7/18/2022                | 4.00                 | 17.00                | 21.00              | 0.114%              | 0.02                        |
| RIVER TRADING COMPANY PILOT TRAVEL CENTERS LLC        | 278,110.76<br>18,793.34    | EFT<br>EFT        | 8/19/2022<br>9/29/2021   | 9/7/2022<br>9/29/2021    | 9/16/2022<br>10/8/2021   | 10.00<br>0.50        | 9.00<br>9.00         | 19.00<br>9.50      | 0.201%<br>0.014%    | 0.04<br>0.00                |
| PILOT TRAVEL CENTERS LLC                              | 18,800.86                  | EFT               | 9/29/2021<br>9/29/2021   | 9/29/2021<br>9/29/2021   | 10/8/2021                | 0.50                 | 9.00                 | 9.50               | 0.014%              | 0.00                        |
| PILOT TRAVEL CENTERS LLC PILOT TRAVEL CENTERS LLC     | 18,790.84<br>18,788.33     | EFT<br>EFT        | 9/29/2021                | 9/29/2021                | 10/8/2021<br>10/8/2021   | 0.50<br>0.50         | 9.00<br>9.00         | 9.50<br>9.50       | 0.014%<br>0.014%    | 0.00<br>0.00                |
| PILOT TRAVEL CENTERS LLC PILOT TRAVEL CENTERS LLC     | 18,927.18<br>18,932.23     | EFT<br>EFT        | 9/30/2021<br>9/30/2021   | 9/30/2021                | 10/11/2021<br>10/11/2021 | 0.50<br>0.50         | 11.00<br>11.00       | 11.50<br>11.50     | 0.014%<br>0.014%    | 0.00<br>0.00                |
| PILOT TRAVEL CENTERS LLC                              | 18,924.66                  | EFT               | 9/30/2021                |                          | 10/11/2021               | 0.50                 | 11.00                | 11.50              | 0.014%              | 0.00                        |
| PILOT TRAVEL CENTERS LLC PILOT TRAVEL CENTERS LLC     | 18,922.14<br>19,117.22     | EFT<br>EFT        | 9/30/2021<br>10/1/2021   |                          | 10/11/2021<br>10/11/2021 | 0.50<br>0.50         | 11.00<br>10.00       | 11.50<br>10.50     | 0.014%<br>0.014%    | 0.00<br>0.00                |
| PILOT TRAVEL CENTERS LLC                              | 19,114.67                  | EFT               | 10/1/2021                | 10/1/2021                | 10/11/2021               | 0.50                 | 10.00                | 10.50              | 0.014%              | 0.00                        |
| PILOT TRAVEL CENTERS LLC PILOT TRAVEL CENTERS LLC     | 19,117.22<br>19,132.51     | EFT<br>EFT        | 10/1/2021<br>10/1/2021   |                          | 10/11/2021<br>10/11/2021 | 0.50<br>0.50         | 10.00<br>10.00       | 10.50<br>10.50     | 0.014%<br>0.014%    | 0.00<br>0.00                |
| PILOT TRAVEL CENTERS LLC                              | 19,459.76                  | EFT               | 10/4/2021                | 10/4/2021                | 10/11/2021               | 0.50                 | 7.00                 | 7.50               | 0.014%              | 0.00                        |
| PILOT TRAVEL CENTERS LLC PILOT TRAVEL CENTERS LLC     | 19,464.95<br>19,464.95     | EFT<br>EFT        | 10/4/2021<br>10/4/2021   |                          | 10/11/2021<br>10/11/2021 | 0.50<br>0.50         | 7.00<br>7.00         | 7.50<br>7.50       | 0.014%<br>0.014%    | 0.00<br>0.00                |
| PILOT TRAVEL CENTERS LLC                              | 19,457.16                  | EFT               | 10/4/2021                |                          | 10/11/2021               | 0.50                 | 7.00                 | 7.50               | 0.014%              | 0.00                        |
| PILOT TRAVEL CENTERS LLC PILOT TRAVEL CENTERS LLC     | 19,920.04<br>19,917.38     | EFT<br>EFT        | 10/5/2021<br>10/5/2021   |                          | 10/12/2021<br>10/12/2021 | 0.50<br>0.50         | 7.00<br>7.00         | 7.50<br>7.50       | 0.014%<br>0.014%    | 0.00<br>0.00                |
| PILOT TRAVEL CENTERS LLC                              | 19,933.32                  | EFT               | 10/5/2021                | 10/5/2021                |                          | 0.50                 | 7.00                 | 7.50               | 0.014%              | 0.00                        |
| PILOT TRAVEL CENTERS LLC PILOT TRAVEL CENTERS LLC     | 19,917.38<br>20,318.74     | EFT<br>EFT        | 10/5/2021<br>10/6/2021   | 10/5/2021                | 10/12/2021<br>10/12/2021 | 0.50<br>0.50         | 7.00<br>6.00         | 7.50<br>6.50       | 0.014%<br>0.015%    | 0.00<br>0.00                |
| PILOT TRAVEL CENTERS LLC                              | 20,321.45                  | EFT               | 10/6/2021                | 10/6/2021                | 10/12/2021               | 0.50                 | 6.00                 | 6.50               | 0.015%              | 0.00                        |
| PILOT TRAVEL CENTERS LLC<br>PILOT TRAVEL CENTERS LLC  | 20,316.02<br>20,313.32     | EFT<br>EFT        | 10/6/2021<br>10/6/2021   |                          | 10/12/2021<br>10/12/2021 | 0.50<br>0.50         | 6.00<br>6.00         | 6.50<br>6.50       | 0.015%<br>0.015%    | 0.00<br>0.00                |
| PILOT TRAVEL CENTERS LLC                              | 20,023.48                  | EFT               | 10/7/2021                | 10/7/2021                | 10/20/2021               | 0.50                 | 13.00                | 13.50              | 0.014%              | 0.00                        |
| PILOT TRAVEL CENTERS LLC<br>PILOT TRAVEL CENTERS LLC  | 20,050.19<br>20,039.51     | EFT<br>EFT        | 10/7/2021<br>10/7/2021   |                          | 10/20/2021<br>10/20/2021 | 0.50<br>0.50         | 13.00<br>13.00       | 13.50<br>13.50     | 0.014%<br>0.014%    | 0.00<br>0.00                |
| PILOT TRAVEL CENTERS LLC                              | 20,020.82                  | EFT               | 10/7/2021                | 10/7/2021                | 10/20/2021               | 0.50                 | 13.00                | 13.50              | 0.014%              | 0.00                        |
| PILOT TRAVEL CENTERS LLC<br>PILOT TRAVEL CENTERS LLC  | 20,016.49<br>20,027.17     | EFT<br>EFT        | 10/11/2021<br>10/11/2021 | 10/11/2021<br>10/11/2021 | 10/18/2021<br>10/18/2021 | 0.50<br>0.50         | 7.00<br>7.00         | 7.50<br>7.50       | 0.014%<br>0.014%    | 0.00<br>0.00                |
| PILOT TRAVEL CENTERS LLC                              | 20,016.49                  | EFT               | 10/11/2021               | 10/11/2021               | 10/18/2021               | 0.50                 | 7.00                 | 7.50               | 0.014%              | 0.00                        |
| PILOT TRAVEL CENTERS LLC PILOT TRAVEL CENTERS LLC     | 20,011.15<br>20,227.75     | EFT<br>EFT        | 10/11/2021<br>10/12/2021 | 10/11/2021               | 10/18/2021<br>10/19/2021 | 0.50<br>0.50         | 7.00<br>7.00         | 7.50<br>7.50       | 0.014%<br>0.015%    | 0.00<br>0.00                |
| PILOT TRAVEL CENTERS LLC                              | 20,217.73                  | EFT               | 10/12/2021               |                          | 10/19/2021               | 0.50                 | 7.00                 | 7.50               | 0.015%              | 0.00                        |

|  |                        |                   |                          |                          |                          |                      |                      |                    |                     | Dollar-          |
|--|------------------------|-------------------|--------------------------|--------------------------|--------------------------|----------------------|----------------------|--------------------|---------------------|------------------|
| Vendor Name  | Invoice Amount         | Payment<br>Method | Period Beginning         | Period End               | Payment<br>Date          | Service<br>Lead Time | Payment<br>Lead Time | Total Lead<br>Time | Weighting<br>Factor | Weighted<br>Days |
| PILOT TRAVEL CENTERS LLC                                   | 20,230.45              | EFT               | 10/12/2021               | 10/12/2021               | 10/19/2021               | 0.50                 | 7.00                 | 7.50               | 0.015%              | 0.00             |
| PILOT TRAVEL CENTERS LLC PILOT TRAVEL CENTERS LLC          | 20,211.59<br>21,165.54 | EFT<br>EFT        | 10/12/2021<br>11/10/2021 | 10/12/2021<br>11/10/2021 | 10/19/2021<br>11/16/2021 | 0.50<br>0.50         | 7.00<br>6.00         | 7.50<br>6.50       | 0.015%<br>0.015%    | 0.00<br>0.00     |
| PILOT TRAVEL CENTERS LLC                                   | 21,165.54              | EFT               | 11/10/2021               | 11/10/2021               | 11/16/2021               | 0.50                 | 6.00                 | 6.50               | 0.015%              | 0.00             |
| PILOT TRAVEL CENTERS LLC PILOT TRAVEL CENTERS LLC          | 20,884.17<br>20,884.17 | EFT<br>EFT        | 11/11/2021<br>11/11/2021 | 11/11/2021<br>11/11/2021 |                          | 0.50<br>0.50         | 5.00<br>5.00         | 5.50<br>5.50       | 0.015%<br>0.015%    | 0.00<br>0.00     |
| PILOT TRAVEL CENTERS LLC                                   | 20,928.23              | EFT               | 11/12/2021               | 11/14/2021               | 11/17/2021               | 1.50                 | 3.00                 | 4.50               | 0.015%              | 0.00             |
| PILOT TRAVEL CENTERS LLC PILOT TRAVEL CENTERS LLC          | 20,925.44<br>20,928.23 | EFT<br>EFT        | 11/12/2021<br>11/12/2021 | 11/14/2021<br>11/14/2021 |                          | 1.50<br>1.50         | 3.00<br>5.00         | 4.50<br>6.50       | 0.015%<br>0.015%    | 0.00<br>0.00     |
| PILOT TRAVEL CENTERS LLC PILOT TRAVEL CENTERS LLC          | 20,922.65              | EFT               | 11/12/2021               |                          | 11/19/2021               | 1.50                 | 5.00                 | 6.50               | 0.015%              | 0.00             |
| PILOT TRAVEL CENTERS LLC<br>PILOT TRAVEL CENTERS LLC       | 18,779.57              | EFT<br>EFT        | 12/6/2021<br>12/6/2021   | 12/6/2021<br>12/6/2021   | 12/13/2021               | 0.50                 | 7.00<br>7.00         | 7.50<br>7.50       | 0.014%<br>0.014%    | 0.00<br>0.00     |
| PILOT TRAVEL CENTERS LLC PILOT TRAVEL CENTERS LLC          | 18,779.57<br>19,162.07 | EFT               | 12/7/2021                |                          | 12/13/2021<br>12/14/2021 | 0.50<br>0.50         | 7.00                 | 7.50               | 0.014%              | 0.00             |
| PILOT TRAVEL CENTERS LLC                                   | 19,162.07              | EFT               | 12/7/2021                | 12/7/2021                | 12/14/2021               | 0.50                 | 7.00                 | 7.50               | 0.014%              | 0.00             |
| PILOT TRAVEL CENTERS LLC PILOT TRAVEL CENTERS LLC          | 18,685.80<br>18,683.30 | EFT<br>EFT        | 11/30/2021<br>11/30/2021 | 11/30/2021<br>11/30/2021 | 12/9/2021<br>12/9/2021   | 0.50<br>0.50         | 9.00<br>9.00         | 9.50<br>9.50       | 0.013%<br>0.013%    | 0.00<br>0.00     |
| PILOT TRAVEL CENTERS LLC                                   | 19,297.07              | EFT               | 12/8/2021                | 12/8/2021                | 12/15/2021               | 0.50                 | 7.00                 | 7.50               | 0.014%              | 0.00             |
| PILOT TRAVEL CENTERS LLC PILOT TRAVEL CENTERS LLC          | 19,297.07<br>18,415.82 | EFT<br>EFT        | 12/8/2021<br>12/1/2021   | 12/8/2021<br>12/1/2021   | 12/15/2021<br>12/10/2021 | 0.50<br>0.50         | 7.00<br>9.00         | 7.50<br>9.50       | 0.014%<br>0.013%    | 0.00<br>0.00     |
| PILOT TRAVEL CENTERS LLC                                   | 18,415.82              | EFT               | 12/1/2021                | 12/1/2021                | 12/10/2021               | 0.50                 | 9.00                 | 9.50               | 0.013%              | 0.00             |
| PILOT TRAVEL CENTERS LLC PILOT TRAVEL CENTERS LLC          | 19,154.57<br>19,154.57 | EFT<br>EFT        | 12/9/2021<br>12/9/2021   | 12/9/2021<br>12/9/2021   | 12/15/2021<br>12/15/2021 | 0.50<br>0.50         | 6.00<br>6.00         | 6.50<br>6.50       | 0.014%<br>0.014%    | 0.00<br>0.00     |
| PILOT TRAVEL CENTERS LLC PILOT TRAVEL CENTERS LLC          | 18,723.32              | EFT               | 12/2/2021                | 12/9/2021                | 12/10/2021               | 0.50                 | 8.00                 | 8.50               | 0.014%              | 0.00             |
| PILOT TRAVEL CENTERS LLC                                   | 18,723.32              | EFT               | 12/2/2021                | 12/2/2021                | 12/10/2021               | 0.50                 | 8.00                 | 8.50               | 0.014%              | 0.00             |
| PILOT TRAVEL CENTERS LLC PILOT TRAVEL CENTERS LLC          | 18,637.07<br>18,637.07 | EFT<br>EFT        | 12/10/2021<br>12/10/2021 | 12/10/2021<br>12/10/2021 | 12/15/2021               | 0.50<br>0.50         | 5.00<br>20.00        | 5.50<br>20.50      | 0.013%<br>0.013%    | 0.00<br>0.00     |
| PILOT TRAVEL CENTERS LLC                                   | 20,869.17              | EFT               | 11/17/2021               | 11/17/2021               | 12/10/2021               | 0.50                 | 23.00                | 23.50              | 0.015%              | 0.00             |
| PILOT TRAVEL CENTERS LLC PILOT TRAVEL CENTERS LLC          | 20,869.17<br>20,758.58 | EFT<br>EFT        | 11/17/2021<br>11/16/2021 | 11/17/2021<br>11/16/2021 | 12/10/2021<br>12/10/2021 | 0.50<br>0.50         | 23.00<br>24.00       | 23.50<br>24.50     | 0.015%<br>0.015%    | 0.00<br>0.00     |
| PILOT TRAVEL CENTERS LLC                                   | 20,761.35              | EFT               | 11/16/2021               | 11/16/2021               | 12/10/2021               | 0.50                 | 24.00                | 24.50              | 0.015%              | 0.00             |
| PILOT TRAVEL CENTERS LLC<br>PILOT TRAVEL CENTERS LLC       | 17,838.32<br>17,838.32 | EFT<br>EFT        | 12/15/2021<br>12/15/2021 | 12/15/2021<br>12/15/2021 | 12/22/2021<br>12/22/2021 | 0.50<br>0.50         | 7.00<br>7.00         | 7.50<br>7.50       | 0.013%<br>0.013%    | 0.00<br>0.00     |
| PILOT TRAVEL CENTERS LLC                                   | 17,924.57              | EFT               | 12/16/2021               | 12/16/2021               | 12/22/2021               | 0.50                 | 6.00                 | 6.50               | 0.013%              | 0.00             |
| PILOT TRAVEL CENTERS LLC                                   | 17,924.57              | EFT               | 12/16/2021               | 12/16/2021               | 12/22/2021               | 0.50                 | 6.00                 | 6.50               | 0.013%              | 0.00             |
| PILOT TRAVEL CENTERS LLC PILOT TRAVEL CENTERS LLC          | 18,138.32<br>18,138.32 | EFT<br>EFT        | 12/17/2021<br>12/17/2021 | 12/17/2021<br>12/17/2021 | 12/22/2021<br>12/22/2021 | 0.50<br>0.50         | 5.00<br>5.00         | 5.50<br>5.50       | 0.013%<br>0.013%    | 0.00<br>0.00     |
| PILOT TRAVEL CENTERS LLC                                   | 17,714.57              | EFT               | 12/20/2021               | 12/20/2021               | 12/29/2021               | 0.50                 | 9.00                 | 9.50               | 0.013%              | 0.00             |
| PILOT TRAVEL CENTERS LLC PILOT TRAVEL CENTERS LLC          | 17,714.57<br>17,433.32 | EFT<br>EFT        | 12/20/2021<br>12/21/2021 | 12/20/2021<br>12/21/2021 | 12/29/2021<br>12/29/2021 | 0.50<br>0.50         | 9.00<br>8.00         | 9.50<br>8.50       | 0.013%<br>0.013%    | 0.00<br>0.00     |
| PILOT TRAVEL CENTERS LLC                                   | 17,433.32              | EFT               | 12/21/2021               | 12/21/2021               | 12/29/2021               | 0.50                 | 8.00                 | 8.50               | 0.013%              | 0.00             |
| PILOT TRAVEL CENTERS LLC                                   | 17,962.07              | EFT<br>EFT        | 12/22/2021<br>12/22/2021 | 12/22/2021<br>12/22/2021 | 12/29/2021               | 0.50<br>0.50         | 7.00<br>7.00         | 7.50<br>7.50       | 0.013%              | 0.00<br>0.00     |
| PILOT TRAVEL CENTERS LLC PILOT TRAVEL CENTERS LLC          | 17,962.07<br>18,082.07 | EFT               | 12/23/2021               | 12/23/2021               | 12/29/2021<br>12/29/2021 | 0.50                 | 6.00                 | 6.50               | 0.013%<br>0.013%    | 0.00             |
| PILOT TRAVEL CENTERS LLC                                   | 18,082.07              | EFT               | 12/23/2021               | 12/23/2021               | 12/29/2021               | 0.50                 | 6.00                 | 6.50               | 0.013%              | 0.00             |
| PILOT TRAVEL CENTERS LLC PILOT TRAVEL CENTERS LLC          | 18,224.57<br>18,224.57 | EFT<br>EFT        | 12/27/2021<br>12/27/2021 | 12/27/2021<br>12/27/2021 | 1/3/2022<br>1/3/2022     | 0.50<br>0.50         | 7.00<br>7.00         | 7.50<br>7.50       | 0.013%<br>0.013%    | 0.00<br>0.00     |
| PILOT TRAVEL CENTERS LLC                                   | 18,374.57              | EFT               | 12/28/2021               | 12/28/2021               | 1/4/2022                 | 0.50                 | 7.00                 | 7.50               | 0.013%              | 0.00             |
| PILOT TRAVEL CENTERS LLC PILOT TRAVEL CENTERS LLC          | 18,374.57<br>18,374.57 | EFT<br>EFT        | 12/28/2021<br>12/28/2021 | 12/28/2021<br>12/28/2021 | 1/6/2022<br>1/4/2022     | 0.50<br>0.50         | 9.00<br>7.00         | 9.50<br>7.50       | 0.013%<br>0.013%    | 0.00<br>0.00     |
| PILOT TRAVEL CENTERS LLC                                   | 18,374.57              | EFT               | 12/28/2021               | 12/28/2021               | 1/4/2022                 | 0.50                 | 7.00                 | 7.50               | 0.013%              | 0.00             |
| PILOT TRAVEL CENTERS LLC                                   | 18,475.82              | EFT<br>EFT        | 12/29/2021               | 12/29/2021<br>12/29/2021 | 1/10/2022                | 0.50                 | 12.00<br>12.00       | 12.50<br>12.50     | 0.013%              | 0.00<br>0.00     |
| PILOT TRAVEL CENTERS LLC PILOT TRAVEL CENTERS LLC          | 18,475.82<br>18,475.82 | EFT               | 12/29/2021<br>12/29/2021 | 12/29/2021               | 1/10/2022<br>1/10/2022   | 0.50<br>0.50         | 12.00                | 12.50              | 0.013%<br>0.013%    | 0.00             |
| PILOT TRAVEL CENTERS LLC                                   | 18,475.82              | EFT               | 12/29/2021               | 12/29/2021               | 1/10/2022                | 0.50                 | 12.00                | 12.50              | 0.013%              | 0.00             |
| PILOT TRAVEL CENTERS LLC PILOT TRAVEL CENTERS LLC          | 18,494.57<br>18,494.57 | EFT<br>EFT        | 12/30/2021<br>12/30/2021 | 12/30/2021<br>12/30/2021 | 1/10/2022<br>1/10/2022   | 0.50<br>0.50         | 11.00<br>11.00       | 11.50<br>11.50     | 0.013%<br>0.013%    | 0.00<br>0.00     |
| PILOT TRAVEL CENTERS LLC                                   | 18,494.57              | EFT               | 12/30/2021               | 12/30/2021               | 1/10/2022                | 0.50                 | 11.00                | 11.50              | 0.013%              | 0.00             |
| PILOT TRAVEL CENTERS LLC PILOT TRAVEL CENTERS LLC          | 18,494.57<br>18,269.57 | EFT<br>EFT        | 12/30/2021<br>1/3/2022   | 12/30/2021<br>1/3/2022   | 1/10/2022<br>1/11/2022   | 0.50<br>0.50         | 11.00<br>8.00        | 11.50<br>8.50      | 0.013%<br>0.013%    | 0.00<br>0.00     |
| PILOT TRAVEL CENTERS LLC                                   | 18,269.57              | EFT               | 1/3/2022                 | 1/3/2022                 | 1/11/2022                | 0.50                 | 8.00                 | 8.50               | 0.013%              | 0.00             |
| PILOT TRAVEL CENTERS LLC PILOT TRAVEL CENTERS LLC          | 18,269.57<br>18.269.57 | EFT<br>EFT        | 1/3/2022<br>1/3/2022     | 1/3/2022<br>1/3/2022     | 1/11/2022<br>1/11/2022   | 0.50<br>0.50         | 8.00<br>8.00         | 8.50<br>8.50       | 0.013%<br>0.013%    | 0.00<br>0.00     |
| PILOT TRAVEL CENTERS LLC                                   | 18,337.07              | EFT               | 1/4/2022                 | 1/4/2022                 | 1/12/2022                | 0.50                 | 8.00                 | 8.50               | 0.013%              | 0.00             |
| PILOT TRAVEL CENTERS LLC<br>PILOT TRAVEL CENTERS LLC       | 18,332.19<br>18,341.96 | EFT<br>EFT        | 1/4/2022<br>1/4/2022     | 1/4/2022<br>1/4/2022     | 1/12/2022<br>1/12/2022   | 0.50<br>0.50         | 8.00<br>8.00         | 8.50<br>8.50       | 0.013%<br>0.013%    | 0.00<br>0.00     |
| PILOT TRAVEL CENTERS LLC                                   | 18,344.41              | EFT               | 1/4/2022                 | 1/4/2022                 | 1/12/2022                | 0.50                 | 8.00                 | 8.50               | 0.013%              | 0.00             |
| PILOT TRAVEL CENTERS LLC                                   | 18,734.57              | EFT               | 1/5/2022                 | 1/5/2022                 | 1/12/2022                | 0.50                 | 7.00                 | 7.50               | 0.014%              | 0.00             |
| PILOT TRAVEL CENTERS LLC PILOT TRAVEL CENTERS LLC          | 18,734.57<br>18,734.57 | EFT<br>EFT        | 1/5/2022<br>1/5/2022     | 1/5/2022<br>1/5/2022     | 1/12/2022<br>1/12/2022   | 0.50<br>0.50         | 7.00<br>7.00         | 7.50<br>7.50       | 0.014%<br>0.014%    | 0.00<br>0.00     |
| PILOT TRAVEL CENTERS LLC                                   | 18,734.57              | EFT               | 1/5/2022                 | 1/5/2022                 | 1/12/2022                | 0.50                 | 7.00                 | 7.50               | 0.014%              | 0.00             |
| PILOT TRAVEL CENTERS LLC PILOT TRAVEL CENTERS LLC          | 18,938.30<br>18,943.34 | EFT<br>EFT        | 1/6/2022<br>1/6/2022     | 1/6/2022<br>1/6/2022     | 1/12/2022<br>1/12/2022   | 0.50<br>0.50         | 6.00<br>6.00         | 6.50<br>6.50       | 0.014%<br>0.014%    | 0.00<br>0.00     |
| PILOT TRAVEL CENTERS LLC                                   | 18,943.34              | EFT               | 1/6/2022                 | 1/6/2022                 | 1/12/2022                | 0.50                 | 6.00                 | 6.50               | 0.014%              | 0.00             |
| PILOT TRAVEL CENTERS LLC<br>PILOT TRAVEL CENTERS LLC       | 18,940.82<br>19,387.07 | EFT<br>EFT        | 1/6/2022<br>1/12/2022    | 1/6/2022<br>1/12/2022    | 1/12/2022<br>1/19/2022   | 0.50<br>0.50         | 6.00<br>7.00         | 6.50<br>7.50       | 0.014%<br>0.014%    | 0.00<br>0.00     |
| PILOT TRAVEL CENTERS LLC                                   | 19,387.07              | EFT               | 1/12/2022                | 1/12/2022                | 1/19/2022                | 0.50                 | 7.00                 | 7.50               | 0.014%              | 0.00             |
| PILOT TRAVEL CENTERS LLC PILOT TRAVEL CENTERS LLC          | 19,387.07              | EFT<br>EFT        | 1/12/2022<br>1/12/2022   | 1/12/2022<br>1/12/2022   | 1/19/2022<br>1/19/2022   | 0.50<br>0.50         | 7.00<br>7.00         | 7.50<br>7.50       | 0.014%<br>0.014%    | 0.00<br>0.00     |
| PILOT TRAVEL CENTERS LLC                                   | 19,387.07<br>19,005.89 | EFT               | 1/10/2022                | 1/10/2022                | 1/17/2022                | 0.50                 | 7.00                 | 7.50               | 0.014%              | 0.00             |
| PILOT TRAVEL CENTERS LLC                                   | 19,000.82              | EFT               | 1/10/2022                | 1/10/2022                | 1/17/2022                | 0.50                 | 7.00                 | 7.50               | 0.014%              | 0.00             |
| PILOT TRAVEL CENTERS LLC<br>PILOT TRAVEL CENTERS LLC       | 19,444.48<br>19,441.89 | EFT<br>EFT        | 1/13/2022<br>1/13/2022   | 1/13/2022<br>1/13/2022   | 1/19/2022<br>1/19/2022   | 0.50<br>0.50         | 6.00<br>6.00         | 6.50<br>6.50       | 0.014%<br>0.014%    | 0.00<br>0.00     |
| PILOT TRAVEL CENTERS LLC                                   | 18,848.31              | EFT               | 1/11/2022                | 1/11/2022                | 1/18/2022                | 0.50                 | 7.00                 | 7.50               | 0.014%              | 0.00             |
| PILOT TRAVEL CENTERS LLC PILOT TRAVEL CENTERS LLC          | 18,855.85<br>18,845.80 | EFT<br>EFT        | 1/11/2022<br>1/11/2022   | 1/11/2022<br>1/11/2022   | 1/18/2022<br>1/18/2022   | 0.50<br>0.50         | 7.00<br>7.00         | 7.50<br>7.50       | 0.014%<br>0.014%    | 0.00<br>0.00     |
| PILOT TRAVEL CENTERS LLC                                   | 18,853.33              | EFT               | 1/11/2022                | 1/11/2022                | 1/18/2022                | 0.50                 | 7.00                 | 7.50               | 0.014%              | 0.00             |
| PILOT TRAVEL CENTERS LLC<br>SARATOGA RACK MARKETING LLC    | 28,174.82<br>21,273.32 | EFT<br>EFT        | 8/15/2022<br>2/1/2022    | 8/15/2022<br>2/1/2022    | 9/19/2022<br>2/23/2022   | 0.50<br>0.50         | 35.00<br>22.00       | 35.50<br>22.50     | 0.020%<br>0.015%    | 0.01<br>0.00     |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 21,867.47              | EFT               | 2/3/2022                 | 2/3/2022                 | 2/23/2022                | 0.50                 | 20.00                | 20.50              | 0.015%              | 0.00             |
| SARATOGA RACK MARKETING LLC                                | 21,852.90              | EFT               | 2/3/2022                 | 2/3/2022                 | 2/23/2022                | 0.50                 | 20.00                | 20.50              | 0.016%              | 0.00             |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 21,603.58<br>21,281.83 | EFT<br>EFT        | 2/2/2022<br>2/1/2022     | 2/2/2022<br>2/1/2022     | 2/23/2022<br>2/23/2022   | 0.50<br>0.50         | 21.00<br>22.00       | 21.50<br>22.50     | 0.016%<br>0.015%    | 0.00<br>0.00     |
| SARATOGA RACK MARKETING LLC                                | 21,276.15              | EFT               | 2/1/2022                 | 2/1/2022                 | 2/23/2022                | 0.50                 | 22.00                | 22.50              | 0.015%              | 0.00             |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 21,290.35<br>21,606.47 | EFT<br>EFT        | 2/1/2022<br>2/2/2022     | 2/1/2022<br>2/2/2022     | 2/23/2022<br>2/23/2022   | 0.50<br>0.50         | 22.00<br>21.00       | 22.50<br>21.50     | 0.015%<br>0.016%    | 0.00<br>0.00     |
| SARATOGA RACK MARKETING LLC                                | 21,609.35              | EFT               | 2/2/2022                 | 2/21/2022                | 2/23/2022                | 10.00                | 2.00                 | 12.00              | 0.016%              | 0.00             |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 22,308.32<br>22,305.35 | EFT<br>EFT        | 2/8/2022<br>2/8/2022     | 2/8/2022<br>2/8/2022     | 2/23/2022<br>2/23/2022   | 0.50<br>0.50         | 15.00<br>15.00       | 15.50<br>15.50     | 0.016%<br>0.016%    | 0.00<br>0.00     |
| SARATOGA RACK MARKETING LLC                                | 22,332.13              | EFT               | 2/8/2022                 | 2/8/2022                 | 2/23/2022                | 0.50                 | 15.00                | 15.50              | 0.016%              | 0.00             |
| SARATOGA RACK MARKETING LLC                                | 21,868.32              | EFT               | 2/9/2022                 | 2/9/2022                 | 2/23/2022                | 0.50                 | 14.00                | 14.50              | 0.016%              | 0.00             |

|  |                        |                   |                        |                        |                        |                      |                      |                    |                     | Dollar-          |
|--|------------------------|-------------------|------------------------|------------------------|------------------------|----------------------|----------------------|--------------------|---------------------|------------------|
| Vendor Name  | Invoice Amount         | Payment<br>Method | Period Beginning       | Period End             | Payment<br>Date        | Service<br>Lead Time | Payment<br>Lead Time | Total Lead<br>Time | Weighting<br>Factor | Weighted<br>Days |
| SARATOGA RACK MARKETING LLC                                | 21,879.98              | EFT               | 2/9/2022               | 2/9/2022               | 2/23/2022              | 0.50                 | 14.00                | 14.50              | 0.016%              | 0.00             |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 22,078.97<br>22,064.28 | EFT<br>EFT        | 2/10/2022<br>2/10/2022 | 2/10/2022<br>2/10/2022 | 2/23/2022<br>2/23/2022 | 0.50<br>0.50         | 13.00<br>13.00       | 13.50<br>13.50     | 0.016%<br>0.016%    | 0.00<br>0.00     |
| SARATOGA RACK MARKETING LLC                                | 22,070.15              | EFT               | 2/10/2022              | 2/10/2022              | 2/23/2022              | 0.50                 | 13.00                | 13.50              | 0.016%              | 0.00             |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 22,055.45<br>22,570.82 | EFT<br>EFT        | 2/10/2022<br>2/17/2022 | 2/10/2022<br>2/17/2022 | 2/23/2022<br>2/28/2022 | 0.50<br>0.50         | 13.00<br>11.00       | 13.50<br>11.50     | 0.016%<br>0.016%    | 0.00<br>0.00     |
| SARATOGA RACK MARKETING LLC                                | 22,570.82              | EFT               | 2/17/2022              | 2/17/2022              | 2/28/2022              | 0.50                 | 11.00                | 11.50              | 0.016%              | 0.00             |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 22,594.91<br>23,640.33 | EFT<br>EFT        | 2/17/2022<br>2/28/2022 | 2/17/2022<br>2/28/2022 | 2/28/2022<br>3/11/2022 | 0.50<br>0.50         | 11.00<br>11.00       | 11.50<br>11.50     | 0.016%<br>0.017%    | 0.00<br>0.00     |
| SARATOGA RACK MARKETING LLC                                | 23,956.09              | EFT               | 2/25/2022              | 2/25/2022              | 3/11/2022              | 0.50                 | 14.00                | 14.50              | 0.017%              | 0.00             |
| SARATOGA RACK MARKETING LLC                                | 25,564.32              | EFT<br>EFT        | 3/2/2022<br>3/2/2022   | 3/2/2022<br>3/2/2022   | 3/14/2022              | 0.50                 | 12.00                | 12.50<br>12.50     | 0.018%              | 0.00<br>0.00     |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 25,547.29<br>25,537.07 | EFT               | 3/2/2022               | 3/2/2022               | 3/14/2022<br>3/14/2022 | 0.50<br>0.50         | 12.00<br>12.00       | 12.50              | 0.018%<br>0.018%    | 0.00             |
| SARATOGA RACK MARKETING LLC                                | 24,467.82              | EFT               | 3/1/2022               | 3/1/2022               | 3/14/2022              | 0.50                 | 13.00                | 13.50              | 0.018%              | 0.00             |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 23,649.78<br>23,624.57 | EFT<br>EFT        | 2/28/2022<br>2/28/2022 | 2/28/2022<br>2/28/2022 | 3/14/2022<br>3/14/2022 | 0.50<br>0.50         | 14.00<br>14.00       | 14.50<br>14.50     | 0.017%<br>0.017%    | 0.00<br>0.00     |
| SARATOGA RACK MARKETING LLC                                | 23,649.76              | EFT               | 2/28/2022              | 2/28/2022              | 3/24/2022              | 0.50                 | 24.00                | 24.50              | 0.017%              | 0.00             |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 24,484.15<br>23,649.78 | EFT<br>EFT        | 3/1/2022<br>2/28/2022  | 3/1/2022<br>2/28/2022  | 3/14/2022<br>3/24/2022 | 0.50<br>0.50         | 13.00<br>24.00       | 13.50<br>24.50     | 0.018%<br>0.017%    | 0.00<br>0.00     |
| SARATOGA RACK MARKETING LLC                                | 23,044.35              | EFT               | 2/22/2022              | 2/22/2022              | 3/16/2022              | 0.50                 | 22.00                | 22.50              | 0.017%              | 0.00             |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 23,041.29<br>23,032.07 | EFT<br>EFT        | 2/22/2022<br>2/22/2022 | 2/22/2022<br>2/22/2022 | 3/16/2022<br>3/16/2022 | 0.50<br>0.50         | 22.00<br>22.00       | 22.50<br>22.50     | 0.017%<br>0.017%    | 0.00<br>0.00     |
| SARATOGA RACK MARKETING LLC                                | 23,035.13              | EFT               | 2/22/2022              | 2/22/2022              | 3/16/2022              | 0.50                 | 22.00                | 22.50              | 0.017%              | 0.00             |
| SARATOGA RACK MARKETING LLC                                | 23,358.25              | EFT               | 2/23/2022              | 2/23/2022              | 3/16/2022              | 0.50                 | 21.00                | 21.50              | 0.017%              | 0.00             |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 23,348.91<br>23,342.67 | EFT<br>EFT        | 2/23/2022<br>2/23/2022 | 2/23/2022<br>2/23/2022 | 3/16/2022<br>3/16/2022 | 0.50<br>0.50         | 21.00<br>21.00       | 21.50<br>21.50     | 0.017%<br>0.017%    | 0.00<br>0.00     |
| SARATOGA RACK MARKETING LLC                                | 23,345.80              | EFT               | 2/23/2022              | 2/23/2022              | 3/17/2022              | 0.50                 | 22.00                | 22.50              | 0.017%              | 0.00             |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 23,402.68<br>23,399.57 | EFT<br>EFT        | 2/24/2022<br>2/24/2022 | 2/24/2022<br>2/24/2022 | 3/17/2022<br>3/17/2022 | 0.50<br>0.50         | 21.00<br>21.00       | 21.50<br>21.50     | 0.017%<br>0.017%    | 0.00<br>0.00     |
| SARATOGA RACK MARKETING LLC                                | 23,412.05              | EFT               | 2/24/2022              | 2/24/2022              | 3/16/2022              | 0.50                 | 20.00                | 20.50              | 0.017%              | 0.00             |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 23,956.09<br>28,154.57 | EFT<br>EFT        | 2/25/2022<br>3/17/2022 | 2/25/2022<br>3/17/2022 | 3/16/2022<br>3/28/2022 | 0.50<br>0.50         | 19.00<br>11.00       | 19.50<br>11.50     | 0.017%<br>0.020%    | 0.00<br>0.00     |
| SARATOGA RACK MARKETING LLC                                | 27,652.07              | EFT               | 3/16/2022              | 3/16/2022              | 3/28/2022              | 0.50                 | 12.00                | 12.50              | 0.020%              | 0.00             |
| SARATOGA RACK MARKETING LLC                                | 27,652.07              | EFT               | 3/16/2022              | 3/16/2022              | 3/28/2022              | 0.50                 | 12.00                | 12.50              | 0.020%              | 0.00             |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 27,652.07<br>28,158.32 | EFT<br>EFT        | 3/16/2022<br>3/17/2022 | 3/16/2022<br>3/17/2022 | 3/28/2022<br>3/28/2022 | 0.50<br>0.50         | 12.00<br>11.00       | 12.50<br>11.50     | 0.020%<br>0.020%    | 0.00<br>0.00     |
| SARATOGA RACK MARKETING LLC                                | 27,652.07              | EFT               | 3/16/2022              | 3/16/2022              | 3/28/2022              | 0.50                 | 12.00                | 12.50              | 0.020%              | 0.00             |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 28,188.37<br>28,162.07 | EFT<br>EFT        | 3/17/2022<br>3/17/2022 | 3/17/2022<br>3/17/2022 | 3/28/2022<br>3/28/2022 | 0.50<br>0.50         | 11.00<br>11.00       | 11.50<br>11.50     | 0.020%<br>0.020%    | 0.00<br>0.00     |
| SARATOGA RACK MARKETING LLC                                | 28,417.30              | EFT               | 4/6/2022               | 4/6/2022               | 4/13/2022              | 0.50                 | 7.00                 | 7.50               | 0.021%              | 0.00             |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 28,390.79<br>28,402.15 | EFT<br>EFT        | 4/6/2022<br>4/6/2022   | 4/6/2022<br>4/6/2022   | 4/13/2022<br>4/13/2022 | 0.50<br>0.50         | 7.00<br>7.00         | 7.50<br>7.50       | 0.020%<br>0.020%    | 0.00<br>0.00     |
| SARATOGA RACK MARKETING LLC                                | 28,398.35              | EFT               | 4/6/2022               | 4/6/2022               | 4/13/2022              | 0.50                 | 7.00                 | 7.50               | 0.020%              | 0.00             |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 29,006.17<br>29,010.03 | EFT<br>EFT        | 4/5/2022<br>4/5/2022   | 4/5/2022<br>4/5/2022   | 4/21/2022<br>4/21/2022 | 0.50<br>0.50         | 16.00                | 16.50              | 0.021%              | 0.00<br>0.00     |
| SARATOGA RACK MARKETING LLC                                | 28,998.43              | EFT               | 4/5/2022               | 4/5/2022               | 4/21/2022              | 0.50                 | 16.00<br>16.00       | 16.50<br>16.50     | 0.021%<br>0.021%    | 0.00             |
| SARATOGA RACK MARKETING LLC                                | 28,998.43              | EFT               | 4/5/2022               | 4/5/2022               | 4/21/2022              | 0.50                 | 16.00                | 16.50              | 0.021%              | 0.00             |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 27,779.52<br>27,786.14 | EFT<br>EFT        | 4/7/2022<br>4/7/2022   | 4/7/2022<br>4/7/2022   | 4/21/2022<br>4/21/2022 | 0.50<br>0.50         | 14.00<br>14.00       | 14.50<br>14.50     | 0.020%<br>0.020%    | 0.00<br>0.00     |
| SARATOGA RACK MARKETING LLC                                | 27,779.52              | EFT               | 4/7/2022               | 4/7/2022               | 4/21/2022              | 0.50                 | 14.00                | 14.50              | 0.020%              | 0.00             |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 27,783.23<br>28,225.82 | EFT<br>EFT        | 4/7/2022<br>4/13/2022  | 4/7/2022<br>4/13/2022  | 4/21/2022<br>4/22/2022 | 0.50<br>0.50         | 14.00<br>9.00        | 14.50<br>9.50      | 0.020%<br>0.020%    | 0.00<br>0.00     |
| SARATOGA RACK MARKETING LLC                                | 28,225.82              | EFT               | 4/13/2022              | 4/13/2022              | 4/22/2022              | 0.50                 | 9.00                 | 9.50               | 0.020%              | 0.00             |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 28,263.45<br>29,871.85 | EFT<br>EFT        | 4/13/2022<br>4/14/2022 | 4/13/2022<br>4/14/2022 | 4/25/2022<br>4/25/2022 | 0.50<br>0.50         | 12.00<br>11.00       | 12.50<br>11.50     | 0.020%<br>0.022%    | 0.00<br>0.00     |
| SARATOGA RACK MARKETING LLC                                | 29,871.85              | EFT               | 4/14/2022              | 4/14/2022              | 4/25/2022              | 0.50                 | 11.00                | 11.50              | 0.022%              | 0.00             |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 29,875.82<br>29,875.82 | EFT<br>EFT        | 4/14/2022<br>4/14/2022 | 4/14/2022<br>4/14/2022 | 4/25/2022<br>4/25/2022 | 0.50<br>0.50         | 11.00<br>11.00       | 11.50<br>11.50     | 0.022%<br>0.022%    | 0.00<br>0.00     |
| SARATOGA RACK MARKETING LLC                                | 29,410.82              | EFT               | 4/20/2022              | 4/20/2022              | 4/27/2022              | 0.50                 | 7.00                 | 7.50               | 0.022 %             | 0.00             |
| SARATOGA RACK MARKETING LLC                                | 29,410.82              | EFT               | 4/20/2022              | 4/20/2022              | 4/27/2022              | 0.50                 | 7.00                 | 7.50               | 0.021%              | 0.00             |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 29,426.50<br>29,410.82 | EFT<br>EFT        | 4/20/2022<br>4/20/2022 | 4/20/2022<br>4/20/2022 | 4/27/2022<br>4/27/2022 | 0.50<br>0.50         | 7.00<br>7.00         | 7.50<br>7.50       | 0.021%<br>0.021%    | 0.00<br>0.00     |
| SARATOGA RACK MARKETING LLC                                | 28,860.05              | EFT               | 3/31/2022              | 3/31/2022              | 4/28/2022              | 0.50                 | 28.00                | 28.50              | 0.021%              | 0.01             |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 28,852.45<br>28,413.35 | EFT<br>EFT        | 3/31/2022<br>3/30/2022 | 3/31/2022<br>3/30/2022 | 4/28/2022<br>4/28/2022 | 0.50<br>0.50         | 28.00<br>29.00       | 28.50<br>29.50     | 0.021%<br>0.021%    | 0.01<br>0.01     |
| SARATOGA RACK MARKETING LLC                                | 28,420.94              | EFT               | 3/30/2022              | 3/30/2022              | 4/28/2022              | 0.50                 | 29.00                | 29.50              | 0.021%              | 0.01             |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 28,436.09<br>28,432.31 | EFT<br>EFT        | 3/30/2022<br>3/30/2022 | 3/30/2022<br>3/30/2022 | 4/28/2022<br>4/28/2022 | 0.50<br>0.50         | 29.00<br>29.00       | 29.50<br>29.50     | 0.021%<br>0.021%    | 0.01<br>0.01     |
| SARATOGA RACK MARKETING LLC                                | 28,860.15              | EFT               | 3/31/2022              | 3/31/2022              | 4/28/2022              | 0.50                 | 28.00                | 28.50              | 0.021%              | 0.01             |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 29,613.72<br>29,645.29 | EFT<br>EFT        | 4/21/2022<br>4/21/2022 | 4/21/2022<br>4/21/2022 | 5/9/2022<br>5/9/2022   | 0.50<br>0.50         | 18.00<br>18.00       | 18.50<br>18.50     | 0.021%<br>0.021%    | 0.00<br>0.00     |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 29,621.61              | EFT               | 4/21/2022              | 4/21/2022              | 5/9/2022               | 0.50                 | 18.00                | 18.50              | 0.021%              | 0.00             |
| SARATOGA RACK MARKETING LLC                                | 30,216.80              | EFT               | 4/26/2022              | 4/26/2022              | 5/9/2022               | 0.50                 | 13.00                | 13.50              | 0.022%              | 0.00             |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 29,629.51<br>30,236.93 | EFT<br>EFT        | 4/21/2022<br>4/26/2022 | 4/21/2022<br>4/26/2022 | 5/9/2022<br>5/9/2022   | 0.50<br>0.50         | 18.00<br>13.00       | 18.50<br>13.50     | 0.021%<br>0.022%    | 0.00<br>0.00     |
| SARATOGA RACK MARKETING LLC                                | 30,232.91              | EFT               | 4/26/2022              | 4/26/2022              | 5/9/2022               | 0.50                 | 13.00                | 13.50              | 0.022%              | 0.00             |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 32,975.26<br>32,970.86 | EFT<br>EFT        | 5/3/2022<br>5/3/2022   | 5/3/2022<br>5/3/2022   | 5/12/2022<br>5/12/2022 | 0.50<br>0.50         | 9.00<br>9.00         | 9.50<br>9.50       | 0.024%<br>0.024%    | 0.00<br>0.00     |
| SARATOGA RACK MARKETING LLC                                | 32,187.44              | EFT               | 5/4/2022               | 5/4/2022               | 5/12/2022              | 0.50                 | 8.00                 | 8.50               | 0.023%              | 0.00             |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 32,191.73<br>32,200.32 | EFT<br>EFT        | 5/4/2022<br>5/4/2022   | 5/4/2022<br>5/4/2022   | 5/12/2022<br>5/12/2022 | 0.50<br>0.50         | 8.00<br>8.00         | 8.50<br>8.50       | 0.023%<br>0.023%    | 0.00<br>0.00     |
| SARATOGA RACK MARKETING LLC                                | 32,200.32              | EFT               | 5/4/2022               | 5/4/2022               | 5/12/2022              | 0.50                 | 8.00                 | 8.50               | 0.023%              | 0.00             |
| SARATOGA RACK MARKETING LLC                                | 32,952.11              | EFT               | 5/5/2022               | 5/5/2022               | 5/12/2022              | 0.50                 | 7.00                 | 7.50               | 0.024%              | 0.00             |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 32,960.89<br>30,730.82 | EFT<br>EFT        | 5/5/2022<br>5/10/2022  | 5/5/2022<br>5/10/2022  | 5/12/2022<br>5/19/2022 | 0.50<br>0.50         | 7.00<br>9.00         | 7.50<br>9.50       | 0.024%<br>0.022%    | 0.00<br>0.00     |
| SARATOGA RACK MARKETING LLC                                | 30,739.02              | EFT               | 5/10/2022              | 5/10/2022              | 5/19/2022              | 0.50                 | 9.00                 | 9.50               | 0.022%              | 0.00             |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 31,360.82<br>31,419.26 | EFT<br>EFT        | 5/11/2022<br>5/12/2022 | 5/11/2022<br>5/12/2022 | 5/19/2022<br>5/19/2022 | 0.50<br>0.50         | 8.00<br>7.00         | 8.50<br>7.50       | 0.023%<br>0.023%    | 0.00<br>0.00     |
| SARATOGA RACK MARKETING LLC                                | 31,377.54              | EFT               | 5/11/2022              | 5/11/2022              | 5/19/2022              | 0.50                 | 8.00                 | 8.50               | 0.023%              | 0.00             |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 30,802.42<br>30,798.32 | EFT<br>EFT        | 4/19/2022<br>4/19/2022 | 4/19/2022<br>4/19/2022 | 6/9/2022<br>6/9/2022   | 0.50<br>0.50         | 51.00<br>51.00       | 51.50<br>51.50     | 0.022%<br>0.022%    | 0.01<br>0.01     |
| SARATOGA RACK MARKETING LLC                                | 30,798.32              | EFT               | 4/19/2022              | 4/19/2022              | 6/9/2022               | 0.50                 | 51.00                | 51.50              | 0.022%              | 0.01             |
| SARATOGA RACK MARKETING LLC                                | 30,798.32              | EFT               | 4/19/2022              | 4/19/2022              | 6/9/2022               | 0.50                 | 51.00                | 51.50              | 0.022%              | 0.01             |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 35,271.18<br>36,027.12 | EFT<br>EFT        | 5/31/2022<br>6/1/2022  | 5/31/2022<br>6/1/2022  | 6/9/2022<br>6/14/2022  | 0.50<br>0.50         | 9.00<br>13.00        | 9.50<br>13.50      | 0.025%<br>0.026%    | 0.00<br>0.00     |
| SARATOGA RACK MARKETING LLC                                | 33,615.20              | EFT               | 5/26/2022              | 5/26/2022              | 6/16/2022              | 0.50                 | 21.00                | 21.50              | 0.024%              | 0.01             |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 33,597.28<br>35,271.18 | EFT<br>EFT        | 5/26/2022<br>5/31/2022 | 5/26/2022<br>5/31/2022 | 6/15/2022<br>6/15/2022 | 0.50<br>0.50         | 20.00<br>15.00       | 20.50<br>15.50     | 0.024%<br>0.025%    | 0.00<br>0.00     |
| SARATOGA RACK MARKETING LLC                                | 35,266.48              | EFT               | 5/31/2022              | 5/31/2022              | 6/16/2022              | 0.50                 | 16.00                | 16.50              | 0.025%              | 0.00             |
| SARATOGA RACK MARKETING LLC                                | 35,285.29              | EFT               | 5/31/2022              | 5/31/2022              | 6/16/2022              | 0.50                 | 16.00                | 16.50              | 0.025%              | 0.00             |

| Vendor Name  | Invoice Amount         | Payment<br>Method | Period Beginning       | Period End             | Payment<br>Date        | Service<br>Lead Time | Payment<br>Lead Time | Total Lead<br>Time | Weighting<br>Factor | Dollar-<br>Weighted<br>Days |
|--|------------------------|-------------------|------------------------|------------------------|------------------------|----------------------|----------------------|--------------------|---------------------|-----------------------------|
| SARATOGA RACK MARKETING LLC                                | 36,042.34              | EFT               | 6/1/2022               | 6/1/2022               | 6/17/2022              | 0.50                 | 16.00                | 16.50              | 0.026%              | 0.00                        |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 35,266.48<br>38,809.45 | EFT<br>EFT        | 5/31/2022<br>6/3/2022  | 5/31/2022<br>6/3/2022  | 6/17/2022<br>6/17/2022 | 0.50<br>0.50         | 17.00<br>14.00       | 17.50<br>14.50     | 0.025%<br>0.028%    | 0.00<br>0.00                |
| SARATOGA RACK MARKETING LLC                                | 36,042.34              | EFT               | 6/1/2022               | 6/1/2022               | 6/20/2022              | 0.50                 | 19.00                | 19.50              | 0.026%              | 0.00                        |
| SARATOGA RACK MARKETING LLC                                | 36,031.93              | EFT               | 6/1/2022               | 6/1/2022               | 6/16/2022              | 0.50                 | 15.00                | 15.50              | 0.026%              | 0.00                        |
| SARATOGA RACK MARKETING LLC                                | 39,498.32              | EFT               | 6/6/2022               | 6/6/2022               | 6/16/2022              | 0.50                 | 10.00                | 10.50              | 0.028%              | 0.00                        |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 38,804.29<br>39,466.72 | EFT<br>EFT        | 6/3/2022<br>6/6/2022   | 6/3/2022<br>6/6/2022   | 6/16/2022<br>6/16/2022 | 0.50<br>0.50         | 13.00<br>10.00       | 13.50<br>10.50     | 0.028%<br>0.028%    | 0.00<br>0.00                |
| SARATOGA RACK MARKETING LLC                                | 39,482.52              | EFT               | 6/6/2022               | 6/6/2022               | 6/16/2022              | 0.50                 | 10.00                | 10.50              | 0.028%              | 0.00                        |
| SARATOGA RACK MARKETING LLC                                | 39,498.32              | EFT               | 6/6/2022               | 6/6/2022               | 6/16/2022              | 0.50                 | 10.00                | 10.50              | 0.028%              | 0.00                        |
| SARATOGA RACK MARKETING LLC                                | 39,493.04              | EFT               | 6/6/2022               | 6/6/2022               | 6/20/2022              | 0.50                 | 14.00                | 14.50              | 0.028%              | 0.00                        |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 38,158.99<br>38,133.57 | EFT<br>EFT        | 6/2/2022<br>6/2/2022   | 6/2/2022<br>6/2/2022   | 6/21/2022<br>6/21/2022 | 0.50<br>0.50         | 19.00<br>19.00       | 19.50<br>19.50     | 0.028%<br>0.028%    | 0.01<br>0.01                |
| SARATOGA RACK MARKETING LLC                                | 38,794.73              | EFT               | 6/3/2022               | 6/3/2022               | 6/21/2022              | 0.50                 | 18.00                | 18.50              | 0.028%              | 0.01                        |
| SARATOGA RACK MARKETING LLC                                | 39,482.52              | EFT               | 6/8/2022               | 6/8/2022               | 6/22/2022              | 0.50                 | 14.00                | 14.50              | 0.028%              | 0.00                        |
| SARATOGA RACK MARKETING LLC                                | 39,508.85              | EFT               | 6/8/2022               | 6/8/2022               | 6/22/2022              | 0.50                 | 14.00                | 14.50              | 0.029%              | 0.00                        |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 39,493.04<br>39,927.75 | EFT<br>EFT        | 6/8/2022<br>6/7/2022   | 6/8/2022<br>6/7/2022   | 6/22/2022<br>6/23/2022 | 0.50<br>0.50         | 14.00<br>16.00       | 14.50<br>16.50     | 0.028%<br>0.029%    | 0.00<br>0.00                |
| SARATOGA RACK MARKETING LLC                                | 40,532.88              | EFT               | 6/13/2022              | 6/13/2022              | 6/23/2022              | 0.50                 | 10.00                | 10.50              | 0.029%              | 0.00                        |
| SARATOGA RACK MARKETING LLC                                | 40,538.28              | EFT               | 6/13/2022              | 6/13/2022              | 6/22/2022              | 0.50                 | 9.00                 | 9.50               | 0.029%              | 0.00                        |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 39,766.78<br>40,118.12 | EFT<br>EFT        | 6/14/2022<br>6/15/2022 | 6/14/2022<br>6/15/2022 | 6/23/2022<br>6/23/2022 | 0.50<br>0.50         | 9.00<br>8.00         | 9.50<br>8.50       | 0.029%<br>0.029%    | 0.00<br>0.00                |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 40,116.12              | EFT               | 6/16/2022              | 6/16/2022              | 6/23/2022              | 0.50                 | 7.00                 | 7.50               | 0.029%              | 0.00                        |
| SARATOGA RACK MARKETING LLC                                | 39,885.19              | EFT               | 6/7/2022               | 6/7/2022               | 6/23/2022              | 0.50                 | 16.00                | 16.50              | 0.029%              | 0.00                        |
| SARATOGA RACK MARKETING LLC                                | 37,742.30              | EFT               | 6/23/2022              | 6/23/2022              | 6/29/2022              | 0.50                 | 6.00                 | 6.50               | 0.027%              | 0.00                        |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 37,712.13<br>33,749.57 | EFT<br>EFT        | 6/23/2022<br>6/30/2022 | 6/23/2022<br>6/30/2022 | 6/29/2022<br>7/18/2022 | 0.50<br>0.50         | 6.00<br>18.00        | 6.50<br>18.50      | 0.027%<br>0.024%    | 0.00<br>0.00                |
| SARATOGA RACK MARKETING LLC                                | 33,763.07              | EFT               | 6/30/2022              | 6/30/2022              | 7/18/2022              | 0.50                 | 18.00                | 18.50              | 0.024%              | 0.00                        |
| SARATOGA RACK MARKETING LLC                                | 33,758.57              | EFT               | 6/30/2022              | 6/30/2022              | 7/18/2022              | 0.50                 | 18.00                | 18.50              | 0.024%              | 0.00                        |
| SARATOGA RACK MARKETING LLC                                | 32,807.70              | EFT               | 7/1/2022               | 7/1/2022               | 7/18/2022              | 0.50                 | 17.00                | 17.50              | 0.024%              | 0.00                        |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 33,772.08<br>29,677.49 | EFT<br>EFT        | 6/30/2022<br>7/7/2022  | 6/30/2022<br>7/7/2022  | 7/18/2022<br>7/18/2022 | 0.50<br>0.50         | 18.00<br>11.00       | 18.50<br>11.50     | 0.024%<br>0.021%    | 0.00<br>0.00                |
| SARATOGA RACK MARKETING LLC                                | 29,681.44              | EFT               | 7/7/2022               | 7/7/2022               | 7/18/2022              | 0.50                 | 11.00                | 11.50              | 0.021%              | 0.00                        |
| SARATOGA RACK MARKETING LLC                                | 31,234.97              | EFT               | 7/8/2022               | 7/8/2022               | 7/18/2022              | 0.50                 | 10.00                | 10.50              | 0.023%              | 0.00                        |
| SARATOGA RACK MARKETING LLC                                | 29,669.57              | EFT               | 7/7/2022               | 7/7/2022               | 7/18/2022              | 0.50                 | 11.00                | 11.50              | 0.021%              | 0.00                        |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 31,222.47<br>33,474.91 | EFT<br>EFT        | 7/8/2022<br>7/5/2022   | 7/8/2022<br>7/5/2022   | 7/18/2022<br>7/18/2022 | 0.50<br>0.50         | 10.00<br>13.00       | 10.50<br>13.50     | 0.023%<br>0.024%    | 0.00<br>0.00                |
| SARATOGA RACK MARKETING LLC                                | 33,466.00              | EFT               | 7/5/2022               | 7/5/2022               | 7/18/2022              | 0.50                 | 13.00                | 13.50              | 0.024%              | 0.00                        |
| SARATOGA RACK MARKETING LLC                                | 33,466.00              | EFT               | 7/5/2022               | 7/5/2022               | 7/18/2022              | 0.50                 | 13.00                | 13.50              | 0.024%              | 0.00                        |
| SARATOGA RACK MARKETING LLC                                | 30,990.34              | EFT               | 7/6/2022               | 7/6/2022<br>7/6/2022   | 7/18/2022              | 0.50                 | 12.00                | 12.50              | 0.022%              | 0.00                        |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 30,998.59<br>29,669.57 | EFT<br>EFT        | 7/6/2022<br>7/7/2022   | 7/7/2022               | 7/18/2022<br>7/18/2022 | 0.50<br>0.50         | 12.00<br>11.00       | 12.50<br>11.50     | 0.022%<br>0.021%    | 0.00<br>0.00                |
| SARATOGA RACK MARKETING LLC                                | 33,470.46              | EFT               | 7/5/2022               | 7/5/2022               | 7/18/2022              | 0.50                 | 13.00                | 13.50              | 0.024%              | 0.00                        |
| SARATOGA RACK MARKETING LLC                                | 32,816.44              | EFT               | 7/1/2022               | 7/1/2022               | 7/18/2022              | 0.50                 | 17.00                | 17.50              | 0.024%              | 0.00                        |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 32,825.20<br>33,457.07 | EFT<br>EFT        | 7/1/2022<br>7/5/2022   | 7/1/2022<br>7/5/2022   | 7/18/2022<br>7/18/2022 | 0.50<br>0.50         | 17.00<br>13.00       | 17.50<br>13.50     | 0.024%<br>0.024%    | 0.00<br>0.00                |
| SARATOGA RACK MARKETING LLC                                | 33,461.52              | EFT               | 7/5/2022               | 7/5/2022               | 7/18/2022              | 0.50                 | 13.00                | 13.50              | 0.024%              | 0.00                        |
| SARATOGA RACK MARKETING LLC                                | 33,479.38              | EFT               | 7/5/2022               | 7/5/2022               | 7/18/2022              | 0.50                 | 13.00                | 13.50              | 0.024%              | 0.00                        |
| SARATOGA RACK MARKETING LLC                                | 33,048.52              | EFT               | 7/5/2022               | 7/5/2022               | 8/15/2022              | 0.50                 | 41.00                | 41.50              | 0.024%              | 0.01                        |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 33,070.55<br>30,590.48 | EFT<br>EFT        | 7/5/2022<br>7/6/2022   | 7/5/2022<br>7/6/2022   | 8/15/2022<br>8/15/2022 | 0.50<br>0.50         | 41.00<br>40.00       | 41.50<br>40.50     | 0.024%<br>0.022%    | 0.01<br>0.01                |
| SARATOGA RACK MARKETING LLC                                | 30,594.56              | EFT               | 7/6/2022               | 7/6/2022               | 8/19/2022              | 0.50                 | 44.00                | 44.50              | 0.022%              | 0.01                        |
| SARATOGA RACK MARKETING LLC                                | 29,277.63              | EFT               | 7/7/2022               | 7/7/2022               | 8/15/2022              | 0.50                 | 39.00                | 39.50              | 0.021%              | 0.01                        |
| SARATOGA RACK MARKETING LLC                                | 29,265.92              | EFT               | 7/7/2022               | 7/7/2022               | 8/15/2022              | 0.50                 | 39.00                | 39.50              | 0.021%              | 0.01                        |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 30,826.79<br>30,818.57 | EFT<br>EFT        | 7/8/2022<br>7/8/2022   | 7/8/2022<br>7/8/2022   | 8/15/2022<br>8/15/2022 | 0.50<br>0.50         | 38.00<br>38.00       | 38.50<br>38.50     | 0.022%<br>0.022%    | 0.01<br>0.01                |
| SARATOGA RACK MARKETING LLC                                | 30,762.67              | EFT               | 7/11/2022              | 7/11/2022              | 8/15/2022              | 0.50                 | 35.00                | 35.50              | 0.022%              | 0.01                        |
| SARATOGA RACK MARKETING LLC                                | 30,750.38              | EFT               | 7/11/2022              | 7/11/2022              | 8/15/2022              | 0.50                 | 35.00                | 35.50              | 0.022%              | 0.01                        |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 30,952.44<br>29,610.48 | EFT<br>EFT        | 7/12/2022<br>7/13/2022 | 7/12/2022<br>7/13/2022 | 8/15/2022<br>8/15/2022 | 0.50<br>0.50         | 34.00<br>33.00       | 34.50<br>33.50     | 0.022%<br>0.021%    | 0.01<br>0.01                |
| SARATOGA RACK MARKETING LLC                                | 30,968.94              | EFT               | 7/12/2022              | 7/12/2022              | 8/15/2022              | 0.50                 | 34.00                | 34.50              | 0.022%              | 0.01                        |
| SARATOGA RACK MARKETING LLC                                | 29,285.59              | EFT               | 7/14/2022              | 7/14/2022              | 9/14/2022              | 0.50                 | 62.00                | 62.50              | 0.021%              | 0.01                        |
| SARATOGA RACK MARKETING LLC                                | 29,297.30<br>29.626.26 | EFT               | 7/14/2022<br>7/13/2022 | 7/14/2022              | 9/14/2022              | 0.50                 | 62.00                | 62.50              | 0.021%              | 0.01                        |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 29,626.26<br>28,707.92 | EFT<br>EFT        | 7/13/2022              | 7/13/2022<br>7/15/2022 | 8/15/2022<br>9/14/2022 | 0.50<br>0.50         | 33.00<br>61.00       | 33.50<br>61.50     | 0.021%<br>0.021%    | 0.01<br>0.01                |
| SARATOGA RACK MARKETING LLC                                | 28,681.14              | EFT               | 7/15/2022              | 7/15/2022              | 8/15/2022              | 0.50                 | 31.00                | 31.50              | 0.021%              | 0.01                        |
| SARATOGA RACK MARKETING LLC                                | 28,564.77              | EFT               | 7/18/2022              | 7/18/2022              | 8/15/2022              | 0.50                 | 28.00                | 28.50              | 0.021%              | 0.01                        |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 28,572.37<br>28,287.39 | EFT<br>EFT        | 7/18/2022<br>7/19/2022 | 7/18/2022<br>7/19/2022 | 8/15/2022<br>8/15/2022 | 0.50<br>0.50         | 28.00<br>27.00       | 28.50<br>27.50     | 0.021%<br>0.020%    | 0.01<br>0.01                |
| SARATOGA RACK MARKETING LLC                                | 28,272.31              | EFT               | 7/19/2022              | 7/19/2022              | 8/15/2022              | 0.50                 | 27.00                | 27.50              | 0.020%              | 0.01                        |
| SARATOGA RACK MARKETING LLC                                | 27,859.93              | EFT               | 7/20/2022              | 7/20/2022              | 8/15/2022              | 0.50                 | 26.00                | 26.50              | 0.020%              | 0.01                        |
| SARATOGA RACK MARKETING LLC                                | 27,874.78              | EFT               | 7/20/2022              | 7/20/2022              | 9/14/2022              | 0.50                 | 56.00                | 56.50              | 0.020%              | 0.01                        |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 27,601.22<br>27,612.25 | EFT<br>EFT        | 7/21/2022<br>7/21/2022 | 7/22/2022<br>7/22/2022 | 8/15/2022<br>8/19/2022 | 1.00<br>1.00         | 24.00<br>28.00       | 25.00<br>29.00     | 0.020%<br>0.020%    | 0.00<br>0.01                |
| SARATOGA RACK MARKETING LLC                                | 27,511.24              | EFT               | 7/22/2022              | 7/22/2022              | 8/17/2022              | 0.50                 | 26.00                | 26.50              | 0.020%              | 0.01                        |
| SARATOGA RACK MARKETING LLC                                | 27,514.91              | EFT               | 7/22/2022              | 7/22/2022              | 8/17/2022              | 0.50                 | 26.00                | 26.50              | 0.020%              | 0.01                        |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 26,457.99<br>26,461.52 | EFT<br>EFT        | 7/25/2022<br>7/25/2022 | 7/25/2022<br>7/25/2022 | 8/17/2022<br>8/17/2022 | 0.50<br>0.50         | 23.00<br>23.00       | 23.50              | 0.019%<br>0.019%    | 0.00<br>0.00                |
| SARATOGA RACK MARKETING LLC                                | 26,238.81              | EFT               | 7/26/2022              | 7/26/2022              | 9/26/2022              | 0.50                 | 62.00                | 23.50<br>62.50     | 0.019%              | 0.00                        |
| SARATOGA RACK MARKETING LLC                                | 26,242.31              | EFT               | 7/26/2022              | 7/26/2022              | 9/26/2022              | 0.50                 | 62.00                | 62.50              | 0.019%              | 0.01                        |
| SARATOGA RACK MARKETING LLC                                | 26,193.78              | EFT               | 7/27/2022              | 7/27/2022              | 9/26/2022              | 0.50                 | 61.00                | 61.50              | 0.019%              | 0.01                        |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 26,186.80<br>26,892.32 | EFT<br>EFT        | 7/27/2022<br>7/28/2022 | 7/27/2022<br>7/30/2022 | 8/17/2022<br>9/26/2022 | 0.50<br>1.50         | 21.00<br>58.00       | 21.50<br>59.50     | 0.019%<br>0.019%    | 0.00<br>0.01                |
| SARATOGA RACK MARKETING LLC                                | 26,895.90              | EFT               | 7/28/2022              | 7/30/2022              | 9/26/2022              | 1.50                 | 58.00                | 59.50              | 0.019%              | 0.01                        |
| SARATOGA RACK MARKETING LLC                                | 26,001.28              | EFT               | 7/29/2022              | 7/29/2022              | 9/26/2022              | 0.50                 | 59.00                | 59.50              | 0.019%              | 0.01                        |
| SARATOGA RACK MARKETING LLC                                | 25,836.73              | EFT               | 8/1/2022               | 8/1/2022               | 8/25/2022              | 0.50                 | 24.00                | 24.50              | 0.019%              | 0.00                        |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 25,805.75<br>25,822.95 | EFT<br>EFT        | 8/1/2022<br>8/1/2022   | 8/1/2022<br>8/1/2022   | 8/25/2022<br>8/25/2022 | 0.50<br>0.50         | 24.00<br>24.00       | 24.50<br>24.50     | 0.019%<br>0.019%    | 0.00<br>0.00                |
| SARATOGA RACK MARKETING LLC                                | 25,200.67              | EFT               | 8/2/2022               | 8/2/2022               | 8/24/2022              | 0.50                 | 22.00                | 22.50              | 0.018%              | 0.00                        |
| SARATOGA RACK MARKETING LLC                                | 25,217.49              | EFT               | 8/2/2022               | 8/2/2022               | 9/26/2022              | 0.50                 | 55.00                | 55.50              | 0.018%              | 0.01                        |
| SARATOGA RACK MARKETING LLC                                | 24,876.40              | EFT<br>EFT        | 8/3/2022               | 8/3/2022               | 8/25/2022              | 0.50                 | 22.00                | 22.50              | 0.018%              | 0.00<br>0.00                |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 24,846.56<br>24,863.13 | EFT               | 8/3/2022<br>8/3/2022   | 8/3/2022<br>8/3/2022   | 8/25/2022<br>8/25/2022 | 0.50<br>0.50         | 22.00<br>22.00       | 22.50<br>22.50     | 0.018%<br>0.018%    | 0.00                        |
| SARATOGA RACK MARKETING LLC                                | 25,306.45              | EFT               | 8/4/2022               | 8/4/2022               | 8/24/2022              | 0.50                 | 20.00                | 20.50              | 0.018%              | 0.00                        |
| SARATOGA RACK MARKETING LLC                                | 25,309.82              | EFT               | 8/4/2022               | 8/4/2022               | 8/25/2022              | 0.50                 | 21.00                | 21.50              | 0.018%              | 0.00                        |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC | 25,313.19<br>24,187.00 | EFT<br>EFT        | 8/4/2022<br>8/9/2022   | 8/4/2022<br>8/9/2022   | 8/24/2022<br>8/25/2022 | 0.50<br>0.50         | 20.00<br>16.00       | 20.50<br>16.50     | 0.018%<br>0.017%    | 0.00<br>0.00                |
| SARATOGA RACK MARKETING LLC                                | 24,933.97              | EFT               | 8/5/2022               | 8/5/2022               | 8/24/2022              | 0.50                 | 19.00                | 19.50              | 0.017 %             | 0.00                        |
| SARATOGA RACK MARKETING LLC                                | 24,917.35              | EFT               | 8/5/2022               | 8/5/2022               | 8/25/2022              | 0.50                 | 20.00                | 20.50              | 0.018%              | 0.00                        |
| SARATOGA RACK MARKETING LLC                                | 24,933.97              | EFT               | 8/5/2022               | 8/5/2022               | 8/25/2022              | 0.50                 | 20.00                | 20.50              | 0.018%              | 0.00                        |

|  |                              |               |                              |                         |                          |                   |                    |                |                  | Dollar-      |
|--|------------------------------|---------------|------------------------------|-------------------------|--------------------------|-------------------|--------------------|----------------|------------------|--------------|
|  |                              | Payment       |                              |                         | Payment                  | Service           | Payment            | Total Lead     | Weighting        | Weighted     |
| Vendor Name SARATOGA RACK MARKETING LLC                          | Invoice Amount<br>24,355.08  | Method<br>EFT | Period Beginning<br>8/8/2022 | Period End<br>8/8/2022  | Date<br>8/25/2022        | Lead Time<br>0.50 | Lead Time<br>17.00 | Time           | Factor<br>0.018% | Days<br>0.00 |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC       | 24,358.33                    | EFT           | 8/8/2022                     | 8/8/2022                | 8/25/2022                | 0.50              | 17.00              | 17.50<br>17.50 | 0.018%           | 0.00         |
| SARATOGA RACK MARKETING LLC                                      | 24,170.88                    | EFT           | 8/9/2022                     | 8/9/2022                | 8/25/2022                | 0.50              | 16.00              | 16.50          | 0.017%           | 0.00         |
| SARATOGA RACK MARKETING LLC                                      | 24,164.43                    | EFT           | 8/9/2022                     | 8/9/2022                | 8/25/2022                | 0.50              | 16.00              | 16.50          | 0.017%           | 0.00         |
| SARATOGA RACK MARKETING LLC                                      | 25,200.67                    | EFT           | 8/2/2022                     | 8/2/2022                | 9/26/2022                | 0.50              | 55.00              | 55.50          | 0.018%           | 0.01         |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC       | 24,371.32<br>25,990.89       | EFT<br>EFT    | 8/8/2022<br>7/29/2022        | 8/8/2022<br>7/29/2022   | 8/25/2022<br>9/26/2022   | 0.50<br>0.50      | 17.00<br>59.00     | 17.50<br>59.50 | 0.018%<br>0.019% | 0.00<br>0.01 |
| SARATOGA RACK MARKETING LLC                                      | 25,955.11                    | EFT           | 8/11/2022                    | 8/11/2022               | 9/1/2022                 | 0.50              | 21.00              | 21.50          | 0.019%           | 0.00         |
| SARATOGA RACK MARKETING LLC                                      | 25,355.93                    | EFT           | 8/10/2022                    | 8/10/2022               | 9/1/2022                 | 0.50              | 22.00              | 22.50          | 0.018%           | 0.00         |
| SARATOGA RACK MARKETING LLC                                      | 25,376.22                    | EFT           | 8/10/2022                    | 8/10/2022               | 9/1/2022                 | 0.50              | 22.00              | 22.50          | 0.018%           | 0.00         |
| SARATOGA RACK MARKETING LLC                                      | 25,369.45                    | EFT           | 8/10/2022                    | 8/10/2022               | 9/1/2022                 | 0.50              | 22.00              | 22.50          | 0.018%           | 0.00         |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC       | 28,350.94<br>28,373.63       | EFT<br>EFT    | 8/18/2022<br>8/18/2022       | 8/18/2022<br>8/18/2022  | 9/16/2022<br>9/16/2022   | 0.50<br>0.50      | 29.00<br>29.00     | 29.50<br>29.50 | 0.020%<br>0.020% | 0.01<br>0.01 |
| SARATOGA RACK MARKETING LLC                                      | 28,373.63                    | EFT           | 8/18/2022                    | 8/18/2022               | 9/16/2022                | 0.50              | 29.00              | 29.50          | 0.020%           | 0.01         |
| SARATOGA RACK MARKETING LLC                                      | 27,514.58                    | EFT           | 8/17/2022                    | 8/17/2022               | 9/16/2022                | 0.50              | 30.00              | 30.50          | 0.020%           | 0.01         |
| SARATOGA RACK MARKETING LLC                                      | 27,488.90                    | EFT           | 8/17/2022                    | 8/17/2022               | 9/16/2022                | 0.50              | 30.00              | 30.50          | 0.020%           | 0.01         |
| SARATOGA RACK MARKETING LLC                                      | 28,182.34                    | EFT           | 8/15/2022                    | 8/15/2022               | 9/16/2022                | 0.50              | 32.00              | 32.50          | 0.020%           | 0.01         |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC       | 27,503.57                    | EFT<br>EFT    | 8/17/2022<br>8/16/2022       | 8/17/2022               | 9/16/2022<br>9/16/2022   | 0.50<br>0.50      | 30.00<br>31.00     | 30.50<br>31.50 | 0.020%<br>0.020% | 0.01<br>0.01 |
| SARATOGA RACK MARKETING LLC<br>SARATOGA RACK MARKETING LLC       | 27,372.62<br>27,379.92       | EFT           | 8/16/2022                    | 8/16/2022<br>8/16/2022  | 9/16/2022                | 0.50              | 31.00              | 31.50          | 0.020%           | 0.01         |
| SARATOGA RACK MARKETING LLC                                      | 28,354.73                    | EFT           | 8/18/2022                    | 8/18/2022               | 9/21/2022                | 0.50              | 34.00              | 34.50          | 0.020%           | 0.01         |
| SARATOGA RACK MARKETING LLC                                      | 27,510.90                    | EFT           | 8/17/2022                    | 8/17/2022               | 9/21/2022                | 0.50              | 35.00              | 35.50          | 0.020%           | 0.01         |
| ARM ENERGY MANAGEMENT LLC  | 28,000.00                    | EFT           | 12/1/2021                    | 12/31/2021              | 1/25/2022                | 15.50             | 25.00              | 40.50          | 0.020%           | 0.01         |
| COLUMBIA GAS TRANSMISSION CORP<br>COLUMBIA GAS TRANSMISSION CORP | 490,736.29<br>483,782.12     | EFT<br>EFT    | 9/1/2021<br>10/1/2021        | 9/30/2021<br>10/31/2021 | 10/22/2021<br>11/22/2021 | 15.00<br>15.50    | 22.00<br>22.00     | 37.00<br>37.50 | 0.354%<br>0.349% | 0.13<br>0.13 |
| COLUMBIA GAS TRANSMISSION CORP                                   | 462,458.31                   | EFT           | 11/1/2021                    | 11/30/2021              | 12/20/2021               | 15.00             | 20.00              | 35.00          | 0.349%           | 0.13         |
| COLUMBIA GAS TRANSMISSION CORP                                   | 499,278.82                   | EFT           | 12/1/2021                    | 12/31/2021              | 1/24/2022                | 15.50             | 24.00              | 39.50          | 0.360%           | 0.14         |
| COLUMBIA GAS TRANSMISSION CORP                                   | 533,157.32                   | EFT           | 1/1/2022                     | 1/31/2022               | 2/22/2022                | 15.50             | 22.00              | 37.50          | 0.385%           | 0.14         |
| COLUMBIA GAS TRANSMISSION CORP                                   | 376,699.04                   | EFT           | 2/1/2022                     | 2/28/2022               | 3/21/2022                | 14.00             | 21.00              | 35.00          | 0.272%           | 0.10         |
| COLUMBIA GAS TRANSMISSION CORP                                   | 470,367.03                   | EFT<br>EFT    | 3/1/2022                     | 3/31/2022               | 4/25/2022                | 15.50             | 25.00              | 40.50          | 0.339%           | 0.14         |
| COLUMBIA GAS TRANSMISSION CORP<br>COLUMBIA GAS TRANSMISSION LLC  | 514,457.93<br>518,235.17     | EFT           | 4/1/2022<br>5/1/2022         | 4/30/2022<br>5/31/2022  | 5/23/2022<br>6/22/2022   | 15.00<br>15.50    | 23.00<br>22.00     | 38.00<br>37.50 | 0.371%<br>0.374% | 0.14<br>0.14 |
| COLUMBIA GAS TRANSMISSION LLC                                    | 498,469.09                   | EFT           | 6/1/2022                     | 6/30/2022               | 7/19/2022                | 15.00             | 19.00              | 34.00          | 0.360%           | 0.12         |
| COLUMBIA GAS TRANSMISSION LLC                                    | 510,557.87                   | EFT           | 7/1/2022                     | 7/31/2022               | 8/19/2022                | 15.50             | 19.00              | 34.50          | 0.368%           | 0.13         |
| COLUMBIA GAS TRANSMISSION LLC                                    | 511,353.37                   | EFT           | 8/1/2022                     | 8/31/2022               | 9/15/2022                | 15.50             | 15.00              | 30.50          | 0.369%           | 0.11         |
| DTE ENERGY TRADING INC   | 1,704.00                     | EFT<br>EFT    | 11/1/2021<br>1/1/2022        | 11/30/2021<br>1/31/2022 | 12/27/2021<br>2/25/2022  | 15.00             | 27.00              | 42.00          | 0.001%           | 0.00<br>0.01 |
| EDF TRADING NORTH AMERICA LLC<br>EMERA ENERGY SERVICES INC       | 44,408.25<br>95,250.00       | EFT           | 9/1/2021                     | 9/30/2021               | 10/25/2021               | 15.50<br>15.00    | 25.00<br>25.00     | 40.50<br>40.00 | 0.032%<br>0.069% | 0.01         |
| INTERSTATE GAS SUPPLY INC  | 40,500.00                    | EFT           | 9/1/2021                     | 9/30/2021               | 10/25/2021               | 15.00             | 25.00              | 40.00          | 0.029%           | 0.01         |
| J ARON & COMPANY   | 291,580.00                   | EFT           | 9/1/2021                     | 9/30/2021               | 10/25/2021               | 15.00             | 25.00              | 40.00          | 0.210%           | 0.08         |
| MACQUARIE ENERGY LLC   | 1,823,253.50                 | EFT           | 9/1/2021                     | 9/30/2021               | 10/25/2021               | 15.00             | 25.00              | 40.00          | 1.315%           | 0.53         |
| MACQUARIE ENERGY LLC MACQUARIE ENERGY LLC                        | 5,832,479.25<br>1,722,065.00 | EFT<br>EFT    | 1/1/2022<br>2/1/2022         | 1/31/2022<br>2/28/2022  | 2/25/2022<br>3/25/2022   | 15.50<br>14.00    | 25.00<br>25.00     | 40.50<br>39.00 | 4.208%<br>1.242% | 1.70<br>0.48 |
| MACQUARIE ENERGY LLC   | 1,527,663.75                 | EFT           | 3/1/2022                     | 3/31/2022               | 4/25/2022                | 15.50             | 25.00              | 40.50          | 1.102%           | 0.45         |
| MACQUARIE ENERGY LLC   | 834,750.00                   | EFT           | 4/1/2022                     | 4/30/2022               | 5/25/2022                | 15.00             | 25.00              | 40.00          | 0.602%           | 0.24         |
| MACQUARIE ENERGY LLC   | 3,996,800.00                 | EFT           | 5/1/2022                     | 5/31/2022               | 6/27/2022                | 15.50             | 27.00              | 42.50          | 2.884%           | 1.23         |
| MACQUARIE ENERGY LLC   | 3,799,475.00                 | EFT           | 6/1/2022                     | 6/30/2022               | 7/25/2022                | 15.00             | 25.00              | 40.00          | 2.741%           | 1.10         |
| MACQUARIE ENERGY LLC MACQUARIE ENERGY LLC                        | 3,529,575.00<br>2,525,797.50 | EFT<br>EFT    | 7/1/2022<br>8/1/2022         | 7/31/2022<br>8/31/2022  | 8/25/2022<br>9/26/2022   | 15.50<br>15.50    | 25.00<br>26.00     | 40.50<br>41.50 | 2.547%<br>1.822% | 1.03<br>0.76 |
| MERCURIA ENERGY AMERICA INC                                      | 80,370.00                    | EFT           | 10/1/2021                    | 10/31/2021              | 11/26/2021               | 15.50             | 26.00              | 41.50          | 0.058%           | 0.70         |
| MERCURIA ENERGY AMERICA INC                                      | 159,625.00                   | EFT           | 12/1/2021                    | 12/31/2021              | 1/25/2022                | 15.50             | 25.00              | 40.50          | 0.115%           | 0.05         |
| MERCURIA ENERGY AMERICA INC                                      | 136,200.00                   | EFT           | 1/1/2022                     | 1/31/2022               | 2/25/2022                | 15.50             | 25.00              | 40.50          | 0.098%           | 0.04         |
| NEXTERA ENERGY MARKETING LLC                                     | 50,850.00                    | EFT           | 1/1/2022                     | 1/31/2022               | 2/25/2022                | 15.50             | 25.00              | 40.50          | 0.037%           | 0.01         |
| NEXTERA ENERGY MARKETING LLC<br>SEQUENT ENERGY MANAGEMENT LLC    | 86,492.00<br>112,000.00      | EFT<br>EFT    | 5/1/2022<br>7/1/2022         | 5/31/2022<br>7/31/2022  | 6/27/2022<br>8/24/2022   | 15.50<br>15.50    | 27.00<br>24.00     | 42.50<br>39.50 | 0.062%<br>0.081% | 0.03<br>0.03 |
| SEQUENT ENERGY MANAGEMENT LP                                     | 740,647.50                   | EFT           | 9/1/2021                     | 9/30/2021               | 10/25/2021               | 15.00             | 25.00              | 40.00          | 0.534%           | 0.03         |
| SEQUENT ENERGY MANAGEMENT LP                                     | 14,999.68                    | EFT           | 10/1/2021                    | 10/31/2021              | 11/26/2021               | 15.50             | 26.00              | 41.50          | 0.011%           | 0.00         |
| SEQUENT ENERGY MANAGEMENT LP                                     | 680,912.50                   | EFT           | 12/1/2021                    | 12/31/2021              | 1/25/2022                | 15.50             | 25.00              | 40.50          | 0.491%           | 0.20         |
| SEQUENT ENERGY MANAGEMENT LP                                     | 877,850.00                   | EFT           | 1/1/2022                     | 1/31/2022               | 2/25/2022                | 15.50             | 25.00              | 40.50          | 0.633%           | 0.26         |
| SEQUENT ENERGY MANAGEMENT LP<br>SNYDER BROTHERS INC              | 502,400.00<br>63,800.00      | EFT<br>EFT    | 3/1/2022<br>12/1/2021        | 3/31/2022<br>12/31/2021 | 4/25/2022<br>1/25/2022   | 15.50<br>15.50    | 25.00<br>25.00     | 40.50<br>40.50 | 0.362%<br>0.046% | 0.15<br>0.02 |
| SPOTLIGHT ENERGY LLC   | 49,028.00                    | EFT           | 9/1/2021                     | 9/30/2021               | 10/25/2021               | 15.00             | 25.00              | 40.00          | 0.046%           | 0.02         |
| VITOL INC  | 287.50                       | EFT           | 12/1/2021                    | 12/31/2021              | 1/25/2022                | 15.50             | 25.00              | 40.50          | 0.000%           | 0.00         |
| VITOL INC  | 370,137.50                   | EFT           | 1/1/2022                     | 1/31/2022               | 2/25/2022                | 15.50             | 25.00              | 40.50          | 0.267%           | 0.11         |
| VITOLING   | 1,040,562.50                 | EFT<br>EFT    | 2/1/2022                     | 2/28/2022               | 3/25/2022                | 14.00             | 25.00              | 39.00          | 0.751%           | 0.29         |
| VITOL INC<br>VITOL INC   | 238,750.00<br>764,750.00     | EFT           | 3/1/2022<br>5/1/2022         | 3/31/2022<br>5/31/2022  | 4/25/2022<br>6/27/2022   | 15.50<br>15.50    | 25.00<br>27.00     | 40.50<br>42.50 | 0.172%<br>0.552% | 0.07<br>0.23 |
| VITOL INC  | 921,100.00                   | EFT           | 6/1/2022                     | 6/30/2022               | 7/25/2022                | 15.00             | 25.00              | 40.00          | 0.665%           | 0.27         |
| VITOL INC  | 106,000.00                   | EFT           | 7/1/2022                     | 7/31/2022               | 8/25/2022                | 15.50             | 25.00              | 40.50          | 0.076%           | 0.03         |
| VITOL INC  | 235,545.80                   | EFT           | 8/1/2022                     | 8/31/2022               | 9/26/2022                | 15.50             | 26.00              | 41.50          | 0.170%           | 0.07         |
|  |                              |               |                              |                         |                          |                   |                    |                |                  |              |

\$ 138,599,809.87

#### KENTUCKY POWER COMPANY LEAD LAG STUDY PAYROLL, BENEFITS, AND WITHHOLDINGS

Weighted Expense Lead Time: 13.82 days

| Company  | Pay Period Begin         | Pay Period End           | Sum Net Pay               | Check Date               | Midpoint of Pay<br>Period | Payment Lead<br>Time | Float Time (For Checks) | Total Lead<br>Time | Weighting<br>Factor | Weighted<br>Lead Time |
|--|--------------------------|--------------------------|---------------------------|--------------------------|---------------------------|----------------------|-------------------------|--------------------|---------------------|-----------------------|
| (A)<br>Kantuaku Bawar Campanu                    | (B)<br>9/17/2021         | (C)<br>9/30/2021         | (D)<br>\$ 50,663.09       | (E)<br>10/8/2021         | (F)<br>7.00               | (G)<br>8.00          | (H)<br>0.00             | (I)<br>15.00       | (J)<br>0.157%       | (K)<br>0.02           |
| Kentucky Power Company<br>Kentucky Power Company | 9/17/2021                | 9/30/2021                | 2,170.72                  | 10/8/2021                | 7.00                      | 8.00                 | 12.73                   | 27.73              | 0.137 %             | 0.02                  |
| Kentucky Power Company                           | 9/18/2021                | 10/1/2021                | 984,962.17                | 10/8/2021                | 7.00                      | 7.00                 | 0.00                    | 14.00              | 3.059%              | 0.43                  |
| Kentucky Power Company<br>Kentucky Power Company | 9/18/2021<br>10/1/2021   | 10/1/2021<br>10/14/2021  | 15,899.00<br>52,634.08    | 10/8/2021<br>10/22/2021  | 7.00<br>7.00              | 7.00<br>8.00         | 12.73<br>0.00           | 26.73<br>15.00     | 0.049%<br>0.163%    | 0.01<br>0.02          |
| Kentucky Power Company                           | 10/1/2021                | 10/14/2021               | 2,836.75                  | 10/22/2021               | 7.00                      | 8.00                 | 12.73                   | 27.73              | 0.009%              | 0.00                  |
| Kentucky Power Company                           | 10/2/2021                | 10/15/2021               | 16,667.18                 | 10/22/2021               | 7.00                      | 7.00                 | 12.73                   | 26.73              | 0.052%              | 0.01                  |
| Kentucky Power Company<br>Kentucky Power Company | 10/2/2021<br>10/15/2021  | 10/15/2021<br>10/28/2021 | 923,799.42<br>48,980.04   | 10/22/2021<br>11/5/2021  | 7.00<br>7.00              | 7.00<br>8.00         | 0.00                    | 14.00<br>15.00     | 2.869%<br>0.152%    | 0.40<br>0.02          |
| Kentucky Power Company                           | 10/15/2021               | 10/28/2021               | 3,585.67                  | 11/5/2021                | 7.00                      | 8.00                 | 12.73                   | 27.73              | 0.011%              | 0.00                  |
| Kentucky Power Company<br>Kentucky Power Company | 10/16/2021<br>10/16/2021 | 10/29/2021<br>10/29/2021 | 948,657.49<br>37,128.72   | 11/5/2021<br>11/5/2021   | 7.00<br>7.00              | 7.00<br>7.00         | 0.00<br>12.73           | 14.00<br>26.73     | 2.946%<br>0.115%    | 0.41<br>0.03          |
| Kentucky Power Company                           | 10/29/2021               | 11/11/2021               | 50,809.66                 | 11/19/2021               | 7.00                      | 8.00                 | 0.00                    | 15.00              | 0.115%              | 0.03                  |
| Kentucky Power Company                           | 10/29/2021               | 11/11/2021               | 3,357.77                  | 11/19/2021               | 7.00                      | 8.00                 | 12.73                   | 27.73              | 0.010%              | 0.00                  |
| Kentucky Power Company<br>Kentucky Power Company | 10/30/2021<br>10/30/2021 | 11/12/2021<br>11/12/2021 | 16,387.88<br>976,265.57   | 11/19/2021<br>11/19/2021 | 7.00<br>7.00              | 7.00<br>7.00         | 12.73<br>0.00           | 26.73<br>14.00     | 0.051%<br>3.032%    | 0.01<br>0.42          |
| Kentucky Power Company                           | 11/12/2021               | 11/25/2021               | 1,949.65                  | 12/3/2021                | 7.00                      | 8.00                 | 12.73                   | 27.73              | 0.006%              | 0.00                  |
| Kentucky Power Company                           | 11/12/2021<br>11/13/2021 | 11/25/2021<br>11/26/2021 | 49,716.52<br>17,596.30    | 12/3/2021<br>12/3/2021   | 7.00<br>7.00              | 8.00<br>7.00         | 0.00<br>12.73           | 15.00<br>26.73     | 0.154%<br>0.055%    | 0.02<br>0.01          |
| Kentucky Power Company<br>Kentucky Power Company | 11/13/2021               | 11/26/2021               | 996,947.85                | 12/3/2021                | 7.00                      | 7.00                 | 0.00                    | 14.00              | 3.096%              | 0.43                  |
| Kentucky Power Company                           | 11/26/2021               | 12/9/2021                | 56,553.62                 | 12/17/2021               | 7.00                      | 8.00                 | 0.00                    | 15.00              | 0.176%              | 0.03                  |
| Kentucky Power Company<br>Kentucky Power Company | 11/26/2021<br>11/27/2021 | 12/9/2021<br>12/10/2021  | 4,070.33<br>1,039,364.50  | 12/17/2021<br>12/17/2021 | 7.00<br>7.00              | 8.00<br>7.00         | 12.73<br>0.00           | 27.73<br>14.00     | 0.013%<br>3.228%    | 0.00<br>0.45          |
| Kentucky Power Company                           | 11/27/2021               | 12/10/2021               | 15,171.03                 | 12/17/2021               | 7.00                      | 7.00                 | 12.73                   | 26.73              | 0.047%              | 0.01                  |
| Kentucky Power Company                           | 12/10/2021               | 12/23/2021               | 66,789.41<br>2,235.31     | 12/31/2021               | 7.00<br>7.00              | 8.00<br>8.00         | 0.00<br>12.73           | 15.00<br>27.73     | 0.207%<br>0.007%    | 0.03<br>0.00          |
| Kentucky Power Company<br>Kentucky Power Company | 12/10/2021<br>12/11/2021 | 12/23/2021<br>12/24/2021 | 1,108,077.31              | 12/31/2021<br>12/31/2021 | 7.00                      | 7.00                 | 0.00                    | 14.00              | 3.441%              | 0.48                  |
| Kentucky Power Company                           | 12/11/2021               | 12/24/2021               | 17,294.89                 | 12/31/2021               | 7.00                      | 7.00                 | 12.73                   | 26.73              | 0.054%              | 0.01                  |
| Kentucky Power Company<br>Kentucky Power Company | 12/24/2021<br>12/24/2021 | 1/6/2022<br>1/6/2022     | 64,085.01<br>2.428.85     | 1/14/2022<br>1/14/2022   | 7.00<br>7.00              | 8.00<br>8.00         | 0.00<br>12.73           | 15.00<br>27.73     | 0.199%<br>0.008%    | 0.03<br>0.00          |
| Kentucky Power Company                           | 12/25/2021               | 1/7/2022                 | 987,369.45                | 1/14/2022                | 7.00                      | 7.00                 | 0.00                    | 14.00              | 3.066%              | 0.43                  |
| Kentucky Power Company                           | 12/25/2021               | 1/7/2022                 | 15,681.94                 | 1/14/2022                | 7.00                      | 7.00                 | 12.73                   | 26.73              | 0.049%              | 0.01                  |
| Kentucky Power Company<br>Kentucky Power Company | 1/7/2022<br>1/7/2022     | 1/20/2022<br>1/20/2022   | 2,533.30<br>55,464.58     | 1/28/2022<br>1/28/2022   | 7.00<br>7.00              | 8.00<br>8.00         | 12.73<br>0.00           | 27.73<br>15.00     | 0.008%<br>0.172%    | 0.00<br>0.03          |
| Kentucky Power Company                           | 1/20/2022                | 1/21/2022                | 1,765.28                  | 1/19/2022                | 1.00                      | (2.00)               | 12.73                   | 11.73              | 0.005%              | 0.00                  |
| Kentucky Power Company<br>Kentucky Power Company | 1/8/2022<br>1/8/2022     | 1/21/2022<br>1/21/2022   | 936,461.99<br>13,943.63   | 1/28/2022<br>1/28/2022   | 7.00<br>7.00              | 7.00<br>7.00         | 0.00<br>12.73           | 14.00<br>26.73     | 2.908%<br>0.043%    | 0.41<br>0.01          |
| Kentucky Power Company                           | 1/21/2022                | 2/3/2022                 | 2,867.17                  | 2/11/2022                | 7.00                      | 8.00                 | 12.73                   | 27.73              | 0.009%              | 0.00                  |
| Kentucky Power Company                           | 1/21/2022                | 2/3/2022                 | 55,391.19                 | 2/11/2022                | 7.00                      | 8.00                 | 0.00                    | 15.00              | 0.172%              | 0.03                  |
| Kentucky Power Company<br>Kentucky Power Company | 1/22/2022<br>1/22/2022   | 2/4/2022<br>2/4/2022     | 16,408.80<br>918,105.80   | 2/11/2022<br>2/11/2022   | 7.00<br>7.00              | 7.00<br>7.00         | 12.73<br>0.00           | 26.73<br>14.00     | 0.051%<br>2.851%    | 0.01<br>0.40          |
| Kentucky Power Company                           | 2/4/2022                 | 2/17/2022                | 60,056.09                 | 2/25/2022                | 7.00                      | 8.00                 | 0.00                    | 15.00              | 0.187%              | 0.03                  |
| Kentucky Power Company                           | 2/4/2022                 | 2/17/2022<br>2/18/2022   | 2,674.05                  | 2/25/2022<br>2/25/2022   | 7.00<br>7.00              | 8.00<br>7.00         | 12.73<br>0.00           | 27.73              | 0.008%              | 0.00<br>0.42          |
| Kentucky Power Company<br>Kentucky Power Company | 2/5/2022<br>2/5/2022     | 2/18/2022                | 963,468.76<br>15,572.09   | 2/25/2022                | 7.00                      | 7.00                 | 12.73                   | 14.00<br>26.73     | 2.992%<br>0.048%    | 0.42                  |
| Kentucky Power Company                           | 2/23/2022                | 2/24/2022                | 34,156.22                 | 3/4/2022                 | 1.00                      | 8.00                 | 12.73                   | 21.73              | 0.106%              | 0.02                  |
| Kentucky Power Company<br>Kentucky Power Company | 2/23/2022<br>2/18/2022   | 2/24/2022<br>3/3/2022    | 2,712,478.78<br>65,445.64 | 3/4/2022<br>3/11/2022    | 1.00<br>7.00              | 8.00<br>8.00         | 0.00                    | 9.00<br>15.00      | 8.424%<br>0.203%    | 0.76<br>0.03          |
| Kentucky Power Company                           | 2/18/2022                | 3/3/2022                 | 2,549.28                  | 3/11/2022                | 7.00                      | 8.00                 | 12.73                   | 27.73              | 0.203%              | 0.00                  |
| Kentucky Power Company                           | 2/19/2022                | 3/4/2022                 | 953,188.59                | 3/11/2022                | 7.00                      | 7.00                 | 0.00                    | 14.00              | 2.960%              | 0.41                  |
| Kentucky Power Company<br>Kentucky Power Company | 2/19/2022<br>3/4/2022    | 3/4/2022<br>3/17/2022    | 15,365.91<br>114,967.55   | 3/11/2022<br>3/25/2022   | 7.00<br>7.00              | 7.00<br>8.00         | 12.73<br>0.00           | 26.73<br>15.00     | 0.048%<br>0.357%    | 0.01<br>0.05          |
| Kentucky Power Company                           | 3/4/2022                 | 3/17/2022                | 2,717.88                  | 3/25/2022                | 7.00                      | 8.00                 | 12.73                   | 27.73              | 0.008%              | 0.00                  |
| Kentucky Power Company<br>Kentucky Power Company | 3/5/2022<br>3/5/2022     | 3/18/2022<br>3/18/2022   | 14,462.39<br>1,360,121.40 | 3/25/2022<br>3/25/2022   | 7.00<br>7.00              | 7.00<br>7.00         | 12.73<br>0.00           | 26.73<br>14.00     | 0.045%<br>4.224%    | 0.01<br>0.59          |
| Kentucky Power Company                           | 3/18/2022                | 3/31/2022                | 2,549.29                  | 4/8/2022                 | 7.00                      | 8.00                 | 12.73                   | 27.73              | 0.008%              | 0.00                  |
| Kentucky Power Company                           | 3/18/2022                | 3/31/2022                | 55,337.27                 | 4/8/2022                 | 7.00                      | 8.00                 | 0.00                    | 15.00              | 0.172%              | 0.03                  |
| Kentucky Power Company<br>Kentucky Power Company | 3/19/2022<br>3/19/2022   | 4/1/2022<br>4/1/2022     | 13,945.05<br>966,593.74   | 4/8/2022<br>4/8/2022     | 7.00<br>7.00              | 7.00<br>7.00         | 12.73<br>0.00           | 26.73<br>14.00     | 0.043%<br>3.002%    | 0.01<br>0.42          |
| Kentucky Power Company                           | 4/1/2022                 | 4/14/2022                | 60,315.09                 | 4/22/2022                | 7.00                      | 8.00                 | 0.00                    | 15.00              | 0.187%              | 0.03                  |
| Kentucky Power Company<br>Kentucky Power Company | 4/1/2022<br>4/2/2022     | 4/14/2022<br>4/15/2022   | 2,672.05<br>14,828.96     | 4/22/2022<br>4/22/2022   | 7.00<br>7.00              | 8.00<br>7.00         | 12.73<br>12.73          | 27.73<br>26.73     | 0.008%<br>0.046%    | 0.00<br>0.01          |
| Kentucky Power Company                           | 4/14/2022                | 4/15/2022                | 25,510.00                 | 4/13/2022                | 1.00                      | (2.00)               | 12.73                   | 11.73              | 0.079%              | 0.01                  |
| Kentucky Power Company                           | 4/2/2022                 | 4/15/2022                | 996,518.37                | 4/22/2022                | 7.00                      | 7.00                 | 0.00                    | 14.00              | 3.095%              | 0.43                  |
| Kentucky Power Company<br>Kentucky Power Company | 4/15/2022<br>4/15/2022   | 4/28/2022<br>4/28/2022   | 2,458.65<br>67,216.40     | 5/6/2022<br>5/6/2022     | 7.00<br>7.00              | 8.00<br>8.00         | 12.73<br>0.00           | 27.73<br>15.00     | 0.008%<br>0.209%    | 0.00<br>0.03          |
| Kentucky Power Company                           | 4/16/2022                | 4/29/2022                | 936,504.98                | 5/6/2022                 | 7.00                      | 7.00                 | 0.00                    | 14.00              | 2.909%              | 0.41                  |
| Kentucky Power Company<br>Kentucky Power Company | 4/16/2022<br>4/29/2022   | 4/29/2022<br>5/12/2022   |                           | 5/6/2022<br>5/20/2022    | 7.00<br>7.00              | 7.00<br>8.00         | 12.73<br>0.00           | 26.73<br>15.00     | 0.042%<br>0.180%    | 0.01<br>0.03          |
| Kentucky Power Company                           | 4/29/2022                | 5/12/2022                | 2,662.70                  | 5/20/2022                | 7.00                      | 8.00                 | 12.73                   | 27.73              | 0.008%              | 0.00                  |
| Kentucky Power Company                           | 5/12/2022                | 5/13/2022                |                           | 5/12/2022                | 1.00                      | (1.00)<br>7.00       | 12.73                   | 12.73              | 0.003%              | 0.00                  |
| Kentucky Power Company<br>Kentucky Power Company | 4/30/2022<br>4/30/2022   | 5/13/2022<br>5/13/2022   |                           | 5/20/2022<br>5/20/2022   | 7.00<br>7.00              | 7.00                 | 12.73<br>0.00           | 26.73<br>14.00     | 0.042%<br>3.138%    | 0.01<br>0.44          |
| Kentucky Power Company                           | 5/13/2022                | 5/26/2022                | 2,354.51                  | 6/3/2022                 | 7.00                      | 8.00                 | 12.73                   | 27.73              | 0.007%              | 0.00                  |
| Kentucky Power Company<br>Kentucky Power Company | 5/13/2022<br>5/14/2022   | 5/26/2022<br>5/27/2022   |                           | 6/3/2022<br>6/3/2022     | 7.00<br>7.00              | 8.00<br>7.00         | 0.00                    | 15.00<br>14.00     | 0.159%<br>3.094%    | 0.02<br>0.43          |
| Kentucky Power Company                           | 5/14/2022                | 5/27/2022                | 17,295.78                 | 6/3/2022                 | 7.00                      | 7.00                 | 12.73                   | 26.73              | 0.054%              | 0.01                  |
| Kentucky Power Company<br>Kentucky Power Company | 5/27/2022                | 6/9/2022                 |                           | 6/17/2022<br>6/17/2022   | 7.00<br>7.00              | 8.00<br>8.00         | 0.00<br>12.73           | 15.00<br>27.73     | 0.174%              | 0.03<br>0.00          |
| Kentucky Power Company                           | 5/27/2022<br>5/28/2022   | 6/9/2022<br>6/10/2022    |                           | 6/17/2022                | 7.00                      | 7.00                 | 0.00                    | 14.00              | 0.007%<br>3.189%    | 0.45                  |
| Kentucky Power Company                           | 5/28/2022                | 6/10/2022                | 12,557.15                 | 6/17/2022                | 7.00                      | 7.00                 | 12.73                   | 26.73              | 0.039%              | 0.01                  |
| Kentucky Power Company<br>Kentucky Power Company | 6/10/2022<br>6/10/2022   | 6/23/2022<br>6/23/2022   |                           | 7/1/2022<br>7/1/2022     | 7.00<br>7.00              | 8.00<br>8.00         | 0.00<br>12.73           | 15.00<br>27.73     | 0.173%<br>0.008%    | 0.03                  |
| Kentucky Power Company                           | 6/11/2022                | 6/24/2022                | 1,206,978.88              | 7/1/2022                 | 7.00                      | 7.00                 | 0.00                    | 14.00              | 3.749%              | 0.52                  |
| Kentucky Power Company                           | 6/11/2022                | 6/24/2022                |                           | 7/1/2022                 | 7.00                      | 7.00                 | 12.73                   | 26.73              | 0.037%              | 0.01                  |
| Kentucky Power Company<br>Kentucky Power Company | 6/24/2022<br>6/24/2022   | 7/7/2022<br>7/7/2022     |                           | 7/15/2022<br>7/15/2022   | 7.00<br>7.00              | 8.00<br>8.00         | 12.73<br>0.00           | 27.73<br>15.00     | 0.008%<br>0.175%    | 0.00<br>0.03          |
| Kentucky Power Company                           | 6/25/2022                | 7/8/2022                 | 19,812.93                 | 7/15/2022                | 7.00                      | 7.00                 | 12.73                   | 26.73              | 0.062%              | 0.02                  |
| Kentucky Power Company<br>Kentucky Power Company | 6/25/2022<br>7/8/2022    | 7/8/2022<br>7/21/2022    |                           | 7/15/2022<br>7/29/2022   | 7.00<br>7.00              | 7.00<br>8.00         | 0.00<br>0.00            | 14.00<br>15.00     | 3.558%<br>0.204%    | 0.50<br>0.03          |
| Kentucky Power Company Kentucky Power Company    | 7/8/2022                 | 7/21/2022                |                           | 7/29/2022                | 7.00                      | 8.00                 | 12.73                   | 27.73              | 0.204%              | 0.03                  |
| Kentucky Power Company                           | 7/9/2022                 | 7/22/2022                | 1,186,253.89              | 7/29/2022                | 7.00                      | 7.00                 | 0.00                    | 14.00              | 3.684%              | 0.52                  |
| Kentucky Power Company<br>Kentucky Power Company | 7/9/2022<br>7/22/2022    | 7/22/2022<br>8/4/2022    |                           | 7/29/2022<br>8/12/2022   | 7.00<br>7.00              | 7.00<br>8.00         | 12.73<br>12.73          | 26.73<br>27.73     | 0.042%<br>0.008%    | 0.01<br>0.00          |
| Kentucky Power Company                           | 7/22/2022                | 8/4/2022                 | 61,417.72                 | 8/12/2022                | 7.00                      | 8.00                 | 0.00                    | 15.00              | 0.191%              | 0.03                  |
| Kentucky Power Company<br>Kentucky Power Company | 7/23/2022<br>7/23/2022   | 8/5/2022<br>8/5/2022     |                           | 8/12/2022<br>8/12/2022   | 7.00<br>7.00              | 7.00<br>7.00         | 12.73<br>0.00           | 26.73<br>14.00     | 0.031%<br>4.589%    | 0.01<br>0.64          |
| Kentucky Power Company                           | 8/5/2022                 | 8/18/2022                |                           | 8/26/2022                | 7.00                      | 8.00                 | 12.73                   | 27.73              | 0.008%              | 0.00                  |
| Kentucky Power Company                           | 8/5/2022                 | 8/18/2022                | 56,774.52                 | 8/26/2022                | 7.00                      | 8.00                 | 0.00                    | 15.00              | 0.176%              | 0.03                  |
| Kentucky Power Company                           | 8/6/2022                 | 8/19/2022                | 1,204,670.91              | 8/26/2022                | 7.00                      | 7.00                 | 0.00                    | 14.00              | 3.741%              | 0.52                  |

| Company                | Pay Period Begin | Pay Period End | Sum Net Pay      | Check Date | Midpoint of Pay<br>Period | Payment Lead<br>Time | Float Time (For<br>Checks) | Total Lead<br>Time | Weighting<br>Factor | Weighted<br>Lead Time |
|------------------------|------------------|----------------|------------------|------------|---------------------------|----------------------|----------------------------|--------------------|---------------------|-----------------------|
| Kentucky Power Company | 8/6/2022         | 8/19/2022      | 8,735.03         | 8/26/2022  | 7.00                      | 7.00                 | 12.73                      | 26.73              | 0.027%              | 0.01                  |
| Kentucky Power Company | 8/19/2022        | 9/1/2022       | 60,619.35        | 9/9/2022   | 7.00                      | 8.00                 | 0.00                       | 15.00              | 0.188%              | 0.03                  |
| Kentucky Power Company | 8/19/2022        | 9/1/2022       | 2,794.13         | 9/9/2022   | 7.00                      | 8.00                 | 12.73                      | 27.73              | 0.009%              | 0.00                  |
| Kentucky Power Company | 8/20/2022        | 9/2/2022       | 11,075.74        | 9/9/2022   | 7.00                      | 7.00                 | 12.73                      | 26.73              | 0.034%              | 0.01                  |
| Kentucky Power Company | 8/20/2022        | 9/2/2022       | 1,043,385.47     | 9/9/2022   | 7.00                      | 7.00                 | 0.00                       | 14.00              | 3.240%              | 0.45                  |
| Kentucky Power Company | 9/2/2022         | 9/15/2022      | 65,148.82        | 9/23/2022  | 7.00                      | 8.00                 | 0.00                       | 15.00              | 0.202%              | 0.03                  |
| Kentucky Power Company | 9/2/2022         | 9/15/2022      | 2,884.70         | 9/23/2022  | 7.00                      | 8.00                 | 12.73                      | 27.73              | 0.009%              | 0.00                  |
| Kentucky Power Company | 9/3/2022         | 9/16/2022      | 10,958.03        | 9/23/2022  | 7.00                      | 7.00                 | 12.73                      | 26.73              | 0.034%              | 0.01                  |
| Kentucky Power Company | 9/3/2022         | 9/16/2022      | 1,098,421.44     | 9/23/2022  | 7.00                      | 7.00                 | 0.00                       | 14.00              | 3.411%              | 0.48                  |
|                        |                  | _              |                  |            |                           |                      |                            |                    |                     |                       |
|                        |                  |                | \$ 32.198.810.39 |            |                           |                      |                            |                    |                     | 13.82                 |

#### KENTUCKY POWER COMPANY LEAD LAG STUDY OTHER O&M

Weighted Lead Time: 58.44 days

| Payment Method | Supplier Name   | Invoice Date             | Payment Date           | Invoice Amount   | Service Start<br>Date    | Service End<br>Date      | Service Lead<br>Time | Payment Lead<br>Time | Bank Float | Total Lead<br>Time | Weighting<br>Factor | Weighted<br>Lead Time |
|----------------|---|--------------------------|------------------------|------------------|--------------------------|--------------------------|----------------------|----------------------|------------|--------------------|---------------------|-----------------------|
| (A)            | (B)   | (C)                      | (D)                    | (E)              | (F)                      | (G)                      | (H)                  | (I)                  | (J)        | (K)                | (L)                 | (M)                   |
| EFT            | DS WATERS/CRYSTAL SPRINGS                                 | 11/28/2021               | 1/11/2022 \$           | 888.53           | 11/12/2021               | 11/12/2021               | 0.50                 | 60.00                | -          | 60.50              | 0.0486%             | 0.0294                |
| EFT<br>EFT     | SUPPLYPRO INC<br>ACTALENT SERVICES LLC                    | 9/30/2021<br>7/15/2022   |                        | 997.00<br>151.90 | 9/30/2021<br>6/5/2022    | 9/30/2021<br>6/11/2022   | 0.50<br>3.50         | 42.00<br>76.00       |            | 42.50<br>79.50     | 0.0546%             | 0.0232<br>0.0066      |
| EFT            | ITS TECHNOLOGIES INC                                      | 5/24/2022                |                        | 704.00           | 5/14/2022                | 5/20/2022                | 3.50                 | 41.00                |            | 44.50              | 0.0385%             | 0.0171                |
| EFT<br>EFT     | AIRGAS USA LLC<br>EQUIPMENT DEPOT                         | 5/9/2022<br>11/24/2021   |                        | 900.16<br>292.95 | 5/10/2022<br>11/16/2021  | 5/10/2022<br>11/16/2021  | 0.50<br>0.50         | 9.00<br>51.00        |            | 9.50<br>51.50      | 0.0493%<br>0.0160%  | 0.0047<br>0.0083      |
| EFT            | NATIONAL BUSINESS FURNITURE                               | 12/6/2021                | 1/19/2022              | 345.80           | 12/6/2021                | 12/6/2021                | 0.50                 | 44.00                |            | 44.50              | 0.0189%             | 0.0084                |
| EFT<br>FFT     | ITS TECHNOLOGIES INC<br>ASPLUNDH TREE EXPERT LLC          | 10/15/2021<br>2/5/2022   |                        | 880.00<br>454.45 | 10/9/2021<br>1/30/2022   | 10/15/2021<br>2/5/2022   | 3.50<br>3.50         | 39.00<br>44.00       |            | 42.50<br>47.50     | 0.0482%<br>0.0249%  | 0.0205<br>0.0118      |
| CHK            | CUMMINS INC   | 5/16/2022                |                        | 414.00           | 5/16/2022                | 5/16/2022                | 0.50                 | 45.00                | 12.73      | 58.23              | 0.0249%             | 0.0118                |
| EFT            | BOWLIN GROUP LLC  | 10/22/2021               |                        | 782.40           | 8/1/2021                 | 9/18/2021                | 24.50                | 95.00                | -          | 119.50             | 0.0428%             | 0.0512                |
| EFT<br>EFT     | GRAINGER<br>KING FILTRATION                               | 1/19/2022<br>9/8/2022    |                        | 183.30<br>163.52 | 1/19/2022<br>9/8/2022    | 1/19/2022<br>9/8/2022    | 0.50<br>0.50         | 176.00<br>7.00       |            | 176.50<br>7.50     | 0.0100%<br>0.0089%  | 0.0177<br>0.0007      |
| EFT            | PIPE-VALVES INC   | 7/21/2022                |                        | 871.45           | 9/21/2022                | 9/21/2022                | 0.50                 | (21.00)              | -          | (20.50)            | 0.0477%             | (0.0098)              |
| EFT<br>EFT     | UNICON INTERNATIONAL INC<br>UNICON INTERNATIONAL INC      | 12/20/2021<br>10/26/2021 | 1/27/2022<br>12/2/2021 | 276.00<br>345.60 | 12/14/2021<br>10/16/2021 | 12/20/2021<br>10/22/2021 | 3.50<br>3.50         | 38.00<br>41.00       | -          | 41.50<br>44.50     | 0.0151%<br>0.0189%  | 0.0063<br>0.0084      |
| EFT            | ALIMAK GROUP USA INC                                      | 10/27/2021               | 12/9/2021              | 459.00           | 10/22/2021               | 10/22/2021               | 0.50                 | 48.00                | -          | 48.50              | 0.0251%             | 0.0122                |
| EFT<br>EFT     | SELECT GROUP US LLC<br>UNITED RENTALS (NORTH AMERICA)     | 4/30/2022<br>4/30/2022   |                        | 192.00<br>438.00 | 4/11/2022<br>4/15/2022   | 4/24/2022<br>5/13/2022   | 7.00<br>14.50        | 50.00<br>31.00       | -          | 57.00<br>45.50     | 0.0105%<br>0.0240%  | 0.0060<br>0.0109      |
| EFT            | ATLAS STEEL & SUPPLY INC                                  | 10/25/2021               |                        | 713.60           | 10/25/2021               | 10/25/2021               | 0.50                 | 58.00                | -          | 58.50              | 0.0391%             | 0.0228                |
| CHK<br>EFT     | CRITICAL CONTROL ENERGY SERVICES INC                      | 4/8/2022<br>2/13/2022    |                        | 660.00<br>975.00 | 3/22/2022<br>2/5/2022    | 3/22/2022<br>2/11/2022   | 0.50                 | 62.00<br>41.00       | 12.73      | 75.23<br>44.50     | 0.0361%<br>0.0534%  | 0.0272<br>0.0237      |
| EFT            | XEROX CORP  | 4/9/2022                 |                        | 309.10           | 4/1/2022                 | 4/30/2022                | 3.50<br>15.00        | 23.00                | - :        | 38.00              | 0.0534%             | 0.0237                |
| EFT            | UNITED ELECTRIC   | 12/9/2021                | 1/20/2022              | 347.61           | 12/6/2021                | 12/12/2021               | 3.50                 | 39.00                | -          | 42.50              | 0.0190%             | 0.0081                |
| EFT<br>EFT     | ITS TECHNOLOGIES INC<br>NELSON TREE SERVICE LLC           | 5/20/2022<br>4/23/2022   |                        | 704.00<br>335.20 | 5/14/2022<br>4/17/2022   | 5/20/2022<br>4/23/2022   | 3.50<br>3.50         | 39.00<br>44.00       | -          | 42.50<br>47.50     | 0.0385%<br>0.0183%  | 0.0164<br>0.0087      |
| EFT            | CLEVELAND BROTHERS EQUIPMENT C                            | 1/5/2022                 | 8/24/2022              | 362.45           | 1/4/2022                 | 1/4/2022                 | 0.50                 | 232.00               | -          | 232.50             | 0.0198%             | 0.0461                |
| EFT<br>EFT     | MATHESON TRI-GAS INC<br>UNITED ELECTRIC                   | 2/14/2022<br>8/25/2022   |                        | 197.80<br>602.32 | 2/14/2022<br>8/22/2022   | 2/14/2022<br>8/28/2022   | 0.50<br>3.50         | 44.00<br>39.00       | -          | 44.50<br>42.50     | 0.0108%             | 0.0048<br>0.0140      |
| EFT            | SANITAS TECHNOLOGIES LLC                                  | 11/1/2021                |                        | 195.00           | 11/1/2021                | 11/30/2022               | 197.50               | (246.00)             | -          | (48.50)            | 0.0107%             | (0.0052)              |
| EFT<br>FFT     | UNIVERSAL INCORPORATED                                    | 3/21/2022                |                        | 766.00           | 3/16/2022                | 3/18/2022                | 1.50                 | 47.00                | -          | 48.50              | 0.0419%             | 0.0203                |
| EFT            | STRUCTSURE SCAFFOLD SOLUTIONS PEOPLEFACTS LLC             | 8/17/2022<br>2/28/2022   |                        | 686.00<br>153.00 | 8/2/2022<br>2/28/2022    | 8/10/2022<br>2/28/2022   | 4.50<br>0.50         | 50.00<br>28.00       | - :        | 54.50<br>28.50     | 0.0375%<br>0.0084%  | 0.0205<br>0.0024      |
| EFT            | BRANDSAFWAY INDUSTRIES LLC                                | 5/24/2022                |                        | 842.05           | 5/16/2022                | 5/22/2022                | 3.50                 | 46.00                | -          | 49.50              | 0.0461%             | 0.0228                |
| EFT<br>FFT     | ASPLUNDH TREE EXPERT LLC<br>STRUCTSURE SCAFFOLD SOLUTIONS | 10/23/2021<br>3/9/2022   |                        | 592.80<br>583.92 | 10/24/2021<br>2/28/2022  | 10/30/2021<br>3/6/2022   | 3.50<br>3.50         | 37.00<br>46.00       | - :        | 40.50<br>49.50     | 0.0324%             | 0.0131<br>0.0158      |
| EFT            | M L DILLON  | 2/21/2022                | 4/5/2022               | 621.42           | 2/21/2022                | 2/21/2022                | 0.50                 | 43.00                | -          | 43.50              | 0.0340%             | 0.0148                |
| EFT<br>EFT     | TESSCO INC<br>ENERFAB INC                                 | 4/2/2022<br>2/8/2022     |                        | 181.30<br>486.05 | 4/2/2022<br>1/29/2022    | 4/2/2022<br>2/4/2022     | 0.50<br>3.50         | 41.00<br>48.00       |            | 41.50<br>51.50     | 0.0099%             | 0.0041<br>0.0137      |
| EFT            | CANNON COCHRAN MANAGEMENT SERVICES INC                    | 4/5/2022                 | 4/6/2022               | 149.60           | 3/1/2022                 | 3/31/2022                | 15.50                | 6.00                 |            | 21.50              | 0.0082%             | 0.0018                |
| EFT            | BRANDSAFWAY INDUSTRIES LLC                                | 1/25/2022                |                        | 794.88           | 1/17/2022                | 1/23/2022                | 3.50                 | 46.00                | -          | 49.50              | 0.0435%             | 0.0215                |
| EFT<br>EFT     | S & C ELECTRIC CO<br>SUN TECHNICAL SERVICES INC           | 11/30/2021<br>3/25/2022  |                        | 972.30<br>845.85 | 11/30/2021<br>3/19/2022  | 11/30/2021<br>3/25/2022  | 0.50<br>3.50         | 44.00<br>39.00       |            | 44.50<br>42.50     | 0.0532%<br>0.0463%  | 0.0237<br>0.0197      |
| EFT            | BRANDSAFWAY INDUSTRIES LLC                                | 2/8/2022                 | 3/24/2022              | 654.11           | 1/31/2022                | 2/6/2022                 | 3.50                 | 46.00                | -          | 49.50              | 0.0358%             | 0.0177                |
| EFT<br>EFT     | EQUIPMENT DEPOT<br>HAMILTON, GEO V INC                    | 12/22/2021<br>6/14/2022  |                        | 322.72<br>167.05 | 11/10/2021<br>5/23/2022  | 11/10/2021<br>5/29/2022  | 0.50<br>3.50         | 85.00<br>25.00       |            | 85.50<br>28.50     | 0.0177%<br>0.0091%  | 0.0151<br>0.0026      |
| EFT            | TRI STATE TOOL & HOIST INC                                | 11/18/2021               | 11/23/2021             | 145.55           | 11/10/2021               | 11/10/2021               | 0.50                 | 13.00                | -          | 13.50              | 0.0080%             | 0.0011                |
| EFT<br>EFT     | CARMAN INDUSTRIES INC<br>BELLAIRE HARBOR SERVICES LLC     | 6/10/2022<br>7/1/2022    |                        | 236.45<br>379.34 | 5/11/2022<br>6/27/2022   | 5/11/2022<br>7/1/2022    | 0.50<br>2.50         | 131.00<br>19.00      | -          | 131.50<br>21.50    | 0.0129%<br>0.0208%  | 0.0170<br>0.0045      |
| EFT            | CANNON COCHRAN MANAGEMENT SERVICES INC                    | 5/6/2022                 |                        | 149.60           | 4/1/2022                 | 4/30/2022                | 15.00                | 10.00                | -          | 25.00              | 0.0208%             | 0.0043                |
| EFT            | TYNDALE COMPANY INC                                       | 2/3/2022                 |                        | 474.05           | 1/27/2022                | 1/31/2022                | 2.50                 | 45.00                | -          | 47.50              | 0.0259%             | 0.0123                |
| EFT<br>EFT     | BRANDSAFWAY INDUSTRIES LLC<br>SOLID WASTE SERVICES        | 3/29/2022<br>4/30/2022   |                        | 125.00<br>309.21 | 3/27/2022<br>4/1/2022    | 3/27/2022<br>4/30/2022   | 0.50<br>15.00        | 46.00<br>44.00       |            | 46.50<br>59.00     | 0.0068%             | 0.0032<br>0.0100      |
| EFT            | BRANDSAFWAY INDUSTRIES LLC                                | 8/10/2022                |                        | 779.55           | 8/1/2022                 | 8/7/2022                 | 3.50                 | 46.00                | -          | 49.50              | 0.0427%             | 0.0211                |
| EFT<br>EFT     | UNICON INTERNATIONAL INC<br>CLARK, AMANDA C               | 12/17/2021<br>3/31/2022  |                        | 198.00<br>325.26 | 12/11/2021<br>2/4/2022   | 12/17/2021<br>2/22/2022  | 3.50<br>9.50         | 39.00<br>38.00       |            | 42.50<br>47.50     | 0.0108%<br>0.0178%  | 0.0046<br>0.0085      |
| CHK            | TALANS SERVICE & PRODUCTS LLC                             | 2/22/2022                | 4/8/2022               | 900.00           | 2/17/2022                | 2/17/2022                | 0.50                 | 50.00                | 12.73      | 63.23              | 0.0493%             | 0.0311                |
| EFT<br>FFT     | AP SERVICES LLC<br>EMAR CORPORATION                       | 10/21/2021<br>9/8/2022   |                        | 199.74<br>650.00 | 10/21/2021<br>8/15/2022  | 10/21/2021<br>8/15/2022  | 0.50<br>0.50         | 41.00<br>66.00       |            | 41.50<br>66.50     | 0.0109%<br>0.0356%  | 0.0045<br>0.0237      |
| EFT            | ALBON MEADE & SONS CONST CO                               | 8/27/2021                |                        | 175.02           | 8/13/2021                | 8/13/2021                | 0.50                 | 56.00                | -          | 56.50              | 0.0096%             | 0.0054                |
| EFT<br>EFT     | ITS TECHNOLOGIES INC<br>TRI-STATE COATING & MACHINE CO    | 1/24/2022<br>6/14/2022   |                        | 880.00<br>175.00 | 1/15/2022<br>6/14/2022   | 1/21/2022<br>6/14/2022   | 3.50<br>0.50         | 41.00<br>44.00       |            | 44.50<br>44.50     | 0.0482%             | 0.0214<br>0.0043      |
| EFT            | ITS TECHNOLOGIES INC                                      | 7/17/2022                |                        | 880.00           | 7/9/2022                 | 7/15/2022                | 3.50                 | 41.00                | -          | 44.50              | 0.0482%             | 0.0214                |
| EFT<br>FFT     | BRANDSAFWAY INDUSTRIES LLC<br>ITS TECHNOLOGIES INC        | 8/10/2022<br>11/30/2021  | 9/22/2022              | 125.00<br>599.04 | 8/1/2022<br>11/20/2021   | 8/7/2022<br>11/26/2021   | 3.50<br>3.50         | 46.00<br>41.00       | -          | 49.50<br>44.50     | 0.0068%             | 0.0034<br>0.0146      |
| EFT            | BRANDSAFWAY INDUSTRIES LLC                                | 7/19/2022                |                        | 963.27           | 7/11/2022                | 7/17/2022                | 3.50                 | 46.00                | -          | 49.50              | 0.0527%             | 0.0261                |
| EFT            | METALTECH STEEL CORP                                      | 12/28/2021               |                        | 425.00           | 12/28/2021               | 12/28/2021               | 0.50                 | 44.00                | -          | 44.50              | 0.0233%             | 0.0103                |
| EFT<br>EFT     | SELECT GROUP US LLC<br>BRANDSAFWAY INDUSTRIES LLC         | 8/26/2022<br>5/17/2022   |                        | 217.00<br>125.00 | 8/13/2022<br>5/15/2022   | 8/19/2022<br>5/15/2022   | 3.50<br>0.50         | 46.00<br>46.00       | -          | 49.50<br>46.50     | 0.0119%<br>0.0068%  | 0.0059<br>0.0032      |
| EFT            | GRAY WOODS & COOPER                                       | 10/7/2021                | 11/4/2021              | 627.00           | 7/8/2021                 | 7/30/2021                | 11.50                | 97.00                | -          | 108.50             | 0.0343%             | 0.0372                |
| EFT<br>EFT     | UNITED RENTALS (NORTH AMERICA) EQUIPMENT & CONTROLS INC   | 5/28/2022<br>6/7/2022    |                        | 589.00<br>348.00 | 5/16/2022<br>6/7/2022    | 6/10/2022<br>6/7/2022    | 13.00<br>0.50        | 31.00<br>29.00       |            | 44.00<br>29.50     | 0.0322%<br>0.0190%  | 0.0142<br>0.0056      |
| EFT            | BRANDSAFWAY INDUSTRIES LLC                                | 3/8/2022                 | 4/21/2022              | 474.29           | 2/21/2022                | 2/27/2022                | 3.50                 | 53.00                | -          | 56.50              | 0.0260%             | 0.0147                |
| EFT<br>EFT     | ENERFAB INC<br>STEPTOE & JOHNSON                          | 6/15/2022<br>7/19/2022   |                        | 740.00<br>174.47 | 4/1/2022<br>5/1/2022     | 4/30/2022<br>6/21/2022   | 15.00<br>26.00       | 89.00<br>30.00       |            | 104.00<br>56.00    | 0.0405%<br>0.0095%  | 0.0421<br>0.0053      |
| EFT            | HAMILTON, GEO V INC                                       | 5/13/2022                |                        | 580.00           | 5/13/2022                | 5/13/2022                | 0.50                 | 7.00                 | -          | 7.50               | 0.0337%             | 0.0024                |
| EFT<br>EFT     | CHOCTAW-KAUL DISTRIBUTION COMP<br>MATHESON TRI-GAS INC    | 6/1/2022<br>7/25/2022    |                        | 386.63<br>817.58 | 6/1/2022<br>7/25/2022    | 6/1/2022<br>7/25/2022    | 0.50<br>0.50         | 43.00<br>44.00       | -          | 43.50<br>44.50     | 0.0212%<br>0.0447%  | 0.0092<br>0.0199      |
| EFT            | DS WATERS/CRYSTAL SPRINGS                                 | 5/28/2022                |                        | 723.27           | 4/8/2022                 | 5/12/2022                | 17.50                | 60.00                | -          | 77.50              | 0.0396%             | 0.0307                |
| EFT            | ENERFAB INC   | 12/9/2021                |                        | 159.21           | 11/20/2021               | 11/26/2021               | 3.50                 | 55.00                | -          | 58.50              | 0.0087%             | 0.0051                |
| EFT<br>EFT     | WOLSELEY INDUSTRIAL GROUP<br>JACKSON KELLY PLLC           | 7/7/2022<br>4/14/2022    |                        | 407.70<br>247.61 | 7/7/2022<br>3/8/2022     | 7/7/2022<br>3/31/2022    | 0.50<br>12.00        | 42.00<br>42.00       |            | 42.50<br>54.00     | 0.0223%<br>0.0135%  | 0.0095<br>0.0073      |
| EFT            | MATHESON TRI-GAS INC                                      | 3/10/2022                |                        | 150.00           | 2/25/2022                | 2/25/2022                | 0.50                 | 55.00                | -          | 55.50              | 0.0082%             | 0.0046                |
| EFT<br>EFT     | BRANDSAFWAY INDUSTRIES LLC<br>D-C FI EVATOR CO INC        | 10/27/2021<br>2/23/2022  |                        | 420.02<br>600.00 | 10/18/2021<br>2/11/2022  | 10/24/2021<br>2/11/2022  | 3.50<br>0.50         | 46.00<br>55.00       |            | 49.50<br>55.50     | 0.0230%             | 0.0114<br>0.0182      |
| EFT            | SELECT GROUP US LLC                                       | 8/8/2022                 | 9/15/2022              | 124.00           | 7/30/2022                | 8/5/2022                 | 3.50                 | 41.00                | -          | 44.50              | 0.0068%             | 0.0030                |
| EFT<br>FFT     | CHOCTAW-KAUL DISTRIBUTION COMP<br>HAMILTON, GEO V INC     | 6/2/2022<br>6/1/2022     |                        | 235.68<br>138.00 | 6/2/2022<br>6/1/2022     | 6/2/2022<br>6/1/2022     | 0.50<br>0.50         | 42.00<br>8.00        |            | 42.50<br>8.50      | 0.0129%<br>0.0076%  | 0.0055<br>0.0006      |
| EFT            | PRIMARY CARE CENTERS OF EASTERN KENTUCKY                  | 11/10/2021               | 12/2/2021              | 100.00           | 10/28/2021               | 10/28/2021               | 0.50                 | 35.00                | -          | 35.50              | 0.0055%             | 0.0019                |
| EFT<br>EFT     | UNICON INTERNATIONAL INC<br>ALIMAK GROUP USA INC          | 10/1/2021                |                        | 198.00<br>459.00 | 9/25/2021                | 10/1/2021                | 3.50<br>0.50         | 39.00<br>48.00       | -          | 42.50              | 0.0108%<br>0.0251%  | 0.0046                |
| EFT            | ITS TECHNOLOGIES INC                                      | 10/27/2021<br>10/8/2021  |                        | 825.00           | 10/2/2021                | 10/22/2021<br>10/8/2021  | 3.50                 | 39.00                | -          | 48.50<br>42.50     | 0.0251%             | 0.0122<br>0.0192      |
| EFT            | UNITED ELECTRIC   | 4/7/2022                 | 5/19/2022              | 104.40           | 4/4/2022                 | 4/10/2022                | 3.50                 | 39.00                | -          | 42.50              | 0.0057%             | 0.0024                |
| EFT<br>EFT     | WESCO DISTRIBUTION INC<br>UNITED ELECTRIC                 | 9/7/2022<br>10/21/2021   | 10/20/2022             | 104.60<br>472.69 | 9/6/2022<br>10/18/2021   | 9/6/2022<br>10/24/2021   | 0.50<br>3.50         | 44.00<br>39.00       | -          | 44.50<br>42.50     | 0.0057%<br>0.0259%  | 0.0025<br>0.0110      |
| EFT            | METALTECH STEEL CORP                                      | 12/22/2021               | 2/3/2022               | 169.00           | 12/22/2021               | 12/22/2021               | 0.50                 | 43.00                | -          | 43.50              | 0.0092%             | 0.0040                |
| EFT<br>EFT     | ANIXTER INC<br>NORTH LANE TECHNOLOGIES INC                | 3/15/2022<br>3/31/2022   |                        | 117.28<br>106.25 | 3/15/2022<br>3/1/2022    | 3/15/2022<br>3/31/2022   | 0.50<br>15.50        | 44.00<br>43.00       | •          | 44.50<br>58.50     | 0.0064%<br>0.0058%  | 0.0029<br>0.0034      |
| EFT            | UNITED ELECTRIC   | 2/10/2022                | 3/24/2022              | 319.36           | 2/7/2022                 | 2/13/2022                | 3.50                 | 39.00                | - :        | 42.50              | 0.0175%             | 0.0074                |
| EFT<br>EFT     | BRANDSAFWAY INDUSTRIES LLC<br>INDUSTRIAL SANITATION INC   | 8/10/2022<br>8/9/2022    |                        | 125.00<br>120.48 | 8/1/2022<br>8/9/2022     | 8/7/2022<br>9/5/2022     | 3.50<br>14.00        | 46.00<br>17.00       | -          | 49.50<br>31.00     | 0.0068%             | 0.0034<br>0.0020      |
| EFT EFT        | UNICON INTERNATIONAL INC                                  | 8/9/2022<br>9/12/2022    |                        | 120.48<br>322.00 | 8/9/2022<br>9/3/2022     | 9/9/2022                 | 14.00<br>3.50        | 17.00<br>41.00       | -          | 31.00<br>44.50     | 0.0066%             | 0.0020                |
| EFT            | ICE TRADE VAULT   | 4/5/2022                 | 4/29/2022              | 840.14           | 3/1/2022                 | 3/31/2022                | 15.50                | 29.00                | -          | 44.50              | 0.0460%             | 0.0205                |
| EFT<br>FFT     | BRANDSAFWAY INDUSTRIES LLC<br>ITS TECHNOLOGIES INC        | 2/22/2022<br>7/17/2022   |                        | 125.00<br>880.00 | 2/14/2022<br>7/9/2022    | 2/20/2022<br>7/15/2022   | 3.50<br>3.50         | 46.00<br>41.00       | -          | 49.50<br>44.50     | 0.0068%<br>0.0482%  | 0.0034<br>0.0214      |
| EFT            | HAMILTON, GEO V INC                                       | 11/8/2021                | 11/17/2021             | 877.60           | 10/25/2021               | 10/31/2021               | 3.50                 | 17.00                | -          | 20.50              | 0.0480%             | 0.0098                |
| EFT<br>EFT     | ENERFAB INC<br>STEPTOE & JOHNSON                          | 8/11/2022<br>7/15/2022   |                        | 826.97<br>712.00 | 7/25/2022<br>6/3/2022    | 7/29/2022<br>6/30/2022   | 2.50<br>14.00        | 55.00<br>42.00       | -          | 57.50<br>56.00     | 0.0453%             | 0.0260<br>0.0218      |
| EFT            | STRUCTSURE SCAFFOLD SOLUTIONS                             | 8/4/2022                 | 9/15/2022              | 308.62           | 7/24/2022                | 7/31/2022                | 4.00                 | 46.00                | -          | 50.00              | 0.0169%             | 0.0084                |
| EFT            | INDUSTRIAL SANITATION INC                                 | 11/30/2021               | 1/13/2022              | 330.00           | 11/30/2021               | 12/27/2021               | 14.00                | 17.00                | -          | 31.00              | 0.0181%             | 0.0056                |

|                       |  |                           |                            |                          | Service Start           |                          | Service Lead   | Payment Lead      |            | Total Lead      | Weighting          | Weighted            |
|-----------------------|--|---------------------------|----------------------------|--------------------------|-------------------------|--------------------------|----------------|-------------------|------------|-----------------|--------------------|---------------------|
| Payment Method<br>EFT | Supplier Name<br>HAMILTON, GEO V INC                         | Invoice Date<br>11/4/2021 | Payment Date<br>11/11/2021 | Invoice Amount<br>161.36 | Date<br>10/18/2021      | Date<br>10/24/2021       | Time<br>3.50   | Time<br>18.00     | Bank Float | Time<br>21.50   | Factor<br>0.0088%  | Lead Time<br>0.0019 |
| EFT                   | JOHNSON CONTROLS FIRE PROTECTI                               | 10/29/2021                | 3/7/2022                   | 487.74                   | 10/28/2021              | 10/28/2021               | 0.50           | 130.00            | -          | 130.50          | 0.0267%            | 0.0348              |
| EFT<br>EFT            | HUGHES NETWORK SYSTEMS POWER PRODUCTS INC                    | 12/1/2021<br>10/22/2021   | 1/3/2022<br>12/3/2021      | 266.70<br>119.72         | 12/1/2021<br>10/22/2021 | 12/31/2021<br>10/22/2021 | 15.50<br>0.50  | 3.00<br>42.00     | -          | 18.50<br>42.50  | 0.0146%<br>0.0066% | 0.0027<br>0.0028    |
| EFT                   | ITS TECHNOLOGIES INC   | 5/14/2022                 | 6/22/2022                  | 880.00                   | 5/7/2022                | 5/13/2022                | 3.50           | 40.00             | -          | 43.50           | 0.0482%            | 0.0209              |
| EFT<br>EFT            | PDBLOWERS INC<br>WESCO DISTRIBUTION INC                      | 8/2/2022<br>7/18/2022     | 9/15/2022<br>8/31/2022     | 668.00<br>215.52         | 8/2/2022<br>7/17/2022   | 8/2/2022<br>7/17/2022    | 0.50<br>0.50   | 44.00<br>45.00    | -          | 44.50<br>45.50  | 0.0366%<br>0.0118% | 0.0163<br>0.0054    |
| EFT<br>EFT            | UNITED ELECTRIC ITS TECHNOLOGIES INC                         | 12/3/2021<br>8/27/2022    | 1/14/2022                  | 501.51<br>879.60         | 11/29/2021<br>8/6/2022  | 12/5/2021<br>8/12/2022   | 3.50<br>3.50   | 40.00<br>54.00    | -          | 43.50<br>57.50  | 0.0274%<br>0.0481% | 0.0119<br>0.0277    |
| EFT                   | INDUSTRIAL SANITATION INC                                    | 10/5/2021                 | 11/18/2021                 | 300.00                   | 9/29/2021               | 11/1/2021                | 17.00          | 17.00             |            | 34.00           | 0.0461%            | 0.0277              |
| EFT<br>FFT            | ITS TECHNOLOGIES INC<br>OVERHEAD DOOR OF EASTERN             | 1/21/2022<br>2/10/2022    | 3/1/2022<br>4/22/2022      | 880.00<br>378.00         | 1/15/2022<br>2/7/2022   | 1/21/2022<br>2/7/2022    | 3.50<br>0.50   | 39.00<br>74.00    | -          | 42.50<br>74.50  | 0.0482%<br>0.0207% | 0.0205<br>0.0154    |
| EFT                   | COBERN, STEVI N  | 11/5/2021                 | 11/8/2021                  | 155.12                   | 10/19/2021              | 10/19/2021               | 0.50           | 20.00             |            | 20.50           | 0.0085%            | 0.0017              |
| EFT<br>EFT            | AIRGAS USA LLC<br>ITS TECHNOLOGIES INC                       | 3/11/2022<br>8/20/2022    | 3/21/2022<br>9/28/2022     | 714.51<br>880.00         | 2/19/2022<br>8/13/2022  | 2/19/2022<br>8/19/2022   | 0.50<br>3.50   | 30.00<br>40.00    | -          | 30.50<br>43.50  | 0.0391%<br>0.0482% | 0.0119<br>0.0209    |
| EFT                   | NELSON TREE SERVICE LLC                                      | 3/12/2022                 | 4/25/2022                  | 377.10                   | 3/6/2022                | 3/12/2022                | 3.50           | 44.00             | -          | 47.50           | 0.0206%            | 0.0098              |
| EFT<br>EFT            | NEUMANN H E CO<br>ASPLUNDH TREE EXPERT LLC                   | 12/1/2021<br>9/25/2021    | 1/13/2022<br>11/8/2021     | 284.66<br>850.90         | 11/17/2021<br>9/19/2021 | 11/17/2021<br>9/25/2021  | 0.50<br>3.50   | 57.00<br>44.00    | -          | 57.50<br>47.50  | 0.0156%<br>0.0466% | 0.0090<br>0.0221    |
| EFT                   | HAMILTON, GEO V INC  | 7/10/2022                 | 7/19/2022                  | 756.46                   | 6/27/2022               | 7/3/2022                 | 3.50           | 16.00             |            | 19.50           | 0.0414%            | 0.0081              |
| CHK<br>EFT            | CUMMINS INC<br>MPW ENVIRONMENTAL SERVICES                    | 2/12/2020<br>3/9/2022     | 6/2/2022<br>4/21/2022      | 357.00<br>554.64         | 2/12/2020<br>2/24/2022  | 2/12/2020<br>2/24/2022   | 0.50<br>0.50   | 841.00<br>56.00   | 12.73      | 854.23<br>56.50 | 0.0195%<br>0.0304% | 0.1669<br>0.0171    |
| EFT                   | SFS TOOLS & SAFETY   | 10/14/2021                | 11/23/2021                 | 177.80                   | 10/14/2021              | 10/14/2021               | 0.50           | 40.00             | -          | 40.50           | 0.0097%            | 0.0039              |
| EFT<br>EFT            | WESCO DISTRIBUTION INC<br>RELIABLE EQUIPMENT & SERVICE I     | 9/7/2022<br>5/6/2022      | 10/20/2022<br>6/17/2022    | 106.92<br>221.96         | 9/6/2022<br>4/29/2022   | 9/6/2022<br>4/29/2022    | 0.50<br>0.50   | 44.00<br>49.00    |            | 44.50<br>49.50  | 0.0059%<br>0.0121% | 0.0026<br>0.0060    |
| EFT                   | MOTION INDUSTRIES INC  | 3/14/2022                 | 4/27/2022                  | 125.20                   | 3/14/2022               | 3/14/2022                | 0.50           | 44.00             | -          | 44.50           | 0.0069%            | 0.0030              |
| EFT<br>EFT            | HAMILTON, GEO V INC<br>BRANDSAFWAY INDUSTRIES LLC            | 10/20/2021<br>1/11/2022   | 12/1/2021<br>2/24/2022     | 866.00<br>121.28         | 10/20/2021<br>1/3/2022  | 10/20/2021<br>1/9/2022   | 0.50<br>3.50   | 42.00<br>46.00    |            | 42.50<br>49.50  | 0.0474%            | 0.0201<br>0.0033    |
| CHK                   | BIG SANDY WATER DISTRICT                                     | 5/3/2022                  | 6/13/2022                  | 685.49                   | 4/4/2022                | 5/3/2022                 | 15.00          | 41.00             | 12.73      | 68.73           | 0.0375%            | 0.0258              |
| EFT<br>EFT            | STEPTOE & JOHNSON<br>ENERFAB INC                             | 5/19/2022<br>3/11/2022    | 6/3/2022<br>4/22/2022      | 560.87<br>265.35         | 3/1/2022<br>2/26/2022   | 4/30/2022<br>3/4/2022    | 30.50<br>3.50  | 34.00<br>49.00    | -          | 64.50<br>52.50  | 0.0307%<br>0.0145% | 0.0198<br>0.0076    |
| EFT                   | BRANDSAFWAY INDUSTRIES LLC                                   | 11/23/2021                | 1/6/2022                   | 550.00                   | 11/15/2021              | 11/21/2021               | 3.50           | 46.00             |            | 49.50           | 0.0301%            | 0.0149              |
| EFT<br>FFT            | HUGHES NETWORK SYSTEMS<br>GRAINGER                           | 1/1/2022<br>12/14/2021    | 1/19/2022<br>8/22/2022     | 257.40<br>253.23         | 1/1/2022<br>12/14/2021  | 1/31/2022<br>12/14/2021  | 15.50<br>0.50  | (12.00)<br>251.00 | -          | 3.50<br>251.50  | 0.0141%<br>0.0139% | 0.0005<br>0.0349    |
| EFT                   | ITS TECHNOLOGIES INC   | 8/6/2022                  | 9/14/2022                  | 880.00                   | 7/30/2022               | 8/5/2022                 | 3.50           | 40.00             |            | 43.50           | 0.0482%            | 0.0209              |
| EFT<br>EFT            | SECURITAS ELECTRONIC SECURITY                                | 7/26/2022                 | 9/8/2022<br>3/29/2022      | 108.58<br>998.40         | 7/26/2022<br>2/12/2022  | 7/26/2022<br>2/18/2022   | 0.50<br>3.50   | 44.00<br>39.00    | -          | 44.50<br>42.50  | 0.0059%            | 0.0026<br>0.0232    |
| EFT                   | ITS TECHNOLOGIES INC<br>UNICON INTERNATIONAL INC             | 2/18/2022<br>3/7/2022     | 4/13/2022                  | 322.00                   | 2/26/2022               | 3/4/2022                 | 3.50           | 40.00             |            | 43.50           | 0.0346%            | 0.0232              |
| EFT<br>EFT            | HAMILTON, GEO V INC<br>HACH CO                               | 7/19/2022                 | 8/3/2022<br>7/14/2022      | 140.30<br>184.36         | 7/4/2022<br>6/2/2022    | 7/10/2022                | 3.50<br>0.50   | 24.00<br>42.00    | -          | 27.50<br>42.50  | 0.0077%<br>0.0101% | 0.0021<br>0.0043    |
| EFT                   | BIG SANDY RURAL ELECTRIC COOP                                | 6/2/2022<br>4/1/2022      | 4/11/2022                  | 330.44                   | 3/1/2022                | 6/2/2022<br>4/1/2022     | 16.00          | 10.00             |            | 26.00           | 0.0101%            | 0.0043              |
| EFT<br>EFT            | ITS TECHNOLOGIES INC   | 4/26/2022<br>7/2/2022     | 6/2/2022<br>8/10/2022      | 880.00                   | 4/16/2022<br>7/2/2022   | 4/22/2022<br>7/8/2022    | 3.50<br>3.50   | 41.00             | -          | 44.50<br>36.50  | 0.0482%            | 0.0214<br>0.0160    |
| EFT                   | ITS TECHNOLOGIES INC   | 3/28/2022                 | 5/5/2022                   | 800.00<br>880.00         | 3/19/2022               | 3/25/2022                | 3.50           | 33.00<br>41.00    |            | 44.50           | 0.0436%            | 0.0160              |
| EFT<br>EFT            | EXXON MOBIL OIL CORPORATION                                  | 7/21/2022                 | 8/18/2022                  | 605.68                   | 7/21/2022               | 7/21/2022                | 0.50<br>0.50   | 28.00             | -          | 28.50           | 0.0331%            | 0.0094<br>0.0005    |
| EFT                   | KAHN, DEBRA L<br>SFS TOOLS & SAFETY                          | 8/9/2022<br>9/1/2022      | 8/10/2022<br>10/13/2022    | 133.75<br>144.77         | 8/3/2022<br>8/1/2022    | 8/3/2022<br>8/31/2022    | 15.50          | 7.00<br>43.00     |            | 7.50<br>58.50   | 0.0073%<br>0.0079% | 0.0005              |
| EFT<br>EFT            | ITS TECHNOLOGIES INC<br>HAMILTON, GEO V INC                  | 7/17/2022<br>2/11/2022    | 8/25/2022<br>2/18/2022     | 880.00<br>100.00         | 7/9/2022<br>1/24/2022   | 7/15/2022<br>1/30/2022   | 3.50<br>3.50   | 41.00<br>19.00    | -          | 44.50<br>22.50  | 0.0482%            | 0.0214<br>0.0012    |
| EFT                   | SFS TOOLS & SAFETY   | 2/1/2022                  | 3/17/2022                  | 381.79                   | 2/2/2022                | 2/2/2022                 | 0.50           | 43.00             |            | 43.50           | 0.0055%            | 0.0012              |
| EFT                   | XEROX CORP   | 6/11/2022                 | 7/25/2022                  | 299.74                   | 6/1/2022                | 6/30/2022                | 15.00          | 25.00             | -          | 40.00           | 0.0164%            | 0.0066              |
| EFT<br>EFT            | GLOBAL EQUIPMENT CO<br>ITS TECHNOLOGIES INC                  | 5/31/2022<br>8/8/2022     | 7/14/2022<br>9/15/2022     | 159.69<br>262.50         | 5/31/2022<br>7/30/2022  | 5/31/2022<br>8/5/2022    | 0.50<br>3.50   | 44.00<br>41.00    | -          | 44.50<br>44.50  | 0.0087%<br>0.0144% | 0.0039<br>0.0064    |
| EFT                   | ENERFAB INC  | 5/5/2022                  | 6/16/2022                  | 345.00                   | 4/25/2022               | 4/29/2022                | 2.50           | 48.00             | -          | 50.50           | 0.0189%            | 0.0095              |
| EFT<br>CHK            | SELECT GROUP US LLC<br>CUMMINS INC                           | 9/19/2022<br>3/17/2020    | 10/27/2022<br>6/6/2022     | 124.00<br>113.52         | 9/10/2022<br>3/17/2020  | 9/16/2022<br>3/17/2020   | 3.50<br>0.50   | 41.00<br>811.00   | 12.73      | 44.50<br>824.23 | 0.0068%<br>0.0062% | 0.0030<br>0.0512    |
| EFT                   | INDUSTRIAL SANITATION INC                                    | 11/23/2021                | 1/6/2022                   | 235.40                   | 11/1/2021               | 12/8/2021                | 19.00          | 29.00             | -          | 48.00           | 0.0129%            | 0.0062              |
| EFT<br>EFT            | WRIGHT TREE SVC<br>SPIRIT                                    | 12/4/2021<br>7/12/2022    | 1/27/2022<br>8/25/2022     | 550.45<br>839.13         | 11/28/2021<br>7/12/2022 | 12/4/2021<br>7/12/2022   | 3.50<br>0.50   | 54.00<br>44.00    | -          | 57.50<br>44.50  | 0.0301%<br>0.0459% | 0.0173<br>0.0204    |
| EFT                   | UNITED ELECTRIC  | 10/21/2021                | 12/2/2021                  | 624.90                   | 10/18/2021              | 10/24/2021               | 3.50           | 39.00             | -          | 42.50           | 0.0342%            | 0.0145              |
| EFT<br>EFT            | FORD, PAUL J & CO<br>SPIRIT                                  | 7/6/2022<br>3/1/2022      | 8/4/2022<br>8/10/2022      | 300.00<br>298.11         | 7/6/2022<br>3/1/2022    | 7/6/2022<br>3/1/2022     | 0.50<br>0.50   | 29.00<br>162.00   |            | 29.50<br>162.50 | 0.0164%<br>0.0163% | 0.0048<br>0.0265    |
| EFT<br>EFT            | HANNON ELECTRIC CO<br>HAMILTON, GEO V INC                    | 7/1/2022                  | 7/8/2022<br>5/20/2022      | 133.13                   | 7/1/2022<br>5/13/2022   | 7/1/2022<br>5/13/2022    | 0.50<br>0.50   | 7.00              | -          | 7.50            | 0.0073%<br>0.0140% | 0.0005<br>0.0010    |
| EFT                   | ITS TECHNOLOGIES INC   | 5/13/2022<br>6/3/2022     | 7/12/2022                  | 255.36<br>703.68         | 5/28/2022               | 6/3/2022                 | 3.50           | 7.00<br>39.00     |            | 7.50<br>42.50   | 0.0140%            | 0.0010              |
| EFT<br>FFT            | THINK POWER SOLUTIONS LLC<br>BRANDSAFWAY INDUSTRIES LLC      | 2/22/2022<br>3/22/2022    | 4/7/2022<br>5/5/2022       | 837.71<br>979.50         | 1/17/2022<br>3/14/2022  | 1/30/2022<br>3/20/2022   | 7.00<br>3.50   | 67.00<br>46.00    | -          | 74.00<br>49.50  | 0.0458%<br>0.0536% | 0.0339<br>0.0265    |
| EFT                   | FISHER SCIENTIFIC LLC  | 10/6/2021                 | 11/18/2021                 | 367.42                   | 10/5/2021               | 10/5/2021                | 0.50           | 44.00             |            | 49.50           | 0.0201%            | 0.0265              |
| EFT<br>EFT            | EQUIPMENT DEPOT<br>FRANKLIN IMAGING                          | 7/27/2021<br>7/5/2022     | 10/13/2021<br>8/3/2022     | 205.57<br>495.00         | 7/12/2021<br>6/1/2022   | 7/12/2021<br>6/30/2022   | 0.50<br>15.00  | 93.00<br>34.00    | -          | 93.50<br>49.00  | 0.0112%<br>0.0271% | 0.0105<br>0.0133    |
| EFT                   | DAVEY TREE EXPERT COMPANY                                    | 3/26/2022                 | 5/9/2022                   | 873.80                   | 3/20/2022               | 3/26/2022                | 3.50           | 44.00             |            | 47.50           | 0.0271%            | 0.0227              |
| EFT<br>EFT            | CAPITAL RESULTS<br>LHOIST NORTH AMERICA OF MISSOURI INC      | 2/19/2022<br>2/9/2022     | 3/9/2022<br>3/8/2022       | 2,975.00<br>5,474.56     | 1/1/2022<br>2/7/2021    | 1/31/2022<br>2/7/2021    | 15.50<br>0.50  | 37.00<br>394.00   | -          | 52.50<br>394.50 | 0.1628%<br>0.2996% | 0.0855<br>1.1819    |
| EFT                   | LHOIST NORTH AMERICA OF MISSOURI INC                         | 4/12/2021                 | 11/22/2021                 | 9,170.91                 | 4/1/2021                | 4/9/2021                 | 4.50           | 227.00            | -          | 231.50          | 0.5019%            | 1.1618              |
| EFT<br>EFT            | ENERFAB INC<br>ENERFAB INC                                   | 10/8/2021<br>6/16/2022    | 11/19/2021<br>7/28/2022    | 5,192.14<br>1.914.00     | 9/25/2021<br>6/6/2022   | 10/1/2021<br>6/10/2022   | 3.50<br>2.50   | 49.00<br>48.00    |            | 52.50<br>50.50  | 0.2841%<br>0.1047% | 0.1492<br>0.0529    |
| EFT                   | DAVEY TREE EXPERT COMPANY                                    | 7/2/2022                  | 9/14/2022                  | 1,448.70                 | 6/26/2022               | 7/2/2022                 | 3.50           | 74.00             |            | 77.50           | 0.0793%            | 0.0529              |
| EFT<br>EFT            | UNITED RENTALS (NORTH AMERICA) MATHESON TRI-GAS INC          | 8/26/2021<br>1/31/2022    | 10/27/2021<br>3/16/2022    | 2,752.68<br>1,493.03     | 7/28/2021<br>1/31/2022  | 8/25/2021<br>1/31/2022   | 14.50<br>0.50  | 63.00<br>44.00    |            | 77.50<br>44.50  | 0.1506%<br>0.0817% | 0.1167<br>0.0364    |
| EFT                   | STEPTOE & JOHNSON  | 1/19/2022                 | 2/17/2022                  | 1,162.80                 | 12/1/2021               | 12/29/2021               | 14.50          | 50.00             | -          | 64.50           | 0.0636%            | 0.0410              |
| EFT                   | JACKSON KELLY PLLC<br>UNIVAR SOLUTIONS USA INC               | 2/14/2022<br>12/8/2021    | 3/15/2022<br>2/17/2022     | 1,558.46<br>3.140.68     | 1/3/2022<br>12/8/2021   | 1/26/2022<br>12/8/2021   | 12.00<br>0.50  | 48.00<br>71.00    | -<br>12.73 | 60.00<br>84.23  | 0.0853%<br>0.1719% | 0.0512<br>0.1448    |
| EFT                   | STRUCTSURE SCAFFOLD SOLUTIONS                                | 1/5/2022                  | 2/17/2022                  | 1,302.72                 | 12/27/2021              | 1/2/2022                 | 3.50           | 46.00             | -          | 49.50           | 0.0713%            | 0.0353              |
| EFT<br>EFT            | ASPLUNDH TREE EXPERT LLC<br>MPW ENVIRONMENTAL SERVICES       | 3/19/2022<br>5/26/2022    | 5/20/2022<br>7/7/2022      | 3,608.23<br>3,645.60     | 3/13/2022<br>5/9/2022   | 3/19/2022<br>5/9/2022    | 3.50<br>0.50   | 62.00<br>59.00    | -          | 65.50<br>59.50  | 0.1975%<br>0.1995% | 0.1293<br>0.1187    |
| EFT                   | STEPTOE & JOHNSON  | 2/14/2022                 | 3/15/2022                  | 4,560.09                 | 1/1/2022                | 1/31/2022                | 15.50          | 43.00             |            | 58.50           | 0.1995%            | 0.1460              |
| EFT<br>FET            | NELSON TREE SERVICE LLC<br>ASPLUNDH TREE EXPERT LLC          | 12/31/2021<br>8/27/2022   | 2/11/2022<br>10/10/2022    | 5,742.40<br>2.041.00     | 12/26/2021              | 12/31/2021<br>8/27/2022  | 3.00<br>3.50   | 42.00<br>44.00    |            | 45.00<br>47.50  | 0.3142%<br>0.1117% | 0.1414<br>0.0531    |
| EFT                   | BRANDSAFWAY INDUSTRIES LLC                                   | 12/21/2021                | 2/3/2022                   | 1,021.93                 | 8/21/2022<br>12/6/2021  | 12/12/2021               | 3.50           | 53.00             | -          | 56.50           | 0.0559%            | 0.0316              |
| EFT<br>EFT            | COLEMAN LAWN & LANDSCAPING LLC<br>BRANDSAFWAY INDUSTRIES LLC | 6/1/2022                  | 7/21/2022<br>12/21/2021    | 2,137.01                 | 5/1/2022                | 5/24/2022<br>11/7/2021   | 12.00<br>3.50  | 58.00<br>44.00    | -          | 70.00<br>47.50  | 0.1169%<br>0.4155% | 0.0819<br>0.1973    |
| EFT                   | ENERFAB INC  | 11/9/2021<br>11/18/2021   | 12/29/2021                 | 7,592.23<br>1,419.15     | 11/1/2021<br>11/12/2021 | 11/12/2021               | 0.50           | 47.00             | -          | 47.50           | 0.0777%            | 0.0369              |
| EFT<br>EFT            | BRANDSAFWAY INDUSTRIES LLC<br>PVS CHEMICAL INC               | 8/31/2022                 | 10/13/2022<br>12/22/2021   | 1,190.84                 | 8/22/2022               | 8/28/2022                | 3.50<br>0.50   | 46.00<br>55.00    | -          | 49.50<br>55.50  | 0.0652%<br>0.2381% | 0.0323              |
| EFT                   | ENERFAB INC  | 10/28/2021<br>1/13/2022   | 2/24/2022                  | 4,351.57<br>4,372.19     | 10/28/2021<br>1/1/2022  | 10/28/2021<br>1/7/2022   | 3.50           | 48.00             |            | 55.50<br>51.50  | 0.2381%            | 0.1322<br>0.1232    |
| EFT                   | HAMILTON, GEO V INC  | 11/4/2021                 | 11/11/2021                 | 7,227.14                 | 10/18/2021              | 10/24/2021               | 3.50           | 18.00             | -          | 21.50           | 0.3955%            | 0.0850              |
| EFT<br>EFT            | EKATO INC MPW ENVIRONMENTAL SERVICES                         | 4/19/2022<br>7/7/2022     | 6/2/2022<br>8/18/2022      | 8,293.25<br>5,513.88     | 4/19/2022<br>6/20/2022  | 4/19/2022<br>6/24/2022   | 0.50<br>2.50   | 44.00<br>55.00    |            | 44.50<br>57.50  | 0.4538%<br>0.3017% | 0.2020<br>0.1735    |
| EFT                   | ACUITY LIGHTING GROUP  | 7/5/2022<br>4/23/2022     | 8/18/2022                  | 3,637.50                 | 7/5/2022<br>4/17/2022   | 7/5/2022                 | 0.50           | 44.00             | -          | 44.50           | 0.1991%            | 0.0886              |
| EFT<br>CHK            | ARBORMETRICS SOLUTIONS INC<br>GREENUP BEACON                 | 4/23/2022<br>9/29/2021    | 6/28/2022<br>10/27/2021    | 1,998.00<br>1,500.00     | 4/17/2022<br>1/1/2021   | 4/23/2022<br>12/31/2021  | 3.50<br>182.50 | 66.00<br>(65.00)  | 12.73      | 69.50<br>130.23 | 0.1093%<br>0.0821% | 0.0760<br>0.1069    |
|                       |  |                           |                            |                          |                         |                          |                |                   |            |                 |                    |                     |

|                       |  |                            |                            |                            | Service Start           |                          | Service Lead   |                   |            | Total Lead        | Weighting          | Weighted            |
|-----------------------|--|----------------------------|----------------------------|----------------------------|-------------------------|--------------------------|----------------|-------------------|------------|-------------------|--------------------|---------------------|
| Payment Method<br>EFT | Supplier Name<br>HAMILTON, GEO V INC                                 | Invoice Date<br>10/14/2021 | Payment Date<br>10/21/2021 | Invoice Amount<br>1,147.37 | Date<br>9/27/2021       | Date<br>10/3/2021        | Time<br>3.50   | Time<br>18.00     | Bank Float | Time<br>21.50     | Factor<br>0.0628%  | Lead Time<br>0.0135 |
| EFT                   | VEGA AMERICAS INC  | 10/26/2021                 | 12/9/2021                  | 2,607.00                   | 10/22/2021              | 10/22/2021               | 0.50           | 48.00             | -          | 48.50             | 0.1427%            | 0.0692              |
| EFT<br>EFT            | HURLEY ELECTRICAL CONTRACTING LLC<br>ENERFAB INC                     | 4/25/2022<br>9/30/2021     | 6/27/2022<br>11/11/2021    | 5,310.00<br>2,719.16       | 4/21/2022<br>9/30/2021  | 4/21/2022<br>9/30/2021   | 0.50<br>0.50   | 67.00<br>42.00    |            | 67.50<br>42.50    | 0.2906%<br>0.1488% | 0.1961<br>0.0632    |
| EFT<br>EFT            | ASPLUNDH TREE EXPERT LLC<br>SIEMENS INDUSTRY INC                     | 8/20/2022<br>1/27/2022     | 10/3/2022<br>3/10/2022     | 2,554.32<br>2,006.99       | 8/14/2022<br>1/21/2022  | 8/20/2022<br>1/21/2022   | 3.50<br>0.50   | 44.00<br>48.00    | -          | 47.50<br>48.50    | 0.1398%<br>0.1098% | 0.0664<br>0.0533    |
| EFT                   | EMAR CORPORATION   | 8/16/2022                  | 9/29/2022                  | 2,006.99                   | 8/11/2022               | 8/11/2022                | 0.50           | 48.00<br>49.00    |            | 48.50<br>49.50    | 0.1098%            | 0.0533              |
| EFT<br>EFT            | STAHURA CONVEYOR PRODUCTS INC<br>NORTHEAST KENTUCKY COMMUNITY ACTION | 2/17/2022<br>9/14/2022     | 3/11/2022<br>9/16/2022     | 2,492.00<br>8,710.51       | 2/17/2022<br>8/1/2022   | 2/17/2022<br>8/31/2022   | 0.50<br>15.50  | 22.00<br>16.00    | :          | 22.50<br>31.50    | 0.1364%<br>0.4767% | 0.0307<br>0.1501    |
| EFT                   | WRIGHT TREE SVC  | 2/19/2022                  | 4/4/2022                   | 4,387.70                   | 2/13/2022               | 2/19/2022                | 3.50           | 44.00             | - :        | 47.50             | 0.4767%            | 0.1141              |
| EFT<br>EFT            | MPW ENVIRONMENTAL SERVICES<br>LITMAN ENTERPRISES LLC                 | 4/14/2022<br>8/6/2021      | 5/26/2022<br>10/27/2021    | 2,617.20<br>1.275.00       | 3/22/2022<br>8/6/2021   | 3/24/2022<br>8/6/2021    | 1.50<br>0.50   | 63.00<br>82.00    | -          | 64.50<br>82.50    | 0.1432%<br>0.0698% | 0.0924<br>0.0576    |
| EFT                   | STRUCTSURE SCAFFOLD SOLUTIONS  | 12/22/2021                 | 2/3/2022                   | 1,275.00                   | 12/13/2021              | 12/19/2021               | 3.50           | 46.00             | - :        | 49.50             | 0.0686%            | 0.0339              |
| EFT<br>EFT            | REO PROCESSING INC<br>MANSFIELD OIL CORP                             | 3/1/2022<br>3/23/2022      | 6/1/2022<br>5/2/2022       | 1,645.12<br>7,913.99       | 3/1/2022<br>3/23/2022   | 3/31/2022<br>3/23/2022   | 15.50<br>0.50  | 62.00<br>40.00    | -          | 77.50<br>40.50    | 0.0900%<br>0.4331% | 0.0698<br>0.1754    |
| EFT                   | MATHESON TRI-GAS INC   | 6/30/2022                  | 9/19/2022                  | 1,332.37                   | 6/30/2022               | 6/30/2022                | 0.50           | 81.00             | -          | 81.50             | 0.0729%            | 0.0594              |
| EFT<br>EFT            | MOTION INDUSTRIES INC<br>ASPLUNDH TREE EXPERT LLC                    | 5/18/2022<br>7/9/2022      | 6/30/2022<br>8/22/2022     | 1,190.35<br>1.308.75       | 5/18/2022<br>7/3/2022   | 5/18/2022<br>7/9/2022    | 0.50<br>3.50   | 43.00<br>44.00    |            | 43.50<br>47.50    | 0.0651%<br>0.0716% | 0.0283<br>0.0340    |
| EFT                   | ALLIED UNIVERSAL SECURITY SERVICES                                   | 3/3/2022                   | 3/31/2022                  | 5,082.75                   | 2/18/2022               | 3/3/2022                 | 7.00           | 28.00             |            | 35.00             | 0.2781%            | 0.0973              |
| EFT<br>EFT            | NEUNDORFER INCORPORATED ITS TECHNOLOGIES INC                         | 2/21/2022<br>6/12/2022     | 4/6/2022<br>7/21/2022      | 6,885.00<br>1.000.00       | 2/21/2022<br>6/4/2022   | 2/21/2022<br>6/10/2022   | 0.50<br>3.50   | 44.00<br>41.00    |            | 44.50<br>44.50    | 0.3768%<br>0.0547% | 0.1677<br>0.0244    |
| EFT                   | DAVEY TREE EXPERT COMPANY  | 1/8/2022                   | 2/21/2022                  | 4,179.20                   | 1/2/2022                | 1/8/2022                 | 3.50           | 44.00             | -          | 47.50             | 0.2287%            | 0.1086              |
| EFT<br>EFT            | MPW ENVIRONMENTAL SERVICES BELLAIRE HARBOR SERVICES LLC              | 3/24/2022<br>6/17/2022     | 5/5/2022<br>7/6/2022       | 1,716.60<br>1,269.55       | 3/8/2022<br>6/13/2022   | 3/8/2022<br>6/17/2022    | 0.50<br>2.50   | 58.00<br>19.00    | - :        | 58.50<br>21.50    | 0.0939%            | 0.0550<br>0.0149    |
| EFT                   | DAVEY TREE EXPERT COMPANY  | 2/5/2022                   | 3/21/2022                  | 1,868.40                   | 1/30/2022               | 2/5/2022                 | 3.50           | 44.00             | -          | 47.50             | 0.1022%            | 0.0486              |
| EFT<br>EFT            | TYNDALE COMPANY INC<br>ENERFAB INC                                   | 12/3/2021<br>7/7/2022      | 3/25/2022<br>8/18/2022     | 1,091.80<br>1,435.50       | 11/30/2021<br>7/1/2022  | 11/30/2021<br>7/1/2022   | 0.50<br>0.50   | 115.00<br>48.00   |            | 115.50<br>48.50   | 0.0597%<br>0.0786% | 0.0690<br>0.0381    |
| EFT                   | TYNDALE COMPANY INC  | 7/3/2022                   | 8/16/2022                  | 1,687.90                   | 6/9/2022                | 7/1/2022                 | 11.50          | 46.00             | -          | 57.50             | 0.0924%            | 0.0531              |
| EFT<br>EFT            | HAMILTON, GEO V INC<br>ENERFAB INC                                   | 7/26/2022<br>2/8/2022      | 8/4/2022<br>3/24/2022      | 3,225.72<br>4,777.45       | 7/11/2022<br>1/29/2022  | 7/17/2022<br>2/4/2022    | 3.50<br>3.50   | 18.00<br>48.00    |            | 21.50<br>51.50    | 0.1765%<br>0.2614% | 0.0380<br>0.1346    |
| EFT                   | ENERFAB INC  | 1/20/2022                  | 3/3/2022                   | 5,450.57                   | 1/8/2022                | 1/14/2022                | 3.50           | 48.00             | -          | 51.50             | 0.2983%            | 0.1536              |
| EFT<br>EFT            | UNITED RENTALS (NORTH AMERICA) ASPLUNDH TREE EXPERT LLC              | 12/12/2021<br>3/5/2022     | 2/2/2022<br>4/18/2022      | 6,207.40<br>3.780.82       | 11/26/2021<br>2/27/2022 | 12/24/2021<br>3/5/2022   | 14.50<br>3.50  | 40.00<br>44.00    | -          | 54.50<br>47.50    | 0.3397%            | 0.1851<br>0.0983    |
| EFT                   | CROWN PRODUCTS & SERVICES LLC  | 5/18/2022                  | 6/30/2022                  | 3,300.00                   | 5/18/2022               | 5/18/2022                | 0.50           | 43.00             |            | 43.50             | 0.1806%            | 0.0786              |
| EFT<br>EFT            | STRUCTSURE SCAFFOLD SOLUTIONS MANSFIELD OIL CORP                     | 8/17/2022<br>1/16/2022     | 9/29/2022<br>1/28/2022     | 2,373.28<br>2,739.48       | 8/8/2022<br>1/16/2022   | 8/14/2022<br>1/16/2022   | 3.50<br>0.50   | 46.00<br>12.00    | -          | 49.50<br>12.50    | 0.1299%<br>0.1499% | 0.0643<br>0.0187    |
| EFT                   | MESA ASSOCIATES INC  | 10/22/2021                 | 12/3/2021                  | 1,194.92                   | 9/1/2021                | 9/30/2021                | 15.00          | 64.00             |            | 79.00             | 0.0654%            | 0.0517              |
| EFT<br>EFT            | TRC ENGINEERS INC BELLAIRE HARBOR SERVICES LLC                       | 10/23/2021<br>1/21/2022    | 12/6/2021<br>2/9/2022      | 1,966.25<br>1,903.82       | 10/17/2021<br>1/17/2022 | 10/23/2021<br>1/21/2022  | 3.50<br>2.50   | 44.00<br>19.00    | -          | 47.50<br>21.50    | 0.1076%<br>0.1042% | 0.0511<br>0.0224    |
| EFT                   | TRC ENVIRONMENTAL CORPORATION  | 3/18/2022                  | 4/29/2022                  | 1,795.29                   | 3/7/2022                | 3/11/2022                | 2.50           | 49.00             |            | 51.50             | 0.1042%            | 0.0224              |
| EFT                   | BRANDSAFWAY INDUSTRIES LLC<br>ASPLUNDH TREE EXPERT LLC               | 6/14/2022                  | 7/28/2022                  | 1,854.57                   | 6/6/2022                | 6/12/2022                | 3.50           | 46.00             | -          | 49.50             | 0.1015%            | 0.0502              |
| EFT<br>EFT            | NELSON TREE SERVICE LLC  | 8/27/2022<br>7/23/2022     | 10/10/2022<br>9/6/2022     | 2,304.70<br>1,721.16       | 8/21/2022<br>7/17/2022  | 8/27/2022<br>7/23/2022   | 3.50<br>3.50   | 44.00<br>45.00    | -          | 47.50<br>48.50    | 0.1261%<br>0.0942% | 0.0599<br>0.0457    |
| EFT                   | ASPLUNDH TREE EXPERT LLC   | 6/18/2022                  | 8/1/2022                   | 5,390.63                   | 6/12/2022               | 6/18/2022                | 3.50           | 44.00             | -          | 47.50             | 0.2950%            | 0.1401              |
| EFT<br>EFT            | STAHURA CONVEYOR PRODUCTS INC<br>MANSFIELD OIL CORP                  | 10/29/2021<br>2/21/2022    | 12/10/2021<br>5/2/2022     | 5,297.50<br>2,872.95       | 10/6/2021<br>2/21/2022  | 10/6/2021<br>2/21/2022   | 0.50<br>0.50   | 65.00<br>70.00    | -          | 65.50<br>70.50    | 0.2899%<br>0.1572% | 0.1899<br>0.1108    |
| EFT                   | GULF COASTAL SERVICES  | 11/30/2021                 | 1/13/2022                  | 3,950.00                   | 11/30/2021              | 11/30/2021               | 0.50           | 44.00             | -          | 44.50             | 0.2162%            | 0.0962              |
| EFT<br>EFT            | DAVEY TREE EXPERT COMPANY NALCO COMPANY LLC                          | 4/16/2022<br>5/12/2022     | 6/16/2022<br>6/23/2022     | 3,588.80<br>2.639.62       | 4/10/2022<br>5/12/2022  | 4/16/2022<br>5/12/2022   | 3.50<br>0.50   | 61.00<br>42.00    |            | 64.50<br>42.50    | 0.1964%<br>0.1444% | 0.1267<br>0.0614    |
| EFT                   | BELLAIRE HARBOR SERVICES LLC   | 2/11/2022                  | 3/2/2022                   | 1,260.65                   | 2/7/2022                | 2/11/2022                | 2.50           | 19.00             | -          | 21.50             | 0.0690%            | 0.0148              |
| EFT<br>EFT            | ITS TECHNOLOGIES INC<br>ASPLUNDH TREE EXPERT LLC                     | 8/6/2022<br>7/16/2022      | 9/14/2022<br>8/29/2022     | 1,037.16<br>8,820.99       | 7/30/2022<br>7/10/2022  | 8/5/2022<br>7/16/2022    | 3.50<br>3.50   | 40.00<br>44.00    |            | 43.50<br>47.50    | 0.0568%<br>0.4827% | 0.0247<br>0.2293    |
| EFT                   | BRANDSAFWAY INDUSTRIES LLC   | 7/19/2022                  | 9/2/2022                   | 3,192.30                   | 7/11/2022               | 7/17/2022                | 3.50           | 47.00             | -          | 50.50             | 0.1747%            | 0.0882              |
| EFT<br>EFT            | CRYOGENIC GAS ASPLUNDH TREE EXPERT LLC                               | 8/16/2021<br>10/30/2021    | 10/25/2021<br>12/13/2021   | 1,321.68<br>5.232.55       | 8/11/2021<br>12/17/2021 | 8/11/2021<br>12/23/2021  | 0.50<br>3.50   | 75.00<br>(10.00)  |            | 75.50<br>(6.50)   | 0.0723%<br>0.2863% | 0.0546<br>(0.0186)  |
| EFT                   | WRIGHT TREE SVC  | 7/23/2022                  | 9/6/2022                   | 1,391.80                   | 7/17/2022               | 7/23/2022                | 3.50           | 45.00             | -          | 48.50             | 0.0762%            | 0.0369              |
| EFT<br>EFT            | ALLIED UNIVERSAL SECURITY SERVICES UNITED RENTALS (NORTH AMERICA)    | 4/28/2022<br>6/26/2022     | 5/26/2022<br>8/9/2022      | 5,409.21<br>1.350.00       | 4/15/2022<br>6/10/2022  | 4/28/2022<br>7/8/2022    | 7.00<br>14.50  | 28.00<br>32.00    | -          | 35.00<br>46.50    | 0.2960%<br>0.0739% | 0.1036<br>0.0344    |
| EFT                   | ASPLUNDH TREE EXPERT LLC   | 6/25/2022                  | 8/17/2022                  | 1,532.10                   | 6/19/2022               | 6/25/2022                | 3.50           | 53.00             | -          | 56.50             | 0.0838%            | 0.0474              |
| EFT<br>EFT            | BEAR COMMUNICATIONS INC<br>UNITED ELECTRIC                           | 2/2/2022<br>9/30/2021      | 3/17/2022<br>11/11/2021    | 1,294.00<br>1,569.97       | 2/2/2022<br>9/27/2021   | 3/1/2022<br>10/3/2021    | 14.00<br>3.50  | 16.00<br>39.00    |            | 30.00<br>42.50    | 0.0708%<br>0.0859% | 0.0212<br>0.0365    |
| EFT                   | HAMILTON, GEO V INC  | 8/5/2022                   | 8/12/2022                  | 1,122.00                   | 8/4/2022                | 8/4/2022                 | 0.50           | 8.00              | -          | 8.50              | 0.0614%            | 0.0052              |
| EFT<br>EFT            | HAMILTON, GEO V INC<br>CHEMTREAT INC                                 | 12/21/2021<br>11/10/2021   | 12/30/2021<br>12/20/2021   | 4,209.98<br>8.232.00       | 12/6/2021<br>11/10/2021 | 12/12/2021<br>11/10/2021 | 3.50<br>0.50   | 18.00<br>40.00    | -          | 21.50<br>40.50    | 0.2304%<br>0.4505% | 0.0495<br>0.1824    |
| EFT                   | DAILY INDEPENDENT  | 5/31/2022                  | 6/30/2022                  | 1,200.00                   | 5/1/2022                | 5/31/2022                | 15.50          | 30.00             | -          | 45.50             | 0.0657%            | 0.0299              |
| EFT<br>EFT            | BELLAIRE HARBOR SERVICES LLC<br>STRUCTSURE SCAFFOLD SOLUTIONS        | 6/10/2022<br>3/11/2022     | 6/29/2022<br>4/22/2022     | 2,271.85<br>1,018.15       | 6/6/2022<br>2/28/2022   | 6/10/2022<br>3/6/2022    | 2.50<br>3.50   | 19.00<br>47.00    | -          | 21.50<br>50.50    | 0.1243%<br>0.0557% | 0.0267<br>0.0281    |
| EFT                   | ROADSAFE TRAFFIC SYSTEMS INC   | 10/16/2021                 | 11/29/2021                 | 4,075.00                   | 10/10/2021              | 10/16/2021               | 3.50           | 44.00             |            | 47.50             | 0.2230%            | 0.1059              |
| EFT<br>EFT            | UNITED ELECTRIC NELSON TREE SERVICE LLC                              | 12/30/2021<br>7/2/2022     | 2/10/2022<br>8/15/2022     | 2,021.25<br>7,082.00       | 12/27/2021<br>6/26/2022 | 1/2/2022<br>7/2/2022     | 3.50<br>3.50   | 39.00<br>44.00    | -          | 42.50<br>47.50    | 0.1106%<br>0.3875% | 0.0470<br>0.1841    |
| EFT                   | STRUCTSURE SCAFFOLD SOLUTIONS  | 5/5/2022                   | 6/16/2022                  | 4,283.25                   | 4/25/2022               | 5/1/2022                 | 3.50           | 46.00             |            | 49.50             | 0.2344%            | 0.1160              |
| EFT<br>EFT            | ASPLUNDH TREE EXPERT LLC<br>SERVICE PUMP & SUPPLY INC                | 4/9/2022<br>3/30/2022      | 5/23/2022<br>5/12/2022     | 1,983.01<br>2,180.00       | 4/3/2022<br>1/28/2022   | 4/9/2022<br>1/28/2022    | 3.50<br>0.50   | 44.00<br>104.00   | -          | 47.50<br>104.50   | 0.1085%<br>0.1193% | 0.0515<br>0.1247    |
| EFT                   | ARBORMETRICS SOLUTIONS INC   | 2/5/2022                   | 3/21/2022                  | 3,796.80                   | 1/30/2022               | 2/5/2022                 | 3.50           | 44.00             |            | 47.50             | 0.2078%            | 0.0987              |
| EFT<br>EFT            | ALLIED UNIVERSAL SECURITY SERVICES BRANDSAFWAY INDUSTRIES LLC        | 9/19/2021<br>3/14/2022     | 10/18/2021<br>4/27/2022    | 4,677.47<br>1,370.12       | 9/6/2021<br>3/7/2022    | 9/19/2021<br>3/13/2022   | 7.00<br>3.50   | 29.00<br>45.00    | -          | 36.00<br>48.50    | 0.2560%<br>0.0750% | 0.0921<br>0.0364    |
| EFT                   | ARBORMETRICS SOLUTIONS INC   | 8/27/2022                  | 10/10/2022                 | 1,943.61                   | 8/21/2022               | 8/27/2022                | 3.50           | 44.00             |            | 47.50             | 0.1064%            | 0.0505              |
| EFT<br>EFT            | STRUCTSURE SCAFFOLD SOLUTIONS MPW ENVIRONMENTAL SERVICES             | 2/23/2022<br>9/8/2022      | 4/7/2022<br>10/20/2022     | 1,183.92<br>1,822.80       | 2/14/2022<br>8/15/2022  | 2/20/2022<br>8/15/2022   | 3.50<br>0.50   | 46.00<br>66.00    | -          | 49.50<br>66.50    | 0.0648%<br>0.0997% | 0.0321<br>0.0663    |
| EFT                   | ENERFAB INC  | 3/25/2022                  | 5/6/2022                   | 1,327.15                   | 3/12/2022               | 3/12/2022                | 0.50           | 55.00             |            | 55.50             | 0.0726%            | 0.0403              |
| EFT                   | ARBORMETRICS SOLUTIONS INC   | 8/20/2022                  | 10/3/2022                  | 4,940.61                   | 8/14/2022               | 8/20/2022                | 3.50           | 44.00             | -          | 47.50             | 0.2704%            | 0.1284              |
| EFT<br>CHK            | DAVEY TREE EXPERT COMPANY<br>CAPITAL ELECTRIC                        | 6/18/2022<br>2/16/2022     | 8/1/2022<br>4/20/2022      | 2,209.60<br>1,408.00       | 6/12/2022<br>2/16/2022  | 6/18/2022<br>2/16/2022   | 3.50<br>0.50   | 44.00<br>63.00    | 12.73      | 47.50<br>76.23    | 0.1209%<br>0.0770% | 0.0574<br>0.0587    |
| EFT                   | CLEVELAND BROTHERS EQUIPMENT C                                       | 4/14/2022                  | 6/2/2022                   | 2,604.94                   | 2/24/2022               | 4/1/2022                 | 18.50          | 62.00             | -          | 80.50             | 0.1425%            | 0.1148              |
| EFT<br>EFT            | ASPLUNDH TREE EXPERT LLC ASPLUNDH TREE EXPERT LLC                    | 10/16/2021<br>12/11/2021   | 11/29/2021<br>1/24/2022    | 2,866.72<br>8,497.09       | 10/10/2021<br>12/5/2021 | 10/16/2021<br>12/11/2021 | 3.50<br>3.50   | 44.00<br>44.00    |            | 47.50<br>47.50    | 0.1569%<br>0.4650% | 0.0745<br>0.2209    |
| EFT                   | RAMBOLL US CONSULTING  | 5/19/2022                  | 6/30/2022                  | 2,200.00                   | 4/1/2022                | 4/30/2022                | 15.00          | 61.00             | -          | 76.00             | 0.1204%            | 0.0915              |
| EFT<br>EFT            | SUMMIT HELICOPTERS INC<br>ROADSAFE TRAFFIC SYSTEMS INC               | 6/28/2022<br>10/9/2021     | 9/15/2022<br>11/22/2021    | 3,530.00<br>3.056.25       | 6/26/2022<br>10/3/2021  | 6/27/2022<br>10/9/2021   | 1.00<br>3.50   | 80.00<br>44.00    | -          | 81.00<br>47.50    | 0.1932%<br>0.1672% | 0.1565<br>0.0794    |
| EFT                   | ARBORMETRICS SOLUTIONS INC   | 11/6/2021                  | 1/3/2022                   | 6,285.04                   | 10/31/2021              | 11/6/2021                | 3.50           | 58.00             | -          | 61.50             | 0.3439%            | 0.2115              |
| EFT<br>EFT            | DAVEY TREE EXPERT COMPANY<br>BRANDSAFWAY INDUSTRIES LLC              | 11/20/2021<br>8/18/2022    | 1/3/2022<br>9/29/2022      | 5,508.84<br>1,707.23       | 11/17/2021<br>8/8/2022  | 11/20/2021<br>8/14/2022  | 2.00<br>3.50   | 44.00<br>46.00    | -          | 46.00<br>49.50    | 0.3015%<br>0.0934% | 0.1387<br>0.0462    |
| EFT                   | NEUMANN H E CO   | 8/30/2022                  | 10/13/2022                 | 1,946.00                   | 8/26/2022               | 8/26/2022                | 0.50           | 48.00             | -          | 48.50             | 0.1065%            | 0.0516              |
| EFT<br>FFT            | BRANDSAFWAY INDUSTRIES LLC<br>BRANDSAFWAY INDUSTRIES LLC             | 7/26/2022<br>1/11/2022     | 9/8/2022<br>2/24/2022      | 1,328.11<br>3.318.71       | 7/18/2022<br>1/3/2022   | 7/24/2022<br>1/9/2022    | 3.50<br>3.50   | 46.00<br>46.00    | -          | 49.50<br>49.50    | 0.0727%<br>0.1816% | 0.0360<br>0.0899    |
| EFT                   | DAVEY TREE EXPERT COMPANY  | 4/30/2022                  | 6/13/2022                  | 1,931.60                   | 4/24/2022               | 4/30/2022                | 3.50           | 44.00             | -          | 47.50             | 0.1057%            | 0.0502              |
| EFT<br>EFT            | EMERSON PROCESS MANAGEMENT LLLP<br>BRANDSAFWAY INDUSTRIES LLC        | 3/10/2022<br>9/8/2021      | 4/21/2022<br>10/21/2021    | 8,686.96<br>3,825.71       | 3/10/2022<br>8/30/2021  | 12/31/2022<br>9/5/2021   | 148.50<br>3.50 | (254.00)<br>46.00 | -          | (105.50)<br>49.50 | 0.4754%<br>0.2094% | (0.5015)<br>0.1036  |
| EFT                   | ENERFAB INC  | 2/8/2022                   | 3/24/2022                  | 6,424.65                   | 1/29/2022               | 2/4/2022                 | 3.50           | 48.00             |            | 51.50             | 0.3516%            | 0.1811              |
| EFT                   | BRANDSAFWAY INDUSTRIES LLC   | 2/8/2022                   | 3/24/2022                  | 1,062.40                   | 1/31/2022               | 2/6/2022                 | 3.50           | 46.00             | -          | 49.50             | 0.0581%            | 0.0288              |

|                |  |                          |                         |                        | Service Start           | Service End             | Service Lead | Payment Lead   |            | Total Lead        | Weighting          | Weighted           |
|----------------|--|--------------------------|-------------------------|------------------------|-------------------------|-------------------------|--------------|----------------|------------|-------------------|--------------------|--------------------|
| Payment Method | Supplier Name                                  | Invoice Date             | Payment Date            | Invoice Amount         | Date                    | Date                    | Time         | Time           | Bank Float | Time              | Factor             | Lead Time          |
| EFT            | HITACHI ENERGY USA INC                         | 9/9/2021                 | 2/9/2022                | 4,541.66               | 9/9/2021                | 9/9/2021                | 0.50         | 153.00         | -          | 153.50            | 0.2485%            | 0.3815             |
| EFT            | HAMILTON, GEO V INC                            | 11/8/2021                | 11/17/2021              | 1,023.13               | 10/25/2021              | 10/31/2021              | 3.50         | 17.00          | -          | 20.50             | 0.0560%            | 0.0115             |
| EFT            | ASPLUNDH TREE EXPERT LLC                       | 7/2/2022                 |                         | 8,596.85               | 6/26/2022               | 7/2/2022                | 3.50         | 44.00          | -          | 47.50             | 0.4704%            | 0.2235             |
| EFT            | ALLIED UNIVERSAL SECURITY SERVICES             | 10/28/2021               |                         | 7,172.10               | 10/15/2021              | 10/28/2021              | 7.00         | 63.00          | -          | 70.00             | 0.3925%            | 0.2747             |
| EFT            | ENERFAB INC                                    | 3/11/2022<br>3/18/2022   |                         | 6,210.62<br>2,977.08   | 2/26/2022<br>3/18/2022  | 3/4/2022<br>3/18/2022   | 3.50<br>0.50 | 49.00          | -          | 52.50<br>7.50     | 0.3399%<br>0.1629% | 0.1784<br>0.0122   |
| EFT<br>EFT     | HANNON ELECTRIC CO<br>MOTION INDUSTRIES INC    | 9/30/2021                |                         | 3,730.30               | 9/30/2021               | 9/30/2022               | 0.50         | 7.00<br>42.00  | -          | 42.50             | 0.1629%            | 0.0122             |
| EFT            | HUGHES PRIMEAU CONTROLS                        | 12/28/2021               | 1/11/2022               | 2.247.75               | 1/5/2022                | 1/5/2022                | 0.50         | 6.00           |            | 6.50              | 0.1230%            | 0.0080             |
| CHK            | ADVANCED INDUSTRIAL PRODUCTS                   | 3/4/2022                 |                         | 1,060.00               | 3/4/2022                | 3/4/2022                | 0.50         | 45.00          | 12.73      | 58.23             | 0.0580%            | 0.0338             |
| EFT            | DAVEY TREE EXPERT COMPANY                      | 11/20/2021               | 1/13/2022               | 1.747.60               | 11/14/2021              | 11/20/2021              | 3.50         | 54.00          |            | 57.50             | 0.0956%            | 0.0550             |
| EFT            | GEOSYNTEC CONSULTANTS                          | 3/1/2022                 |                         | 5,254.85               | 1/1/2022                | 1/31/2022               | 15.50        | 72.00          | -          | 87.50             | 0.2876%            | 0.2516             |
| EFT            | ASPLUNDH TREE EXPERT LLC                       | 2/5/2022                 | 3/21/2022               | 1,790.07               | 1/30/2022               | 2/5/2022                | 3.50         | 44.00          | -          | 47.50             | 0.0980%            | 0.0465             |
| EFT            | ENERFAB INC                                    | 12/29/2021               | 2/10/2022               | 6,032.21               | 12/18/2021              | 12/24/2021              | 3.50         | 48.00          | -          | 51.50             | 0.3301%            | 0.1700             |
| EFT            | BERRY NETWORK INC                              | 6/10/2022                |                         | 1,084.46               | 5/1/2022                | 11/30/2023              | 289.50       | (533.00)       | -          | (243.50)          | 0.0593%            | (0.1445)           |
| EFT            | M&C PRODUCTS                                   | 6/2/2021                 | 2/22/2022               | 2,579.20               | 3/16/2021               | 3/16/2021               | 0.50         | 343.00         | -          | 343.50            | 0.1411%            | 0.4848             |
| CHK            | HARTFORD STEAM BOILER AND INSP                 | 4/8/2022                 |                         | 1,210.89               | 3/15/2022               | 3/15/2022               | 0.50         | 52.00          | 12.73      | 65.23             | 0.0663%            | 0.0432             |
| EFT            | BRANDSAFWAY INDUSTRIES LLC                     | 8/10/2022                |                         | 1,039.05               | 8/1/2022                | 8/7/2022                | 3.50         | 46.00          | -          | 49.50             | 0.0569%            | 0.0281             |
| EFT            | BELLAIRE HARBOR SERVICES LLC                   | 8/12/2022                |                         | 3,781.90               | 8/8/2022                | 8/12/2022               | 2.50         | 19.00          | -          | 21.50             | 0.2070%            | 0.0445             |
| EFT            | QUALITY ENVIRONMENTAL SERVICES                 | 6/1/2022                 |                         | 3,157.53               | 5/8/2022                | 5/14/2022               | 3.50         | 67.00          | -          | 70.50             | 0.1728%            | 0.1218             |
| EFT            | MPW ENVIRONMENTAL SERVICES                     | 12/22/2021               | 2/3/2022                | 2,431.62               | 12/9/2021               | 12/9/2021               | 0.50         | 56.00          | -          | 56.50             | 0.1331%            | 0.0752             |
| EFT            | DAVEY TREE EXPERT COMPANY                      | 10/30/2021               | 12/13/2021              | 1,868.40               | 10/26/2021              | 10/30/2021              | 2.50         | 44.00          | -          | 46.50             | 0.1022%            | 0.0475             |
| EFT            | UNITED ELECTRIC                                | 6/9/2022                 |                         | 6,576.50               | 6/6/2022                | 6/12/2022               | 3.50         | 47.00          | -          | 50.50             | 0.3599%            | 0.1817             |
| EFT            | NALCO COMPANY LLC                              | 1/31/2022                |                         | 36,673.20              | 1/31/2022               | 1/31/2022               | 0.50         | 44.00          |            | 44.50             | 2.0069%            | 0.8930             |
| CHK            | KENTUCKY CHAMBER OF COMMERCE                   | 12/30/2021<br>11/17/2021 | 1/3/2022                | 23,417.50              | 12/1/2021<br>10/30/2021 | 11/30/2022              | 182.50       | (331.00)       | 12.73      | (135.77)<br>87.50 | 1.2815%            | (1.7399)<br>1.2488 |
| EFT            | ENERFAB INC                                    |                          | 1/28/2022               | 26,081.40              |                         | 11/5/2021               | 3.50<br>3.50 | 84.00          | -          | 87.50<br>51.50    | 1.4272%            | 0.3535             |
| EFT<br>EFT     | ENERFAB INC<br>SUMMIT HELICOPTERS INC          | 11/4/2021<br>8/6/2022    |                         | 12,543.12<br>30,649.50 | 10/23/2021<br>7/31/2022 | 10/29/2021<br>8/6/2022  | 3.50         | 48.00<br>44.00 | -          | 47.50             | 0.6864%<br>1.6772% | 0.3535             |
| EFT            | ASPLUNDH TREE EXPERT LLC                       | 2/26/2022                |                         | 39,450,49              | 2/20/2022               | 2/26/2022               | 3.50         | 44.00          | -          | 47.50<br>47.50    | 2.1588%            | 1.0254             |
| EFT            | NELSON TREE SERVICE LLC                        | 7/23/2022                |                         | 10,669.20              | 7/17/2022               | 7/23/2022               | 3.50         | 41.00          | -          | 44.50             | 0.5838%            | 0.2598             |
| CHK            | UNIVAR SOLUTIONS USA INC                       | 2/11/2022                |                         | 10,230.00              | 2/11/2022               | 2/11/2022               | 0.50         | 45.00          | 12.73      | 58.23             | 0.5598%            | 0.3260             |
| EFT            | VALVE RECONDITIONING SERVICE C                 | 11/10/2021               | 12/21/2021              | 11,430.00              | 10/9/2021               | 11/21/2021              | 22.00        | 30.00          | 12.75      | 52.00             | 0.6255%            | 0.3252             |
| EFT            | JERGENS, R B CONTRACTORS INC                   | 5/19/2022                |                         | 10,588.72              | 4/1/2022                | 4/30/2022               | 15.00        | 61.00          |            | 76.00             | 0.5794%            | 0.4404             |
| EFT            | SOLVAY CHEMICALS INC                           | 12/31/2021               | 1/18/2022               | 13,584.79              | 12/20/2021              | 12/22/2021              | 1.50         | 27.00          |            | 28.50             | 0.7434%            | 0.2119             |
| EFT            | ENERFAB INC                                    | 12/29/2021               |                         | 14.814.60              | 12/18/2021              | 12/24/2021              | 3.50         | 48.00          | -          | 51.50             | 0.8107%            | 0.4175             |
| EFT            | JERGENS, R B CONTRACTORS INC                   | 11/12/2021               |                         | 11,698.61              | 10/1/2021               | 10/31/2021              | 15.50        | 52.00          | -          | 67.50             | 0.6402%            | 0.4321             |
| EFT            | ASPLUNDH TREE EXPERT LLC                       | 11/13/2021               | 1/3/2022                | 44,170,13              | 11/7/2021               | 11/13/2021              | 3.50         | 51.00          | -          | 54.50             | 2.4171%            | 1.3173             |
| EFT            | LHOIST NORTH AMERICA OF MISSOURI INC           | 6/20/2022                | 7/15/2022               | 15,943.09              | 6/17/2020               | 6/20/2022               | 367.00       | 25.00          | -          | 392.00            | 0.8724%            | 3.4200             |
| EFT            | ASPLUNDH TREE EXPERT LLC                       | 12/18/2021               | 1/31/2022               | 11,661.25              | 12/12/2021              | 12/18/2021              | 3.50         | 44.00          | -          | 47.50             | 0.6381%            | 0.3031             |
| EFT            | HAVERFIELD INTERNATIONAL INC                   | 12/15/2021               | 1/27/2022               | 18,190.72              | 2/19/2021               | 2/19/2021               | 0.50         | 342.00         | -          | 342.50            | 0.9954%            | 3.4094             |
| EFT            | UNITED ELECTRIC                                | 11/19/2021               | 12/30/2021              | 10,249.58              | 12/27/2021              | 1/2/2022                | 3.50         | (3.00)         | -          | 0.50              | 0.5609%            | 0.0028             |
| EFT            | ENERFAB INC                                    | 12/17/2021               | 1/28/2022               | 11,985.67              | 11/27/2021              | 12/3/2021               | 3.50         | 56.00          | -          | 59.50             | 0.6559%            | 0.3903             |
| CHK            | CASEY, LYNDI                                   | 4/8/2022                 |                         | 10,000.00              | 4/8/2022                | 4/8/2022                | 0.50         | 3.00           | 12.73      | 16.23             | 0.5472%            | 0.0888             |
| EFT            | AERIAL SOLUTIONS INC                           | 10/30/2021               |                         | 49,549.00              | 10/25/2021              | 10/31/2021              | 3.50         | 43.00          | -          | 46.50             | 2.7115%            | 1.2608             |
| EFT            | LHOIST NORTH AMERICA OF MISSOURI INC           | 1/26/2022                |                         | 11,038.85              | 1/21/2022               | 1/25/2022               | 2.50         | 28.00          | -          | 30.50             | 0.6041%            | 0.1842             |
| EFT            | NELSON TREE SERVICE LLC                        | 1/15/2022                |                         | 21,377.10              | 1/9/2022                | 1/15/2022               | 3.50         | 44.00          | -          | 47.50             | 1.1698%            | 0.5557             |
| CHK            | UNIVAR SOLUTIONS USA INC                       | 12/15/2021               |                         | 10,230.00              | 12/15/2021              | 12/15/2021              | 0.50         | 44.00          | 12.73      | 57.23             | 0.5598%            | 0.3204             |
| EFT            | CAPITAL RESULTS                                | 10/30/2021               | 1/3/2022                | 32,665.77              | 10/1/2021               | 10/31/2021              | 15.50        | 64.00          | -          | 79.50             | 1.7876%            | 1.4211             |
| EFT            | JERGENS, R B CONTRACTORS INC                   | 11/12/2021               |                         | 16,068.25              | 10/1/2021               | 10/31/2021              | 15.50        | 52.00          | -          | 67.50             | 0.8793%            | 0.5935             |
| EFT            | INDUSTRIAL HELICOPTERS INC                     | 5/21/2022                |                         | 10,860.00              | 5/15/2022               | 5/21/2022               | 3.50         | 41.00          | -          | 44.50             | 0.5943%            | 0.2645             |
| EFT            | PACE ANALYTICAL SERVICES LLC                   | 8/31/2022<br>12/6/2021   | 10/13/2022<br>1/19/2022 | 16,092.84<br>50,163.50 | 7/25/2022<br>10/25/2021 | 7/25/2022<br>11/12/2021 | 0.50<br>9.50 | 80.00          | -          | 80.50<br>77.50    | 0.8806%<br>2.7451% | 0.7089<br>2.1274   |
| EFT<br>EFT     | PORTERSVILLE PRD LLC<br>SUMMIT HELICOPTERS INC | 8/6/2022                 |                         | 50,595.75              | 7/31/2022               | 8/6/2022                | 3.50         | 68.00<br>53.00 | -          | 56.50             | 2.7451%            | 1.5643             |
| EFT            | AERIAL SOLUTIONS INC                           | 12/18/2021               | 1/31/2022               | 50,674.50              | 12/12/2021              | 12/18/2021              | 3.50         | 44.00          | -          | 47.50             | 2.7730%            | 1.3172             |
| EFT            | FISERV INC                                     | 7/11/2022                |                         | 51,003.66              | 6/1/2022                | 6/30/2022               | 15.00        | 14.00          | -          | 29.00             | 2.7730%            | 0.8094             |
| EFT            | HAVERFIELD INTERNATIONAL INC                   | 11/11/2021               |                         | 51,170.00              | 9/6/2021                | 9/8/2021                | 1.50         | 104.00         |            | 105.50            | 2.8002%            | 2.9542             |
| EFT            | ASPLUNDH TREE EXPERT LLC                       | 6/25/2022                |                         | 51,239.13              | 6/19/2022               | 6/25/2022               | 3.50         | 53.00          |            | 56.50             | 2.8039%            | 1.5842             |
| EFT            | AERIAL SOLUTIONS INC                           | 11/6/2021                |                         | 51,361.50              | 10/31/2021              | 11/6/2021               | 3.50         | 44.00          | -          | 47.50             | 2.8106%            | 1.3351             |
| EFT            | WRIGHT TREE SVC                                | 1/22/2022                |                         | 51,733.36              | 1/16/2022               | 1/22/2022               | 3.50         | 67.00          | _          | 70.50             | 2.8310%            | 1.9958             |
| EFT            | WRIGHT TREE SVC                                | 12/18/2021               |                         | 100,401.60             | 12/12/2021              | 12/18/2021              | 3.50         | 48.00          | -          | 51.50             | 5.4942%            | 2.8295             |
| EFT            | ASPLUNDH TREE EXPERT LLC                       | 12/25/2021               | 2/7/2022                | 101,097.04             | 12/19/2021              | 12/25/2021              | 3.50         | 44.00          | -          | 47.50             | 5.5323%            | 2.6278             |
| EFT            | ASPLUNDH TREE EXPERT LLC                       | 7/2/2022                 |                         | 101,269.26             | 6/26/2022               | 7/2/2022                | 3.50         | 44.00          | -          | 47.50             | 5.5417%            | 2.6323             |
|                |  |                          | _                       |                        |                         |                         |              |                |            |                   | _                  |                    |

\$ 1,827,397.74 58.4381

#### KENTUCKY POWER COMPANY LEAD LAG STUDY PURCHASED POWER

Weighted Lead Time: 27.92 days

| Supplier Name | Payment Date             | Invoice Amount               | Service Start Date     | Service End Date         | Service Lead Time | Payment Lead<br>Time | Total Lead<br>Time | Weighting<br>Factor  | Weighted<br>Lead Time | 413        |
|---------------|--------------------------|------------------------------|------------------------|--------------------------|-------------------|----------------------|--------------------|----------------------|-----------------------|------------|
| (A)<br>PJM    | (B)<br>11/15/2021 \$     | (C)<br>1,799,322.19          | (D)<br>10/1/2021       | (E)<br>10/31/2021        | (F)<br>15.50      | (G)<br>15.00         | (H)<br>30.50       | (I)<br>0.6411%       | (J)<br>0.1955         | (k)<br>ACT |
| PJM           | 11/15/2021               | 2,410,039.28                 | 10/1/2021              | 10/31/2021               | 15.50             | 15.00                | 30.50              | 0.8587%              | 0.2619                | ACT        |
| AEG           | 11/8/2021                | 2,372,238.19                 | 10/1/2021              | 10/31/2021               | 15.50             | 8.00                 | 23.50              | 0.8452%              | 0.1986                | N/A        |
| AEG<br>PJM    | 11/8/2021<br>11/15/2021  | 4,068,788.19<br>210.58       | 10/1/2021<br>10/1/2021 | 10/31/2021<br>10/31/2021 | 15.50<br>15.50    | 8.00<br>15.00        | 23.50<br>30.50     | 1.4497%<br>0.0001%   | 0.3407<br>0.0000      | N/A<br>ACT |
| PJM           | 11/15/2021               | 1,725.21                     | 10/1/2021              | 10/31/2021               | 15.50             | 15.00                | 30.50              | 0.0006%              | 0.0002                | ACT        |
| AEG           | 11/8/2021                | 17,905.00                    | 10/1/2021              | 10/31/2021               | 15.50             | 8.00                 | 23.50              | 0.0064%              | 0.0015                | N/A        |
| AEG           | 11/8/2021                | 93,946.00                    | 10/1/2021              | 10/31/2021               | 15.50             | 8.00                 | 23.50              | 0.0335%<br>-0.0568%  | 0.0079                | N/A        |
| AEG<br>AEG    | 11/8/2021<br>11/8/2021   | (159,500.00)<br>(102,602.00) | 10/1/2021<br>10/1/2021 | 10/31/2021<br>10/31/2021 | 15.50<br>15.50    | 8.00<br>8.00         | 23.50<br>23.50     | -0.0568%<br>-0.0366% | (0.0134)<br>(0.0086)  | N/A<br>N/A |
| PJM           | 11/15/2021               | 172,438.64                   | 10/1/2021              | 10/31/2021               | 15.50             | 15.00                | 30.50              | 0.0614%              | 0.0187                | ACT        |
| PJM           | 11/15/2021               | (115,587.33)                 | 10/1/2021              | 10/31/2021               | 15.50             | 15.00                | 30.50              | -0.0412%             | (0.0126)              | ACT        |
| PJM<br>PJM    | 11/15/2021<br>11/15/2021 | 70,815.60                    | 10/1/2021<br>10/1/2021 | 10/31/2021<br>10/31/2021 | 15.50<br>15.50    | 15.00<br>15.00       | 30.50<br>30.50     | 0.0252%<br>0.0000%   | 0.0077                | ACT<br>ACT |
| PJM<br>PJM    | 11/15/2021               | (0.02)<br>37,175.23          | 10/1/2021              | 10/31/2021               | 15.50             | 15.00                | 30.50              | 0.0000%              | (0.0000)<br>0.0040    | ACT        |
| PJM           | 11/15/2021               | 95.12                        | 10/1/2021              | 10/31/2021               |                   | 15.00                | 30.50              | 0.0000%              | 0.0000                | ACT        |
| PJM           | 11/15/2021               | (16,859.37)                  | 10/1/2021              | 10/31/2021               | 15.50             | 15.00                | 30.50              | -0.0060%             | (0.0018)              | ACT        |
| PJM<br>PJM    | 11/15/2021<br>11/15/2021 | (168.46)<br>1,522,395.19     | 10/1/2021<br>10/1/2021 | 10/31/2021<br>10/31/2021 | 15.50<br>15.50    | 15.00<br>15.00       | 30.50<br>30.50     | -0.0001%<br>0.5424%  | (0.0000)<br>0.1654    | ACT<br>ACT |
| PJM<br>PJM    | 11/15/2021               | 508,322.66                   | 10/1/2021              | 10/31/2021               | 15.50             | 15.00                | 30.50              | 0.1811%              | 0.0552                | ACT        |
| PJM           | 11/15/2021               | 27,120.23                    | 10/1/2021              | 10/31/2021               | 15.50             | 15.00                | 30.50              | 0.0097%              | 0.0029                | ACT        |
| PJM           | 11/15/2021               | 10,148.47                    | 10/1/2021              | 10/31/2021               | 15.50             | 15.00                | 30.50              | 0.0036%              | 0.0011                | ACT        |
| PJM<br>PJM    | 11/15/2021<br>11/15/2021 | 0.01<br>(2,678.17)           | 10/1/2021<br>10/1/2021 | 10/31/2021<br>10/31/2021 | 15.50<br>15.50    | 15.00<br>15.00       | 30.50<br>30.50     | 0.0000%<br>-0.0010%  | 0.0000 (0.0003)       | ACT<br>ACT |
| PJM           | 11/15/2021               | 9,770.03                     | 10/1/2021              | 10/31/2021               | 15.50             | 15.00                | 30.50              | 0.0035%              | 0.0011                | ACT        |
| PJM           | 11/15/2021               | 0.16                         | 10/1/2021              | 10/31/2021               | 15.50             | 15.00                | 30.50              | 0.0000%              | 0.0000                | ACT        |
| PJM           | 11/15/2021               | 1,355.99                     | 10/1/2021              | 10/31/2021               | 15.50             | 15.00                | 30.50              | 0.0005%              | 0.0001                | ACT        |
| PJM<br>PJM    | 11/15/2021<br>11/15/2021 | 472.14<br>9,375.17           | 10/1/2021<br>10/1/2021 | 10/31/2021<br>10/31/2021 | 15.50<br>15.50    | 15.00<br>15.00       | 30.50<br>30.50     | 0.0002%<br>0.0033%   | 0.0001<br>0.0010      | ACT<br>ACT |
| PJM           | 11/15/2021               | 30,006.55                    | 10/1/2021              | 10/31/2021               |                   | 15.00                | 30.50              | 0.0107%              | 0.0033                | ACT        |
| PJM           | 11/15/2021               | (68.03)                      | 10/1/2021              | 10/31/2021               | 15.50             | 15.00                | 30.50              | 0.0000%              | (0.0000)              | ACT        |
| PJM<br>PJM    | 11/15/2021<br>11/15/2021 | (2.06)<br>233,354.28         | 10/1/2021<br>10/1/2021 | 10/31/2021<br>10/31/2021 | 15.50<br>15.50    | 15.00<br>15.00       | 30.50<br>30.50     | 0.0000%<br>0.0831%   | (0.0000)<br>0.0254    | ACT<br>ACT |
| PJM           | 11/15/2021               | 15,358.75                    | 10/1/2021              | 10/31/2021               | 15.50             | 15.00                | 30.50              | 0.0055%              | 0.0254                | ACT        |
| PJM           | 11/15/2021               | 0.30                         | 10/1/2021              | 10/31/2021               | 15.50             | 15.00                | 30.50              | 0.0000%              | 0.0000                | ACT        |
| PJM           | 11/15/2021               | 45,245.95                    | 10/1/2021              | 10/31/2021               |                   | 15.00                | 30.50              | 0.0161%              | 0.0049                | ACT        |
| PJM           | 11/15/2021<br>11/15/2021 | (446.39)<br>560,238.30       | 10/1/2021<br>10/1/2021 | 10/31/2021<br>10/31/2021 | 15.50<br>15.50    | 15.00<br>15.00       | 30.50<br>30.50     | -0.0002%<br>0.1996%  | (0.0000)<br>0.0609    | ACT<br>ACT |
| PJM<br>PJM    | 11/15/2021               | (207,221.69)                 | 10/1/2021              | 10/31/2021               | 15.50             | 15.00                | 30.50              | -0.0738%             | (0.0225)              | ACT        |
| PJM           | 11/15/2021               | (560,237.40)                 | 10/1/2021              | 10/31/2021               | 15.50             | 15.00                | 30.50              | -0.1996%             | (0.0609)              | ACT        |
| PJM           | 11/15/2021               | (25,281.79)                  | 10/1/2021              | 10/31/2021               |                   | 15.00                | 30.50              | -0.0090%             | (0.0027)              | ACT        |
| PJM<br>PJM    | 11/15/2021<br>11/15/2021 | (179.08)<br>(903.17)         | 10/1/2021<br>10/1/2021 | 10/31/2021<br>10/31/2021 | 15.50<br>15.50    | 15.00<br>15.00       | 30.50<br>30.50     | -0.0001%<br>-0.0003% | (0.0000)<br>(0.0001)  | ACT<br>ACT |
| PJM           | 11/15/2021               | 795,067.61                   | 10/1/2021              | 10/31/2021               | 15.50             | 15.00                | 30.50              | 0.2833%              | 0.0864                | ACT        |
| PJM           | 11/15/2021               | (43,596.78)                  | 10/1/2021              | 10/31/2021               | 15.50             | 15.00                | 30.50              | -0.0155%             | (0.0047)              | ACT        |
| PJM           | 11/15/2021               | (0.53)                       | 10/1/2021              | 10/31/2021               | 15.50             | 15.00                | 30.50              | 0.0000%              | (0.0000)              | ACT        |
| PJM<br>PJM    | 11/15/2021<br>11/15/2021 | (177,400.41)<br>(500.82)     | 10/1/2021<br>10/1/2021 | 10/31/2021<br>10/31/2021 | 15.50<br>15.50    | 15.00<br>15.00       | 30.50<br>30.50     | -0.0632%<br>-0.0002% | (0.0193)<br>(0.0001)  | ACT<br>ACT |
| PJM           | 11/15/2021               | (217.09)                     | 10/1/2021              | 10/31/2021               | 15.50             | 15.00                | 30.50              | -0.0001%             | (0.0000)              | ACT        |
| PJM           | 11/15/2021               | 1,109,577.80                 | 10/1/2021              | 10/31/2021               | 15.50             | 15.00                | 30.50              | 0.3953%              | 0.1206                | ACT        |
| PJM<br>PJM    | 11/15/2021<br>11/15/2021 | 11,813,951.77<br>495,954.44  | 10/1/2021<br>10/1/2021 | 10/31/2021<br>10/31/2021 | 15.50<br>15.50    | 15.00<br>15.00       | 30.50<br>30.50     | 4.2093%<br>0.1767%   | 1.2838<br>0.0539      | ACT<br>ACT |
| AEG           | 12/8/2021                | 1,358,631.05                 | 11/1/2021              | 11/30/2021               | 15.00             | 8.00                 | 23.00              | 0.4841%              | 0.0539                | N/A        |
| AEG           | 12/8/2021                | 3,789,987.05                 | 11/1/2021              | 11/30/2021               | 15.00             | 8.00                 | 23.00              | 1.3504%              | 0.3106                | N/A        |
| PJM           | 12/15/2021               | (118.66)                     | 11/1/2021              | 11/30/2021               | 15.00             | 15.00                | 30.00              | 0.0000%              | (0.0000)              | ACT        |
| PJM<br>AEG    | 12/15/2021<br>12/8/2021  | (1,893.90)<br>33,067.00      | 11/1/2021<br>11/1/2021 | 11/30/2021<br>11/30/2021 | 15.00<br>15.00    | 15.00<br>8.00        | 30.00<br>23.00     | -0.0007%<br>0.0118%  | (0.0002)<br>0.0027    | ACT<br>N/A |
| AEG           | 12/8/2021                | 44,334.00                    | 11/1/2021              | 11/30/2021               | 15.00             | 8.00                 | 23.00              | 0.0118%              | 0.0027                | N/A        |
| AEG           | 12/8/2021                | 11,605.00                    | 11/1/2021              | 11/30/2021               | 15.00             | 8.00                 | 23.00              | 0.0041%              | 0.0010                | N/A        |
| PJM           | 12/15/2021               | 178,604.02                   | 11/1/2021              | 11/30/2021               | 15.00             | 15.00                | 30.00              | 0.0636%              | 0.0191                | ACT        |
| PJM<br>PJM    | 12/15/2021<br>12/15/2021 | (119,572.89)<br>71,915.04    | 11/1/2021<br>11/1/2021 | 11/30/2021<br>11/30/2021 | 15.00<br>15.00    | 15.00<br>15.00       | 30.00<br>30.00     | -0.0426%<br>0.0256%  | (0.0128)<br>0.0077    | ACT<br>ACT |
| PJM           | 12/15/2021               | 106,313.69                   | 11/1/2021              | 11/30/2021               | 15.00             | 15.00                | 30.00              | 0.0379%              | 0.0114                | ACT        |
| PJM           | 12/15/2021               | 30.62                        | 11/1/2021              | 11/30/2021               | 15.00             | 15.00                | 30.00              | 0.0000%              | 0.0000                | ACT        |
| PJM           | 12/15/2021               | (13,409.78)                  | 11/1/2021              | 11/30/2021               | 15.00             | 15.00                | 30.00              | -0.0048%             | (0.0014)              | ACT        |
| PJM<br>PJM    | 12/15/2021<br>12/15/2021 | (24.41)<br>283.124.03        | 11/1/2021<br>11/1/2021 | 11/30/2021<br>11/30/2021 |                   | 15.00<br>15.00       | 30.00<br>30.00     | 0.0000%<br>0.1009%   | (0.0000)<br>0.0303    | ACT<br>ACT |
| PJM           | 12/15/2021               | 1,018,018.41                 | 11/1/2021              | 11/30/2021               |                   | 15.00                | 30.00              | 0.3627%              | 0.1088                | ACT        |
| PJM           | 12/15/2021               | 72,729.53                    | 11/1/2021              | 11/30/2021               |                   | 15.00                | 30.00              | 0.0259%              | 0.0078                | ACT        |
| PJM           | 12/15/2021               | 10,882.71                    | 11/1/2021<br>11/1/2021 | 11/30/2021               | 15.00             | 15.00                | 30.00              | 0.0039%              | 0.0012                | ACT        |
| PJM<br>PJM    | 12/15/2021<br>12/15/2021 | (114.01)<br>(3,370.37)       | 11/1/2021              | 11/30/2021<br>11/30/2021 | 15.00<br>15.00    | 15.00<br>15.00       | 30.00<br>30.00     | -0.0012%             | (0.0000)<br>(0.0004)  | ACT<br>ACT |
| PJM           | 12/15/2021               | 3,183.14                     | 11/1/2021              | 11/30/2021               |                   | 15.00                | 30.00              | 0.0011%              | 0.0003                | ACT        |
| PJM           | 12/15/2021               | 658.76                       | 11/1/2021              | 11/30/2021               | 15.00             | 15.00                | 30.00              | 0.0002%              | 0.0001                | ACT        |
| PJM<br>PJM    | 12/15/2021<br>12/15/2021 | 405.25<br>2,423.92           | 11/1/2021<br>11/1/2021 | 11/30/2021<br>11/30/2021 | 15.00<br>15.00    | 15.00<br>15.00       | 30.00<br>30.00     | 0.0001%<br>0.0009%   | 0.0000<br>0.0003      | ACT<br>ACT |
| PJM           | 12/15/2021               | 49,071.85                    | 11/1/2021              | 11/30/2021               | 15.00             | 15.00                | 30.00              | 0.0175%              | 0.0052                | ACT        |
| PJM           | 12/15/2021               | 1,254.45                     | 11/1/2021              | 11/30/2021               | 15.00             | 15.00                | 30.00              | 0.0004%              | 0.0001                | ACT        |
| PJM           | 12/15/2021               | (1.14)                       | 11/1/2021              | 11/30/2021               | 15.00             | 15.00                | 30.00              | 0.0000%              | (0.0000)              | ACT        |
| PJM<br>PJM    | 12/15/2021<br>12/15/2021 | 148.16<br>701,264.09         | 11/1/2021<br>11/1/2021 | 11/30/2021<br>11/30/2021 |                   | 15.00<br>15.00       | 30.00<br>30.00     | 0.0001%<br>0.2499%   | 0.0000<br>0.0750      | ACT<br>ACT |
| PJM           | 12/15/2021               | 9,071.07                     | 11/1/2021              | 11/30/2021               | 15.00             | 15.00                | 30.00              | 0.0032%              | 0.0010                | ACT        |
| PJM           | 12/15/2021               | (0.88)                       | 11/1/2021              | 11/30/2021               | 15.00             | 15.00                | 30.00              | 0.0000%              | (0.0000)              | ACT        |
| PJM           | 12/15/2021               | 90,557.64<br>(1,625.55)      | 11/1/2021              | 11/30/2021               | 15.00             | 15.00                | 30.00              | 0.0323%              | 0.0097                | ACT        |
| PJM<br>PJM    | 12/15/2021<br>12/15/2021 | (43,684.19)                  | 11/1/2021<br>11/1/2021 | 11/30/2021<br>11/30/2021 |                   | 15.00<br>15.00       | 30.00<br>30.00     | -0.0006%<br>-0.0156% | (0.0002)<br>(0.0047)  | ACT<br>ACT |
| PJM           | 12/15/2021               | 578,912.91                   | 11/1/2021              | 11/30/2021               |                   | 15.00                | 30.00              | 0.2063%              | 0.0619                | ACT        |
| PJM           | 12/15/2021               | (571,532.34)                 | 11/1/2021              | 11/30/2021               |                   | 15.00                | 30.00              | -0.2036%             | (0.0611)              | ACT        |
| PJM<br>PJM    | 12/15/2021<br>12/15/2021 | (578,911.98)<br>(12.43)      | 11/1/2021<br>11/1/2021 | 11/30/2021<br>11/30/2021 | 15.00<br>15.00    | 15.00<br>15.00       | 30.00<br>30.00     | -0.2063%<br>0.0000%  | (0.0619)<br>(0.0000)  | ACT<br>ACT |
| PJM           | 12/15/2021               | (3,095.72)                   | 11/1/2021              | 11/30/2021               |                   | 15.00                | 30.00              | -0.0011%             | (0.0003)              | ACT        |
| PJM           | 12/15/2021               | 675,843.68                   | 11/1/2021              | 11/30/2021               | 15.00             | 15.00                | 30.00              | 0.2408%              | 0.0722                | ACT        |
| PJM           | 12/15/2021               | (40,603.81)                  | 11/1/2021              | 11/30/2021               | 15.00             | 15.00                | 30.00              | -0.0145%             | (0.0043)              | ACT        |
| PJM<br>PJM    | 12/15/2021<br>12/15/2021 | (0.81)<br>(210,851.50)       | 11/1/2021<br>11/1/2021 | 11/30/2021<br>11/30/2021 |                   | 15.00<br>15.00       | 30.00<br>30.00     | 0.0000%<br>-0.0751%  | (0.0000)<br>(0.0225)  | ACT<br>ACT |
| PJM           | 12/15/2021               | (38.36)                      | 11/1/2021              | 11/30/2021               |                   | 15.00                | 30.00              | 0.0000%              | (0.0000)              | ACT        |
| PJM           | 1/15/2022                | 2,791,744.66                 | 12/1/2021              | 12/31/2021               | 15.50             | 15.00                | 30.50              | 0.9947%              | 0.3034                | ACT        |
| PJM           | 1/15/2022                | 19,886,142.21                | 12/1/2021              | 12/31/2021               |                   | 15.00                | 30.50              | 7.0854%              | 2.1611                | ACT        |
| PJM<br>PJM    | 1/15/2022<br>1/15/2022   | (495,954.44)<br>(495,954.44) | 12/1/2021<br>12/1/2021 | 12/31/2021<br>12/31/2021 |                   | 15.00<br>15.00       | 30.50<br>30.50     | -0.1767%<br>-0.1767% | (0.0539)<br>(0.0539)  | ACT<br>ACT |
| AEG           | 1/10/2022                | 1,252,747.17                 | 12/1/2021              | 12/31/2021               |                   | 10.00                | 25.50              | -0.1767%<br>0.4464%  | 0.1138                | N/A        |
| AEG           | 1/10/2022                | 4,090,074.18                 | 12/1/2021              | 12/31/2021               | 15.50             | 10.00                | 25.50              | 1.4573%              | 0.3716                | N/A        |
| PJM           | 1/15/2022                | (118.18)                     | 12/1/2021              | 12/31/2021               |                   | 15.00                | 30.50              | 0.0000%              | (0.0000)              | ACT        |
| PJM<br>AEG    | 1/15/2022<br>1/10/2022   | (1,134.82)<br>30,242.00      | 12/1/2021<br>12/1/2021 | 12/31/2021<br>12/31/2021 |                   | 15.00<br>10.00       | 30.50<br>25.50     | -0.0004%<br>0.0108%  | (0.0001)<br>0.0027    | ACT<br>N/A |
| AEG           | 1/10/2022                | 210,614.00                   | 12/1/2021              | 12/31/2021               |                   | 10.00                | 25.50              | 0.0750%              | 0.0191                | N/A        |
| AEG           | 1/10/2022                | 55,450.00                    | 12/1/2021              | 12/31/2021               | 15.50             | 10.00                | 25.50              | 0.0198%              | 0.0050                | N/A        |
| AEG           | 1/10/2022                | 2,211,361.00                 | 12/1/2021              | 12/31/2021               |                   | 10.00                | 25.50              | 0.7879%              | 0.2009                | N/A        |
| PJM<br>PJM    | 1/15/2022<br>1/15/2022   | 180,408.02<br>631.98         | 12/1/2021<br>12/1/2021 | 12/31/2021<br>12/31/2021 | 15.50<br>15.50    | 15.00<br>15.00       | 30.50<br>30.50     | 0.0643%<br>0.0002%   | 0.0196<br>0.0001      | ACT<br>ACT |
| PJM           | 1/15/2022                | (119,573.10)                 | 12/1/2021              | 12/31/2021               | 15.50             | 15.00                | 30.50              | -0.0426%             | (0.0130)              | ACT        |
| PJM           | 1/15/2022                | 71,367.89                    | 12/1/2021              | 12/31/2021               | 15.50             | 15.00                | 30.50              | 0.0254%              | 0.0078                | ACT        |
|               |                          |                              |                        |                          |                   |                      |                    |                      |                       |            |

| Supplier Name PJM | Payment Date 1/15/2022 | Invoice Amount<br>106,369.94   | Service Start Date<br>12/1/2021 | Service End Date<br>12/31/2021 | Service Lead Time | Payment Lead<br>Time<br>15.00 | Total Lead<br>Time<br>30.50 | Weighting<br>Factor<br>0.0379% | Weighted<br>Lead Time<br>0.0116 | ACT        |
|-------------------|------------------------|--------------------------------|---------------------------------|--------------------------------|-------------------|-------------------------------|-----------------------------|--------------------------------|---------------------------------|------------|
| PJM<br>PJM        | 1/15/2022              | 181.40                         | 12/1/2021                       | 12/31/2021                     | 15.50             | 15.00                         | 30.50                       | 0.0379%                        | 0.0000                          | ACT        |
| PJM               | 1/15/2022              | (8,973.96)                     | 12/1/2021                       | 12/31/2021                     | 15.50             | 15.00                         | 30.50                       | -0.0032%                       | (0.0010)                        | ACT        |
| PJM<br>PJM        | 1/15/2022<br>1/15/2022 | (28.91)<br>671,564.34          | 12/1/2021<br>12/1/2021          | 12/31/2021<br>12/31/2021       | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | 0.0000%<br>0.2393%             | (0.0000)<br>0.0730              | ACT<br>ACT |
| PJM               | 1/15/2022              | 82,151.22                      | 12/1/2021                       | 12/31/2021                     | 15.50             | 15.00                         | 30.50                       | 0.0293%                        | 0.0089                          | ACT        |
| PJM<br>PJM        | 1/15/2022<br>1/15/2022 | 24,173.53<br>(4.35)            | 12/1/2021<br>12/1/2021          | 12/31/2021<br>12/31/2021       | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | 0.0086%<br>0.0000%             | 0.0026<br>(0.0000)              | ACT<br>ACT |
| PJM               | 1/15/2022              | (886.03)                       | 12/1/2021                       | 12/31/2021                     | 15.50             | 15.00                         | 30.50                       | -0.0003%                       | (0.0001)                        | ACT        |
| PJM               | 1/15/2022              | 2,192.75                       | 12/1/2021                       | 12/31/2021                     | 15.50             | 15.00                         | 30.50                       | 0.0008%                        | 0.0002                          | ACT        |
| PJM<br>PJM        | 1/15/2022<br>1/15/2022 | 7.60<br>457.57                 | 12/1/2021<br>12/1/2021          | 12/31/2021<br>12/31/2021       | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | 0.0000%<br>0.0002%             | 0.0000                          | ACT<br>ACT |
| PJM               | 1/15/2022              | 142.96                         | 12/1/2021                       | 12/31/2021                     | 15.50             | 15.00                         | 30.50                       | 0.0001%                        | 0.0000                          | ACT        |
| PJM<br>PJM        | 1/15/2022<br>1/15/2022 | 5,315.56<br>70,075.01          | 12/1/2021<br>12/1/2021          | 12/31/2021<br>12/31/2021       | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | 0.0019%<br>0.0250%             | 0.0006<br>0.0076                | ACT<br>ACT |
| PJM               | 1/15/2022              | 157.46                         | 12/1/2021                       | 12/31/2021                     | 15.50             | 15.00                         | 30.50                       | 0.0001%                        | 0.0000                          | ACT        |
| PJM<br>PJM        | 1/15/2022<br>1/15/2022 | (0.10)<br>(0.34)               | 12/1/2021<br>12/1/2021          | 12/31/2021<br>12/31/2021       | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | 0.0000%<br>0.0000%             | (0.0000)<br>(0.0000)            | ACT<br>ACT |
| PJM               | 1/15/2022              | 812.52                         | 12/1/2021                       | 12/31/2021                     | 15.50             | 15.00                         | 30.50                       | 0.0003%                        | 0.0001                          | ACT        |
| PJM<br>PJM        | 1/15/2022<br>1/15/2022 | 1,704,832.16<br>153,817.60     | 12/1/2021<br>12/1/2021          | 12/31/2021<br>12/31/2021       | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | 0.6074%<br>0.0548%             | 0.1853<br>0.0167                | ACT<br>ACT |
| PJM               | 1/15/2022              | (1.50)                         | 12/1/2021                       | 12/31/2021                     | 15.50             | 15.00                         | 30.50                       | 0.0000%                        | (0.0000)                        | ACT        |
| PJM<br>PJM        | 1/15/2022<br>1/15/2022 | 234,768.29<br>(1,010.67)       | 12/1/2021<br>12/1/2021          | 12/31/2021<br>12/31/2021       | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | 0.0836%<br>-0.0004%            | 0.0255<br>(0.0001)              | ACT<br>ACT |
| PJM               | 1/15/2022              | 560,238.30                     | 12/1/2021                       | 12/31/2021                     | 15.50             | 15.00                         | 30.50                       | 0.1996%                        | 0.0609                          | ACT        |
| PJM<br>PJM        | 1/15/2022<br>1/15/2022 | (1,970,966.26)<br>(560,237.40) | 12/1/2021<br>12/1/2021          | 12/31/2021<br>12/31/2021       | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | -0.7023%<br>-0.1996%           | (0.2142)<br>(0.0609)            | ACT<br>ACT |
| PJM               | 1/15/2022              | (89,038.79)                    | 12/1/2021                       | 12/31/2021                     | 15.50             | 15.00                         | 30.50                       | -0.0317%                       | (0.0097)                        | ACT        |
| PJM               | 1/15/2022<br>1/15/2022 | (116.06)                       | 12/1/2021<br>12/1/2021          | 12/31/2021<br>12/31/2021       | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | 0.0000%<br>0.0000%             | (0.0000)                        | ACT<br>ACT |
| PJM<br>PJM        | 1/15/2022              | (15.49)<br>1,124,681.11        | 12/1/2021                       | 12/31/2021                     | 15.50             | 15.00                         | 30.50                       | 0.4007%                        | (0.0000)<br>0.1222              | ACT        |
| PJM               | 1/15/2022              | (45,800.68)                    | 12/1/2021                       | 12/31/2021<br>12/31/2021       | 15.50             | 15.00                         | 30.50                       | -0.0163%<br>-0.0001%           | (0.0050)                        | ACT        |
| PJM<br>PJM        | 1/15/2022<br>1/15/2022 | (142.14)<br>(0.34)             | 12/1/2021<br>12/1/2021          | 12/31/2021                     | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | 0.0000%                        | (0.0000)                        | ACT<br>ACT |
| PJM               | 1/15/2022              | (263,342.26)                   | 12/1/2021                       | 12/31/2021                     | 15.50             | 15.00                         | 30.50                       | -0.0938%                       | (0.0286)                        | ACT        |
| PJM<br>PJM        | 1/15/2022<br>1/15/2022 | (328.83)<br>5,830,639.90       | 12/1/2021<br>12/1/2021          | 12/31/2021<br>12/31/2021       | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | -0.0001%<br>2.0775%            | (0.0000)<br>0.6336              | ACT<br>ACT |
| PJM               | 1/15/2022              | 2,468,987.65                   | 12/1/2021                       | 12/31/2021                     | 15.50             | 15.00                         | 30.50                       | 0.8797%                        | 0.2683                          | ACT        |
| PJM<br>AEG        | 1/15/2022<br>2/8/2022  | (49.67)<br>1,469,960.91        | 12/1/2021<br>1/1/2022           | 12/31/2021<br>1/31/2022        | 15.50<br>15.50    | 15.00<br>8.00                 | 30.50<br>23.50              | 0.0000%<br>0.5237%             | (0.0000)<br>0.1231              | ACT<br>N/A |
| AEG               | 2/8/2022               | 4,385,067.89                   | 1/1/2022                        | 1/31/2022                      | 15.50             | 8.00                          | 23.50                       | 1.5624%                        | 0.3672                          | N/A        |
| PJM<br>PJM        | 1/15/2022<br>1/15/2022 | (64.91)<br>(2,128.68)          | 12/1/2021<br>12/1/2021          | 12/31/2021<br>12/31/2021       | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | 0.0000%<br>-0.0008%            | (0.0000)<br>(0.0002)            | ACT<br>ACT |
| AEG               | 2/8/2022               | 60,061.00                      | 1/1/2022                        | 1/31/2022                      | 15.50             | 8.00                          | 23.50                       | 0.0214%                        | 0.0050                          | N/A        |
| AEG<br>AEG        | 2/8/2022<br>2/8/2022   | 294,370.00<br>387,264.00       | 1/1/2022<br>1/1/2022            | 1/31/2022<br>1/31/2022         | 15.50<br>15.50    | 8.00<br>8.00                  | 23.50<br>23.50              | 0.1049%<br>0.1380%             | 0.0246<br>0.0324                | N/A<br>N/A |
| AEG               | 2/8/2022               | 2,554,068.00                   | 1/1/2022                        | 1/31/2022                      | 15.50             | 8.00                          | 23.50                       | 0.9100%                        | 0.2139                          | N/A        |
| PJM               | 1/15/2022              | 176,046.21                     | 12/1/2021                       | 12/31/2021                     | 15.50             | 15.00                         | 30.50                       | 0.0627%                        | 0.0191                          | ACT        |
| PJM<br>PJM        | 2/15/2022<br>2/15/2022 | (119,572.89)<br>69,637.16      | 1/1/2022<br>1/1/2022            | 1/31/2022<br>1/31/2022         | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | -0.0426%<br>0.0248%            | (0.0130)<br>0.0076              | ACT<br>ACT |
| PJM               | 2/15/2022              | 70,077.31                      | 1/1/2022                        | 1/31/2022                      | 15.50             | 15.00                         | 30.50                       | 0.0250%                        | 0.0076                          | ACT        |
| PJM<br>PJM        | 2/15/2022<br>2/15/2022 | 38.86<br>(0.31)                | 1/1/2022<br>1/1/2022            | 1/31/2022<br>1/31/2022         | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | 0.0000%                        | 0.0000 (0.0000)                 | ACT<br>ACT |
| PJM               | 2/15/2022              | (38,992.68)                    | 1/1/2022                        | 1/31/2022                      | 15.50             | 15.00                         | 30.50                       | -0.0139%                       | (0.0042)                        | ACT        |
| PJM<br>PJM        | 2/15/2022<br>2/15/2022 | (12.31)<br>186,024.56          | 1/1/2022<br>1/1/2022            | 1/31/2022<br>1/31/2022         | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | 0.0000%<br>0.0663%             | (0.0000)<br>0.0202              | ACT<br>ACT |
| PJM               | 2/15/2022              | 578,033.09                     | 1/1/2022                        | 1/31/2022                      | 15.50             | 15.00                         | 30.50                       | 0.2060%                        | 0.0628                          | ACT        |
| PJM<br>PJM        | 2/15/2022<br>2/15/2022 | 24,387.30<br>14,716.82         | 1/1/2022<br>1/1/2022            | 1/31/2022<br>1/31/2022         | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | 0.0087%<br>0.0052%             | 0.0027<br>0.0016                | ACT<br>ACT |
| PJM               | 2/15/2022              | (383.96)                       | 1/1/2022                        | 1/31/2022                      | 15.50             | 15.00                         | 30.50                       | -0.0001%                       | (0.0000)                        | ACT        |
| PJM<br>PJM        | 2/15/2022<br>2/15/2022 | (1,325.25)<br>284.68           | 1/1/2022<br>1/1/2022            | 1/31/2022<br>1/31/2022         | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | -0.0005%<br>0.0001%            | (0.0001)<br>0.0000              | ACT<br>ACT |
| PJM               | 2/15/2022              | 68.72                          | 1/1/2022                        | 1/31/2022                      | 15.50             | 15.00                         | 30.50                       | 0.0000%                        | 0.0000                          | ACT        |
| PJM<br>PJM        | 2/15/2022<br>2/15/2022 | 883.63<br>54.95                | 1/1/2022<br>1/1/2022            | 1/31/2022<br>1/31/2022         | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | 0.0003%<br>0.0000%             | 0.0001                          | ACT<br>ACT |
| PJM               | 2/15/2022              | 10,814.34                      | 1/1/2022                        | 1/31/2022                      | 15.50             | 15.00                         | 30.50                       | 0.0039%                        | 0.0012                          | ACT        |
| PJM<br>PJM        | 2/15/2022<br>2/15/2022 | 34,092.61<br>(86.46)           | 1/1/2022<br>1/1/2022            | 1/31/2022<br>1/31/2022         | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | 0.0121%<br>0.0000%             | 0.0037<br>(0.0000)              | ACT<br>ACT |
| PJM               | 2/15/2022              | (0.17)                         | 1/1/2022                        | 1/31/2022                      | 15.50             | 15.00                         | 30.50                       | 0.0000%                        | (0.0000)                        | ACT        |
| PJM               | 2/15/2022              | 315,078.82                     | 1/1/2022                        | 1/31/2022<br>1/31/2022         | 15.50             | 15.00<br>15.00                | 30.50                       | 0.1123%<br>0.0071%             | 0.0342                          | ACT<br>ACT |
| PJM<br>PJM        | 2/15/2022<br>2/15/2022 | 19,879.67<br>(1.75)            | 1/1/2022<br>1/1/2022            | 1/31/2022                      | 15.50<br>15.50    | 15.00                         | 30.50<br>30.50              | 0.0000%                        | 0.0022<br>(0.0000)              | ACT        |
| PJM               | 2/15/2022              | 72,443.35                      | 1/1/2022                        | 1/31/2022                      | 15.50             | 15.00                         | 30.50                       | 0.0258%                        | 0.0079                          | ACT        |
| PJM<br>PJM        | 2/15/2022<br>2/15/2022 | 578,912.22<br>(508,507.00)     | 1/1/2022<br>1/1/2022            | 1/31/2022<br>1/31/2022         | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | 0.2063%<br>-0.1812%            | 0.0629<br>(0.0553)              | ACT<br>ACT |
| PJM               | 2/15/2022              | (578,911.98)                   | 1/1/2022                        | 1/31/2022                      | 15.50             | 15.00                         | 30.50                       | -0.2063%                       | (0.0629)                        | ACT        |
| PJM<br>PJM        | 2/15/2022<br>2/15/2022 | (40,247.85)<br>(254.68)        | 1/1/2022<br>1/1/2022            | 1/31/2022<br>1/31/2022         | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | -0.0143%<br>-0.0001%           | (0.0044) (0.0000)               | ACT<br>ACT |
| PJM               | 2/15/2022              | (5,416.98)                     | 1/1/2022                        | 1/31/2022                      | 15.50             | 15.00                         | 30.50                       | -0.0019%                       | (0.0006)                        | ACT        |
| PJM<br>PJM        | 2/15/2022<br>2/15/2022 | (0.21)                         | 1/1/2022<br>1/1/2022            | 1/31/2022<br>1/31/2022         | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | 0.0000%<br>0.0000%             | (0.0000)                        | ACT<br>ACT |
| PJM               | 2/15/2022              | 774,795.80                     | 1/1/2022                        | 1/31/2022                      | 15.50             | 15.00                         | 30.50                       | 0.2761%                        | 0.0842                          | ACT        |
| PJM<br>PJM        | 2/15/2022<br>2/15/2022 | (3,573.93) (0.92)              | 1/1/2022<br>1/1/2022            | 1/31/2022<br>1/31/2022         | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | -0.0013%<br>0.0000%            | (0.0004)<br>(0.0000)            | ACT<br>ACT |
| PJM               | 2/15/2022              | (183,515.87)                   | 1/1/2022                        | 1/31/2022                      | 15.50             | 15.00                         | 30.50                       | -0.0654%                       | (0.0199)                        | ACT        |
| PJM<br>PJM        | 2/15/2022<br>2/15/2022 | 0.62<br>(44.28)                | 1/1/2022<br>1/1/2022            | 1/31/2022<br>1/31/2022         | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | 0.0000%<br>0.0000%             | 0.0000 (0.0000)                 | ACT<br>ACT |
| PJM               | 3/15/2022              | 4,015,700.66                   | 2/1/2022                        | 2/28/2022                      | 14.00             | 15.00                         | 29.00                       | 1.4308%                        | 0.4149                          | ACT        |
| PJM<br>AEG        | 3/15/2022<br>3/8/2022  | 1,284,331.57<br>1,456,188.63   | 2/1/2022<br>2/1/2022            | 2/28/2022<br>2/28/2022         | 14.00<br>14.00    | 15.00<br>8.00                 | 29.00<br>22.00              | 0.4576%<br>0.5188%             | 0.1327<br>0.1141                | ACT<br>N/A |
| AEG               | 3/8/2022               | 4,337,089.64                   | 2/1/2022                        | 2/28/2022                      | 14.00             | 8.00                          | 22.00                       | 1.5453%                        | 0.3400                          | N/A        |
| PJM<br>PJM        | 3/15/2022<br>3/15/2022 | 426.84<br>(969.54)             | 2/1/2022<br>2/1/2022            | 2/28/2022<br>2/28/2022         | 14.00<br>14.00    | 15.00<br>15.00                | 29.00<br>29.00              | 0.0002%<br>-0.0003%            | 0.0000<br>(0.0001)              | ACT<br>ACT |
| AEG               | 3/8/2022               | 222,081.00                     | 2/1/2022                        | 2/28/2022                      | 14.00             | 8.00                          | 22.00                       | 0.0791%                        | 0.0174                          | N/A        |
| AEG               | 3/8/2022               | 136,288.00<br>1,633,724.00     | 2/1/2022                        | 2/28/2022                      | 14.00             | 8.00                          | 22.00                       | 0.0486%                        | 0.0107                          | N/A        |
| AEG<br>AEG        | 3/8/2022<br>3/8/2022   | 756,465.00                     | 2/1/2022<br>2/1/2022            | 2/28/2022<br>2/28/2022         | 14.00<br>14.00    | 8.00<br>8.00                  | 22.00<br>22.00              | 0.5821%<br>0.2695%             | 0.1281<br>0.0593                | N/A<br>N/A |
| PJM               | 3/15/2022              | 176,394.34                     | 2/1/2022                        | 2/28/2022                      | 14.00             | 15.00                         | 29.00                       | 0.0628%                        | 0.0182                          | ACT        |
| PJM<br>PJM        | 3/15/2022<br>3/15/2022 | (119,572.89)<br>69,780.38      | 2/1/2022<br>2/1/2022            | 2/28/2022<br>2/28/2022         | 14.00<br>14.00    | 15.00<br>15.00                | 29.00<br>29.00              | -0.0426%<br>0.0249%            | (0.0124)<br>0.0072              | ACT<br>ACT |
| PJM               | 3/15/2022              | 4,708.20                       | 2/1/2022                        | 2/28/2022                      | 14.00             | 15.00                         | 29.00                       | 0.0017%                        | 0.0005                          | ACT        |
| PJM<br>PJM        | 3/15/2022<br>3/15/2022 | (3,865.67)<br>4,760,112.29     | 2/1/2022<br>2/1/2022            | 2/28/2022<br>2/28/2022         | 14.00<br>14.00    | 15.00<br>15.00                | 29.00<br>29.00              | -0.0014%<br>1.6960%            | (0.0004)<br>0.4918              | ACT<br>ACT |
| PJM               | 3/15/2022              | 274,499.65                     | 2/1/2022                        | 2/28/2022                      | 14.00             | 15.00                         | 29.00                       | 0.0978%                        | 0.0284                          | ACT        |
| PJM<br>PJM        | 3/15/2022<br>3/15/2022 | 26,428.60<br>69,801.04         | 2/1/2022<br>2/1/2022            | 2/28/2022<br>2/28/2022         | 14.00<br>14.00    | 15.00<br>15.00                | 29.00<br>29.00              | 0.0094%<br>0.0249%             | 0.0027<br>0.0072                | ACT<br>ACT |
| PJM               | 3/15/2022              | (5,568.07)                     | 2/1/2022                        | 2/28/2022                      | 14.00             | 15.00                         | 29.00                       | -0.0020%                       | (0.0006)                        | ACT        |
| PJM<br>PJM        | 3/15/2022              | 618.29<br>243.31               | 2/1/2022                        | 2/28/2022<br>2/28/2022         | 14.00<br>14.00    | 15.00<br>15.00                | 29.00<br>29.00              | 0.0002%                        | 0.0001<br>0.0000                | ACT<br>ACT |
| PJM               | 3/15/2022<br>3/15/2022 | (130.66)                       | 2/1/2022<br>2/1/2022            | 2/28/2022                      | 14.00             | 15.00                         | 29.00                       | 0.0001%<br>0.0000%             | (0.0000)                        | ACT        |
| PJM<br>PJM        | 3/15/2022              | 4,420.73<br>62,901.50          | 2/1/2022<br>2/1/2022            | 2/28/2022<br>2/28/2022         | 14.00             | 15.00<br>15.00                | 29.00<br>29.00              | 0.0016%<br>0.0224%             | 0.0005                          | ACT<br>ACT |
| PJM<br>PJM        | 3/15/2022<br>3/15/2022 | 62,901.50<br>109.49            | 2/1/2022<br>2/1/2022            | 2/28/2022<br>2/28/2022         | 14.00<br>14.00    | 15.00<br>15.00                | 29.00                       | 0.0224%                        | 0.0065<br>0.0000                | ACT        |
| PJM               | 3/15/2022              | (0.22)                         | 2/1/2022                        | 2/28/2022                      | 14.00             | 15.00                         | 29.00                       | 0.0000%                        | (0.0000)                        | ACT        |
| PJM<br>PJM        | 3/15/2022<br>3/15/2022 | 2,685,059.73<br>(2,386,353.27) | 2/1/2022<br>2/1/2022            | 2/28/2022<br>2/28/2022         | 14.00<br>14.00    | 15.00<br>15.00                | 29.00<br>29.00              | 0.9567%<br>-0.8503%            | 0.2774<br>(0.2466)              | ACT<br>ACT |
| PJM               | 3/15/2022              | 3.51                           | 2/1/2022                        | 2/28/2022                      | 14.00             | 15.00                         | 29.00                       | 0.0000%                        | 0.0000                          | ACT        |
| PJM<br>PJM        | 3/15/2022<br>3/15/2022 | 940,331.49<br>141.43           | 2/1/2022<br>2/1/2022            | 2/28/2022<br>2/28/2022         | 14.00<br>14.00    | 15.00<br>15.00                | 29.00<br>29.00              | 0.3350%<br>0.0001%             | 0.0972<br>0.0000                | ACT<br>ACT |
| PJM               | 3/15/2022              | (319,595.27)                   | 2/1/2022                        | 2/28/2022                      | 14.00             | 15.00                         | 29.00                       | -0.1139%                       | (0.0330)                        | ACT        |

| Supplier Name PJM | Payment Date 3/15/2022 | Invoice Amount<br>578,912.91  | Service Start Date 2/1/2022 | Service End Date<br>2/28/2022 | Service Lead Time | Payment Lead<br>Time<br>15.00 | Total Lead<br>Time<br>29.00 | Weighting<br>Factor<br>0.2063% | Weighted<br>Lead Time<br>0.0598 | ACT        |
|-------------------|------------------------|-------------------------------|-----------------------------|-------------------------------|-------------------|-------------------------------|-----------------------------|--------------------------------|---------------------------------|------------|
| PJM               | 3/15/2022              | (2,340,649.28)                | 2/1/2022                    | 2/28/2022                     | 14.00             | 15.00                         | 29.00                       | -0.8340%                       | (0.2419)                        | ACT        |
| PJM               | 3/15/2022              | (578,911.98)                  | 2/1/2022                    | 2/28/2022                     | 14.00             | 15.00                         | 29.00                       | -0.2063%                       | (0.0598)                        | ACT        |
| PJM<br>PJM        | 3/15/2022<br>3/15/2022 | (79.89)<br>(6,505.94)         | 2/1/2022<br>2/1/2022        | 2/28/2022<br>2/28/2022        | 14.00<br>14.00    | 15.00<br>15.00                | 29.00<br>29.00              | 0.0000%<br>-0.0023%            | (0.0000)<br>(0.0007)            | ACT<br>ACT |
| PJM               | 3/15/2022              | 1,845,826.64                  | 2/1/2022                    | 2/28/2022                     | 14.00             | 15.00                         | 29.00                       | 0.6577%                        | 0.1907                          | ACT        |
| PJM<br>PJM        | 3/15/2022<br>3/15/2022 | (452,266.65)<br>(0.43)        | 2/1/2022<br>2/1/2022        | 2/28/2022<br>2/28/2022        | 14.00<br>14.00    | 15.00<br>15.00                | 29.00<br>29.00              | -0.1611%<br>0.0000%            | (0.0467)<br>(0.0000)            | ACT<br>ACT |
| PJM               | 3/15/2022              | (536,845.57)                  | 2/1/2022                    | 2/28/2022                     | 14.00             | 15.00                         | 29.00                       | -0.1913%                       | (0.0555)                        | ACT        |
| PJM               | 3/15/2022              | (573.20)                      | 2/1/2022                    | 2/28/2022                     | 14.00             | 15.00                         | 29.00                       | -0.0002%                       | (0.0001)                        | ACT        |
| PJM<br>PJM        | 3/15/2022<br>3/15/2022 | 2,289,260.73<br>11,487,772.88 | 2/1/2022<br>2/1/2022        | 2/28/2022<br>2/28/2022        | 14.00<br>14.00    | 15.00<br>15.00                | 29.00<br>29.00              | 0.8157%<br>4.0931%             | 0.2365<br>1.1870                | ACT<br>ACT |
| AEG               | 4/7/2022               | 2,046,448.16                  | 3/1/2022                    | 3/31/2022                     | 15.50             | 7.00                          | 22.50                       | 0.7291%                        | 0.1641                          | N/A        |
| AEG<br>PJM        | 4/7/2022<br>3/15/2022  | 4,585,084.16<br>(164.34)      | 3/1/2022<br>2/1/2022        | 3/31/2022<br>2/28/2022        | 15.50<br>14.00    | 7.00<br>15.00                 | 22.50<br>29.00              | 1.6337%<br>-0.0001%            | 0.3676<br>(0.0000)              | N/A<br>ACT |
| PJM               | 3/15/2022              | (326.15)                      | 2/1/2022                    | 2/28/2022                     | 14.00             | 15.00                         | 29.00                       | -0.0001%                       | (0.0000)                        | ACT        |
| AEG               | 4/7/2022               | 106,025.00                    | 3/1/2022                    | 3/31/2022                     | 15.50             | 7.00                          | 22.50                       | 0.0378%                        | 0.0085                          | N/A        |
| AEG<br>AEG        | 4/7/2022<br>4/7/2022   | 89,413.00<br>110.323.00       | 3/1/2022<br>3/1/2022        | 3/31/2022<br>3/31/2022        | 15.50<br>15.50    | 7.00<br>7.00                  | 22.50<br>22.50              | 0.0319%<br>0.0393%             | 0.0072<br>0.0088                | N/A<br>N/A |
| AEG               | 4/7/2022               | (179,892.00)                  | 3/1/2022                    | 3/31/2022                     | 15.50             | 7.00                          | 22.50                       | -0.0641%                       | (0.0144)                        | N/A        |
| PJM<br>PJM        | 3/15/2022<br>3/15/2022 | 177,003.96<br>(2.55)          | 2/1/2022<br>2/1/2022        | 2/28/2022<br>2/28/2022        | 14.00<br>14.00    | 15.00<br>15.00                | 29.00<br>29.00              | 0.0631%<br>0.0000%             | 0.0183 (0.0000)                 | ACT<br>ACT |
| PJM               | 3/15/2022              | (119,572.88)                  | 2/1/2022                    | 2/28/2022                     | 14.00             | 15.00                         | 29.00                       | -0.0426%                       | (0.0124)                        | ACT        |
| PJM<br>PJM        | 3/15/2022<br>3/15/2022 | 70,022.40                     | 2/1/2022<br>2/1/2022        | 2/28/2022<br>2/28/2022        | 14.00<br>14.00    | 15.00<br>15.00                | 29.00<br>29.00              | 0.0249%<br>0.0233%             | 0.0072                          | ACT<br>ACT |
| PJM               | 3/15/2022              | 65,521.91<br>(20,883.13)      | 2/1/2022                    | 2/28/2022                     | 14.00             | 15.00                         | 29.00                       | -0.0074%                       | 0.0068<br>(0.0022)              | ACT        |
| PJM               | 3/15/2022              | 1,040,739.14                  | 2/1/2022                    | 2/28/2022                     | 14.00             | 15.00                         | 29.00                       | 0.3708%                        | 0.1075                          | ACT        |
| PJM<br>PJM        | 4/15/2022<br>4/15/2022 | 21,662.24<br>2,706.94         | 3/1/2022<br>3/1/2022        | 3/31/2022<br>3/31/2022        | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | 0.0077%<br>0.0010%             | 0.0024<br>0.0003                | ACT<br>ACT |
| PJM               | 4/15/2022              | (86.44)                       | 3/1/2022                    | 3/31/2022                     | 15.50             | 15.00                         | 30.50                       | 0.0000%                        | (0.0000)                        | ACT        |
| PJM<br>PJM        | 4/15/2022<br>4/15/2022 | (504.40)<br>155.69            | 3/1/2022<br>3/1/2022        | 3/31/2022<br>3/31/2022        | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | -0.0002%<br>0.0001%            | (0.0001)<br>0.0000              | ACT<br>ACT |
| PJM               | 4/15/2022              | 252.22                        | 3/1/2022                    | 3/31/2022                     | 15.50             | 15.00                         | 30.50                       | 0.0001%                        | 0.0000                          | ACT        |
| PJM               | 4/15/2022              | (22.27)                       | 3/1/2022                    | 3/31/2022                     | 15.50             | 15.00                         | 30.50                       | 0.0000%                        | (0.0000)                        | ACT        |
| PJM<br>PJM        | 4/15/2022<br>4/15/2022 | 2,903.83<br>19,869.10         | 3/1/2022<br>3/1/2022        | 3/31/2022<br>3/31/2022        | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | 0.0010%<br>0.0071%             | 0.0003<br>0.0022                | ACT<br>ACT |
| PJM               | 4/15/2022              | 204.37                        | 3/1/2022                    | 3/31/2022                     | 15.50             | 15.00                         | 30.50                       | 0.0001%                        | 0.0000                          | ACT        |
| PJM<br>PJM        | 4/15/2022<br>4/15/2022 | (0.10)<br>549,479.11          | 3/1/2022<br>3/1/2022        | 3/31/2022<br>3/31/2022        | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | 0.0000%<br>0.1958%             | (0.0000)<br>0.0597              | ACT<br>ACT |
| PJM               | 4/15/2022              | (64,787.44)                   | 3/1/2022                    | 3/31/2022                     | 15.50             | 15.00                         | 30.50                       | -0.0231%                       | (0.0070)                        | ACT        |
| PJM               | 4/15/2022              | 1.12<br>366,413.13            | 3/1/2022                    | 3/31/2022                     | 15.50             | 15.00                         | 30.50                       | 0.0000%                        | 0.0000                          | ACT        |
| PJM<br>PJM        | 4/15/2022<br>4/15/2022 | (121.02)                      | 3/1/2022<br>3/1/2022        | 3/31/2022<br>3/31/2022        | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | 0.1306%<br>0.0000%             | 0.0398 (0.0000)                 | ACT<br>ACT |
| PJM               | 4/15/2022              | (53,051.72)                   | 3/1/2022                    | 3/31/2022                     | 15.50             | 15.00                         | 30.50                       | -0.0189%                       | (0.0058)                        | ACT        |
| PJM<br>PJM        | 4/15/2022<br>4/15/2022 | 522,889.08<br>(767,574.47)    | 3/1/2022<br>3/1/2022        | 3/31/2022<br>3/31/2022        | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | 0.1863%<br>-0.2735%            | 0.0568<br>(0.0834)              | ACT<br>ACT |
| PJM               | 4/15/2022              | 102.90                        | 3/1/2022                    | 3/31/2022                     | 15.50             | 15.00                         | 30.50                       | 0.0000%                        | 0.0000                          | ACT        |
| PJM<br>PJM        | 4/15/2022<br>4/15/2022 | (522,888.24)<br>(0.67)        | 3/1/2022<br>3/1/2022        | 3/31/2022<br>3/31/2022        | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | -0.1863%<br>0.0000%            | (0.0568) (0.0000)               | ACT<br>ACT |
| PJM               | 4/15/2022              | (10,836.87)                   | 3/1/2022                    | 3/31/2022                     | 15.50             | 15.00                         | 30.50                       | -0.0039%                       | (0.0012)                        | ACT        |
| PJM               | 4/15/2022              | (1,086.08)                    | 3/1/2022                    | 3/31/2022                     | 15.50             | 15.00                         | 30.50                       | -0.0004%                       | (0.0001)                        | ACT        |
| PJM<br>PJM        | 4/15/2022<br>4/15/2022 | 264,880.63<br>(24,283.92)     | 3/1/2022<br>3/1/2022        | 3/31/2022<br>3/31/2022        | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | 0.0944%<br>-0.0087%            | 0.0288<br>(0.0026)              | ACT<br>ACT |
| PJM               | 4/15/2022              | 0.80                          | 3/1/2022                    | 3/31/2022                     | 15.50             | 15.00                         | 30.50                       | 0.0000%                        | 0.0000                          | ACT        |
| PJM<br>PJM        | 4/15/2022<br>4/15/2022 | (295,870.93)<br>(156.87)      | 3/1/2022<br>3/1/2022        | 3/31/2022<br>3/31/2022        | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | -0.1054%<br>-0.0001%           | (0.0322) (0.0000)               | ACT<br>ACT |
| PJM               | 4/15/2022              | 1,341,965.27                  | 3/1/2022                    | 3/31/2022                     | 15.50             | 15.00                         | 30.50                       | 0.4781%                        | 0.1458                          | ACT        |
| PJM<br>AEG        | 4/15/2022<br>5/9/2022  | 18,467,206.69<br>1,433,416.64 | 3/1/2022<br>4/1/2022        | 3/31/2022<br>4/30/2022        | 15.50<br>15.00    | 15.00<br>9.00                 | 30.50<br>24.00              | 6.5798%<br>0.5107%             | 2.0069<br>0.1226                | ACT<br>N/A |
| AEG               | 5/9/2022               | 4,231,337.64                  | 4/1/2022                    | 4/30/2022                     | 15.00             | 9.00                          | 24.00                       | 1.5076%                        | 0.3618                          | N/A        |
| PJM               | 4/15/2022              | (86.00)                       | 3/1/2022                    | 3/31/2022                     | 15.50             | 15.00                         | 30.50                       | 0.0000%                        | (0.0000)                        | ACT        |
| PJM<br>AEG        | 4/15/2022<br>5/9/2022  | (2,117.45)<br>58,421.00       | 3/1/2022<br>4/1/2022        | 3/31/2022<br>4/30/2022        | 15.50<br>15.00    | 15.00<br>9.00                 | 30.50<br>24.00              | -0.0008%<br>0.0208%            | (0.0002)<br>0.0050              | ACT<br>N/A |
| AEG               | 5/9/2022               | 268,473.00                    | 4/1/2022                    | 4/30/2022                     | 15.00             | 9.00                          | 24.00                       | 0.0957%                        | 0.0230                          | N/A        |
| AEG<br>AEG        | 5/9/2022<br>5/9/2022   | 244,624.00<br>2,271,385.00    | 4/1/2022<br>4/1/2022        | 4/30/2022<br>4/30/2022        | 15.00<br>15.00    | 9.00<br>9.00                  | 24.00<br>24.00              | 0.0872%<br>0.8093%             | 0.0209<br>0.1942                | N/A<br>N/A |
| PJM               | 4/15/2022              | 178,920.28                    | 3/1/2022                    | 3/31/2022                     | 15.50             | 15.00                         | 30.50                       | 0.0637%                        | 0.0194                          | ACT        |
| PJM<br>PJM        | 4/15/2022<br>4/15/2022 | (119,572.89)<br>70,782.82     | 3/1/2022<br>3/1/2022        | 3/31/2022<br>3/31/2022        | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | -0.0426%<br>0.0252%            | (0.0130)<br>0.0077              | ACT<br>ACT |
| PJM               | 4/15/2022              | 75,441.11                     | 3/1/2022                    | 3/31/2022                     | 15.50             | 15.00                         | 30.50                       | 0.0269%                        | 0.0082                          | ACT        |
| PJM               | 4/15/2022              | 11.91                         | 3/1/2022                    | 3/31/2022                     | 15.50             | 15.00                         | 30.50                       | 0.0000%                        | 0.0000                          | ACT        |
| PJM<br>PJM        | 4/15/2022<br>4/15/2022 | (8,102.13)<br>(72.21)         | 3/1/2022<br>3/1/2022        | 3/31/2022<br>3/31/2022        | 15.50<br>15.50    | 15.00<br>15.00                | 30.50<br>30.50              | 0.0029%                        | (0.0009)                        | ACT<br>ACT |
| PJM               | 4/15/2022              | 513,146.59                    | 3/1/2022                    | 3/31/2022                     | 15.50             | 15.00                         | 30.50                       | 0.1828%                        | 0.0558                          | ACT        |
| PJM<br>PJM        | 4/15/2022<br>5/15/2022 | 49,882.19<br>3,662.40         | 3/1/2022<br>4/1/2022        | 3/31/2022<br>4/30/2022        | 15.50<br>15.00    | 15.00<br>15.00                | 30.50<br>30.00              | 0.0178%<br>0.0013%             | 0.0054<br>0.0004                | ACT<br>ACT |
| PJM               | 5/15/2022              | (1,903.21)                    | 4/1/2022                    | 4/30/2022                     | 15.00             | 15.00                         | 30.00                       | -0.0007%                       | (0.0002)                        | ACT        |
| PJM<br>PJM        | 5/15/2022<br>5/15/2022 | 720.72<br>1.963.67            | 4/1/2022<br>4/1/2022        | 4/30/2022<br>4/30/2022        | 15.00<br>15.00    | 15.00<br>15.00                | 30.00<br>30.00              | 0.0003%<br>0.0007%             | 0.0001<br>0.0002                | ACT<br>ACT |
| PJM               | 5/15/2022              | (220.83)                      | 4/1/2022                    | 4/30/2022                     | 15.00             | 15.00                         | 30.00                       | -0.0001%                       | (0.0002)                        | ACT        |
| PJM<br>PJM        | 5/15/2022<br>5/15/2022 | 2,797.55<br>24,371.98         | 4/1/2022<br>4/1/2022        | 4/30/2022<br>4/30/2022        | 15.00<br>15.00    | 15.00<br>15.00                | 30.00<br>30.00              | 0.0010%<br>0.0087%             | 0.0003<br>0.0026                | ACT<br>ACT |
| PJM               | 5/15/2022              | (109.40)                      | 4/1/2022                    | 4/30/2022                     | 15.00             | 15.00                         | 30.00                       | 0.0000%                        | (0.0000)                        | ACT        |
| PJM               | 5/15/2022              | (0.24)                        | 4/1/2022<br>4/1/2022        | 4/30/2022<br>4/30/2022        | 15.00             | 15.00                         | 30.00                       | 0.0000%                        | (0.0000)                        | ACT        |
| PJM<br>PJM        | 5/15/2022<br>5/15/2022 | 759,249.97<br>45,654.87       | 4/1/2022<br>4/1/2022        | 4/30/2022<br>4/30/2022        | 15.00<br>15.00    | 15.00<br>15.00                | 30.00<br>30.00              | 0.2705%<br>0.0163%             | 0.0812<br>0.0049                | ACT<br>ACT |
| PJM               | 5/15/2022              | 295,121.80                    | 4/1/2022<br>4/1/2022        | 4/30/2022                     | 15.00             | 15.00                         | 30.00                       | 0.1052%                        | 0.0315                          | ACT        |
| PJM<br>PJM        | 5/15/2022<br>5/15/2022 | 578,912.91<br>(609,869.79)    | 4/1/2022<br>4/1/2022        | 4/30/2022<br>4/30/2022        | 15.00<br>15.00    | 15.00<br>15.00                | 30.00<br>30.00              | 0.2063%<br>-0.2173%            | 0.0619<br>(0.0652)              | ACT<br>ACT |
| PJM               | 5/15/2022              | (578,911.98)                  | 4/1/2022                    | 4/30/2022                     | 15.00             | 15.00                         | 30.00                       | -0.2063%                       | (0.0619)                        | ACT        |
| PJM<br>PJM        | 5/15/2022<br>5/15/2022 | (74,379.42)<br>(5.64)         | 4/1/2022<br>4/1/2022        | 4/30/2022<br>4/30/2022        | 15.00<br>15.00    | 15.00<br>15.00                | 30.00<br>30.00              | -0.0265%<br>0.0000%            | (0.0080)<br>(0.0000)            | ACT<br>ACT |
| PJM               | 5/15/2022              | 406,782.18                    | 4/1/2022                    | 4/30/2022                     | 15.00             | 15.00                         | 30.00                       | 0.1449%                        | 0.0435                          | ACT        |
| PJM               | 5/15/2022              | (12,689.33)                   | 4/1/2022                    | 4/30/2022                     | 15.00             | 15.00                         | 30.00                       | -0.0045%                       | (0.0014)                        | ACT        |
| PJM<br>PJM        | 5/15/2022<br>5/15/2022 | (194,681.83)<br>(357.83)      | 4/1/2022<br>4/1/2022        | 4/30/2022<br>4/30/2022        | 15.00<br>15.00    | 15.00<br>15.00                | 30.00<br>30.00              | -0.0694%<br>-0.0001%           | (0.0208) (0.0000)               | ACT<br>ACT |
| PJM               | 5/15/2022              | 2,420,480.62                  | 4/1/2022                    | 4/30/2022                     | 15.00             | 15.00                         | 30.00                       | 0.8624%                        | 0.2587                          | ACT        |
| PJM<br>AEG        | 5/15/2022<br>6/8/2022  | 7,876,732.77<br>1,367,603.71  | 4/1/2022<br>5/1/2022        | 4/30/2022<br>5/31/2022        | 15.00<br>15.50    | 15.00<br>8.00                 | 30.00<br>23.50              | 2.8065%<br>0.4873%             | 0.8419<br>0.1145                | ACT<br>N/A |
| AEG               | 6/8/2022               | 4,762,786.71                  | 5/1/2022                    | 5/31/2022                     | 15.50             | 8.00                          | 23.50                       | 1.6970%                        | 0.3988                          | N/A        |
| PJM<br>PJM        | 5/15/2022<br>5/15/2022 | (1,074.66)<br>(6,994.86)      | 4/1/2022<br>4/1/2022        | 4/30/2022<br>4/30/2022        | 15.00<br>15.00    | 15.00<br>15.00                | 30.00<br>30.00              | -0.0004%<br>-0.0025%           | (0.0001)<br>(0.0007)            | ACT<br>ACT |
| AEG               | 6/8/2022               | 80,638.00                     | 5/1/2022                    | 5/31/2022                     | 15.50             | 8.00                          | 23.50                       | 0.0287%                        | 0.0068                          | N/A        |
| AEG               | 6/8/2022               | 280,502.00                    | 5/1/2022                    | 5/31/2022                     | 15.50             | 8.00                          | 23.50                       | 0.0999%                        | 0.0235                          | N/A        |
| AEG<br>AEG        | 6/8/2022<br>6/8/2022   | (24,143.00)<br>2,190,859.00   | 5/1/2022<br>5/1/2022        | 5/31/2022<br>5/31/2022        | 15.50<br>15.50    | 8.00<br>8.00                  | 23.50<br>23.50              | -0.0086%<br>0.7806%            | (0.0020)<br>0.1834              | N/A<br>N/A |
| PJM               | 5/15/2022              | 173,051.99                    | 4/1/2022                    | 4/30/2022                     | 15.00             | 15.00                         | 30.00                       | 0.0617%                        | 0.0185                          | ACT        |
| PJM<br>PJM        | 5/15/2022<br>5/15/2022 | (115,587.33)<br>72,662.40     | 4/1/2022<br>4/1/2022        | 4/30/2022<br>4/30/2022        | 15.00<br>15.00    | 15.00<br>15.00                | 30.00<br>30.00              | -0.0412%<br>0.0259%            | (0.0124)<br>0.0078              | ACT<br>ACT |
| PJM               | 5/15/2022              | 39,907.90                     | 4/1/2022                    | 4/30/2022                     | 15.00             | 15.00                         | 30.00                       | 0.0142%                        | 0.0043                          | ACT        |
| PJM<br>PJM        | 5/15/2022<br>5/15/2022 | 1,101.86<br>(12,462.62)       | 4/1/2022<br>4/1/2022        | 4/30/2022<br>4/30/2022        | 15.00<br>15.00    | 15.00<br>15.00                | 30.00<br>30.00              | 0.0004%<br>-0.0044%            | 0.0001<br>(0.0013)              | ACT<br>ACT |
| PJM               | 5/15/2022              | (872.65)                      | 4/1/2022                    | 4/30/2022                     | 15.00             | 15.00                         | 30.00                       | -0.0003%                       | (0.0001)                        | ACT        |
| PJM<br>PJM        | 5/15/2022              | 1,855,331.19<br>654,690.07    | 4/1/2022<br>4/1/2022        | 4/30/2022                     | 15.00<br>15.00    | 15.00<br>15.00                | 30.00<br>30.00              | 0.6611%<br>0.2333%             | 0.1983<br>0.0700                | ACT<br>ACT |
| PJM               | 5/15/2022<br>5/15/2022 | 35,637.68                     | 4/1/2022                    | 4/30/2022<br>4/30/2022        | 15.00<br>15.00    | 15.00                         | 30.00                       | 0.0127%                        | 0.0038                          | ACT        |
| PJM               | 5/15/2022              | 4,864.45                      | 4/1/2022                    | 4/30/2022                     | 15.00             | 15.00                         | 30.00                       | 0.0017%                        | 0.0005                          | ACT        |
| PJM<br>PJM        | 5/15/2022<br>5/15/2022 | (58.41)<br>(2,968.97)         | 4/1/2022<br>4/1/2022        | 4/30/2022<br>4/30/2022        | 15.00<br>15.00    | 15.00<br>15.00                | 30.00<br>30.00              | 0.0000%<br>-0.0011%            | (0.0000)                        | ACT<br>ACT |
| РЈМ               | 6/15/2022              | 53.48                         | 5/1/2022                    | 5/31/2022                     | 15.50             | 15.00                         | 30.50                       | 0.0000%                        | 0.0000                          | ACT        |

| Supplier Name PJM | Payment Date 6/15/2022 | Invoice Amount (0.09)        | Service Start Date<br>5/1/2022 | Service End Date<br>5/31/2022 | Service Lead Time<br>15.50 | Payment Lead<br>Time<br>15.00 | Total Lead<br>Time<br>30.50 | Weighting<br>Factor<br>0.0000% | Weighted<br>Lead Time<br>(0.0000) | ACT        |
|-------------------|------------------------|------------------------------|--------------------------------|-------------------------------|----------------------------|-------------------------------|-----------------------------|--------------------------------|-----------------------------------|------------|
| PJM               | 6/15/2022              | 321.80                       | 5/1/2022                       | 5/31/2022                     | 15.50                      | 15.00                         | 30.50                       | 0.0001%                        | 0.0000                            | ACT        |
| PJM               | 6/15/2022              | 493.00                       | 5/1/2022                       | 5/31/2022<br>5/31/2022        | 15.50                      | 15.00                         | 30.50                       | 0.0002%                        | 0.0001                            | ACT        |
| PJM<br>PJM        | 6/15/2022<br>6/15/2022 | 2,396.81<br>33,261.97        | 5/1/2022<br>5/1/2022           | 5/31/2022<br>5/31/2022        | 15.50<br>15.50             | 15.00<br>15.00                | 30.50<br>30.50              | 0.0009%<br>0.0119%             | 0.0003<br>0.0036                  | ACT<br>ACT |
| PJM               | 6/15/2022              | (83.68)                      | 5/1/2022                       | 5/31/2022                     | 15.50                      | 15.00                         | 30.50                       | 0.0000%                        | (0.0000)                          | ACT        |
| PJM<br>PJM        | 6/15/2022<br>6/15/2022 | (0.08)<br>186,316.93         | 5/1/2022<br>5/1/2022           | 5/31/2022<br>5/31/2022        | 15.50<br>15.50             | 15.00<br>15.00                | 30.50<br>30.50              | 0.0000%<br>0.0664%             | (0.0000)<br>0.0202                | ACT<br>ACT |
| PJM               | 6/15/2022              | 134,213.66                   | 5/1/2022                       | 5/31/2022                     | 15.50                      | 15.00                         | 30.50                       | 0.0478%                        | 0.0146                            | ACT        |
| PJM               | 6/15/2022              | 0.44                         | 5/1/2022                       | 5/31/2022                     | 15.50                      | 15.00                         | 30.50                       | 0.0000%                        | 0.0000                            | ACT        |
| PJM<br>PJM        | 6/15/2022<br>6/15/2022 | 342,874.87<br>(0.60)         | 5/1/2022<br>5/1/2022           | 5/31/2022<br>5/31/2022        | 15.50<br>15.50             | 15.00<br>15.00                | 30.50<br>30.50              | 0.1222%<br>0.0000%             | 0.0373<br>(0.0000)                | ACT<br>ACT |
| PJM               | 6/15/2022              | 560,238.30                   | 5/1/2022                       | 5/31/2022                     | 15.50                      | 15.00                         | 30.50                       | 0.1996%                        | 0.0609                            | ACT        |
| PJM<br>PJM        | 6/15/2022<br>6/15/2022 | (461,192.99)                 | 5/1/2022<br>5/1/2022           | 5/31/2022<br>5/31/2022        | 15.50<br>15.50             | 15.00<br>15.00                | 30.50<br>30.50              | -0.1643%<br>-0.0004%           | (0.0501)<br>(0.0001)              | ACT<br>ACT |
| PJM               | 6/15/2022              | (1,199.75)<br>(560,237.40)   | 5/1/2022                       | 5/31/2022                     | 15.50                      | 15.00                         | 30.50                       | -0.1996%                       | (0.0609)                          | ACT        |
| PJM               | 6/15/2022              | (4.22)                       | 5/1/2022                       | 5/31/2022                     | 15.50                      | 15.00                         | 30.50                       | 0.0000%                        | (0.0000)                          | ACT        |
| PJM<br>PJM        | 6/15/2022<br>6/15/2022 | (13,547.17)<br>(52,306.02)   | 5/1/2022<br>5/1/2022           | 5/31/2022<br>5/31/2022        | 15.50<br>15.50             | 15.00<br>15.00                | 30.50<br>30.50              | -0.0048%<br>-0.0186%           | (0.0015)<br>(0.0057)              | ACT<br>ACT |
| PJM               | 6/15/2022              | 1,252,038.35                 | 5/1/2022                       | 5/31/2022                     | 15.50                      | 15.00                         | 30.50                       | 0.4461%                        | 0.1361                            | ACT        |
| PJM<br>PJM        | 6/15/2022<br>6/15/2022 | (73,754.05)<br>0.45          | 5/1/2022<br>5/1/2022           | 5/31/2022<br>5/31/2022        | 15.50<br>15.50             | 15.00<br>15.00                | 30.50<br>30.50              | -0.0263%<br>0.0000%            | (0.0080)<br>0.0000                | ACT<br>ACT |
| PJM               | 6/15/2022              | (210,669.49)                 | 5/1/2022                       | 5/31/2022                     | 15.50                      | 15.00                         | 30.50                       | -0.0751%                       | (0.0229)                          | ACT        |
| PJM<br>P.IM       | 6/15/2022<br>6/15/2022 | 3,077,660.04                 | 5/1/2022<br>5/1/2022           | 5/31/2022<br>5/31/2022        | 15.50<br>15.50             | 15.00                         | 30.50<br>30.50              | 1.0966%<br>2.6724%             | 0.3345                            | ACT<br>ACT |
| AEG               | 7/8/2022               | 7,500,524.12<br>1,007,247.75 | 6/1/2022                       | 6/30/2022                     | 15.00                      | 15.00<br>8.00                 | 23.00                       | 0.3589%                        | 0.8151<br>0.0825                  | N/A        |
| AEG               | 7/8/2022               | 3,713,655.75                 | 6/1/2022                       | 6/30/2022                     | 15.00                      | 8.00                          | 23.00                       | 1.3232%                        | 0.3043                            | N/A        |
| PJM<br>PJM        | 6/15/2022<br>6/15/2022 | 355.48<br>(3,552.09)         | 5/1/2022<br>5/1/2022           | 5/31/2022<br>5/31/2022        | 15.50<br>15.50             | 15.00<br>15.00                | 30.50<br>30.50              | 0.0001%<br>-0.0013%            | 0.0000<br>(0.0004)                | ACT<br>ACT |
| AEG               | 7/8/2022               | 280,528.00                   | 6/1/2022                       | 6/30/2022                     | 15.00                      | 8.00                          | 23.00                       | 0.1000%                        | 0.0230                            | N/A        |
| AEG<br>AEG        | 7/8/2022<br>7/8/2022   | 308,994.00<br>2,059,677.00   | 6/1/2022<br>6/1/2022           | 6/30/2022<br>6/30/2022        | 15.00<br>15.00             | 8.00<br>8.00                  | 23.00<br>23.00              | 0.1101%<br>0.7339%             | 0.0253<br>0.1688                  | N/A<br>N/A |
| AEG               | 7/8/2022               | 1,037,165.00                 | 6/1/2022                       | 6/30/2022                     | 15.00                      | 8.00                          | 23.00                       | 0.3695%                        | 0.0850                            | N/A        |
| PJM               | 7/15/2022<br>7/15/2022 | 198,018.70                   | 6/1/2022<br>6/1/2022           | 6/30/2022<br>6/30/2022        | 15.00                      | 15.00                         | 30.00                       | 0.0706%                        | 0.0212                            | ACT        |
| PJM<br>PJM        | 7/15/2022              | 22,646.33<br>(119,572.89)    | 6/1/2022                       | 6/30/2022                     | 15.00<br>15.00             | 15.00<br>15.00                | 30.00<br>30.00              | 0.0081%<br>-0.0426%            | 0.0024<br>(0.0128)                | ACT<br>ACT |
| PJM               | 7/15/2022              | 73,553.39                    | 6/1/2022                       | 6/30/2022                     | 15.00                      | 15.00                         | 30.00                       | 0.0262%                        | 0.0079                            | ACT        |
| PJM<br>PJM        | 7/15/2022<br>7/15/2022 | 25,673.97<br>(11,655.71)     | 6/1/2022<br>6/1/2022           | 6/30/2022<br>6/30/2022        | 15.00<br>15.00             | 15.00<br>15.00                | 30.00<br>30.00              | 0.0091%                        | 0.0027<br>(0.0012)                | ACT<br>ACT |
| PJM               | 7/15/2022              | 1,801,538.57                 | 6/1/2022                       | 6/30/2022                     | 15.00                      | 15.00                         | 30.00                       | 0.6419%                        | 0.1926                            | ACT        |
| PJM               | 7/15/2022              | 1,203,977.50                 | 6/1/2022                       | 6/30/2022                     | 15.00                      | 15.00                         | 30.00                       | 0.4290%<br>0.0112%             | 0.1287                            | ACT        |
| PJM<br>PJM        | 7/15/2022<br>7/15/2022 | 31,514.86<br>13,563.73       | 6/1/2022<br>6/1/2022           | 6/30/2022<br>6/30/2022        | 15.00<br>15.00             | 15.00<br>15.00                | 30.00<br>30.00              | 0.0112%                        | 0.0034<br>0.0014                  | ACT<br>ACT |
| PJM               | 7/15/2022              | (10,970.13)                  | 6/1/2022                       | 6/30/2022                     | 15.00                      | 15.00                         | 30.00                       | -0.0039%                       | (0.0012)                          | ACT        |
| PJM<br>PJM        | 7/15/2022<br>7/15/2022 | 5,647.33<br>26.81            | 6/1/2022<br>6/1/2022           | 6/30/2022<br>6/30/2022        | 15.00<br>15.00             | 15.00<br>15.00                | 30.00<br>30.00              | 0.0020%<br>0.0000%             | 0.0006<br>0.0000                  | ACT<br>ACT |
| PJM               | 7/15/2022              | 145.40                       | 6/1/2022                       | 6/30/2022                     | 15.00                      | 15.00                         | 30.00                       | 0.0001%                        | 0.0000                            | ACT        |
| PJM<br>PJM        | 7/15/2022<br>7/15/2022 | 229.74<br>12,676.34          | 6/1/2022<br>6/1/2022           | 6/30/2022<br>6/30/2022        | 15.00<br>15.00             | 15.00<br>15.00                | 30.00<br>30.00              | 0.0001%<br>0.0045%             | 0.0000<br>0.0014                  | ACT<br>ACT |
| PJM               | 7/15/2022              | 30,762.04                    | 6/1/2022                       | 6/30/2022                     | 15.00                      | 15.00                         | 30.00                       | 0.0045%                        | 0.0014                            | ACT        |
| PJM               | 7/15/2022              | 1,422.22                     | 6/1/2022                       | 6/30/2022                     | 15.00                      | 15.00                         | 30.00                       | 0.0005%                        | 0.0002                            | ACT        |
| PJM<br>PJM        | 7/15/2022<br>7/15/2022 | (0.05)<br>(34,972.24)        | 6/1/2022<br>6/1/2022           | 6/30/2022<br>6/30/2022        | 15.00<br>15.00             | 15.00<br>15.00                | 30.00<br>30.00              | 0.0000%<br>-0.0125%            | (0.0000)<br>(0.0037)              | ACT<br>ACT |
| PJM               | 7/15/2022              | (210,708.70)                 | 6/1/2022                       | 6/30/2022                     | 15.00                      | 15.00                         | 30.00                       | -0.0751%                       | (0.0225)                          | ACT        |
| PJM<br>PJM        | 7/15/2022<br>7/15/2022 | 0.04<br>509,761.30           | 6/1/2022<br>6/1/2022           | 6/30/2022<br>6/30/2022        | 15.00<br>15.00             | 15.00<br>15.00                | 30.00<br>30.00              | 0.0000%<br>0.1816%             | 0.0000<br>0.0545                  | ACT<br>ACT |
| PJM               | 7/15/2022              | 4.28                         | 6/1/2022                       | 6/30/2022                     | 15.00                      | 15.00                         | 30.00                       | 0.0000%                        | 0.0000                            | ACT        |
| PJM<br>PJM        | 7/15/2022<br>7/15/2022 | 59,208.41                    | 6/1/2022                       | 6/30/2022<br>6/30/2022        | 15.00<br>15.00             | 15.00                         | 30.00<br>30.00              | 0.0211%                        | 0.0063                            | ACT        |
| PJM               | 7/15/2022              | (49,789.44)<br>(223,120.34)  | 6/1/2022<br>6/1/2022           | 6/30/2022                     | 15.00                      | 15.00<br>15.00                | 30.00                       | -0.0177%<br>-0.0795%           | (0.0053)                          | ACT<br>ACT |
| PJM               | 7/15/2022              | 578,912.91                   | 6/1/2022                       | 6/30/2022                     | 15.00                      | 15.00                         | 30.00                       | 0.2063%                        | 0.0619                            | ACT        |
| PJM<br>PJM        | 7/15/2022<br>7/15/2022 | (851,056.31)<br>(885.57)     | 6/1/2022<br>6/1/2022           | 6/30/2022<br>6/30/2022        | 15.00<br>15.00             | 15.00<br>15.00                | 30.00<br>30.00              | -0.3032%<br>-0.0003%           | (0.0910)<br>(0.0001)              | ACT<br>ACT |
| PJM               | 7/15/2022              | (578,911.98)                 | 6/1/2022                       | 6/30/2022                     | 15.00                      | 15.00                         | 30.00                       | -0.2063%                       | (0.0619)                          | ACT        |
| PJM<br>PJM        | 7/15/2022<br>7/15/2022 | (371.02)<br>(841.15)         | 6/1/2022<br>6/1/2022           | 6/30/2022<br>6/30/2022        | 15.00<br>15.00             | 15.00<br>15.00                | 30.00<br>30.00              | -0.0001%<br>-0.0003%           | (0.0000)<br>(0.0001)              | ACT<br>ACT |
| PJM               | 7/15/2022              | 1,374,634.32                 | 6/1/2022                       | 6/30/2022                     | 15.00                      | 15.00                         | 30.00                       | 0.4898%                        | 0.1469                            | ACT        |
| PJM<br>PJM        | 7/15/2022<br>7/15/2022 | (58,277.93)<br>0.03          | 6/1/2022<br>6/1/2022           | 6/30/2022<br>6/30/2022        | 15.00<br>15.00             | 15.00<br>15.00                | 30.00<br>30.00              | -0.0208%<br>0.0000%            | (0.0062)<br>0.0000                | ACT<br>ACT |
| PJM               | 7/15/2022              | (343,631.03)                 | 6/1/2022                       | 6/30/2022                     | 15.00                      | 15.00                         | 30.00                       | -0.1224%                       | (0.0367)                          | ACT        |
| PJM<br>PJM        | 7/15/2022<br>7/15/2022 | (467.35)<br>(476.53)         | 6/1/2022<br>6/1/2022           | 6/30/2022<br>6/30/2022        | 15.00<br>15.00             | 15.00<br>15.00                | 30.00<br>30.00              | -0.0002%<br>-0.0002%           | (0.0000)<br>(0.0001)              | ACT<br>ACT |
| PJM               | 7/15/2022              | 2,496,373.75                 | 6/1/2022                       | 6/30/2022                     | 15.00                      | 15.00                         | 30.00                       | 0.8895%                        | 0.2668                            | ACT        |
| PJM               | 7/15/2022              | 8,965,276.41                 | 6/1/2022                       | 6/30/2022                     | 15.00                      | 15.00                         | 30.00                       | 3.1943%                        | 0.9583                            | ACT        |
| AEG<br>AEG        | 8/8/2022<br>8/8/2022   | 2,380,340.50<br>4,728,560.50 | 7/1/2022<br>7/1/2022           | 7/31/2022<br>7/31/2022        | 15.50<br>15.50             | 8.00<br>8.00                  | 23.50<br>23.50              | 0.8481%<br>1.6848%             | 0.1993<br>0.3959                  | N/A<br>N/A |
| PJM               | 7/15/2022              | (70.90)                      | 6/1/2022                       | 6/30/2022                     | 15.00                      | 15.00                         | 30.00                       | 0.0000%                        | (0.0000)                          | ACT        |
| PJM<br>AEG        | 7/15/2022<br>8/8/2022  | (4,741.50)<br>2,938,942.00   | 6/1/2022<br>7/1/2022           | 6/30/2022<br>7/31/2022        | 15.00<br>15.50             | 15.00<br>8.00                 | 30.00<br>23.50              | -0.0017%<br>1.0471%            | (0.0005)<br>0.2461                | ACT<br>N/A |
| AEG               | 8/8/2022               | 1,835,857.00                 | 7/1/2022                       | 7/31/2022                     | 15.50                      | 8.00                          | 23.50                       | 0.6541%                        | 0.1537                            | N/A        |
| AEG<br>AEG        | 8/8/2022<br>8/8/2022   | 267,223.00<br>217,623.00     | 7/1/2022<br>7/1/2022           | 7/31/2022<br>7/31/2022        | 15.50<br>15.50             | 8.00<br>8.00                  | 23.50<br>23.50              | 0.0952%<br>0.0775%             | 0.0224<br>0.0182                  | N/A<br>N/A |
| PJM               | 7/15/2022              | 193,770.00                   | 6/1/2022                       | 6/30/2022                     | 15.00                      | 15.00                         | 30.00                       | 0.0690%                        | 0.0207                            | ACT        |
| PJM               | 7/15/2022              | (0.02)                       | 6/1/2022                       | 6/30/2022                     | 15.00                      | 15.00                         | 30.00                       | 0.0000%                        | (0.0000)                          | ACT        |
| PJM<br>PJM        | 7/15/2022<br>7/15/2022 | (119,573.10)<br>69,889.80    | 6/1/2022<br>6/1/2022           | 6/30/2022<br>6/30/2022        | 15.00<br>15.00             | 15.00<br>15.00                | 30.00<br>30.00              | -0.0426%<br>0.0249%            | (0.0128)<br>0.0075                | ACT<br>ACT |
| PJM               | 7/15/2022              | (0.01)                       | 6/1/2022                       | 6/30/2022<br>6/30/2022        | 15.00                      | 15.00                         | 30.00                       | 0.0000%                        | (0.0000)                          | ACT        |
| PJM<br>PJM        | 7/15/2022<br>7/15/2022 | 70,097.66<br>(17,869.93)     | 6/1/2022<br>6/1/2022           | 6/30/2022                     | 15.00<br>15.00             | 15.00<br>15.00                | 30.00<br>30.00              | 0.0250%<br>-0.0064%            | 0.0075<br>(0.0019)                | ACT<br>ACT |
| PJM               | 7/15/2022              | 1,603,280.06                 | 6/1/2022                       | 6/30/2022                     | 15.00                      | 15.00                         | 30.00                       | 0.5712%                        | 0.1714                            | ACT        |
| PJM<br>PJM        | 7/15/2022<br>7/15/2022 | 816,844.29<br>236,250.43     | 6/1/2022<br>6/1/2022           | 6/30/2022<br>6/30/2022        | 15.00<br>15.00             | 15.00<br>15.00                | 30.00<br>30.00              | 0.2910%<br>0.0842%             | 0.0873<br>0.0253                  | ACT<br>ACT |
| PJM               | 7/15/2022              | 0.02                         | 6/1/2022                       | 6/30/2022                     | 15.00                      | 15.00                         | 30.00                       | 0.0000%                        | 0.0000                            | ACT        |
| PJM<br>PJM        | 7/15/2022<br>7/15/2022 | 11,828.04<br>(43,183.72)     | 6/1/2022<br>6/1/2022           | 6/30/2022<br>6/30/2022        | 15.00<br>15.00             | 15.00<br>15.00                | 30.00<br>30.00              | 0.0042%<br>-0.0154%            | 0.0013<br>(0.0046)                | ACT<br>ACT |
| PJM               | 7/15/2022              | 11,140.73                    | 6/1/2022                       | 6/30/2022                     | 15.00                      | 15.00                         | 30.00                       | 0.0040%                        | 0.0012                            | ACT        |
| PJM               | 7/15/2022              | 85.58                        | 6/1/2022                       | 6/30/2022                     | 15.00                      | 15.00                         | 30.00                       | 0.0000%                        | 0.0000                            | ACT        |
| PJM<br>PJM        | 7/15/2022<br>7/15/2022 | 897.59<br>298.44             | 6/1/2022<br>6/1/2022           | 6/30/2022<br>6/30/2022        | 15.00<br>15.00             | 15.00<br>15.00                | 30.00<br>30.00              | 0.0003%<br>0.0001%             | 0.0001<br>0.0000                  | ACT<br>ACT |
| PJM               | 7/15/2022              | 22,475.12                    | 6/1/2022                       | 6/30/2022                     | 15.00                      | 15.00                         | 30.00                       | 0.0080%                        | 0.0024                            | ACT        |
| PJM<br>PJM        | 7/15/2022<br>8/15/2022 | 0.06<br>52,803.27            | 6/1/2022<br>7/1/2022           | 6/30/2022<br>7/31/2022        | 15.00<br>15.50             | 15.00<br>15.00                | 30.00<br>30.50              | 0.0000%<br>0.0188%             | 0.0000<br>0.0057                  | ACT<br>ACT |
| PJM               | 8/15/2022              | (536.95)                     | 7/1/2022                       | 7/31/2022                     | 15.50                      | 15.00                         | 30.50                       | -0.0002%                       | (0.0001)                          | ACT        |
| PJM<br>PJM        | 8/15/2022<br>8/15/2022 | 0.09<br>1,795,544.60         | 7/1/2022<br>7/1/2022           | 7/31/2022<br>7/31/2022        | 15.50<br>15.50             | 15.00<br>15.00                | 30.50<br>30.50              | 0.0000%<br>0.6398%             | 0.0000<br>0.1951                  | ACT<br>ACT |
| PJM               | 8/15/2022              | 28,160.54                    | 7/1/2022                       | 7/31/2022                     | 15.50                      | 15.00                         | 30.50                       | 0.0100%                        | 0.0031                            | ACT        |
| PJM               | 8/15/2022              | 0.60                         | 7/1/2022                       | 7/31/2022                     | 15.50                      | 15.00                         | 30.50                       | 0.0000%                        | 0.0000                            | ACT        |
| PJM<br>PJM        | 8/15/2022<br>8/15/2022 | 278,581.37<br>36.03          | 7/1/2022<br>7/1/2022           | 7/31/2022<br>7/31/2022        | 15.50<br>15.50             | 15.00<br>15.00                | 30.50<br>30.50              | 0.0993%<br>0.0000%             | 0.0303                            | ACT<br>ACT |
| PJM               | 8/15/2022              | (740.71)                     | 7/1/2022                       | 7/31/2022                     | 15.50                      | 15.00                         | 30.50                       | -0.0003%                       | (0.0001)                          | ACT        |
| PJM<br>PJM        | 8/15/2022<br>8/15/2022 | 890,451.00<br>(1,762,810.95) | 7/1/2022<br>7/1/2022           | 7/31/2022<br>7/31/2022        | 15.50<br>15.50             | 15.00<br>15.00                | 30.50<br>30.50              | 0.3173%<br>-0.6281%            | 0.0968<br>(0.1916)                | ACT<br>ACT |
| PJM               | 8/15/2022              | (625.21)                     | 7/1/2022                       | 7/31/2022                     | 15.50                      | 15.00                         | 30.50                       | -0.0002%                       | (0.0001)                          | ACT        |
| PJM<br>PJM        | 8/15/2022<br>8/15/2022 | 625.22<br>(890,451.00)       | 7/1/2022<br>7/1/2022           | 7/31/2022<br>7/31/2022        | 15.50<br>15.50             | 15.00<br>15.00                | 30.50<br>30.50              | 0.0002%<br>-0.3173%            | 0.0001<br>(0.0968)                | ACT<br>ACT |
| PJM               | 8/15/2022              | (150,469.57)                 | 7/1/2022                       | 7/31/2022                     | 15.50                      | 15.00                         | 30.50                       | -0.0536%                       | (0.0164)                          | ACT        |
| PJM<br>P IM       | 8/15/2022              | (1,468.34)                   | 7/1/2022                       | 7/31/2022                     | 15.50                      | 15.00                         | 30.50                       | -0.0005%                       | (0.0002)                          | ACT        |
| PJM<br>PJM        | 8/15/2022<br>8/15/2022 | (20,439.70)<br>1,744,047.08  | 7/1/2022<br>7/1/2022           | 7/31/2022<br>7/31/2022        | 15.50<br>15.50             | 15.00<br>15.00                | 30.50<br>30.50              | -0.0073%<br>0.6214%            | (0.0022)<br>0.1895                | ACT<br>ACT |
| РЈМ               | 8/15/2022              | (21,493.21)                  | 7/1/2022                       | 7/31/2022                     | 15.50                      | 15.00                         | 30.50                       | -0.0077%                       | (0.0023)                          | ACT        |

| O                    | B                         | Investor America             | Overden Other Date             | 0 d E d D d                   | Occident and There         | Payment Lead   | Total Lead     | Weighting            | Weighted             |            |
|----------------------|---------------------------|------------------------------|--------------------------------|-------------------------------|----------------------------|----------------|----------------|----------------------|----------------------|------------|
| Supplier Name<br>PJM | Payment Date<br>8/15/2022 | Invoice Amount<br>0.94       | Service Start Date<br>7/1/2022 | Service End Date<br>7/31/2022 | Service Lead Time<br>15.50 | Time<br>15.00  | Time<br>30.50  | 0.0000%              | Lead Time<br>0.0000  | ACT        |
| PJM                  | 8/15/2022                 | (385,194.11)                 | 7/1/2022                       | 7/31/2022                     | 15.50                      | 15.00          | 30.50          | -0.1372%             | (0.0419)             | ACT        |
| PJM                  | 8/15/2022                 | (1,256.17)                   | 7/1/2022                       | 7/31/2022                     | 15.50                      | 15.00          | 30.50          | -0.0004%             | (0.0001)             | ACT        |
| PJM<br>PJM           | 8/15/2022<br>8/15/2022    | 2,393,487.98<br>4,735,785.05 | 7/1/2022<br>7/1/2022           | 7/31/2022<br>7/31/2022        | 15.50<br>15.50             | 15.00<br>15.00 | 30.50<br>30.50 | 0.8528%<br>1.6874%   | 0.2601<br>0.5146     | ACT<br>ACT |
| AEG                  | 9/9/2022                  | 1,548,598.39                 | 8/1/2022                       | 8/31/2022                     | 15.50                      | 9.00           | 24.50          | 0.5518%              | 0.1352               | N/A        |
| AEG                  | 9/9/2022                  | 4,490,781.39                 | 8/1/2022                       | 8/31/2022                     | 15.50                      | 9.00           | 24.50          | 1.6001%              | 0.3920               | N/A        |
| PJM<br>PJM           | 8/15/2022<br>8/15/2022    | 724.24<br>0.19               | 7/1/2022<br>7/1/2022           | 7/31/2022<br>7/31/2022        | 15.50<br>15.50             | 15.00<br>15.00 | 30.50<br>30.50 | 0.0003%<br>0.0000%   | 0.0001<br>0.0000     | ACT<br>ACT |
| PJM                  | 8/15/2022                 | 2,948.12                     | 7/1/2022                       | 7/31/2022                     | 15.50                      | 15.00          | 30.50          | 0.0011%              | 0.0003               | ACT        |
| PJM                  | 8/15/2022                 | 1.03                         | 7/1/2022                       | 7/31/2022                     | 15.50                      | 15.00          | 30.50          | 0.0000%              | 0.0000               | ACT        |
| AEG                  | 9/9/2022                  | 288,221.00                   | 8/1/2022                       | 8/31/2022                     | 15.50                      | 9.00           | 24.50          | 0.1027%              | 0.0252               | N/A        |
| AEG<br>AEG           | 9/9/2022<br>9/9/2022      | 251,109.00<br>1,138,682.00   | 8/1/2022<br>8/1/2022           | 8/31/2022<br>8/31/2022        | 15.50<br>15.50             | 9.00<br>9.00   | 24.50<br>24.50 | 0.0895%<br>0.4057%   | 0.0219<br>0.0994     | N/A<br>N/A |
| AEG                  | 9/9/2022                  | 2,607,285.00                 | 8/1/2022                       | 8/31/2022                     | 15.50                      | 9.00           | 24.50          | 0.9290%              | 0.2276               | N/A        |
| PJM                  | 8/15/2022                 | 193,958.01                   | 7/1/2022                       | 7/31/2022                     | 15.50                      | 15.00          | 30.50          | 0.0691%              | 0.0211               | ACT        |
| PJM<br>PJM           | 8/15/2022<br>8/15/2022    | (119,572.89)<br>69,787.20    | 7/1/2022<br>7/1/2022           | 7/31/2022<br>7/31/2022        | 15.50<br>15.50             | 15.00<br>15.00 | 30.50<br>30.50 | -0.0426%<br>0.0249%  | (0.0130)<br>0.0076   | ACT<br>ACT |
| PJM                  | 8/15/2022                 | 13,002.32                    | 7/1/2022                       | 7/31/2022                     |                            | 15.00          | 30.50          | 0.0046%              | 0.0014               | ACT        |
| PJM                  | 8/15/2022                 | (4.03)                       | 7/1/2022                       | 7/31/2022                     |                            | 15.00          | 30.50          | 0.0000%              | (0.0000)             | ACT        |
| PJM<br>PJM           | 8/15/2022<br>8/15/2022    | (8,128.43)<br>4,583,911.33   | 7/1/2022<br>7/1/2022           | 7/31/2022<br>7/31/2022        | 15.50<br>15.50             | 15.00<br>15.00 | 30.50<br>30.50 | -0.0029%<br>1.6332%  | (0.0009)<br>0.4981   | ACT<br>ACT |
| PJM                  | 8/15/2022                 | 2,277,522.55                 | 7/1/2022                       | 7/31/2022                     | 15.50                      | 15.00          | 30.50          | 0.8115%              | 0.2475               | ACT        |
| PJM                  | 8/15/2022                 | 30,460.83                    | 7/1/2022                       | 7/31/2022                     | 15.50                      | 15.00          | 30.50          | 0.0109%              | 0.0033               | ACT        |
| PJM                  | 8/15/2022                 | 4,938.54                     | 7/1/2022                       | 7/31/2022                     | 15.50                      | 15.00          | 30.50          | 0.0018%              | 0.0005               | ACT        |
| PJM<br>PJM           | 8/15/2022<br>8/15/2022    | (8,323.20)<br>12,238.18      | 7/1/2022<br>7/1/2022           | 7/31/2022<br>7/31/2022        | 15.50<br>15.50             | 15.00<br>15.00 | 30.50<br>30.50 | -0.0030%<br>0.0044%  | (0.0009)<br>0.0013   | ACT<br>ACT |
| PJM                  | 8/15/2022                 | (0.62)                       | 7/1/2022                       | 7/31/2022                     | 15.50                      | 15.00          | 30.50          | 0.0000%              | (0.0000)             | ACT        |
| PJM                  | 8/15/2022                 | 8,936.38                     | 7/1/2022                       | 7/31/2022                     | 15.50                      | 15.00          | 30.50          | 0.0032%              | 0.0010               | ACT        |
| PJM<br>PJM           | 8/15/2022<br>8/15/2022    | 548.54<br>54,936.59          | 7/1/2022<br>7/1/2022           | 7/31/2022<br>7/31/2022        | 15.50<br>15.50             | 15.00<br>15.00 | 30.50<br>30.50 | 0.0002%<br>0.0196%   | 0.0001<br>0.0060     | ACT<br>ACT |
| PJM                  | 8/15/2022                 | 13.16                        | 7/1/2022                       | 7/31/2022                     | 15.50                      | 15.00          | 30.50          | 0.0000%              | 0.0000               | ACT        |
| PJM                  | 8/15/2022                 | 86,375.21                    | 7/1/2022                       | 7/31/2022                     | 15.50                      | 15.00          | 30.50          | 0.0308%              | 0.0094               | ACT        |
| PJM<br>PJM           | 8/15/2022<br>8/15/2022    | 486.23<br>(0.30)             | 7/1/2022<br>7/1/2022           | 7/31/2022<br>7/31/2022        | 15.50<br>15.50             | 15.00<br>15.00 | 30.50<br>30.50 | 0.0002%<br>0.0000%   | 0.0001<br>(0.0000)   | ACT<br>ACT |
| PJM                  | 8/15/2022                 | (0.59)                       | 7/1/2022                       | 7/31/2022                     | 15.50                      | 15.00          | 30.50          | 0.0000%              | (0.0000)             | ACT        |
| PJM                  | 9/15/2022                 | 222,122.01                   | 8/1/2022                       | 8/31/2022                     | 15.50                      | 15.00          | 30.50          | 0.0791%              | 0.0241               | ACT        |
| PJM<br>PJM           | 9/15/2022<br>9/15/2022    | 1,199,812.53<br>(298,060.07) | 8/1/2022<br>8/1/2022           | 8/31/2022<br>8/31/2022        | 15.50<br>15.50             | 15.00<br>15.00 | 30.50<br>30.50 | 0.4275%<br>-0.1062%  | 0.1304<br>(0.0324)   | ACT<br>ACT |
| PJM                  | 9/15/2022                 | 169.84                       | 8/1/2022                       | 8/31/2022                     | 15.50                      | 15.00          | 30.50          | 0.0001%              | 0.0000               | ACT        |
| PJM                  | 9/15/2022                 | (327.96)                     | 8/1/2022                       | 8/31/2022                     | 15.50                      | 15.00          | 30.50          | -0.0001%             | (0.0000)             | ACT        |
| PJM<br>PJM           | 9/15/2022<br>9/15/2022    | (36.37)<br>(170,508.85)      | 8/1/2022<br>8/1/2022           | 8/31/2022<br>8/31/2022        | 15.50<br>15.50             | 15.00<br>15.00 | 30.50<br>30.50 | 0.0000%<br>-0.0608%  | (0.0000)<br>(0.0185) | ACT<br>ACT |
| PJM                  | 9/15/2022                 | 920,132.70                   | 8/1/2022                       | 8/31/2022                     | 15.50                      | 15.00          | 30.50          | 0.3278%              | 0.1000               | ACT        |
| PJM                  | 9/15/2022                 | (1,060,680.37)               | 8/1/2022                       | 8/31/2022                     | 15.50                      | 15.00          | 30.50          | -0.3779%             | (0.1153)             | ACT        |
| PJM<br>PJM           | 9/15/2022<br>9/15/2022    | (304.12)<br>(920,132.70)     | 8/1/2022<br>8/1/2022           | 8/31/2022<br>8/31/2022        | 15.50<br>15.50             | 15.00<br>15.00 | 30.50<br>30.50 | -0.0001%<br>-0.3278% | (0.0000)             | ACT<br>ACT |
| PJM                  | 9/15/2022                 | (613.19)                     | 8/1/2022                       | 8/31/2022                     | 15.50                      | 15.00          | 30.50          | -0.0002%             | (0.0001)             | ACT        |
| PJM                  | 9/15/2022                 | (18,382.51)                  | 8/1/2022                       | 8/31/2022                     | 15.50                      | 15.00          | 30.50          | -0.0065%             | (0.0020)             | ACT        |
| PJM<br>PJM           | 9/15/2022                 | 2,082,519.34                 | 8/1/2022                       | 8/31/2022                     | 15.50                      | 15.00<br>15.00 | 30.50          | 0.7420%<br>-0.0995%  | 0.2263               | ACT        |
| PJM                  | 9/15/2022<br>9/15/2022    | (279,321.78)<br>(25.31)      | 8/1/2022<br>8/1/2022           | 8/31/2022<br>8/31/2022        | 15.50<br>15.50             | 15.00          | 30.50<br>30.50 | 0.0000%              | (0.0304) (0.0000)    | ACT<br>ACT |
| PJM                  | 9/15/2022                 | (500,367.28)                 | 8/1/2022                       | 8/31/2022                     | 15.50                      | 15.00          | 30.50          | -0.1783%             | (0.0544)             | ACT        |
| PJM<br>PJM           | 9/15/2022<br>9/15/2022    | (466.29)<br>8.41             | 8/1/2022<br>8/1/2022           | 8/31/2022<br>8/31/2022        | 15.50<br>15.50             | 15.00<br>15.00 | 30.50<br>30.50 | -0.0002%<br>0.0000%  | (0.0001)<br>0.0000   | ACT<br>ACT |
| PJM                  | 9/15/2022                 | (526.88)                     | 8/1/2022                       | 8/31/2022                     | 15.50                      | 15.00          | 30.50          | -0.0002%             | (0.0001)             | ACT        |
| PJM                  | 9/15/2022                 | 2,142,952.84                 | 8/1/2022                       | 8/31/2022                     | 15.50                      | 15.00          | 30.50          | 0.7635%              | 0.2329               | ACT        |
| PJM                  | 9/15/2022                 | 12,141,814.17                | 8/1/2022                       | 8/31/2022                     | 15.50                      | 15.00          | 30.50          | 4.3261%              | 1.3195               | ACT        |
| PJM<br>AEG           | 9/15/2022<br>10/11/2022   | 518.75<br>1,399,369.04       | 8/1/2022<br>9/1/2022           | 8/31/2022<br>9/30/2022        | 15.50<br>15.00             | 15.00<br>11.00 | 30.50<br>26.00 | 0.0002%<br>0.4986%   | 0.0001<br>0.1296     | ACT<br>N/A |
| AEG                  | 10/11/2022                | 4,370,820.00                 | 9/1/2022                       | 9/30/2022                     | 15.00                      | 11.00          | 26.00          | 1.5573%              | 0.4049               | N/A        |
| PJM                  | 9/15/2022                 | (226.34)                     | 8/1/2022                       | 8/31/2022                     | 15.50                      | 15.00          | 30.50          | -0.0001%             | (0.0000)             | ACT        |
| PJM<br>AEG           | 9/15/2022<br>10/11/2022   | (6,959.63)<br>184,750.00     | 8/1/2022<br>9/1/2022           | 8/31/2022<br>9/30/2022        | 15.50<br>15.00             | 15.00<br>11.00 | 30.50<br>26.00 | -0.0025%<br>0.0658%  | (0.0008)<br>0.0171   | ACT<br>N/A |
| AEG                  | 10/11/2022                | 196,620.00                   | 9/1/2022                       | 9/30/2022                     | 15.00                      | 11.00          | 26.00          | 0.0701%              | 0.0182               | N/A        |
| AEG                  | 10/11/2022                | 231,437.00                   | 9/1/2022                       | 9/30/2022                     | 15.00                      | 11.00          | 26.00          | 0.0825%              | 0.0214               | N/A        |
| PJM<br>PJM           | 9/15/2022<br>9/15/2022    | 191,739.03<br>(119,572.89)   | 8/1/2022<br>8/1/2022           | 8/31/2022<br>8/31/2022        | 15.50<br>15.50             | 15.00<br>15.00 | 30.50<br>30.50 | 0.0683%<br>-0.0426%  | 0.0208<br>(0.0130)   | ACT<br>ACT |
| PJM                  | 9/15/2022                 | 69,147.67                    | 8/1/2022                       | 8/31/2022                     | 15.50                      | 15.00          | 30.50          | 0.0246%              | 0.0075               | ACT        |
| PJM                  | 9/15/2022                 | 24,144.88                    | 8/1/2022                       | 8/31/2022                     |                            | 15.00          | 30.50          | 0.0086%              | 0.0026               | ACT        |
| PJM<br>PJM           | 9/15/2022<br>9/15/2022    | 1.24<br>(16,175.22)          | 8/1/2022<br>8/1/2022           | 8/31/2022<br>8/31/2022        | 15.50<br>15.50             | 15.00<br>15.00 | 30.50<br>30.50 | 0.0000%<br>-0.0058%  | 0.0000<br>(0.0018)   | ACT<br>ACT |
| PJM                  | 9/15/2022                 | 4,194,776.42                 | 8/1/2022                       | 8/31/2022                     | 15.50                      | 15.00          | 30.50          | 1.4946%              | 0.4559               | ACT        |
| PJM                  | 9/15/2022                 | 806,746.37                   | 8/1/2022                       | 8/31/2022                     |                            | 15.00          | 30.50          | 0.2874%              | 0.0877               | ACT        |
| PJM<br>PJM           | 9/15/2022<br>9/15/2022    | 27,729.16<br>8,528.80        | 8/1/2022<br>8/1/2022           | 8/31/2022<br>8/31/2022        | 15.50<br>15.50             | 15.00<br>15.00 | 30.50<br>30.50 | 0.0099%<br>0.0030%   | 0.0030<br>0.0009     | ACT<br>ACT |
| PJM                  | 9/15/2022                 | (21.91)                      | 8/1/2022                       | 8/31/2022                     | 15.50                      | 15.00          | 30.50          | 0.0000%              | (0.0000)             | ACT        |
| PJM                  | 9/15/2022                 | (3,361.77)                   | 8/1/2022                       | 8/31/2022                     | 15.50                      | 15.00          | 30.50          | -0.0012%             | (0.0004)             | ACT        |
| PJM<br>PJM           | 9/15/2022<br>9/15/2022    | 11,929.39<br>(0.10)          | 8/1/2022<br>8/1/2022           | 8/31/2022<br>8/31/2022        | 15.50<br>15.50             | 15.00<br>15.00 | 30.50<br>30.50 | 0.0043%<br>0.0000%   | 0.0013<br>(0.0000)   | ACT<br>ACT |
| PJM                  | 9/15/2022                 | 6,260.24                     | 8/1/2022                       | 8/31/2022                     | 15.50                      | 15.00          | 30.50          | 0.0022%              | 0.0007               | ACT        |
| PJM                  | 9/15/2022                 | 2,792.36                     | 8/1/2022                       | 8/31/2022                     | 15.50                      | 15.00          | 30.50          | 0.0010%              | 0.0003               | ACT        |
| PJM<br>PJM           | 9/15/2022<br>9/15/2022    | 39,063.79<br>73,190.49       | 8/1/2022<br>8/1/2022           | 8/31/2022<br>8/31/2022        | 15.50<br>15.50             | 15.00<br>15.00 | 30.50<br>30.50 | 0.0139%<br>0.0261%   | 0.0042<br>0.0080     | ACT<br>ACT |
| PJM                  | 9/15/2022                 | 298.75                       | 8/1/2022                       | 8/31/2022                     |                            | 15.00          | 30.50          | 0.0001%              | 0.0000               | ACT        |
| PJM                  | 9/15/2022                 | (2.25)                       | 8/1/2022                       | 8/31/2022                     | 15.50                      | 15.00          | 30.50          | 0.0000%              | (0.0000)             | ACT        |
| PJM<br>PJM           | 9/15/2022<br>9/15/2022    | 2.17<br>776,129.25           | 8/1/2022<br>8/1/2022           | 8/31/2022<br>8/31/2022        | 15.50<br>15.50             | 15.00<br>15.00 | 30.50<br>30.50 | 0.0000%<br>0.2765%   | 0.0000<br>0.0843     | ACT<br>ACT |
| PJM                  | 9/15/2022                 | (937,556.94)                 | 8/1/2022                       | 8/31/2022                     | 15.50                      | 15.00          | 30.50          | -0.3341%             | (0.1019)             | ACT        |
| PJM                  | 9/15/2022                 | (0.81)                       | 8/1/2022                       | 8/31/2022                     | 15.50                      | 15.00          | 30.50          | 0.0000%              | (0.0000)             | ACT        |
| PJM<br>PJM           | 9/15/2022<br>9/15/2022    | 268,141.31<br>717.76         | 8/1/2022<br>8/1/2022           | 8/31/2022<br>8/31/2022        | 15.50<br>15.50             | 15.00<br>15.00 | 30.50<br>30.50 | 0.0955%<br>0.0003%   | 0.0291<br>0.0001     | ACT<br>ACT |
| PJM                  | 9/15/2022                 | 0.31                         | 8/1/2022                       | 8/31/2022                     | 15.50                      | 15.00          | 30.50          | 0.0000%              | 0.0001               | ACT        |
| PJM                  | 9/15/2022                 | (6,359.49)                   | 8/1/2022                       | 8/31/2022                     | 15.50                      | 15.00          | 30.50          | -0.0023%             | (0.0007)             | ACT        |
| PJM<br>PJM           | 10/15/2022<br>10/15/2022  | 920,132.70<br>(644,111.00)   | 9/1/2022<br>9/1/2022           | 9/30/2022<br>9/30/2022        | 15.00<br>15.00             | 15.00<br>15.00 | 30.00<br>30.00 | 0.3278%<br>-0.2295%  | (0.0688)             | ACT<br>ACT |
| PJM<br>PJM           | 10/15/2022                | (5,362.71)                   | 9/1/2022                       | 9/30/2022                     | 15.00                      | 15.00          | 30.00          | -0.2295%             | (0.0006)             | ACT        |
| PJM                  | 10/15/2022                | 5,362.69                     | 9/1/2022                       | 9/30/2022                     | 15.00                      | 15.00          | 30.00          | 0.0019%              | 0.0006               | ACT        |
| PJM<br>PJM           | 10/15/2022<br>10/15/2022  | (920,132.70)<br>0.02         | 9/1/2022<br>9/1/2022           | 9/30/2022<br>9/30/2022        | 15.00<br>15.00             | 15.00<br>15.00 | 30.00<br>30.00 | -0.3278%<br>0.0000%  | (0.0984)<br>0.0000   | ACT<br>ACT |
| PJM                  | 10/15/2022                | (2,125.20)                   | 9/1/2022                       | 9/30/2022                     | 15.00                      | 15.00          | 30.00          | -0.0000%             | (0.0002)             | ACT        |
| PJM                  | 10/15/2022                | (22,593.44)                  | 9/1/2022                       | 9/30/2022                     | 15.00                      | 15.00          | 30.00          | -0.0081%             | (0.0024)             | ACT        |
| PJM                  | 10/15/2022                | 2,010,483.22                 | 9/1/2022                       | 9/30/2022                     | 15.00                      | 15.00          | 30.00          | 0.7163%              | 0.2149               | ACT        |
| PJM<br>PJM           | 10/15/2022<br>10/15/2022  | (293,446.14)<br>(3.01)       | 9/1/2022<br>9/1/2022           | 9/30/2022<br>9/30/2022        | 15.00<br>15.00             | 15.00<br>15.00 | 30.00<br>30.00 | -0.1046%<br>0.0000%  | (0.0314) (0.0000)    | ACT<br>ACT |
| PJM                  | 10/15/2022                | (511,224.23)                 | 9/1/2022                       | 9/30/2022                     | 15.00                      | 15.00          | 30.00          | -0.1821%             | (0.0546)             | ACT        |
| PJM<br>PJM           | 10/15/2022<br>10/15/2022  | 1,099.72                     | 9/1/2022<br>9/1/2022           | 9/30/2022<br>9/30/2022        | 15.00<br>15.00             | 15.00<br>15.00 | 30.00<br>30.00 | 0.0004%<br>0.0000%   | 0.0001<br>(0.0000)   | ACT<br>ACT |
| PJM<br>PJM           | 10/15/2022                | (3.75)<br>(515.82)           | 9/1/2022                       | 9/30/2022                     | 15.00                      | 15.00          | 30.00          | -0.0002%             | (0.0000)             | ACT        |
|                      |                           | 290 662 125 20               |                                |                               |                            |                |                |                      | 27.02                |            |

\$ 280,663,135.39

## KENTUCKY POWER COMPANY LEAD LAG STUDY AP FLOAT

Float Lead Time: 12.73 days

|                          |                          |                          |                      | Unweighted     |                  |                      |
|--------------------------|--------------------------|--------------------------|----------------------|----------------|------------------|----------------------|
| Check Number             | Date                     | Reconciled               | Amount               | Lead           | Weighting Factor |                      |
| (A)                      | (B)                      | (C)                      | (D)                  | (E)            | (F)              | (G)                  |
| 3000063709               | 10/1/2021                | 10/12/2021               | 6.71                 | 11.00          | 0.000%           | 0.000003             |
| 3000063710               | 10/1/2021                | 10/14/2021               | 8,400.00             | 13.00          | 0.030%           | 0.003885             |
| 3000063711               | 10/1/2021                | 10/18/2021               | 480.00               | 17.00          | 0.002%           | 0.000290             |
| 3000063713               | 10/1/2021                | 11/4/2021                | 1,337.66             | 34.00          | 0.005%           | 0.001618             |
| 3000063714               | 10/4/2021                | 10/18/2021               | 48,234.60            | 14.00          | 0.172%           | 0.024025             |
| 3000063715               | 10/4/2021                | 10/21/2021               | 526.06               | 17.00          | 0.002%           | 0.000318             |
| 3000063716               | 10/4/2021                | 10/19/2021               | 904.65               | 15.00          | 0.003%           | 0.000483             |
| 3000063717               | 10/4/2021                | 10/18/2021               | 23,687.30            | 14.00          | 0.084%           | 0.011798             |
| 3000063718               | 10/5/2021                | 10/13/2021               | 97.37                | 8.00           | 0.000%           | 0.000028             |
| 3000063719               | 10/6/2021                | 10/21/2021               | 300.00               | 15.00          | 0.001%           | 0.000160             |
| 3000063720               | 10/6/2021                | 10/14/2021               | 300.00               | 8.00           | 0.001%           | 0.000085             |
| 3000063721               | 10/6/2021                | 11/16/2021               | 300.00               | 41.00          | 0.001%           | 0.000438             |
| 3000063722               | 10/6/2021                | 10/26/2021               | 1,000.00             | 20.00          | 0.004%           | 0.000712             |
| 3000063723               | 10/8/2021                | 10/25/2021               | 300.00               | 17.00          | 0.001%           | 0.000181             |
| 3000063724               | 10/8/2021                | 10/15/2021               | 7.00                 | 7.00           | 0.000%           | 0.000002             |
| 3000063725               | 10/8/2021                | 10/13/2021               | 100.00               | 5.00           | 0.000%           | 0.000018             |
| 3000063726               | 10/8/2021                | 10/13/2021               | 1,489.85             | 5.00           | 0.005%           | 0.000265             |
| 3000063727               | 10/8/2021                | 10/13/2021               | 542.50               | 5.00           | 0.002%           | 0.000097             |
| 3000063728               | 10/8/2021                | 10/14/2021               | 358.89               | 6.00           | 0.001%           | 0.000077             |
| 3000063729               | 10/11/2021               | 11/1/2021                | 2,600.00             | 21.00          | 0.009%           | 0.001943             |
| 3000063730               | 10/12/2021               | 10/19/2021               | 7,025.75             | 7.00           | 0.025%           | 0.001750             |
| 3000063731               | 10/12/2021               | 10/20/2021               | 24,388.70            | 8.00           | 0.087%           | 0.006942             |
| 3000063732               | 10/12/2021               | 10/27/2021               | 4,075.63             | 15.00          | 0.015%           | 0.002175             |
| 3000063733               | 10/12/2021               | 10/21/2021               | 153.65               | 9.00           | 0.001%           | 0.000049             |
| 3000063734               | 10/12/2021               | 10/25/2021               | 2,238.92             | 13.00          | 0.008%           | 0.001036             |
| 3000063735               | 10/12/2021               | 10/20/2021               | 11,019.77            | 8.00           | 0.039%           | 0.003136             |
| 3000063736               | 10/12/2021               | 10/21/2021               | 20,867.70            | 9.00           | 0.074%           | 0.006682             |
| 3000063737               | 10/12/2021               | 10/22/2021               | 8,142.06             | 10.00          | 0.029%           | 0.002897             |
| 3000063738               | 10/13/2021               | 10/22/2021               | 89.48                | 9.00           | 0.000%           | 0.000029             |
| 3000063739               | 10/13/2021               | 11/22/2021               | 100.00               | 40.00          | 0.000%           | 0.000142             |
| 3000063741               | 10/13/2021               | 11/1/2021                | 200.00               | 19.00          | 0.001%           | 0.000135             |
| 3000063742               | 10/13/2021               | 10/28/2021               | 100.00               | 15.00          | 0.000%           | 0.000053             |
| 3000063743               | 10/13/2021               | 10/29/2021               | 50.00                | 16.00          | 0.000%           | 0.000028             |
| 3000063744               | 10/13/2021               | 11/1/2021                | 400.00               | 19.00          | 0.001%           | 0.000270             |
| 3000063745               | 10/13/2021               | 10/28/2021               | 50.00                | 15.00          | 0.000%           | 0.000027             |
| 3000063746               | 10/13/2021               | 11/3/2021<br>11/8/2021   | 100.00<br>800.00     | 21.00          | 0.000%           | 0.000075             |
| 3000063747<br>3000063748 | 10/13/2021               |                          |                      | 26.00          | 0.003%           | 0.000740             |
|                          | 10/13/2021               | 11/1/2021                | 250.00               | 19.00<br>27.00 | 0.001%           | 0.000169             |
| 3000063750               | 10/14/2021               | 11/10/2021<br>10/21/2021 | 41.25                | 7.00           | 0.000%<br>0.009% | 0.000040             |
| 3000063751               | 10/14/2021<br>10/14/2021 |                          | 2,490.00             |                |                  | 0.000620<br>0.000115 |
| 3000063752               |                          | 11/2/2021                | 170.67               | 19.00          | 0.001%           |                      |
| 3000063753               | 10/15/2021               | 10/25/2021               | 12,666.86            | 10.00          | 0.045%           | 0.004507<br>0.004222 |
| 3000063754<br>3000063755 | 10/15/2021<br>10/15/2021 | 10/25/2021<br>10/22/2021 | 11,866.80            | 10.00<br>7.00  | 0.042%<br>0.006% | 0.004222             |
| 3000063756               |                          |                          | 1,675.54<br>5,768.48 | 7.00           | 0.000%           | 0.000417             |
| 3000063757               | 10/15/2021<br>10/15/2021 | 10/22/2021<br>10/25/2021 | 14,299.61            | 10.00          | 0.051%           | 0.005087             |
| 3000063757               | 10/18/2021               | 10/26/2021               | 720.81               | 8.00           | 0.003%           | 0.003087             |
| 3000063760               | 10/18/2021               | 10/20/2021               | 1,500.00             | 2.00           | 0.005%           | 0.000203             |
| 3000063761               | 10/18/2021               | 11/5/2021                | 1,337.66             | 18.00          | 0.005%           | 0.000107             |
| 3000063762               | 10/20/2021               | 10/27/2021               | 3,829.77             | 7.00           | 0.014%           | 0.000857             |
| 3000063763               | 10/20/2021               | 10/27/2021               | 335,628.97           | 7.00           | 1.194%           | 0.083586             |
| 3000063764               | 10/20/2021               | 10/27/2021               | 173,668.00           | 7.00           | 0.618%           | 0.043251             |
| 3000063765               | 10/20/2021               | 10/26/2021               | 36,942.18            | 6.00           | 0.131%           | 0.043231             |
| 3000063766               | 10/20/2021               | 10/20/2021               | 14,400.00            | 7.00           | 0.051%           | 0.007686             |
| 3000063767               | 10/20/2021               | 11/4/2021                | 13,485.05            | 15.00          | 0.048%           | 0.003380             |
| 3000063767               | 10/21/2021               | 10/28/2021               | 909.95               | 7.00           | 0.003%           | 0.000227             |
| 0000000700               | 10/21/2021               | 10/20/2021               | 303.33               | 7.00           | 0.00070          | 5.000221             |

|                          |                        |                          |                    | Unweighted     |                    |                      |
|--------------------------|------------------------|--------------------------|--------------------|----------------|--------------------|----------------------|
| Check Number             | Date                   | Reconciled               | Amount             | Lead           | Weighting Factor V | Veighted Lead        |
| 3000063769               | 10/21/2021             | 11/22/2021               | 2,688.00           | 32.00          | 0.010%             | 0.003060             |
| 3000063770               | 10/21/2021             | 10/27/2021               | 7.00               | 6.00           | 0.000%             | 0.000001             |
| 3000063771               | 10/21/2021             | 10/26/2021               | 100.00             | 5.00           | 0.000%             | 0.000018             |
| 3000063772               | 10/21/2021             | 10/25/2021               | 1,489.85           | 4.00           | 0.005%             | 0.000212             |
| 3000063773               | 10/21/2021             | 10/26/2021               | 542.50             | 5.00           | 0.002%             | 0.000097             |
| 3000063774               | 10/21/2021             | 10/28/2021               | 237.06             | 7.00           | 0.001%             | 0.000059             |
| 3000063775               | 10/22/2021             | 11/1/2021                | 3,600.00           | 10.00          | 0.013%             | 0.001281             |
| 3000063776               | 10/22/2021             | 11/9/2021                | 3,488.28           | 18.00          | 0.012%             | 0.002234             |
| 3000063777               | 10/22/2021             | 11/4/2021                | 1,872.00           | 13.00          | 0.007%             | 0.000866             |
| 3000063778               | 10/25/2021             | 11/2/2021                | 94.98              | 8.00           | 0.000%             | 0.000027             |
| 3000063779               | 10/25/2021             | 11/1/2021                | 1,095.92           | 7.00           | 0.004%             | 0.000273             |
| 3000063780               | 10/27/2021             | 11/3/2021                | 768.87             | 7.00           | 0.003%             | 0.000191             |
| 3000063781               | 10/27/2021             | 11/3/2021                | 1,500.00           | 7.00           | 0.005%             | 0.000374             |
| 3000063782               | 10/27/2021             | 11/22/2021               | 5,984.00           | 26.00          | 0.021%             | 0.005535             |
| 3000063783               | 10/27/2021             | 11/24/2021               | 94.16              | 28.00          | 0.000%             | 0.000094             |
| 3000063784               | 10/27/2021             | 11/17/2021               | 320.26             | 21.00          | 0.001%             | 0.000239             |
| 3000063785               | 10/27/2021             | 10/29/2021               | 8,000.00           | 2.00           | 0.028%             | 0.000569             |
| 3000063786               | 10/27/2021             | 11/1/2021                | 38,000.00          | 5.00           | 0.135%             | 0.006760             |
| 3000063787               | 10/29/2021             | 11/15/2021               | 5,000.00           | 17.00          | 0.018%             | 0.003024             |
| 3000063788               | 10/29/2021             | 11/12/2021               | 1,536.57           | 14.00          | 0.005%             | 0.000765             |
| 3000063789               | 10/29/2021             | 11/5/2021                | 658.97             | 7.00           | 0.002%             | 0.000164             |
| 3000063790               | 11/1/2021              | 11/15/2021               | 32.95              | 14.00          | 0.000%             | 0.000016             |
| 3000063791               | 11/2/2021              | 11/17/2021               | 2,500.00           | 15.00          | 0.009%             | 0.001334             |
| 3000063792               | 11/2/2021              | 11/23/2021               | 17,537.11          | 21.00          | 0.062%             | 0.013102             |
| 3000063793               | 11/2/2021              | 11/22/2021               | 3,460.00           | 20.00          | 0.012%             | 0.002462             |
| 3000063794               | 11/3/2021              | 11/9/2021                | 2,445.00           | 6.00           | 0.009%             | 0.000522             |
| 3000063795               | 11/4/2021              | 11/15/2021               | 79.50              | 11.00          | 0.000%             | 0.000031             |
| 3000063796               | 11/4/2021              | 11/16/2021               | 89.50              | 12.00          | 0.000%             | 0.000038             |
| 3000063797               | 11/4/2021              | 11/23/2021               | 51,423.36          | 19.00          | 0.183%             | 0.034761             |
| 3000063798               | 11/4/2021              | 11/9/2021                | 2,516.00           | 5.00           | 0.009%             | 0.000448             |
| 3000063799               | 11/4/2021              | 11/10/2021               | 7.00               | 6.00           | 0.000%             | 0.000001             |
| 3000063800               | 11/4/2021              | 11/9/2021                | 100.00             | 5.00           | 0.000%             | 0.000018             |
| 3000063801               | 11/4/2021              | 11/9/2021                | 1,489.85           | 5.00           | 0.005%             | 0.000265             |
| 3000063802               | 11/4/2021              | 11/9/2021                | 542.50             | 5.00           | 0.002%             | 0.000097             |
| 3000063803               | 11/4/2021              | 11/9/2021                | 297.82             | 5.00           | 0.001%             | 0.000053             |
| 3000063804               | 11/5/2021              | 11/17/2021               | 93.52              | 12.00          | 0.000%             | 0.000040             |
| 3000063805               | 11/5/2021              | 12/8/2021                | 500.00             | 33.00          | 0.002%             | 0.000587             |
| 3000063806               | 11/5/2021              | 11/22/2021               | 154.44             | 17.00          | 0.001%             | 0.000093             |
| 3000063807               | 11/5/2021              | 11/12/2021               | 6,217.20           | 7.00           | 0.022%             | 0.001548             |
| 3000063808               | 11/9/2021              | 11/22/2021<br>11/26/2021 | 7,200.00<br>975.00 | 13.00<br>17.00 | 0.026%<br>0.003%   | 0.003330<br>0.000590 |
| 3000063809<br>3000063810 | 11/9/2021<br>11/9/2021 | 11/23/2021               | 975.00<br>975.00   | 14.00          | 0.003%             | 0.000390             |
| 3000063811               | 11/9/2021              | 11/19/2021               | 975.00             | 10.00          | 0.003%             | 0.000480             |
| 3000063811               | 11/9/2021              | 11/19/2021               | 805.00             | 13.00          | 0.003%             | 0.000347             |
| 3000063813               | 11/10/2021             | 11/24/2021               | 100.00             | 14.00          | 0.000%             | 0.000372             |
| 3000063814               | 11/10/2021             | 1/21/2022                | 12,600.00          | 72.00          | 0.045%             | 0.032276             |
| 3000063815               | 11/10/2021             | 11/19/2021               | 500.00             | 9.00           | 0.002%             | 0.000160             |
| 3000063816               | 11/10/2021             | 12/1/2021                | 500.00             | 21.00          | 0.002%             | 0.000374             |
| 3000063817               | 11/11/2021             | 11/22/2021               | 685.49             | 11.00          | 0.002%             | 0.000268             |
| 3000063818               | 11/11/2021             | 11/22/2021               | 200.00             | 11.00          | 0.001%             | 0.000078             |
| 3000063819               | 11/11/2021             | 11/15/2021               | 2,500.00           | 4.00           | 0.009%             | 0.000356             |
| 3000063820               | 11/12/2021             | 12/2/2021                | 1,170.00           | 20.00          | 0.004%             | 0.000833             |
| 3000063821               | 11/12/2021             | 11/22/2021               | 2,216.13           | 10.00          | 0.008%             | 0.000788             |
| 3000063822               | 11/12/2021             | 11/23/2021               | 5,742.00           | 11.00          | 0.020%             | 0.002247             |
| 3000063823               | 11/12/2021             | 11/23/2021               | 19,274.61          | 11.00          | 0.069%             | 0.007543             |
| 3000063824               | 11/12/2021             | 12/7/2021                | 4,079.91           | 25.00          | 0.015%             | 0.003629             |
| 3000063825               | 11/12/2021             | 11/23/2021               | 2,028.82           | 11.00          | 0.007%             | 0.000794             |
| 3000063826               | 11/12/2021             | 11/30/2021               | 18,881.21          | 18.00          | 0.067%             | 0.012091             |
| 3000063827               | 11/12/2021             | 11/30/2021               | 7,028.78           | 18.00          | 0.025%             | 0.004501             |
| 3000063828               | 11/12/2021             | 12/17/2021               | 250.00             | 35.00          | 0.001%             | 0.000311             |
| 3000063829               | 11/12/2021             | 12/1/2021                | 50.00              | 19.00          | 0.000%             | 0.000034             |
| 3000063830               | 11/12/2021             | 12/2/2021                | 450.00             | 20.00          | 0.002%             | 0.000320             |
| 3000063831               | 11/12/2021             | 12/1/2021                | 150.00             | 19.00          | 0.001%             | 0.000101             |
| 3000063832               | 11/15/2021             | 11/29/2021               | 494.09             | 14.00          | 0.002%             | 0.000246             |
| 3000063834               | 11/15/2021             | 11/22/2021               | 8,392.43           | 7.00           | 0.030%             | 0.002090             |
|                          |                        |                          |                    |                |                    |                      |

|                          |                        |                         |                | Unweighted    |                    |                      |
|--------------------------|------------------------|-------------------------|----------------|---------------|--------------------|----------------------|
| Check Number             | Date                   | Reconciled              | Amount         | Lead          | Weighting Factor V |                      |
| 3000063835               | 11/15/2021             | 12/1/2021               | 235.88         | 16.00         | 0.001%             | 0.000134             |
| 3000063836               | 11/15/2021             | 11/24/2021              | 8,300.00       | 9.00          | 0.030%             | 0.002658             |
| 3000063837               | 11/15/2021             | 11/24/2021              | 50.00          | 9.00          | 0.000%             | 0.000016             |
| 3000063838               | 11/16/2021             | 11/24/2021              | 436.01         | 8.00          | 0.002%             | 0.000124             |
| 3000063839               | 11/16/2021             | 12/1/2021               | 3,469.44       | 15.00         | 0.012%             | 0.001852             |
| 3000063840               | 11/17/2021             | 11/23/2021              | 600.00         | 6.00          | 0.002%             | 0.000128             |
| 3000063841               | 11/17/2021             | 11/24/2021              | 144.00         | 7.00          | 0.001%             | 0.000036             |
| 3000063842               | 11/17/2021             | 12/6/2021               | 2,857.85       | 19.00         | 0.010%             | 0.001932             |
| 3000063843               | 11/17/2021             | 11/24/2021              | 636,805.24     | 7.00          | 2.266%             | 0.158591             |
| 3000063844               | 11/18/2021             | 11/26/2021              | 7.00           | 8.00          | 0.000%             | 0.000002             |
| 3000063845               | 11/18/2021             | 11/23/2021              | 100.00         | 5.00          | 0.000%             | 0.000018             |
| 3000063846               | 11/18/2021             | 11/23/2021              | 1,489.85       | 5.00          | 0.005%             | 0.000265             |
| 3000063847               | 11/18/2021             | 11/23/2021              | 542.50         | 5.00          | 0.002%             | 0.000097             |
| 3000063848               | 11/18/2021             | 11/24/2021              | 650.96         | 6.00          | 0.002%             | 0.000139             |
| 3000063849               | 11/19/2021             | 12/6/2021               | 1,108.38       | 17.00         | 0.004%             | 0.000670             |
| 3000063850               | 11/19/2021             | 12/7/2021               | 4,416.60       | 18.00         | 0.016%             | 0.002828             |
| 3000063851               | 11/19/2021             | 11/30/2021              | 1,800.00       | 11.00         | 0.006%             | 0.000704             |
| 3000063852               | 11/19/2021             | 12/1/2021               | 2,933.50       | 12.00         | 0.010%             | 0.001252             |
| 3000063853               | 11/22/2021             | 12/6/2021               | 1,095.92       | 14.00         | 0.004%             | 0.000546             |
| 3000063854               | 11/22/2021             | 12/20/2021              | 340.00         | 28.00         | 0.001%             | 0.000339             |
| 3000063855               | 11/23/2021             | 12/8/2021               | 92,150.34      | 15.00         | 0.328%             | 0.049177             |
| 3000063856               | 11/23/2021             | 12/9/2021               | 3,996.00       | 16.00         | 0.014%             | 0.002275             |
| 3000063858               | 11/23/2021             | 12/29/2021              | 27,856.25      | 36.00         | 0.099%             | 0.035678             |
| 3000063859               | 11/23/2021             | 12/30/2021              | 100,000.00     | 37.00         | 0.356%             | 0.131637             |
| 3000063860               | 11/24/2021             | 12/6/2021               | 1,364.27       | 12.00         | 0.005%             | 0.000582             |
| 3000063861               | 11/24/2021             | 12/20/2021              | 1,500.00       | 26.00         | 0.005%             | 0.001388             |
| 3000063862               | 11/24/2021             | 12/3/2021               | 519.50         | 9.00          | 0.002%             | 0.000166             |
| 3000063863               | 11/24/2021             | 12/14/2021              | 100.00         | 20.00         | 0.000%             | 0.000071             |
| 3000063864               | 11/29/2021             | 12/17/2021              | 1,500.00       | 18.00         | 0.005%             | 0.000961             |
| 3000063865               | 11/29/2021             | 12/20/2021              | 1,500.00       | 21.00         | 0.005%             | 0.001121             |
| 3000063866               | 11/29/2021             | 12/7/2021               | 94.98          | 8.00          | 0.000%             | 0.000027             |
| 3000063867               | 11/30/2021             | 12/8/2021               | 768.87         | 8.00          | 0.003%<br>0.001%   | 0.000219             |
| 3000063873<br>3000063874 | 12/1/2021              | 12/20/2021<br>12/9/2021 | 418.00         | 19.00<br>7.00 | 0.001%             | 0.000283<br>0.000829 |
| 3000063875               | 12/2/2021              |                         | 3,330.18       | 7.00          |                    |                      |
| 3000063876               | 12/2/2021<br>12/2/2021 | 12/9/2021<br>12/7/2021  | 7.00<br>100.00 | 7.00<br>5.00  | 0.000%<br>0.000%   | 0.000002<br>0.000018 |
| 3000063877               | 12/2/2021              | 12/7/2021               | 1,489.85       | 5.00          | 0.005%             | 0.000018             |
| 3000063878               | 12/2/2021              | 12/7/2021               | 542.50         | 5.00          | 0.002%             | 0.000203             |
| 3000063879               | 12/2/2021              | 12/8/2021               | 395.76         | 6.00          | 0.001%             | 0.000097             |
| 3000063880               | 12/2/2021              | 3/1/2022                | 50.00          | 89.00         | 0.000%             | 0.000158             |
| 3000063881               | 12/3/2021              | 12/14/2021              | 98.19          | 11.00         | 0.000%             | 0.000138             |
| 3000063882               | 12/3/2021              | 12/14/2021              | 2,576.19       | 11.00         | 0.009%             | 0.001008             |
| 3000063883               | 12/6/2021              | 12/16/2021              | 192.95         | 10.00         | 0.001%             | 0.000069             |
| 3000063884               | 12/6/2021              | 12/20/2021              | 31,115.70      | 14.00         | 0.111%             | 0.015498             |
| 3000063885               | 12/6/2021              | 12/15/2021              | 173.94         | 9.00          | 0.001%             | 0.000056             |
| 3000063886               | 12/7/2021              | 12/17/2021              | 94.02          | 10.00         | 0.000%             | 0.000033             |
| 3000063888               | 12/7/2021              | 12/15/2021              | 50.00          | 8.00          | 0.000%             | 0.000014             |
| 3000063889               | 12/7/2021              | 12/17/2021              | 100.00         | 10.00         | 0.000%             | 0.000036             |
| 3000063890               | 12/7/2021              | 12/17/2021              | 100.00         | 10.00         | 0.000%             | 0.000036             |
| 3000063891               | 12/7/2021              | 3/1/2022                | 50.00          | 84.00         | 0.000%             | 0.000149             |
| 3000063892               | 12/8/2021              | 12/21/2021              | 18,064.54      | 13.00         | 0.064%             | 0.008355             |
| 3000063893               | 12/8/2021              | 1/27/2022               | 384.00         | 50.00         | 0.001%             | 0.000683             |
| 3000063894               | 12/9/2021              | 12/20/2021              | 45,259.20      | 11.00         | 0.161%             | 0.017712             |
| 3000063895               | 12/9/2021              | 12/15/2021              | 7,276.75       | 6.00          | 0.026%             | 0.001553             |
| 3000063896               | 12/9/2021              | 1/7/2022                | 250,531.86     | 29.00         | 0.891%             | 0.258485             |
| 3000063897               | 12/10/2021             | 1/18/2022               | 14,900.00      | 39.00         | 0.053%             | 0.020674             |
| 3000063898               | 12/10/2021             | 12/20/2021              | 539.91         | 10.00         | 0.002%             | 0.000192             |
| 3000063899               | 12/10/2021             | 12/20/2021              | 16,116.29      | 10.00         | 0.057%             | 0.005734             |
| 3000063900               | 12/10/2021             | 1/7/2022                | 3,209.54       | 28.00         | 0.011%             | 0.003197             |
| 3000063901               | 12/10/2021             | 12/21/2021              | 1,885.83       | 11.00         | 0.007%             | 0.000738             |
| 3000063902               | 12/10/2021             | 12/22/2021              | 18,020.27      | 12.00         | 0.064%             | 0.007693             |
| 3000063903               | 12/10/2021             | 12/20/2021              | 8,012.66       | 10.00         | 0.029%             | 0.002851             |
| 3000063904               | 12/10/2021             | 12/28/2021              | 2,062.17       | 18.00         | 0.007%             | 0.001321             |
| 3000063905               | 12/10/2021             | 1/26/2022               | 50.00          | 47.00         | 0.000%             | 0.000084             |
| 3000063906               | 12/10/2021             | 1/10/2022               | 2,208.78       | 31.00         | 0.008%             | 0.002436             |
|                          |                        |                         |                |               |                    |                      |

| Check Number | Date       | Reconciled | Amount    | Unweighted<br>Lead | Weighting Factor V | Voightad Load |
|--------------|------------|------------|-----------|--------------------|--------------------|---------------|
| 3000063907   | 12/13/2021 | 12/23/2021 | 728.30    | 10.00              | 0.003%             | 0.000259      |
| 3000063907   | 12/13/2021 | 12/23/2021 | 3,717.04  | 9.00               | 0.003%             | 0.000239      |
| 3000063909   | 12/15/2021 | 1/5/2022   | 41.49     | 21.00              | 0.000%             | 0.0001190     |
| 3000063909   | 12/15/2021 | 12/20/2021 | 2,444.71  | 5.00               | 0.009%             | 0.000435      |
| 3000063910   | 12/15/2021 | 12/20/2021 | 327.42    | 16.00              | 0.003%             | 0.000433      |
| 3000063911   | 12/15/2021 | 12/31/2021 | 200.00    | 8.00               | 0.001%             | 0.000180      |
| 3000063912   | 12/15/2021 | 12/23/2021 | 50.00     | 7.00               | 0.000%             | 0.000037      |
| 3000063913   | 12/16/2021 | 12/23/2021 | 11,872.23 | 7.00               | 0.000%             | 0.002957      |
| 3000063915   | 12/16/2021 | 1/5/2022   | 100.00    | 20.00              | 0.000%             | 0.002937      |
| 3000063916   | 12/17/2021 | 12/31/2021 | 2,861.92  | 14.00              | 0.010%             | 0.001425      |
| 3000063917   | 12/17/2021 | 1/3/2022   | 2,231.25  | 17.00              | 0.008%             | 0.001423      |
| 3000063918   | 12/17/2021 | 12/29/2021 | 5,933.40  | 12.00              | 0.021%             | 0.001549      |
| 3000063919   | 12/17/2021 | 12/24/2021 | 9,750.00  | 7.00               | 0.035%             | 0.002333      |
| 3000063919   | 12/17/2021 | 6/8/2022   | 7.00      | 173.00             | 0.000%             | 0.00043       |
| 3000063921   | 12/17/2021 | 12/22/2021 | 100.00    | 5.00               | 0.000%             | 0.000018      |
| 3000063922   | 12/17/2021 | 12/22/2021 | 1,489.85  | 5.00               | 0.005%             | 0.000265      |
| 3000063923   | 12/17/2021 | 12/23/2021 | 542.50    | 6.00               | 0.002%             | 0.000116      |
| 3000063924   | 12/17/2021 | 12/29/2021 | 419.53    | 12.00              | 0.001%             | 0.000179      |
| 3000063925   | 12/17/2021 | 1/25/2022  | 290.95    | 39.00              | 0.001%             | 0.000404      |
| 3000063926   | 12/17/2021 | 1/5/2022   | 20.00     | 19.00              | 0.000%             | 0.000404      |
| 3000063927   | 12/17/2021 | 12/30/2021 | 60.96     | 13.00              | 0.000%             | 0.000014      |
| 3000063928   | 12/20/2021 | 12/29/2021 | 219.62    | 9.00               | 0.000%             | 0.000070      |
| 3000063929   | 12/20/2021 | 12/29/2021 | 2,296.94  | 9.00               | 0.008%             | 0.000735      |
| 3000063929   | 12/21/2021 | 2/10/2022  | 60,000.00 | 51.00              | 0.213%             | 0.108867      |
| 3000063931   | 12/21/2021 | 12/28/2021 | 94.98     | 7.00               | 0.000%             | 0.000024      |
| 3000063931   | 12/21/2021 | 1/5/2022   | 25,000.00 | 15.00              | 0.089%             | 0.013342      |
| 3000063933   | 12/22/2021 | 1/3/2022   | 2,000.00  | 12.00              | 0.007%             | 0.000854      |
| 3000063934   | 12/22/2021 | 12/31/2021 | 1,095.92  | 9.00               | 0.004%             | 0.000351      |
| 3000063935   | 12/22/2021 | 1/4/2022   | 1,000.00  | 13.00              | 0.004%             | 0.000351      |
| 3000063936   | 12/22/2021 | 1/12/2022  | 4,284.56  | 21.00              | 0.015%             | 0.003201      |
| 3000063937   | 12/22/2021 | 1/5/2022   | 3,900.00  | 14.00              | 0.014%             | 0.003201      |
| 3000063938   | 12/28/2021 | 1/5/2022   | 2,533.00  | 8.00               | 0.009%             | 0.000721      |
| 3000063939   | 12/28/2021 | 1/12/2022  | 28,566.76 | 15.00              | 0.102%             | 0.015245      |
| 3000063940   | 12/30/2021 | 1/12/2022  | 714.00    | 13.00              | 0.003%             | 0.000330      |
| 3000063941   | 12/30/2021 | 1/11/2022  | 2,480.00  | 12.00              | 0.009%             | 0.001059      |
| 3000063942   | 12/30/2021 | 1/7/2022   | 30,347.87 | 8.00               | 0.108%             | 0.008638      |
| 3000063943   | 12/30/2021 | 1/7/2022   | 2,356.83  | 8.00               | 0.008%             | 0.000671      |
| 3000063944   | 12/30/2021 | 1/5/2022   | 1,489.85  | 6.00               | 0.005%             | 0.000318      |
| 3000063945   | 12/30/2021 | 1/6/2022   | 479.16    | 7.00               | 0.002%             | 0.000119      |
| 3000063946   | 12/30/2021 | 1/27/2022  | 5,200.00  | 28.00              | 0.019%             | 0.005180      |
| 3000063947   | 1/3/2022   | 2/11/2022  | 250.00    | 39.00              | 0.001%             | 0.000347      |
| 3000063948   | 1/3/2022   | 1/20/2022  | 27,550.00 | 17.00              | 0.098%             | 0.016663      |
| 3000063949   | 1/3/2022   | 1/13/2022  | 768.87    | 10.00              | 0.003%             | 0.000274      |
| 3000063950   | 1/4/2022   | 1/20/2022  | 750.00    | 16.00              | 0.003%             | 0.000427      |
| 3000063951   | 1/5/2022   | 1/20/2022  | 1,000.00  | 15.00              | 0.004%             | 0.000534      |
| 3000063952   | 1/5/2022   | 1/18/2022  | 572.10    | 13.00              | 0.002%             | 0.000265      |
| 3000063953   | 1/7/2022   | 1/19/2022  | 62,945.00 | 12.00              | 0.224%             | 0.026873      |
| 3000063954   | 1/7/2022   | 1/20/2022  | 9.72      | 13.00              | 0.000%             | 0.000004      |
| 3000063955   | 1/10/2022  | 1/24/2022  | 2,499.00  | 14.00              | 0.009%             | 0.001245      |
| 3000063956   | 1/10/2022  | 1/19/2022  | 1,200.00  | 9.00               | 0.004%             | 0.000384      |
| 3000063957   | 1/11/2022  | 1/20/2022  | 80.00     | 9.00               | 0.000%             | 0.000026      |
| 3000063958   | 1/11/2022  | 1/13/2022  | 3,000.00  | 2.00               | 0.011%             | 0.000213      |
| 3000063959   | 1/12/2022  | 1/24/2022  | 6,330.36  | 12.00              | 0.023%             | 0.002703      |
| 3000063960   | 1/12/2022  | 1/21/2022  | 20,293.87 | 9.00               | 0.072%             | 0.006498      |
| 3000063961   | 1/12/2022  | 1/26/2022  | 3,555.53  | 14.00              | 0.013%             | 0.001771      |
| 3000063962   | 1/12/2022  | 1/19/2022  | 3,255.08  | 7.00               | 0.012%             | 0.000811      |
| 3000063963   | 1/12/2022  | 1/21/2022  | 22,389.01 | 9.00               | 0.080%             | 0.007169      |
| 3000063964   | 1/12/2022  | 1/20/2022  | 6,360.85  | 8.00               | 0.023%             | 0.001810      |
| 3000063965   | 1/12/2022  | 1/24/2022  | 4,702.51  | 12.00              | 0.017%             | 0.002008      |
| 3000063966   | 1/12/2022  | 1/19/2022  | 11,348.75 | 7.00               | 0.040%             | 0.002826      |
| 3000063967   | 1/13/2022  | 1/26/2022  | 705.42    | 13.00              | 0.003%             | 0.000326      |
| 3000063968   | 1/13/2022  | 2/3/2022   | 40.98     | 21.00              | 0.000%             | 0.000031      |
| 3000063969   | 1/13/2022  | 1/27/2022  | 15,292.00 | 14.00              | 0.054%             | 0.007617      |
| 3000063970   | 1/13/2022  | 1/24/2022  | 7.00      | 11.00              | 0.000%             | 0.000003      |
| 3000063971   | 1/13/2022  | 1/20/2022  | 100.00    | 7.00               | 0.000%             | 0.000025      |
|              |            |            |           |                    |                    |               |

| Oh a ala Niverah a e     | Dete                   | December               | A                 | Unweighted     | Mainháin - Fastan M | /-:                  |
|--------------------------|------------------------|------------------------|-------------------|----------------|---------------------|----------------------|
| Check Number             | Date                   | Reconciled             | Amount            | Lead           | Weighting Factor V  |                      |
| 3000063972               | 1/13/2022              | 1/21/2022              | 1,489.85          | 8.00           | 0.005%              | 0.000424             |
| 3000063973               | 1/13/2022              | 1/20/2022              | 542.50            | 7.00<br>7.00   | 0.002%              | 0.000135             |
| 3000063974<br>3000063976 | 1/13/2022              | 1/20/2022<br>1/24/2022 | 480.16            | 10.00          | 0.002%<br>0.042%    | 0.000120             |
| 3000063976               | 1/14/2022<br>1/14/2022 | 1/24/2022              | 11,872.23         |                | 0.042%              | 0.004224<br>0.002043 |
| 3000063977               | 1/14/2022              | 1/24/2022              | 5,742.00<br>67.89 | 10.00<br>10.00 | 0.020%              | 0.002043             |
| 3000063978               | 1/17/2022              | 1/25/2022              | 4,408,803.13      | 8.00           | 15.685%             | 1.254833             |
| 3000063980               | 1/17/2022              | 2/1/2022               | 200.00            | 15.00          | 0.001%              | 0.000107             |
| 3000063981               | 1/17/2022              | 1/31/2022              | 800.00            | 13.00          | 0.001%              | 0.000107             |
| 3000063982               | 1/18/2022              | 2/16/2022              | 179.70            | 29.00          | 0.003%              | 0.000370             |
| 3000063983               | 1/18/2022              | 2/25/2022              | 614.26            | 38.00          | 0.001%              | 0.000830             |
| 3000063984               | 1/18/2022              | 5/16/2022              | 6,830.31          | 118.00         | 0.002%              | 0.028675             |
| 3000063985               | 1/20/2022              | 1/31/2022              | 2,662.26          | 11.00          | 0.009%              | 0.001042             |
| 3000063986               | 1/20/2022              | 1/31/2022              | 275,619.07        | 11.00          | 0.981%              | 0.107864             |
| 3000063987               | 1/20/2022              | 2/1/2022               | 166,012.19        | 12.00          | 0.591%              | 0.070876             |
| 3000063988               | 1/20/2022              | 1/27/2022              | 36,979.49         | 7.00           | 0.132%              | 0.009209             |
| 3000063989               | 1/21/2022              | 2/7/2022               | 185.81            | 17.00          | 0.001%              | 0.000112             |
| 3000063990               | 1/21/2022              | 2/2/2022               | 98.35             | 12.00          | 0.000%              | 0.000042             |
| 3000063991               | 1/21/2022              | 1/31/2022              | 974.35            | 10.00          | 0.003%              | 0.000347             |
| 3000063992               | 1/24/2022              | 2/8/2022               | 4,357.00          | 15.00          | 0.016%              | 0.002325             |
| 3000063993               | 1/25/2022              | 2/7/2022               | 1,095.92          | 13.00          | 0.004%              | 0.000507             |
| 3000063994               | 1/25/2022              | 3/31/2022              | 100.00            | 65.00          | 0.000%              | 0.000231             |
| 3000063995               | 1/26/2022              | 2/2/2022               | 762.07            | 7.00           | 0.003%              | 0.000190             |
| 3000063997               | 1/27/2022              | 2/2/2022               | 7.00              | 6.00           | 0.000%              | 0.000001             |
| 3000063998               | 1/27/2022              | 2/7/2022               | 1,489.85          | 11.00          | 0.005%              | 0.000583             |
| 3000063999               | 1/27/2022              | 2/2/2022               | 542.50            | 6.00           | 0.002%              | 0.000116             |
| 3000064000               | 1/27/2022              | 2/9/2022               | 632.66            | 13.00          | 0.002%              | 0.000293             |
| 3000064001               | 1/28/2022              | 2/18/2022              | 14,843.55         | 21.00          | 0.053%              | 0.011090             |
| 3000064002               | 1/28/2022              | 2/4/2022               | 10,230.00         | 7.00           | 0.036%              | 0.002548             |
| 3000064003               | 1/28/2022              | 2/10/2022              | 4,999.00          | 13.00          | 0.018%              | 0.002312             |
| 3000064004               | 1/31/2022              | 2/11/2022              | 4,063.20          | 11.00          | 0.014%              | 0.001590             |
| 3000064005               | 1/31/2022              | 2/18/2022              | 1,000.00          | 18.00          | 0.004%              | 0.000640             |
| 3000064007               | 1/31/2022              | 2/23/2022              | 92.40             | 23.00          | 0.000%              | 0.000076             |
| 3000064008               | 2/1/2022               | 2/10/2022              | 193.00            | 9.00           | 0.001%              | 0.000062             |
| 3000064009               | 2/1/2022               | 2/7/2022               | 90,165.00         | 6.00           | 0.321%              | 0.019247             |
| 3000064010               | 2/1/2022               | 2/10/2022              | 17,660.00         | 9.00           | 0.063%              | 0.005655             |
| 3000064011               | 2/2/2022               | 2/14/2022              | 591.39            | 12.00          | 0.002%              | 0.000252             |
| 3000064012               | 2/4/2022               | 2/18/2022              | 108.11            | 14.00          | 0.000%              | 0.000054             |
| 3000064013               | 2/4/2022               | 2/23/2022              | 452.51            | 19.00          | 0.002%              | 0.000306             |
| 3000064014               | 2/4/2022               | 2/16/2022              | 362.00            | 12.00          | 0.001%              | 0.000155             |
| 3000064015               | 2/7/2022               | 2/16/2022              | 150.00            | 9.00           | 0.001%              | 0.000048             |
| 3000064016               | 2/8/2022               | 2/16/2022              | 92.45             | 8.00           | 0.000%              | 0.000026             |
| 3000064017               | 2/8/2022               | 2/24/2022              | 1,092.63          | 16.00          | 0.004%              | 0.000622             |
| 3000064018               | 2/8/2022               | 2/17/2022              | 112.95            | 9.00           | 0.000%              | 0.000036             |
| 3000064019               | 2/8/2022               | 2/22/2022              | 2,405.00          | 14.00          | 0.009%              | 0.001198             |
| 3000064020               | 2/9/2022               | 2/17/2022              | 4.52<br>705.42    | 8.00           | 0.000%              | 0.000001             |
| 3000064022<br>3000064023 | 2/10/2022<br>2/10/2022 | 2/17/2022<br>2/18/2022 | 350.00            | 7.00<br>8.00   | 0.003%<br>0.001%    | 0.000176             |
| 3000064023               | 2/10/2022              | 2/18/2022<br>2/18/2022 | 7.00              | 8.00           | 0.000%              | 0.000100<br>0.000002 |
| 3000064025               | 2/10/2022              | 2/15/2022              | 1,489.85          | 5.00           | 0.005%              | 0.000002             |
| 3000064025               | 2/10/2022              | 2/15/2022              | 542.50            | 5.00           | 0.003%              | 0.000203             |
| 3000064027               | 2/10/2022              | 2/17/2022              | 392.59            | 7.00           | 0.002%              | 0.000097             |
| 3000064027               | 2/10/2022              | 6/3/2022               | 250.00            | 113.00         | 0.001%              | 0.001005             |
| 3000064029               | 2/11/2022              | 2/22/2022              | 5,443.10          | 11.00          | 0.019%              | 0.002130             |
| 3000064030               | 2/11/2022              | 2/22/2022              | 23,596.41         | 11.00          | 0.084%              | 0.009235             |
| 3000064031               | 2/11/2022              | 2/23/2022              | 4,946.70          | 12.00          | 0.018%              | 0.002112             |
| 3000064032               | 2/11/2022              | 2/22/2022              | 3,919.81          | 11.00          | 0.014%              | 0.001534             |
| 3000064033               | 2/11/2022              | 2/23/2022              | 25,627.31         | 12.00          | 0.091%              | 0.010941             |
| 3000064034               | 2/11/2022              | 2/22/2022              | 12,762.55         | 11.00          | 0.045%              | 0.004995             |
| 3000064035               | 2/14/2022              | 3/7/2022               | 40.98             | 21.00          | 0.000%              | 0.000031             |
| 3000064036               | 2/15/2022              | 2/22/2022              | 9,665.44          | 7.00           | 0.034%              | 0.002407             |
| 3000064037               | 2/15/2022              | 2/18/2022              | 6,000.00          | 3.00           | 0.021%              | 0.000640             |
| 3000064038               | 2/16/2022              | 3/9/2022               | 100.00            | 21.00          | 0.000%              | 0.000075             |
| 3000064039               | 2/16/2022              | 3/1/2022               | 300.00            | 13.00          | 0.001%              | 0.000139             |
| 3000064040               | 2/16/2022              | 3/1/2022               | 50.00             | 13.00          | 0.000%              | 0.000023             |
|                          |                        |                        |                   |                |                     |                      |

| Oh a ala Nisurah au      | Data                   | December               | A t                   | Unweighted     |                    | /-:                  |
|--------------------------|------------------------|------------------------|-----------------------|----------------|--------------------|----------------------|
| Check Number             | Date                   | Reconciled             | Amount                | Lead           | Weighting Factor V |                      |
| 3000064041               | 2/16/2022              | 3/1/2022               | 150.00                | 13.00          | 0.001%             | 0.000069             |
| 3000064042               | 2/16/2022              | 3/1/2022               | 200.00                | 13.00          | 0.001%<br>0.001%   | 0.000093             |
| 3000064043<br>3000064044 | 2/16/2022              | 3/3/2022<br>3/1/2022   | 300.00                | 15.00<br>13.00 | 0.001%             | 0.000160             |
| 3000064044               | 2/16/2022<br>2/17/2022 | 3/1/2022<br>2/24/2022  | 350.00                | 7.00           | 0.001%             | 0.000162<br>0.002598 |
| 3000064046               | 2/17/2022              | 2/24/2022<br>2/24/2022 | 10,431.14<br>5,933.40 | 7.00<br>7.00   | 0.037%             | 0.002596             |
| 3000064048               | 2/17/2022              | 2/23/2022              | 5,933.40<br>442.34    | 7.00<br>5.00   | 0.021%             | 0.00079              |
| 3000064049               | 2/18/2022              | 2/28/2022              | 659.25                | 10.00          | 0.002%             | 0.000079             |
| 3000064049               | 2/18/2022              | 2/28/2022              | 3,322.16              | 10.00          | 0.012%             | 0.000233             |
| 3000064050               | 2/21/2022              | 3/9/2022               | 3,200.00              | 16.00          | 0.012%             | 0.001162             |
| 3000064052               | 2/21/2022              | 3/7/2022               | 200.00                | 14.00          | 0.001%             | 0.0001022            |
| 3000064053               | 2/21/2022              | 3/21/2022              | 14,831.25             | 28.00          | 0.053%             | 0.014774             |
| 3000064054               | 2/21/2022              | 3/2/2022               | 1,500.00              | 9.00           | 0.005%             | 0.000480             |
| 3000064055               | 2/22/2022              | 3/1/2022               | 47.49                 | 7.00           | 0.000%             | 0.000012             |
| 3000064056               | 2/22/2022              | 3/2/2022               | 583.75                | 8.00           | 0.002%             | 0.00012              |
| 3000064057               | 2/22/2022              | 3/14/2022              | 5,000.00              | 20.00          | 0.018%             | 0.003558             |
| 3000064058               | 2/23/2022              | 3/4/2022               | 10,000.00             | 9.00           | 0.036%             | 0.003202             |
| 3000064059               | 2/23/2022              | 3/3/2022               | 357.00                | 8.00           | 0.001%             | 0.000102             |
| 3000064060               | 2/23/2022              | 3/29/2022              | 5,000.00              | 34.00          | 0.018%             | 0.006048             |
| 3000064061               | 2/23/2022              | 3/3/2022               | 1,095.97              | 8.00           | 0.004%             | 0.000312             |
| 3000064062               | 2/23/2022              | 3/3/2022               | 125.60                | 8.00           | 0.000%             | 0.000036             |
| 3000064063               | 2/24/2022              | 3/9/2022               | 690.01                | 13.00          | 0.002%             | 0.000319             |
| 3000064064               | 2/24/2022              | 3/3/2022               | 7.00                  | 7.00           | 0.000%             | 0.000002             |
| 3000064065               | 2/24/2022              | 3/1/2022               | 1,489.85              | 5.00           | 0.005%             | 0.000265             |
| 3000064066               | 2/24/2022              | 3/1/2022               | 542.50                | 5.00           | 0.002%             | 0.000200             |
| 3000064067               | 2/24/2022              | 3/2/2022               | 1,071.26              | 6.00           | 0.004%             | 0.000229             |
| 3000064068               | 2/24/2022              | 3/2/2022               | 46,000.00             | 6.00           | 0.164%             | 0.009819             |
| 3000064069               | 2/25/2022              | 3/8/2022               | 762.07                | 11.00          | 0.003%             | 0.000298             |
| 3000064070               | 2/25/2022              | 3/7/2022               | 620.00                | 10.00          | 0.002%             | 0.000221             |
| 3000064071               | 2/25/2022              | 3/10/2022              | 2,916.08              | 13.00          | 0.010%             | 0.001349             |
| 3000064072               | 2/28/2022              | 3/8/2022               | 3,493.03              | 8.00           | 0.012%             | 0.000994             |
| 3000064073               | 3/1/2022               | 3/8/2022               | 4,324.32              | 7.00           | 0.015%             | 0.001077             |
| 3000064074               | 3/1/2022               | 3/8/2022               | 274.53                | 7.00           | 0.001%             | 0.000068             |
| 3000064075               | 3/3/2022               | 3/14/2022              | 87.76                 | 11.00          | 0.000%             | 0.000034             |
| 3000064076               | 3/3/2022               | 3/11/2022              | 98.27                 | 8.00           | 0.000%             | 0.000028             |
| 3000064077               | 3/3/2022               | 3/14/2022              | 7,518.39              | 11.00          | 0.027%             | 0.002942             |
| 3000064078               | 3/3/2022               | 3/14/2022              | 2,824.00              | 11.00          | 0.010%             | 0.001105             |
| 3000064079               | 3/4/2022               | 3/16/2022              | 3,315.06              | 12.00          | 0.012%             | 0.001415             |
| 3000064080               | 3/4/2022               | 3/14/2022              | 2,130.00              | 10.00          | 0.008%             | 0.000758             |
| 3000064081               | 3/4/2022               | 3/14/2022              | 5,660.00              | 10.00          | 0.020%             | 0.002014             |
| 3000064082               | 3/4/2022               | 3/14/2022              | 20.00                 | 10.00          | 0.000%             | 0.000007             |
| 3000064083               | 3/4/2022               | 3/14/2022              | 4,245.96              | 10.00          | 0.015%             | 0.001511             |
| 3000064084               | 3/4/2022               | 3/31/2022              | 685.41                | 27.00          | 0.002%             | 0.000658             |
| 3000064085               | 3/7/2022               | 3/14/2022              | 4,455.62              | 7.00           | 0.016%             | 0.001110             |
| 3000064086               | 3/7/2022               | 3/14/2022              | 6,800.00              | 7.00           | 0.024%             | 0.001693             |
| 3000064087               | 3/7/2022               | 3/31/2022              | 1,016.22              | 24.00          | 0.004%             | 0.000868             |
| 3000064088               | 3/9/2022               | 3/21/2022              | 1,755.60              | 12.00          | 0.006%             | 0.000750             |
| 3000064089               | 3/9/2022               | 3/16/2022              | 200.00                | 7.00           | 0.001%             | 0.000050             |
| 3000064090               | 3/9/2022               | 3/17/2022              | 52,369.22             | 8.00           | 0.186%             | 0.014905             |
| 3000064091               | 3/9/2022               | 3/16/2022              | 10,000.00             | 7.00           | 0.036%             | 0.002490             |
| 3000064092               | 3/9/2022               | 4/12/2022              | 520.00                | 34.00          | 0.002%             | 0.000629             |
| 3000064093               | 3/9/2022               | 3/31/2022              | 2,426.48              | 22.00          | 0.009%             | 0.001899             |
| 3000064094               | 3/10/2022              | 3/22/2022              | 7.00                  | 12.00          | 0.000%             | 0.000003             |
| 3000064095               | 3/10/2022              | 3/29/2022              | 1,489.85              | 19.00          | 0.005%             | 0.001007             |
| 3000064097               | 3/10/2022              | 3/16/2022              | 602.57                | 6.00           | 0.002%             | 0.000129             |
| 3000064098               | 3/11/2022              | 3/18/2022              | 3,185.08              | 7.00           | 0.011%             | 0.000793             |
| 3000064099               | 3/11/2022              | 3/22/2022              | 928.00                | 11.00          | 0.003%             | 0.000363             |
| 3000064100               | 3/11/2022              | 3/22/2022              | 21,508.05             | 11.00          | 0.077%             | 0.008417             |
| 3000064101<br>3000064102 | 3/11/2022              | 3/29/2022              | 4,140.64              | 18.00          | 0.015%             | 0.002652<br>0.001832 |
| 3000064102               | 3/11/2022<br>3/11/2022 | 3/24/2022<br>3/22/2022 | 3,962.10<br>20,229.93 | 13.00<br>11.00 | 0.014%<br>0.072%   | 0.001832             |
| 3000064103               | 3/11/2022              | 3/22/2022<br>3/21/2022 | 20,229.93<br>1,351.04 | 10.00          | 0.072%             | 0.007917             |
| 3000064104               | 3/11/2022              | 3/21/2022<br>3/18/2022 | 1,351.04              | 7.00           | 0.005%             | 0.003005             |
| 3000064106               | 3/11/2022<br>3/14/2022 | 3/18/2022              | 2,550.00              | 4.00           | 0.043%             | 0.003005             |
| 3000064106               | 3/14/2022              | 3/28/2022              | 7,500.00              | 14.00          | 0.009%             | 0.003736             |
| 000000 <del>1</del> 101  | U 17/2022              | 312012022              | 1,500.00              | 17.00          | J.UZ1 /0           | 0.000130             |

|                          |                        |                        |                      | Unweighted     |                    |                      |
|--------------------------|------------------------|------------------------|----------------------|----------------|--------------------|----------------------|
| Check Number             | Date                   | Reconciled             | Amount               | Lead           | Weighting Factor \ |                      |
| 3000064108               | 3/15/2022              | 3/22/2022              | 47.49                | 7.00           | 0.000%             | 0.000012             |
| 3000064110               | 3/15/2022              | 5/20/2022              | 275,000.00           | 66.00          | 0.978%             | 0.645731             |
| 3000064111               | 3/16/2022              | 3/23/2022              | 792.54               | 7.00           | 0.003%             | 0.000197             |
| 3000064112               | 3/16/2022              | 3/28/2022              | 40.98                | 12.00          | 0.000%             | 0.000017             |
| 3000064113               | 3/18/2022              | 3/29/2022              | 131.76               | 11.00          | 0.000%             | 0.000052             |
| 3000064114               | 3/18/2022              | 3/28/2022              | 1,457.40             | 10.00<br>6.00  | 0.005%             | 0.000519             |
| 3000064115<br>3000064117 | 3/18/2022<br>3/18/2022 | 3/24/2022<br>3/30/2022 | 11,872.23            | 12.00          | 0.042%<br>0.010%   | 0.002534             |
| 3000064117               | 3/18/2022              | 3/30/2022<br>4/28/2022 | 2,851.38<br>1,375.00 | 41.00          | 0.010%             | 0.001217<br>0.002006 |
| 3000064118               | 3/18/2022              | 4/26/2022              | 377.10               | 25.00          | 0.001%             | 0.002000             |
| 3000064120               | 3/18/2022              | 4/5/2022               | 9,286.52             | 18.00          | 0.033%             | 0.005947             |
| 3000064121               | 3/21/2022              | 4/5/2022               | 300.00               | 15.00          | 0.001%             | 0.000160             |
| 3000064122               | 3/21/2022              | 4/21/2022              | 500.00               | 31.00          | 0.002%             | 0.000551             |
| 3000064123               | 3/21/2022              | 4/27/2022              | 500.00               | 37.00          | 0.002%             | 0.000658             |
| 3000064124               | 3/21/2022              | 5/3/2022               | 500.00               | 43.00          | 0.002%             | 0.000765             |
| 3000064125               | 3/22/2022              | 4/5/2022               | 147.22               | 14.00          | 0.001%             | 0.000073             |
| 3000064126               | 3/22/2022              | 3/31/2022              | 450.00               | 9.00           | 0.002%             | 0.000144             |
| 3000064127               | 3/23/2022              | 4/6/2022               | 762.07               | 14.00          | 0.003%             | 0.000380             |
| 3000064128               | 3/24/2022              | 4/4/2022               | 1,095.93             | 11.00          | 0.004%             | 0.000429             |
| 3000064129               | 3/24/2022              | 4/1/2022               | 571.15               | 8.00           | 0.002%             | 0.000163             |
| 3000064130               | 3/25/2022              | 4/6/2022               | 248.86               | 12.00          | 0.001%             | 0.000106             |
| 3000064131               | 3/25/2022              | 4/6/2022               | 2,750.00             | 12.00          | 0.010%             | 0.001174             |
| 3000064132               | 3/25/2022              | 4/4/2022               | 1,019.62             | 10.00          | 0.004%             | 0.000363             |
| 3000064133               | 3/25/2022              | 4/1/2022               | 4,231.57             | 7.00           | 0.015%             | 0.001054             |
| 3000064134               | 3/25/2022              | 5/18/2022              | 250.00               | 54.00          | 0.001%             | 0.000480             |
| 3000064135               | 3/25/2022              | 3/31/2022              | 7.00                 | 6.00           | 0.000%             | 0.000001             |
| 3000064136               | 3/25/2022              | 3/30/2022              | 1,489.85             | 5.00           | 0.005%             | 0.000265             |
| 3000064137               | 3/25/2022              | 3/30/2022              | 542.50               | 5.00           | 0.002%             | 0.000097             |
| 3000064138               | 3/25/2022              | 3/31/2022              | 1,006.03             | 6.00           | 0.004%             | 0.000215             |
| 3000064139               | 3/25/2022              | 5/9/2022               | 1,000.00             | 45.00          | 0.004%             | 0.001601             |
| 3000064140               | 3/25/2022              | 4/5/2022               | 50.00                | 11.00          | 0.000%<br>0.000%   | 0.000020             |
| 3000064141<br>3000064142 | 3/25/2022<br>3/25/2022 | 4/5/2022<br>4/13/2022  | 50.00<br>100.00      | 11.00<br>19.00 | 0.000%             | 0.000020<br>0.000068 |
| 3000064143               | 3/25/2022              | 9/27/2022              | 500.00               | 186.00         | 0.002%             | 0.003309             |
| 3000064144               | 3/25/2022              | 4/13/2022              | 150.00               | 19.00          | 0.001%             | 0.000309             |
| 3000064145               | 3/25/2022              | 4/6/2022               | 200.00               | 12.00          | 0.001%             | 0.000085             |
| 3000064146               | 3/25/2022              | 4/7/2022               | 400.00               | 13.00          | 0.001%             | 0.000185             |
| 3000064147               | 3/25/2022              | 4/7/2022               | 2,250.00             | 13.00          | 0.008%             | 0.001041             |
| 3000064148               | 3/25/2022              | 4/12/2022              | 600.00               | 18.00          | 0.002%             | 0.000384             |
| 3000064149               | 3/25/2022              | 4/13/2022              | 500.00               | 19.00          | 0.002%             | 0.000338             |
| 3000064150               | 3/25/2022              | 4/5/2022               | 300.00               | 11.00          | 0.001%             | 0.000117             |
| 3000064151               | 3/28/2022              | 4/4/2022               | 10,230.00            | 7.00           | 0.036%             | 0.002548             |
| 3000064152               | 3/28/2022              | 4/7/2022               | 1,355.16             | 10.00          | 0.005%             | 0.000482             |
| 3000064153               | 3/28/2022              | 4/4/2022               | 313,539.26           | 7.00           | 1.115%             | 0.078085             |
| 3000064154               | 3/28/2022              | 4/4/2022               | 10,391.73            | 7.00           | 0.037%             | 0.002588             |
| 3000064155               | 3/28/2022              | 4/1/2022               | 9.71                 | 4.00           | 0.000%             | 0.000001             |
| 3000064156               | 3/28/2022              | 4/4/2022               | 7,570.91             | 7.00           | 0.027%             | 0.001885             |
| 3000064157               | 3/28/2022              | 4/7/2022               | 25,591.02            | 10.00          | 0.091%             | 0.009105             |
| 3000064158               | 3/28/2022              | 4/4/2022               | 9,785.89             | 7.00           | 0.035%             | 0.002437             |
| 3000064159               | 3/28/2022              | 4/8/2022               | 10,457.63            | 11.00          | 0.037%             | 0.004093             |
| 3000064160<br>3000064161 | 3/28/2022<br>3/28/2022 | 4/12/2022<br>4/8/2022  | 100.00<br>9,811.38   | 15.00<br>11.00 | 0.000%<br>0.035%   | 0.000053<br>0.003840 |
| 3000064161               | 3/28/2022              | 4/8/2022               | 615,211.26           | 11.00          | 2.189%             | 0.240764             |
| 3000064163               | 3/28/2022              | 4/4/2022               | 218.56               | 7.00           | 0.001%             | 0.000054             |
| 3000064164               | 3/28/2022              | 4/5/2022               | 102,486.81           | 8.00           | 0.365%             | 0.029170             |
| 3000064165               | 3/28/2022              | 4/12/2022              | 2,478.75             | 15.00          | 0.009%             | 0.001323             |
| 3000064166               | 3/28/2022              | 4/6/2022               | 1,007,995.87         | 9.00           | 3.586%             | 0.322758             |
| 3000064167               | 3/28/2022              | 4/5/2022               | 10,776.16            | 8.00           | 0.038%             | 0.003067             |
| 3000064168               | 3/28/2022              | 4/5/2022               | 262,442.46           | 8.00           | 0.934%             | 0.074696             |
| 3000064169               | 3/28/2022              | 4/6/2022               | 10,834.51            | 9.00           | 0.039%             | 0.003469             |
| 3000064170               | 3/28/2022              | 4/7/2022               | 1,011,673.65         | 10.00          | 3.599%             | 0.359928             |
| 3000064171               | 3/28/2022              | 4/4/2022               | 43,382.84            | 7.00           | 0.154%             | 0.010804             |
| 3000064172               | 3/28/2022              | 4/7/2022               | 646,121.76           | 10.00          | 2.299%             | 0.229874             |
| 3000064173               | 3/28/2022              | 4/6/2022               | 13,878.05            | 9.00           | 0.049%             | 0.004444             |
| 3000064174               | 3/28/2022              | 4/5/2022               | 743,281.26           | 8.00           | 2.644%             | 0.211553             |

|              |           |            |            | Unweighted |                  |          |
|--------------|-----------|------------|------------|------------|------------------|----------|
| Check Number | Date      | Reconciled | Amount     | Lead       | Weighting Factor |          |
| 3000064175   | 3/28/2022 | 4/5/2022   | 458,263.34 | 8.00       | 1.630%           | 0.130431 |
| 3000064176   | 3/28/2022 | 4/5/2022   | 124,825.49 | 8.00       | 0.444%           | 0.035528 |
| 3000064177   | 3/28/2022 | 4/11/2022  | 196,020.36 | 14.00      | 0.697%           | 0.097635 |
| 3000064178   | 3/28/2022 | 4/4/2022   | 85,965.78  | 7.00       | 0.306%           | 0.021409 |
| 3000064179   | 3/28/2022 | 4/4/2022   | 57,490.43  | 7.00       | 0.205%           | 0.014318 |
| 3000064180   | 3/28/2022 | 4/5/2022   | 37,501.37  | 8.00       | 0.133%           | 0.010674 |
| 3000064181   | 3/28/2022 | 4/4/2022   | 33,070.56  | 7.00       | 0.118%           | 0.008236 |
| 3000064182   | 3/28/2022 | 4/5/2022   | 50,334.58  | 8.00       | 0.179%           | 0.014326 |
| 3000064183   | 3/28/2022 | 4/5/2022   | 47,978.29  | 8.00       | 0.171%           | 0.013656 |
| 3000064184   | 3/28/2022 | 4/4/2022   | 3,437.98   | 7.00       | 0.012%           | 0.000856 |
| 3000064185   | 3/28/2022 | 4/6/2022   | 20,235.42  | 9.00       | 0.072%           | 0.006479 |
| 3000064186   | 3/28/2022 | 4/8/2022   | 90,133.84  | 11.00      | 0.321%           | 0.035274 |
| 3000064187   | 3/28/2022 | 4/5/2022   | 17,423.02  | 8.00       | 0.062%           | 0.004959 |
| 3000064188   | 3/28/2022 | 4/14/2022  | 3,687.39   | 17.00      | 0.013%           | 0.002230 |
| 3000064189   | 3/28/2022 | 4/8/2022   | 914.69     | 11.00      | 0.003%           | 0.000358 |
| 3000064190   | 3/28/2022 | 4/6/2022   | 4,524.00   | 9.00       | 0.016%           | 0.001449 |
| 3000064191   | 3/28/2022 | 4/1/2022   | 2,546.27   | 4.00       | 0.009%           | 0.000362 |
| 3000064192   | 3/28/2022 | 4/1/2022   | 513.77     | 4.00       | 0.002%           | 0.000073 |
| 3000064193   | 3/28/2022 | 4/6/2022   | 51,901.58  | 9.00       | 0.185%           | 0.016619 |
| 3000064194   | 3/28/2022 | 5/9/2022   | 750.00     | 42.00      | 0.003%           | 0.001121 |
| 3000064196   | 3/28/2022 | 4/6/2022   | 1,802.52   | 9.00       | 0.006%           | 0.000577 |
| 3000064197   | 3/28/2022 | 5/16/2022  | 2,426.26   | 49.00      | 0.009%           | 0.004230 |
| 3000064198   | 3/28/2022 | 4/15/2022  | 167.60     | 18.00      | 0.001%           | 0.000107 |
| 3000064199   | 3/29/2022 | 4/7/2022   | 13,260.63  | 9.00       | 0.047%           | 0.004246 |
| 3000064200   | 3/29/2022 | 4/13/2022  | 500.00     | 15.00      | 0.002%           | 0.000267 |
| 3000064201   | 3/29/2022 | 4/18/2022  | 42.70      | 20.00      | 0.000%           | 0.000030 |
| 3000064202   | 3/30/2022 | 4/11/2022  | 10,395.00  | 12.00      | 0.037%           | 0.004438 |
| 3000064203   | 3/31/2022 | 4/13/2022  | 32.90      | 13.00      | 0.000%           | 0.000015 |
| 3000064204   | 3/31/2022 | 4/6/2022   | 41.05      | 6.00       | 0.000%           | 0.000009 |
| 3000064206   | 4/1/2022  | 4/11/2022  | 304.76     | 10.00      | 0.001%           | 0.000108 |
| 3000064207   | 4/1/2022  | 4/11/2022  | 1,048.00   | 10.00      | 0.004%           | 0.000373 |
| 3000064208   | 4/1/2022  | 4/20/2022  | 6,326.02   | 19.00      | 0.023%           | 0.004276 |
| 3000064209   | 4/1/2022  | 5/3/2022   | 500.00     | 32.00      | 0.002%           | 0.000569 |
| 3000064210   | 4/1/2022  | 4/22/2022  | 500.00     | 21.00      | 0.002%           | 0.000374 |
| 3000064211   | 4/1/2022  | 4/25/2022  | 500.00     | 24.00      | 0.002%           | 0.000427 |
| 3000064212   | 4/1/2022  | 4/11/2022  | 943.97     | 10.00      | 0.003%           | 0.000336 |
| 3000064213   | 4/4/2022  | 4/11/2022  | 596.57     | 7.00       | 0.002%           | 0.000149 |
| 3000064214   | 4/4/2022  | 5/27/2022  | 750.00     | 53.00      | 0.003%           | 0.001414 |
| 3000064215   | 4/5/2022  | 4/12/2022  | 98.50      | 7.00       | 0.000%           | 0.000025 |
| 3000064216   | 4/6/2022  | 4/13/2022  | 10,000.00  | 7.00       | 0.036%           | 0.002490 |
| 3000064217   | 4/7/2022  | 4/19/2022  | 4,357.00   | 12.00      | 0.016%           | 0.001860 |
| 3000064218   | 4/7/2022  | 4/14/2022  | 7.00       | 7.00       | 0.000%           | 0.000002 |
| 3000064219   | 4/7/2022  | 4/13/2022  | 1,489.85   | 6.00       | 0.005%           | 0.000318 |
| 3000064220   | 4/7/2022  | 4/13/2022  | 542.50     | 6.00       | 0.002%           | 0.000116 |
| 3000064221   | 4/7/2022  | 4/13/2022  | 0.40       | 6.00       | 0.000%           | 0.000000 |
| 3000064222   | 4/7/2022  | 4/12/2022  | 250.00     | 5.00       | 0.001%           | 0.000044 |
| 3000064223   | 4/8/2022  | 4/25/2022  | 3,250.00   | 17.00      | 0.012%           | 0.001966 |
| 3000064224   | 4/8/2022  | 4/19/2022  | 5,933.40   | 11.00      | 0.021%           | 0.002322 |
| 3000064225   | 4/8/2022  | 4/14/2022  | 2,050.00   | 6.00       | 0.007%           | 0.002322 |
| 3000064226   | 4/8/2022  | 4/29/2022  | 3,285.41   | 21.00      | 0.012%           | 0.002455 |
| 3000064227   | 4/11/2022 | 4/19/2022  | 574.52     | 8.00       | 0.002%           | 0.000164 |
| 3000064228   | 4/11/2022 | 4/21/2022  | 87.40      | 10.00      | 0.002%           | 0.000104 |
| 3000064229   | 4/11/2022 | 4/20/2022  | 77,110.00  | 9.00       | 0.274%           | 0.024690 |
| 3000064229   | 4/11/2022 | 4/20/2022  | 4,100.00   | 9.00       | 0.015%           | 0.024090 |
| 3000064230   | 4/11/2022 | 4/25/2022  | 300.00     | 13.00      | 0.001%           | 0.001313 |
| 3000064231   | 4/12/2022 | 4/20/2022  | 18,261.46  | 8.00       | 0.065%           | 0.005198 |
| 3000064232   | 4/12/2022 | 4/20/2022  | 3,723.70   | 8.00       | 0.003%           | 0.003198 |
|              |           |            | ·          |            |                  |          |
| 3000064234   | 4/12/2022 | 5/23/2022  | 8,763.80   | 41.00      | 0.031%           | 0.012784 |
| 3000064235   | 4/12/2022 | 4/22/2022  | 1,206.72   | 10.00      | 0.004%           | 0.000429 |
| 3000064236   | 4/12/2022 | 4/25/2022  | 7,835.38   | 13.00      | 0.028%           | 0.003624 |
| 3000064237   | 4/12/2022 | 4/22/2022  | 3,267.14   | 10.00      | 0.012%           | 0.001162 |
| 3000064238   | 4/12/2022 | 4/20/2022  | 18,097.19  | 8.00       | 0.064%           | 0.005151 |
| 3000064240   | 4/12/2022 | 4/19/2022  | 10,059.33  | 7.00       | 0.036%           | 0.002505 |
| 3000064241   | 4/13/2022 | 4/20/2022  | 20,000.00  | 7.00       | 0.071%           | 0.004981 |
| 3000064243   | 4/13/2022 | 4/18/2022  | 30,000.00  | 5.00       | 0.107%           | 0.005337 |

|              |           |            |            | Unweighted |                  |                      |
|--------------|-----------|------------|------------|------------|------------------|----------------------|
| Check Number | Date      | Reconciled | Amount     | Lead       | Weighting Factor |                      |
| 3000064244   | 4/13/2022 | 4/25/2022  | 50.00      | 12.00      | 0.000%           | 0.000021             |
| 3000064245   | 4/14/2022 | 4/19/2022  | 4,249.75   | 5.00       | 0.015%           | 0.000756             |
| 3000064246   | 4/14/2022 | 4/22/2022  | 650.00     | 8.00       | 0.002%           | 0.000185             |
| 3000064247   | 4/14/2022 | 4/19/2022  | 11,872.23  | 5.00       | 0.042%           | 0.002112             |
| 3000064248   | 4/14/2022 | 4/21/2022  | 5,359.20   | 7.00       | 0.019%           | 0.001335             |
| 3000064249   | 4/14/2022 | 4/20/2022  | 10,000.00  | 6.00       | 0.036%           | 0.002135             |
| 3000064250   | 4/18/2022 | 4/29/2022  | 1,060.00   | 11.00      | 0.004%           | 0.000415             |
| 3000064251   | 4/18/2022 | 4/25/2022  | 3,844.00   | 7.00       | 0.014%           | 0.000957             |
| 3000064252   | 4/18/2022 | 4/25/2022  | 2,321.11   | 7.00       | 0.008%           | 0.000578             |
| 3000064253   | 4/19/2022 | 4/28/2022  | 19,467.36  | 9.00       | 0.069%           | 0.006233             |
| 3000064254   | 4/19/2022 | 5/11/2022  | 499.78     | 22.00      | 0.002%           | 0.000391             |
| 3000064255   | 4/20/2022 | 4/27/2022  | 705.42     | 7.00       | 0.003%           | 0.000176             |
| 3000064256   | 4/20/2022 | 4/27/2022  | 759.40     | 7.00       | 0.003%           | 0.000189             |
| 3000064257   | 4/20/2022 | 4/25/2022  | 40,211.00  | 5.00       | 0.143%           | 0.007153             |
| 3000064258   | 4/20/2022 | 4/25/2022  | 11,215.95  | 5.00       | 0.040%           | 0.001995             |
| 3000064259   | 4/20/2022 | 4/27/2022  | 2,180.84   | 7.00       | 0.008%           | 0.000543             |
| 3000064260   | 4/20/2022 | 4/27/2022  | 286,539.42 | 7.00       | 1.019%           | 0.071360             |
| 3000064261   | 4/20/2022 | 4/28/2022  | 190,504.93 | 8.00       | 0.678%           | 0.054221             |
| 3000064262   | 4/20/2022 | 4/26/2022  | 43,897.68  | 6.00       | 0.156%           | 0.009371             |
| 3000064263   | 4/21/2022 | 4/27/2022  | 357.00     | 6.00       | 0.001%           | 0.000076             |
| 3000064264   | 4/21/2022 | 4/25/2022  | 1,667.79   | 4.00       | 0.006%           | 0.000237             |
| 3000064265   | 4/21/2022 | 4/29/2022  | 7,276.75   | 8.00       | 0.026%           | 0.002071             |
| 3000064266   | 4/21/2022 | 4/27/2022  | 7.00       | 6.00       | 0.000%           | 0.000001             |
| 3000064267   | 4/21/2022 | 5/5/2022   | 1,489.85   | 14.00      | 0.005%           | 0.000742             |
| 3000064268   | 4/21/2022 | 4/26/2022  | 542.50     | 5.00       | 0.002%           | 0.000097             |
| 3000064269   | 4/21/2022 | 10/3/2022  | 1,411.15   | 165.00     | 0.005%           | 0.008284             |
| 3000064270   | 4/21/2022 | 6/9/2022   | 2,822.42   | 49.00      | 0.010%           | 0.004920             |
| 3000064271   | 4/22/2022 | 5/2/2022   | 24,000.00  | 10.00      | 0.085%           | 0.008539             |
| 3000064272   | 4/22/2022 | 4/29/2022  | 51,662.47  | 7.00       | 0.184%           | 0.012866             |
| 3000064273   | 4/22/2022 | 4/27/2022  | 7,802.69   | 5.00       | 0.028%           | 0.001388             |
| 3000064274   | 4/22/2022 | 4/28/2022  | 14,881.69  | 6.00       | 0.053%           | 0.003177             |
| 3000064275   | 4/22/2022 | 4/27/2022  | 665,139.93 | 5.00       | 2.366%           | 0.118320             |
| 3000064277   | 4/22/2022 | 5/13/2022  | 957.72     | 21.00      | 0.003%           | 0.000716             |
| 3000064278   | 4/22/2022 | 5/4/2022   | 3,549.76   | 12.00      | 0.013%           | 0.001515             |
| 3000064279   | 4/22/2022 | 5/23/2022  | 1,000.00   | 31.00      | 0.004%           | 0.001103             |
| 3000064280   | 4/25/2022 | 5/2/2022   | 1,000.00   | 7.00       | 0.004%           | 0.000249             |
| 3000064281   | 4/25/2022 | 5/2/2022   | 6,008.30   | 7.00       | 0.021%           | 0.001496             |
| 3000064282   | 4/25/2022 | 5/19/2022  | 240.76     | 24.00      | 0.001%           | 0.000206             |
| 3000064283   | 4/26/2022 | 5/3/2022   | 47.49      | 7.00       | 0.000%           | 0.000200             |
| 3000064284   | 4/26/2022 | 5/3/2022   | 1,095.93   | 7.00       | 0.004%           | 0.000273             |
| 3000064285   | 4/26/2022 | 5/11/2022  | 8,200.00   | 15.00      | 0.029%           | 0.000275             |
| 3000064286   | 4/27/2022 | 5/2/2022   | 3,110.50   | 5.00       | 0.011%           | 0.000553             |
| 3000064287   | 4/28/2022 | 5/10/2022  | 500.00     | 12.00      | 0.002%           | 0.000333             |
| 3000064287   | 4/29/2022 | 5/12/2022  | 875.00     | 13.00      | 0.002%           | 0.000213             |
| 3000064289   | 4/29/2022 | 5/6/2022   | 20.00      | 7.00       | 0.003%           | 0.000405             |
| 3000064289   | 4/29/2022 | 5/11/2022  | 78,000.00  | 12.00      | 0.000%           | 0.033301             |
| 3000064291   | 4/29/2022 | 5/11/2022  | 4,958.90   | 14.00      | 0.278%           | 0.002470             |
| 3000064291   | 4/29/2022 | 5/11/2022  | 244.54     | 12.00      | 0.018%           |                      |
| 3000064292   |           |            |            | 10.00      | 0.018%           | 0.000104<br>0.001779 |
|              | 5/2/2022  | 5/12/2022  | 5,000.00   |            |                  |                      |
| 3000064294   | 5/2/2022  | 5/13/2022  | 113.00     | 11.00      | 0.000%           | 0.000044             |
| 3000064295   | 5/2/2022  | 5/13/2022  | 46,312.25  | 11.00      | 0.165%           | 0.018124             |
| 3000064296   | 5/3/2022  | 5/19/2022  | 250.00     | 16.00      | 0.001%           | 0.000142             |
| 3000064297   | 5/3/2022  | 5/26/2022  | 500.00     | 23.00      | 0.002%           | 0.000409             |
| 3000064298   | 5/4/2022  | 5/20/2022  | 2,500.00   | 16.00      | 0.009%           | 0.001423             |
| 3000064299   | 5/5/2022  | 5/13/2022  | 1,866.06   | 8.00       | 0.007%           | 0.000531             |
| 3000064300   | 5/5/2022  | 5/13/2022  | 98.42      | 8.00       | 0.000%           | 0.000028             |
| 3000064301   | 5/5/2022  | 5/11/2022  | 7.00       | 6.00       | 0.000%           | 0.000001             |
| 3000064302   | 5/5/2022  | 5/17/2022  | 370.75     | 12.00      | 0.001%           | 0.000158             |
| 3000064303   | 5/5/2022  | 5/10/2022  | 1,489.85   | 5.00       | 0.005%           | 0.000265             |
| 3000064304   | 5/5/2022  | 5/10/2022  | 542.50     | 5.00       | 0.002%           | 0.000097             |
| 3000064305   | 5/5/2022  | 5/11/2022  | 142.15     | 6.00       | 0.001%           | 0.000030             |
| 3000064306   | 5/5/2022  | 7/22/2022  | 35,000.00  | 78.00      | 0.125%           | 0.097127             |
| 3000064307   | 5/6/2022  | 5/13/2022  | 91.83      | 7.00       | 0.000%           | 0.000023             |
| 3000064308   | 5/6/2022  | 5/26/2022  | 2,600.00   | 20.00      | 0.009%           | 0.001850             |
| 3000064309   | 5/6/2022  | 5/12/2022  | 8,100.00   | 6.00       | 0.029%           | 0.001729             |
|              |           |            |            |            |                  |                      |

|                          |                        |                        |                       | Unweighted     |                  |                      |
|--------------------------|------------------------|------------------------|-----------------------|----------------|------------------|----------------------|
| Check Number             | Date                   | Reconciled             | Amount                | Lead           | Weighting Factor |                      |
| 3000064310               | 5/6/2022               | 5/12/2022              | 1,210.89              | 6.00           | 0.004%           | 0.000258             |
| 3000064311               | 5/6/2022               | 5/17/2022              | 65,130.00             | 11.00          | 0.232%           | 0.025489             |
| 3000064312               | 5/6/2022               | 5/23/2022              | 30.00                 | 17.00          | 0.000%           | 0.000018             |
| 3000064314               | 5/9/2022               | 5/17/2022              | 988.47                | 8.00           | 0.004%           | 0.000281             |
| 3000064315               | 5/9/2022               | 5/12/2022              | 11,563.77             | 3.00           | 0.041%           | 0.001234             |
| 3000064316               | 5/11/2022              | 5/26/2022              | 4,650.00              | 15.00          | 0.017%           | 0.002482             |
| 3000064317               | 5/12/2022              | 5/26/2022              | 4,650.00              | 14.00          | 0.017%           | 0.002316             |
| 3000064318               | 5/12/2022              | 5/27/2022              | 1,234.41              | 15.00<br>7.00  | 0.004%           | 0.000659<br>0.004642 |
| 3000064319<br>3000064320 | 5/12/2022<br>5/12/2022 | 5/19/2022<br>5/23/2022 | 18,638.56<br>3,421.58 |                | 0.066%<br>0.012% |                      |
| 3000064321               | 5/12/2022              | 5/23/2022              | 2,871.35              | 11.00<br>11.00 | 0.012%           | 0.001339<br>0.001124 |
| 3000064321               | 5/12/2022              | 5/20/2022              | 17,791.27             | 8.00           | 0.063%           | 0.005064             |
| 3000064323               | 5/12/2022              | 5/24/2022              | 1,815.71              | 12.00          | 0.006%           | 0.003004             |
| 3000064324               | 5/12/2022              | 5/23/2022              | 9,861.65              | 11.00          | 0.035%           | 0.003859             |
| 3000064325               | 5/13/2022              | 5/25/2022              | 4,350.00              | 12.00          | 0.035%           | 0.003859             |
| 3000064326               | 5/13/2022              | 5/19/2022              | 5,933.40              | 6.00           | 0.013%           | 0.001837             |
| 3000064327               | 5/13/2022              | 5/24/2022              | 4,100.00              | 11.00          | 0.015%           | 0.001207             |
| 3000064328               | 5/13/2022              | 5/24/2022              | 50.00                 | 11.00          | 0.000%           | 0.000020             |
| 3000064329               | 5/13/2022              | 5/24/2022              | 50.00                 | 11.00          | 0.000%           | 0.000020             |
| 3000064320               | 5/13/2022              | 6/1/2022               | 1,754.40              | 19.00          | 0.006%           | 0.001186             |
| 3000064331               | 5/16/2022              | 6/6/2022               | 1,750.00              | 21.00          | 0.006%           | 0.001100             |
| 3000064332               | 5/16/2022              | 5/20/2022              | 1,369.09              | 4.00           | 0.005%           | 0.000195             |
| 3000064333               | 5/16/2022              | 5/24/2022              | 10,000.00             | 8.00           | 0.036%           | 0.002846             |
| 3000064334               | 5/16/2022              | 5/27/2022              | 7,800.00              | 11.00          | 0.028%           | 0.003053             |
| 3000064335               | 5/17/2022              | 5/24/2022              | 5,563.13              | 7.00           | 0.020%           | 0.001385             |
| 3000064336               | 5/17/2022              | 5/26/2022              | 112.95                | 9.00           | 0.000%           | 0.000036             |
| 3000064337               | 5/17/2022              | 6/2/2022               | 51.08                 | 16.00          | 0.000%           | 0.000029             |
| 3000064338               | 5/18/2022              | 8/15/2022              | 188.00                | 89.00          | 0.001%           | 0.000595             |
| 3000064339               | 5/19/2022              | 5/25/2022              | 6,916.14              | 6.00           | 0.025%           | 0.001476             |
| 3000064340               | 5/19/2022              | 6/1/2022               | 1,560.00              | 13.00          | 0.006%           | 0.000722             |
| 3000064341               | 5/19/2022              | 5/27/2022              | 7.00                  | 8.00           | 0.000%           | 0.000002             |
| 3000064342               | 5/19/2022              | 5/27/2022              | 370.75                | 8.00           | 0.001%           | 0.000106             |
| 3000064343               | 5/19/2022              | 5/24/2022              | 1,489.85              | 5.00           | 0.005%           | 0.000265             |
| 3000064344               | 5/19/2022              | 6/10/2022              | 542.50                | 22.00          | 0.002%           | 0.000425             |
| 3000064345               | 5/19/2022              | 5/26/2022              | 290.15                | 7.00           | 0.001%           | 0.000072             |
| 3000064346               | 5/19/2022              | 5/25/2022              | 2,061.52              | 6.00           | 0.007%           | 0.000440             |
| 3000064348               | 5/20/2022              | 5/31/2022              | 3,283.91              | 11.00          | 0.012%           | 0.001285             |
| 3000064349               | 5/20/2022              | 6/1/2022               | 4,314.00              | 12.00          | 0.015%           | 0.001842             |
| 3000064350               | 5/20/2022              | 5/25/2022              | 7,158.06              | 5.00           | 0.025%           | 0.001273             |
| 3000064351               | 5/20/2022              | 6/10/2022              | 2,742.00              | 21.00          | 0.010%           | 0.002049             |
| 3000064352               | 5/20/2022              | 5/25/2022              | 2,352.31              | 5.00           | 0.008%           | 0.000418             |
| 3000064353               | 5/23/2022              | 6/3/2022               | 32,577.91             | 11.00          | 0.116%           | 0.012749             |
| 3000064354               | 5/23/2022              | 5/31/2022              | 1,095.93              | 8.00           | 0.004%           | 0.000312             |
| 3000064355               | 5/23/2022              | 6/1/2022               | 9,000.00              | 9.00           | 0.032%           | 0.002882             |
| 3000064356               | 5/23/2022              | 6/6/2022               | 660.00                | 14.00          | 0.002%           | 0.000329             |
| 3000064357               | 5/24/2022              | 6/1/2022               | 94.98                 | 8.00           | 0.000%           | 0.000027             |
| 3000064358               | 5/24/2022              | 6/14/2022              | 13,257.52             | 21.00          | 0.047%           | 0.009905             |
| 3000064359               | 5/24/2022              | 6/6/2022               | 450.00                | 13.00          | 0.002%           | 0.000208             |
| 3000064360               | 5/25/2022              | 6/3/2022               | 200.00                | 9.00           | 0.001%           | 0.000064             |
| 3000064361               | 5/25/2022              | 6/2/2022               | 383,997.71            | 8.00           | 1.366%           | 0.109293             |
| 3000064362               | 5/25/2022              | 6/6/2022               | 196,597.52            | 12.00          | 0.699%           | 0.083933             |
| 3000064363               | 5/26/2022              | 6/10/2022              | 500.00                | 15.00          | 0.002%           | 0.000267             |
| 3000064364<br>3000064365 | 5/26/2022<br>5/26/2022 | 6/10/2022              | 6,169.24              | 15.00<br>20.00 | 0.022%<br>0.001% | 0.003292             |
| 3000064366               | 5/27/2022              | 6/15/2022<br>6/8/2022  | 174.46<br>339.20      | 12.00          | 0.001%           | 0.000124<br>0.000145 |
| 3000064367               | 5/27/2022              | 6/10/2022              | 498.00                | 14.00          | 0.001%           | 0.000143             |
| 3000064369               | 5/27/2022              | 6/2/2022               | 3,854.79              | 6.00           | 0.002 %          | 0.000248             |
| 3000064370               | 5/31/2022              | 6/28/2022              | 153.00                | 28.00          | 0.001%           | 0.000152             |
| 3000064370               | 5/31/2022              | 6/15/2022              | 50.00                 | 15.00          | 0.001%           | 0.000152             |
| 3000064371               | 5/31/2022              | 6/15/2022              | 50.00                 | 15.00          | 0.000%           | 0.000027             |
| 3000064372               | 5/31/2022              | 6/15/2022              | 100.00                | 15.00          | 0.000%           | 0.000027             |
| 3000064374               | 5/31/2022              | 6/16/2022              | 50.00                 | 16.00          | 0.000%           | 0.000033             |
| 3000064375               | 5/31/2022              | 6/27/2022              | 200.00                | 27.00          | 0.000%           | 0.000192             |
| 3000064376               | 5/31/2022              | 6/14/2022              | 50.00                 | 14.00          | 0.000%           | 0.000192             |
| 3000064377               | 5/31/2022              | 6/15/2022              | 50.00                 | 15.00          | 0.000%           | 0.000023             |
| 00000011                 | 0/01/2022              | 0/10/2022              | 50.00                 | 10.00          | 0.00070          | 3.000021             |

| 0                        | 5.4                    |                        |                       | Unweighted     |                  |                      |
|--------------------------|------------------------|------------------------|-----------------------|----------------|------------------|----------------------|
| Check Number             | Date                   | Reconciled             | Amount                | Lead           | Weighting Factor |                      |
| 3000064378               | 5/31/2022              | 6/17/2022              | 200.00                | 17.00          | 0.001%           | 0.000121             |
| 3000064379               | 5/31/2022              | 6/28/2022              | 750.00                | 28.00          | 0.003%           | 0.000747             |
| 3000064380               | 5/31/2022              | 6/15/2022              | 500.00                | 15.00          | 0.002%           | 0.000267             |
| 3000064381               | 6/1/2022               | 6/15/2022              | 759.40                | 14.00          | 0.003%           | 0.000378             |
| 3000064382               | 6/1/2022               | 6/17/2022              | 40.98                 | 16.00          | 0.000%           | 0.000023             |
| 3000064383               | 6/1/2022               | 6/14/2022              | 4,100.00              | 13.00          | 0.015%           | 0.001896             |
| 3000064384               | 6/2/2022               | 6/9/2022               | 2,506.85              | 7.00           | 0.009%           | 0.000624             |
| 3000064385               | 6/2/2022               | 6/14/2022              | 7.00                  | 12.00          | 0.000%           | 0.000003             |
| 3000064386               | 6/2/2022               | 6/7/2022               | 150.00                | 5.00           | 0.001%           | 0.000027             |
| 3000064387               | 6/2/2022               | 6/14/2022              | 370.75                | 12.00          | 0.001%           | 0.000158             |
| 3000064388               | 6/2/2022               | 6/7/2022               | 1,489.85              | 5.00           | 0.005%           | 0.000265             |
| 3000064389               | 6/2/2022               | 6/29/2022              | 542.50                | 27.00          | 0.002%           | 0.000521             |
| 3000064390               | 6/3/2022               | 6/10/2022              | 2,267.40              | 7.00<br>6.00   | 0.008%           | 0.000565             |
| 3000064391               | 6/3/2022               | 6/9/2022               | 300.00                |                | 0.001%           | 0.000064             |
| 3000064392               | 6/3/2022               | 6/9/2022               | 1,150.05              | 6.00           | 0.004%           | 0.000245             |
| 3000064393               | 6/3/2022               | 6/21/2022              | 600.00                | 18.00          | 0.002%           | 0.000384             |
| 3000064394               | 6/3/2022               | 7/26/2022              | 500.00                | 53.00          | 0.002%           | 0.000943             |
| 3000064395               | 6/3/2022               | 6/21/2022              | 500.00                | 18.00          | 0.002%           | 0.000320             |
| 3000064396               | 6/3/2022               | 6/16/2022              | 500.00                | 13.00          | 0.002%           | 0.000231             |
| 3000064397               | 6/6/2022               | 6/13/2022              | 1,997.52              | 7.00           | 0.007%           | 0.000497             |
| 3000064399               | 6/8/2022               | 6/16/2022              | 87.40                 | 8.00           | 0.000%           | 0.000025             |
| 3000064400               | 6/9/2022               | 6/17/2022              | 1,628.90              | 8.00           | 0.006%           | 0.000464             |
| 3000064401               | 6/9/2022               | 6/15/2022              | 98.58                 | 6.00           | 0.000%           | 0.000021             |
| 3000064402               | 6/9/2022               | 6/22/2022              | 112.90                | 13.00          | 0.000%           | 0.000052             |
| 3000064403               | 6/9/2022               | 6/23/2022              | 6,000.00              | 14.00          | 0.021%           | 0.002989             |
| 3000064404               | 6/9/2022               | 7/5/2022               | 30,000.00             | 26.00          | 0.107%           | 0.027750             |
| 3000064405               | 6/10/2022              | 7/5/2022               | 10,000.00             | 25.00          | 0.036%           | 0.008894             |
| 3000064406               | 6/10/2022              | 6/21/2022              | 4,970.00              | 11.00          | 0.018%           | 0.001945             |
| 3000064407               | 6/10/2022              | 6/23/2022              | 4,101.32              | 13.00          | 0.015%           | 0.001897             |
| 3000064408               | 6/10/2022              | 6/22/2022              | 86,000.00             | 12.00          | 0.306%           | 0.036716             |
| 3000064409               | 6/10/2022              | 6/22/2022              | 676.60                | 12.00          | 0.002%           | 0.000289             |
| 3000064410               | 6/10/2022              | 6/22/2022              | 18,040.39             | 12.00          | 0.064%           | 0.007702             |
| 3000064411               | 6/10/2022              | 6/28/2022              | 3,455.91              | 18.00          | 0.012%           | 0.002213             |
| 3000064412               | 6/10/2022              | 6/23/2022              | 1,747.92              | 13.00          | 0.006%           | 0.000808             |
| 3000064413               | 6/10/2022              | 6/22/2022              | 2,441.09              | 12.00          | 0.009%           | 0.001042             |
| 3000064414               | 6/10/2022              | 6/22/2022              | 19,776.27             | 12.00          | 0.070%           | 0.008443             |
| 3000064415               | 6/10/2022              | 6/22/2022              | 15,826.37             | 12.00          | 0.056%           | 0.006757             |
| 3000064416<br>3000064417 | 6/10/2022              | 7/5/2022               | 4,237.84              | 25.00          | 0.015%           | 0.003769             |
| 3000064418               | 6/10/2022              | 6/22/2022              | 9,051.18              | 12.00<br>9.00  | 0.032%           | 0.003864             |
| 3000064418               | 6/13/2022<br>6/13/2022 | 6/22/2022<br>6/28/2022 | 705.42<br>2,000.00    | 9.00<br>15.00  | 0.003%<br>0.007% | 0.000226<br>0.001067 |
| 3000064419               | 6/13/2022              | 6/27/2022              | 300.00                | 14.00          | 0.007%           | 0.001067             |
|                          | 6/15/2022              |                        | 17,500.00             | 7.00           | 0.062%           |                      |
| 3000064422               |                        | 6/22/2022              | ,                     | 8.00           | 0.020%           | 0.004358             |
| 3000064423<br>3000064424 | 6/16/2022<br>6/16/2022 | 6/24/2022<br>6/22/2022 | 5,742.00<br>14,553.50 | 6.00           | 0.052%           | 0.001634<br>0.003107 |
| 3000064425               | 6/16/2022              | 6/22/2022              | 10,000.00             | 6.00           | 0.032%           | 0.003107             |
| 3000064426               | 6/16/2022              | 6/24/2022              | 7.00                  | 8.00           | 0.000%           | 0.002133             |
| 3000064427               | 6/16/2022              | 6/22/2022              | 150.00                | 6.00           | 0.001%           | 0.000032             |
| 3000064428               | 6/16/2022              | 11/4/2022              | 363.08                | 141.00         | 0.001%           | 0.000032             |
| 3000064429               | 6/16/2022              | 6/22/2022              | 1,489.85              | 6.00           | 0.001%           | 0.001821             |
| 3000064430               | 6/16/2022              | 6/22/2022              | 542.50                | 6.00           | 0.003%           | 0.000316             |
| 3000064431               | 6/17/2022              | 6/23/2022              | 4,375.00              | 6.00           | 0.016%           | 0.000110             |
| 3000064432               | 6/17/2022              | 6/22/2022              | 970.20                | 5.00           | 0.003%           | 0.000934             |
| 3000064433               | 6/17/2022              | 6/23/2022              | 298.61                | 6.00           | 0.003%           | 0.000173             |
| 3000064434               | 6/17/2022              | 8/8/2022               | 150.00                | 52.00          | 0.001%           | 0.00004              |
| 3000064435               | 6/17/2022              | 6/22/2022              | 2,050.00              | 5.00           | 0.001%           | 0.000278             |
| 3000064436               | 6/17/2022              | 6/27/2022              | 2,413.94              | 10.00          | 0.007 %          | 0.000363             |
| 3000064437               | 6/21/2022              | 6/29/2022              | 766.99                | 8.00           | 0.003%           | 0.000659             |
| 3000064438               |                        | 6/29/2022              |                       | 8.00           | 0.003%           | 0.000218             |
|                          | 6/21/2022              |                        | 360.00<br>7.002.41    |                |                  | 0.000102             |
| 3000064439<br>3000064440 | 6/21/2022<br>6/22/2022 | 7/15/2022<br>8/5/2022  | 7,902.41<br>7,500.00  | 24.00<br>44.00 | 0.028%<br>0.027% | 0.006748             |
| 3000064441               | 6/22/2022              | 9/1/2022               | 270,000.00            | 71.00          | 0.027%<br>0.961% | 0.682020             |
| 3000064441               | 6/23/2022              | 7/19/2022              | 270,000.00            | 71.00<br>26.00 | 0.961%           | 0.00265              |
| 3000064442               |                        |                        |                       | 26.00<br>15.00 | 0.001%           |                      |
| 3000064444               | 6/23/2022<br>6/24/2022 | 7/8/2022<br>6/29/2022  | 1,000.00<br>47.49     | 5.00           | 0.004%           | 0.000534<br>0.000008 |
| 3000004444               | 012412022              | 0/29/2022              | 41.49                 | 5.00           | 0.000%           | 0.00000              |

| Check Number | Date      | Reconciled | Amount       | Unweighted<br>Lead | Weighting Factor V | Voighted Load |
|--------------|-----------|------------|--------------|--------------------|--------------------|---------------|
| 3000064445   | 6/24/2022 | 7/7/2022   | 1,095.93     | 13.00              | 0.004%             | 0.000507      |
| 3000064446   | 6/27/2022 | 7/11/2022  | 200.00       | 14.00              | 0.004%             | 0.000307      |
| 3000064447   | 6/27/2022 | 7/5/2022   | 12,460.00    | 8.00               | 0.044%             | 0.003546      |
| 3000064448   | 6/28/2022 | 11/18/2022 | 500.00       | 143.00             | 0.002%             | 0.003544      |
| 3000064448   | 6/28/2022 | 7/7/2022   | 924,283.83   | 9.00               | 3.288%             | 0.295953      |
| 3000064450   | 6/28/2022 | 7/7/2022   | 500.00       | 9.00               | 0.002%             | 0.293933      |
| 3000064451   | 6/28/2022 | 8/17/2022  | 200.00       | 50.00              | 0.002%             | 0.000160      |
| 3000064451   | 6/28/2022 | 7/11/2022  | 3,488.50     | 13.00              | 0.001%             | 0.001613      |
| 3000064452   | 6/29/2022 | 7/6/2022   | 47.49        | 7.00               | 0.000%             | 0.000012      |
| 3000064454   | 6/29/2022 | 7/5/2022   | 53.71        | 6.00               | 0.000%             | 0.000012      |
| 3000064455   | 6/29/2022 | 7/5/2022   | 6,944.65     | 6.00               | 0.025%             | 0.001482      |
| 3000064456   | 6/29/2022 | 7/21/2022  | 100.00       | 22.00              | 0.000%             | 0.000078      |
| 3000064457   | 6/30/2022 | 7/6/2022   | 414.00       | 6.00               | 0.000%             | 0.000078      |
| 3000064458   | 6/30/2022 | 7/7/2022   | 118,500.00   | 7.00               | 0.422%             | 0.029512      |
| 3000064459   | 6/30/2022 | 7/7/2022   | 7.00         | 7.00               | 0.000%             | 0.000002      |
| 3000064460   | 6/30/2022 | 7/8/2022   | 150.00       | 8.00               | 0.001%             | 0.000043      |
| 3000064461   | 6/30/2022 | 7/12/2022  | 370.75       | 12.00              | 0.001%             | 0.000158      |
| 3000064462   | 6/30/2022 | 7/8/2022   | 1,489.85     | 8.00               | 0.005%             | 0.000424      |
| 3000064463   | 6/30/2022 | 7/8/2022   | 542.50       | 8.00               | 0.002%             | 0.000424      |
| 3000064464   | 6/30/2022 | 8/19/2022  | 17,400.36    | 50.00              | 0.062%             | 0.030953      |
| 3000064465   | 7/1/2022  | 7/7/2022   | 15,000.00    | 6.00               | 0.053%             | 0.003202      |
| 3000064466   | 7/1/2022  | 7/20/2022  | 15,000.00    | 19.00              | 0.053%             | 0.010140      |
| 3000064467   | 7/1/2022  | 7/7/2022   | 1,660.44     | 6.00               | 0.006%             | 0.000354      |
| 3000064468   | 7/5/2022  | 7/15/2022  | 5,856.00     | 10.00              | 0.021%             | 0.002083      |
| 3000064469   | 7/6/2022  | 7/19/2022  | 201,148.92   | 13.00              | 0.716%             | 0.093033      |
| 3000064470   | 7/7/2022  | 8/1/2022   | 500,425.25   | 25.00              | 1.780%             | 0.445097      |
| 3000064471   | 7/7/2022  | 8/1/2022   | 553,613.94   | 25.00              | 1.970%             | 0.492405      |
| 3000064471   | 7/7/2022  | 8/1/2022   | 745,447.74   | 25.00              | 2.652%             | 0.663029      |
| 3000064472   | 7/7/2022  | 8/1/2022   | 1,729,451.49 | 25.00              | 6.153%             | 1.538238      |
| 3000064474   | 7/8/2022  | 7/14/2022  | 98.50        | 6.00               | 0.000%             | 0.000021      |
| 3000064475   | 7/8/2022  | 7/14/2022  | 13,500.00    | 12.00              | 0.048%             | 0.005764      |
| 3000064476   | 7/8/2022  | 7/22/2022  | 5,979.32     | 14.00              | 0.021%             | 0.002978      |
| 3000064477   | 7/11/2022 | 7/19/2022  | 4,100.00     | 8.00               | 0.015%             | 0.001167      |
| 3000064478   | 7/11/2022 | 7/19/2022  | 5,850.00     | 8.00               | 0.021%             | 0.001665      |
| 3000064479   | 7/11/2022 | 7/19/2022  | 21,989.84    | 7.00               | 0.078%             | 0.005476      |
| 3000064480   | 7/12/2022 | 7/27/2022  | 3,856.08     | 15.00              | 0.014%             | 0.002058      |
| 3000064481   | 7/12/2022 | 7/20/2022  | 3,685.98     | 8.00               | 0.013%             | 0.001049      |
| 3000064482   | 7/12/2022 | 7/26/2022  | 2,132.37     | 14.00              | 0.008%             | 0.001062      |
| 3000064483   | 7/12/2022 | 7/22/2022  | 22,322.02    | 10.00              | 0.079%             | 0.007942      |
| 3000064484   | 7/12/2022 | 7/22/2022  | 10,857.56    | 10.00              | 0.039%             | 0.003863      |
| 3000064485   | 7/12/2022 | 7/21/2022  | 20,747.52    | 9.00               | 0.074%             | 0.006643      |
| 3000064486   | 7/12/2022 | 8/1/2022   | 3,589.33     | 20.00              | 0.013%             | 0.002554      |
| 3000064487   | 7/12/2022 | 7/19/2022  | 8,601.22     | 7.00               | 0.031%             | 0.002142      |
| 3000064488   | 7/13/2022 | 8/1/2022   | 225,205.38   | 19.00              | 0.801%             | 0.152233      |
| 3000064489   | 7/14/2022 | 7/26/2022  | 7.00         | 12.00              | 0.000%             | 0.000003      |
| 3000064490   | 7/14/2022 | 7/19/2022  | 150.00       | 5.00               | 0.001%             | 0.000027      |
| 3000064491   | 7/14/2022 | 7/26/2022  | 112.26       | 12.00              | 0.000%             | 0.000048      |
| 3000064492   | 7/14/2022 | 7/19/2022  | 1,489.85     | 5.00               | 0.005%             | 0.000265      |
| 3000064493   | 7/14/2022 | 7/19/2022  | 542.50       | 5.00               | 0.002%             | 0.000097      |
| 3000064494   | 7/15/2022 | 7/21/2022  | 705.42       | 6.00               | 0.003%             | 0.000151      |
| 3000064495   | 7/15/2022 | 7/25/2022  | 775.88       | 10.00              | 0.003%             | 0.000276      |
| 3000064496   | 7/15/2022 | 7/21/2022  | 1,940.00     | 6.00               | 0.007%             | 0.000414      |
| 3000064497   | 7/15/2022 | 7/21/2022  | 5,933.40     | 6.00               | 0.021%             | 0.001267      |
| 3000064498   | 7/15/2022 | 7/20/2022  | 10,000.00    | 5.00               | 0.036%             | 0.001779      |
| 3000064499   | 7/15/2022 | 7/27/2022  | 4,742.19     | 12.00              | 0.017%             | 0.002025      |
| 3000064500   | 7/15/2022 | 7/28/2022  | 50.00        | 13.00              | 0.000%             | 0.000023      |
| 3000064501   | 7/15/2022 | 8/9/2022   | 100.00       | 25.00              | 0.000%             | 0.000089      |
| 3000064502   | 7/15/2022 | 8/18/2022  | 50.00        | 34.00              | 0.000%             | 0.000060      |
| 3000064503   | 7/15/2022 | 7/27/2022  | 50.00        | 12.00              | 0.000%             | 0.000021      |
| 3000064504   | 7/15/2022 | 8/8/2022   | 50.00        | 24.00              | 0.000%             | 0.000043      |
| 3000064505   | 7/15/2022 | 7/27/2022  | 459.00       | 12.00              | 0.002%             | 0.000196      |
| 3000064506   | 7/15/2022 | 7/27/2022  | 50.00        | 12.00              | 0.000%             | 0.000021      |
| 3000064507   | 7/15/2022 | 7/28/2022  | 743.47       | 13.00              | 0.003%             | 0.000344      |
| 3000064508   | 7/18/2022 | 7/26/2022  | 5,375.00     | 8.00               | 0.019%             | 0.001530      |
| 3000064509   | 7/18/2022 | 8/1/2022   | 1,518.21     | 14.00              | 0.005%             | 0.000756      |
|              |           |            |              |                    |                    |               |

|                          | <b>D</b> .             | 5 ".                   |                       | Unweighted     |                  |                      |
|--------------------------|------------------------|------------------------|-----------------------|----------------|------------------|----------------------|
| Check Number             | Date                   | Reconciled             | Amount                | Lead           | Weighting Factor |                      |
| 3000064510               | 7/19/2022              | 7/29/2022              | 501.42                | 10.00          | 0.002%           | 0.000178             |
| 3000064511               | 7/19/2022              | 7/27/2022              | 89.80                 | 8.00<br>9.00   | 0.000%<br>0.121% | 0.000026             |
| 3000064512<br>3000064513 | 7/19/2022<br>7/19/2022 | 7/28/2022<br>8/15/2022 | 34,100.00<br>82.00    | 9.00<br>27.00  | 0.121%           | 0.010919<br>0.000079 |
| 3000064514               | 7/19/2022              | 7/27/2022              | 3,512.20              | 7.00           | 0.000%           | 0.000079             |
| 3000064515               | 7/20/2022              | 7/28/2022              | 297,385.57            | 8.00           | 1.058%           | 0.084642             |
| 3000064516               | 7/20/2022              | 7/28/2022              | 167,274.81            | 8.00           | 0.595%           | 0.047610             |
| 3000064517               | 7/20/2022              | 7/26/2022              | 36,013.96             | 6.00           | 0.128%           | 0.007688             |
| 3000064517               | 7/20/2022              | 7/28/2022              | 135,000.00            | 8.00           | 0.480%           | 0.038424             |
| 3000064519               | 7/21/2022              | 2/10/2023              | 420.00                | 204.00         | 0.001%           | 0.003048             |
| 3000064520               | 7/21/2022              | 7/27/2022              | 645.00                | 6.00           | 0.002%           | 0.000138             |
| 3000064521               | 7/21/2022              | 7/27/2022              | 2,050.00              | 6.00           | 0.007%           | 0.000438             |
| 3000064522               | 7/21/2022              | 8/9/2022               | 3,625.90              | 19.00          | 0.013%           | 0.002451             |
| 3000064523               | 7/21/2022              | 8/1/2022               | 14,077.14             | 11.00          | 0.050%           | 0.005509             |
| 3000064524               | 7/21/2022              | 7/28/2022              | 50,300.00             | 7.00           | 0.179%           | 0.012527             |
| 3000064525               | 7/22/2022              | 8/1/2022               | 400.00                | 10.00          | 0.001%           | 0.000142             |
| 3000064526               | 7/22/2022              | 7/28/2022              | 239.36                | 6.00           | 0.001%           | 0.000051             |
| 3000064527               | 7/22/2022              | 8/5/2022               | 500.00                | 14.00          | 0.002%           | 0.000249             |
| 3000064528               | 7/22/2022              | 8/9/2022               | 175.00                | 18.00          | 0.001%           | 0.000112             |
| 3000064529               | 7/25/2022              | 8/1/2022               | 1,095.93              | 7.00           | 0.004%           | 0.000273             |
| 3000064530               | 7/25/2022              | 7/29/2022              | 73.80                 | 4.00           | 0.000%           | 0.000011             |
| 3000064531               | 7/25/2022              | 8/23/2022              | 4,800.00              | 29.00          | 0.017%           | 0.004952             |
| 3000064532               | 7/25/2022              | 8/10/2022              | 561.42                | 16.00          | 0.002%           | 0.000320             |
| 3000064533               | 7/26/2022              | 8/2/2022               | 77.80                 | 7.00           | 0.000%           | 0.000019             |
| 3000064534               | 7/26/2022              | 8/2/2022               | 94.98                 | 7.00           | 0.000%           | 0.000024             |
| 3000064535               | 7/28/2022              | 8/11/2022              | 37.50                 | 14.00          | 0.000%           | 0.000019             |
| 3000064536               | 7/28/2022              | 8/2/2022               | 1,489.85              | 5.00           | 0.005%           | 0.000265             |
| 3000064537               | 7/28/2022              | 9/29/2022              | 129.40                | 63.00          | 0.000%           | 0.000290             |
| 3000064538               | 7/29/2022              | 8/5/2022               | 112.95                | 7.00           | 0.000%           | 0.000028             |
| 3000064539               | 7/29/2022              | 8/5/2022               | 6,713.00              | 7.00           | 0.024%           | 0.001672             |
| 3000064540<br>3000064541 | 7/29/2022<br>7/29/2022 | 8/9/2022<br>8/12/2022  | 94,620.96<br>8,545.67 | 11.00<br>14.00 | 0.337%<br>0.030% | 0.037030<br>0.004256 |
| 3000064542               | 8/2/2022               | 8/16/2022              | 94.35                 | 14.00          | 0.000%           | 0.0004230            |
| 3000064543               | 8/2/2022               | 8/11/2022              | 112.95                | 9.00           | 0.000%           | 0.000047             |
| 3000064544               | 8/3/2022               | 8/15/2022              | 98.27                 | 12.00          | 0.000%           | 0.000030             |
| 3000064545               | 8/3/2022               | 8/12/2022              | 1,150.00              | 9.00           | 0.004%           | 0.000368             |
| 3000064547               | 8/5/2022               | 8/12/2022              | 2,914.56              | 7.00           | 0.010%           | 0.000726             |
| 3000064548               | 8/5/2022               | 8/10/2022              | 20.00                 | 5.00           | 0.000%           | 0.000004             |
| 3000064549               | 8/5/2022               | 9/1/2022               | 250.00                | 27.00          | 0.001%           | 0.000240             |
| 3000064550               | 8/5/2022               | 8/23/2022              | 100.00                | 18.00          | 0.000%           | 0.000064             |
| 3000064551               | 8/5/2022               | 9/2/2022               | 150.00                | 28.00          | 0.001%           | 0.000149             |
| 3000064552               | 8/5/2022               | 8/23/2022              | 50.00                 | 18.00          | 0.000%           | 0.000032             |
| 3000064553               | 8/5/2022               | 8/30/2022              | 50.00                 | 25.00          | 0.000%           | 0.000044             |
| 3000064554               | 8/5/2022               | 8/18/2022              | 1,164.88              | 13.00          | 0.004%           | 0.000539             |
| 3000064555               | 8/8/2022               | 8/30/2022              | 39.82                 | 22.00          | 0.000%           | 0.000031             |
| 3000064556               | 8/10/2022              | 8/22/2022              | 685.48                | 12.00          | 0.002%           | 0.000293             |
| 3000064557               | 8/10/2022              | 9/27/2022              | 573.00                | 48.00          | 0.002%           | 0.000979             |
| 3000064558               | 8/10/2022              | 8/24/2022              | 796.00                | 14.00          | 0.003%           | 0.000396             |
| 3000064559               | 8/11/2022              | 8/23/2022              | 16,000.00             | 12.00          | 0.057%           | 0.006831             |
| 3000064560               | 8/11/2022              | 8/23/2022              | 5,775.00              | 12.00          | 0.021%           | 0.002466             |
| 3000064561               | 8/11/2022              | 8/16/2022              | 665.00                | 5.00           | 0.002%           | 0.000118             |
| 3000064562               | 8/11/2022              | 8/18/2022              | 7.00                  | 7.00           | 0.000%           | 0.000002             |
| 3000064563               | 8/11/2022              | 8/16/2022              | 150.00                | 5.00           | 0.001%           | 0.000027             |
| 3000064564<br>3000064565 | 8/11/2022<br>8/11/2022 | 8/16/2022<br>8/16/2022 | 1,735.39<br>542.50    | 5.00<br>5.00   | 0.006%<br>0.002% | 0.000309<br>0.000097 |
| 3000064566               | 8/12/2022              | 8/22/2022              | 12,985.00             | 10.00          | 0.046%           | 0.004620             |
| 3000064567               | 8/12/2022              | 8/18/2022              | 2,050.00              | 6.00           | 0.046%           | 0.004626             |
| 3000064568               | 8/12/2022              | 8/29/2022              | 717.50                | 17.00          | 0.007 %          | 0.000434             |
| 3000064569               | 8/12/2022              | 8/18/2022              | 26,870.82             | 6.00           | 0.096%           | 0.005736             |
| 3000064570               | 8/12/2022              | 8/17/2022              | 11,991.14             | 5.00           | 0.043%           | 0.003730             |
| 3000064571               | 8/12/2022              | 8/24/2022              | 4,938.21              | 12.00          | 0.018%           | 0.002108             |
| 3000064572               | 8/12/2022              | 8/18/2022              | 2,466.25              | 6.00           | 0.009%           | 0.000526             |
| 3000064573               | 8/12/2022              | 9/21/2022              | 3,828.96              | 40.00          | 0.014%           | 0.005449             |
| 3000064574               | 8/12/2022              | 8/24/2022              | 25,564.27             | 12.00          | 0.091%           | 0.010914             |
| 3000064575               | 8/12/2022              | 8/22/2022              | 9,834.10              | 10.00          | 0.035%           | 0.003499             |
|                          |                        |                        |                       |                |                  |                      |

|                          |                        |                        |                    | Unweighted    |                    |                      |
|--------------------------|------------------------|------------------------|--------------------|---------------|--------------------|----------------------|
| Check Number             | Date                   | Reconciled             | Amount             | Lead          | Weighting Factor V |                      |
| 3000064576               | 8/12/2022              | 8/22/2022              | 2,488.35           | 10.00         | 0.009%             | 0.000885             |
| 3000064577               | 8/12/2022              | 9/8/2022               | 420.00             | 27.00         | 0.001%             | 0.000403             |
| 3000064578               | 8/15/2022              | 8/29/2022              | 5,000.00           | 14.00         | 0.018%             | 0.002490             |
| 3000064579               | 8/15/2022              | 8/22/2022<br>8/24/2022 | 1,400.83           | 7.00          | 0.005%             | 0.000349             |
| 3000064580               | 8/17/2022              |                        | 705.42             | 7.00          | 0.003%             | 0.000176             |
| 3000064581               | 8/17/2022              | 9/1/2022               | 1,208.80           | 15.00         | 0.004%             | 0.000645             |
| 3000064582               | 8/17/2022              | 8/24/2022              | 2,124,106.08       | 7.00          | 7.557%             | 0.528992             |
| 3000064583               | 8/19/2022<br>8/19/2022 | 8/29/2022              | 776.93             | 10.00<br>6.00 | 0.003%<br>0.000%   | 0.000276             |
| 3000064584<br>3000064585 | 8/19/2022<br>8/19/2022 | 8/25/2022<br>8/26/2022 | 10.36<br>24,559.80 | 7.00          | 0.000%             | 0.000002             |
| 3000064586               | 8/19/2022<br>8/19/2022 | 8/26/2022              | 4,474.19           | 7.00          | 0.067%             | 0.006116<br>0.001114 |
| 3000064587               | 8/22/2022              | 11/15/2022             | 500.00             | 85.00         | 0.002%             | 0.001114             |
| 3000064588               | 8/22/2022              | 9/13/2022              | 1,000.00           | 22.00         | 0.002%             | 0.001312             |
| 3000064589               | 8/23/2022              | 9/8/2022               | 25,000.00          | 16.00         | 0.089%             | 0.000763             |
| 3000064590               | 8/23/2022              | 8/30/2022              | 94.98              | 7.00          | 0.000%             | 0.000024             |
| 3000064591               | 8/24/2022              | 8/30/2022              | 17.24              | 6.00          | 0.000%             | 0.000024             |
| 3000064592               | 8/25/2022              | 8/31/2022              | 1,095.93           | 6.00          | 0.004%             | 0.000234             |
| 3000064593               | 8/25/2022              | 9/1/2022               | 7.00               | 7.00          | 0.000%             | 0.000234             |
| 3000064594               | 8/25/2022              | 8/30/2022              | 150.00             | 5.00          | 0.000%             | 0.000027             |
| 3000064595               | 8/25/2022              | 8/30/2022              | 1,735.39           | 5.00          | 0.006%             | 0.000309             |
| 3000064596               | 8/25/2022              | 8/31/2022              | 542.50             | 6.00          | 0.002%             | 0.000309             |
| 3000064598               | 8/26/2022              | 9/9/2022               | 4,254.32           | 14.00         | 0.015%             | 0.002119             |
| 3000064599               | 8/26/2022              | 9/9/2022               | 42,234.36          | 14.00         | 0.150%             | 0.021036             |
| 3000064600               | 8/26/2022              | 9/13/2022              | 10,699.25          | 18.00         | 0.038%             | 0.006852             |
| 3000064601               | 8/29/2022              | 9/7/2022               | 12,706.82          | 9.00          | 0.045%             | 0.004069             |
| 3000064602               | 8/30/2022              | 9/7/2022               | 4,100.00           | 8.00          | 0.045%             | 0.004009             |
| 3000064603               | 8/30/2022              | 9/8/2022               | 73,251.00          | 9.00          | 0.261%             | 0.023455             |
| 3000064604               | 8/30/2022              | 9/7/2022               | 6,910.00           | 8.00          | 0.025%             | 0.001967             |
| 3000064605               | 8/30/2022              | 9/7/2022               | 26,520.00          | 8.00          | 0.023%             | 0.007548             |
| 3000064606               | 8/30/2022              | 10/4/2022              | 750.00             | 35.00         | 0.003%             | 0.007340             |
| 3000064607               | 8/31/2022              | 9/8/2022               | 81,052.00          | 8.00          | 0.288%             | 0.023069             |
| 3000064608               | 9/1/2022               | 9/30/2022              | 1,000.00           | 29.00         | 0.004%             | 0.001032             |
| 3000064609               | 9/6/2022               | 9/22/2022              | 3,500.00           | 16.00         | 0.012%             | 0.001992             |
| 3000064610               | 9/6/2022               | 9/9/2022               | 1,686.43           | 3.00          | 0.006%             | 0.0001332            |
| 3000064611               | 9/6/2022               | 9/15/2022              | 2,980.56           | 9.00          | 0.011%             | 0.000954             |
| 3000064612               | 9/6/2022               | 9/15/2022              | 888,144.91         | 9.00          | 3.160%             | 0.284382             |
| 3000064613               | 9/6/2022               | 9/14/2022              | 12,011.65          | 8.00          | 0.043%             | 0.003419             |
| 3000064614               | 9/6/2022               | 9/22/2022              | 7,169.95           | 16.00         | 0.026%             | 0.004081             |
| 3000064615               | 9/6/2022               | 9/19/2022              | 19,573.61          | 13.00         | 0.070%             | 0.009053             |
| 3000064617               | 9/7/2022               | 9/14/2022              | 98.27              | 7.00          | 0.000%             | 0.000024             |
| 3000064618               | 9/7/2022               | 9/14/2022              | 1,500.00           | 7.00          | 0.005%             | 0.000374             |
| 3000064619               | 9/7/2022               | 9/12/2022              | 3,242.50           | 5.00          | 0.012%             | 0.000577             |
| 3000064620               | 9/7/2022               | 9/14/2022              | 55,669.55          | 7.00          | 0.198%             | 0.013864             |
| 3000064621               | 9/8/2022               | 9/20/2022              | 705.42             | 12.00         | 0.003%             | 0.000301             |
| 3000064622               | 9/8/2022               | 9/21/2022              | 2,761.95           | 13.00         | 0.010%             | 0.001277             |
| 3000064623               | 9/8/2022               | 9/15/2022              | 7.00               | 7.00          | 0.000%             | 0.000002             |
| 3000064624               | 9/8/2022               | 9/26/2022              | 150.00             | 18.00         | 0.001%             | 0.000096             |
| 3000064625               | 9/8/2022               | 9/13/2022              | 1,735.39           | 5.00          | 0.006%             | 0.000309             |
| 3000064626               | 9/8/2022               | 10/17/2022             | 542.50             | 39.00         | 0.002%             | 0.000753             |
| 3000064627               | 9/9/2022               | 9/21/2022              | 10,710.00          | 12.00         | 0.038%             | 0.004572             |
| 3000064628               | 9/12/2022              | 9/27/2022              | 500.00             | 15.00         | 0.002%             | 0.000267             |
| 3000064629               | 9/12/2022              | 9/19/2022              | 3,604.00           | 7.00          | 0.013%             | 0.000898             |
| 3000064630               | 9/12/2022              | 9/16/2022              | 4,100.00           | 4.00          | 0.015%             | 0.000583             |
| 3000064631               | 9/12/2022              | 9/21/2022              | 31,201.20          | 9.00          | 0.111%             | 0.009991             |
| 3000064632               | 9/12/2022              | 9/21/2022              | 5,431.58           | 9.00          | 0.019%             | 0.001739             |
| 3000064633               | 9/12/2022              | 9/23/2022              | 2,554.91           | 11.00         | 0.009%             | 0.001000             |
| 3000064634               | 9/12/2022              | 9/22/2022              | 26,507.54          | 10.00         | 0.094%             | 0.009431             |
| 3000064635               | 9/12/2022              | 9/20/2022              | 10,201.11          | 8.00          | 0.036%             | 0.002903             |
| 3000064636               | 9/13/2022              | 10/6/2022              | 7,000.00           | 23.00         | 0.025%             | 0.005728             |
| 3000064637               | 9/14/2022              | 9/26/2022              | 29,069.31          | 12.00         | 0.103%             | 0.012411             |
| 3000064638               | 9/14/2022              | 9/23/2022              | 5,500.00           | 9.00          | 0.020%             | 0.001761             |
| 3000064639               | 9/14/2022              | 9/26/2022              | 3,740.01           | 12.00         | 0.013%             | 0.001597             |
| 3000064640               | 9/14/2022              | 9/29/2022              | 53,307.26          | 15.00         | 0.190%             | 0.028448             |
| 3000064641               | 9/15/2022              | 9/21/2022              | 2,050.00           | 6.00          | 0.007%             | 0.000438             |
| 3000064642               | 9/16/2022              | 9/23/2022              | 448.00             | 7.00          | 0.002%             | 0.000112             |
|                          |                        |                        |                    |               |                    |                      |

|              |           |            |                 | Unweighted |                  |               |
|--------------|-----------|------------|-----------------|------------|------------------|---------------|
| Check Number | Date      | Reconciled | Amount          | Lead       | Weighting Factor | Weighted Lead |
| 3000064643   | 9/19/2022 | 9/28/2022  | 89.80           | 9.00       | 0.000%           | 0.000029      |
| 3000064644   | 9/19/2022 | 9/27/2022  | 1,609.50        | 8.00       | 0.006%           | 0.000458      |
| 3000064645   | 9/19/2022 | 10/7/2022  | 46.95           | 18.00      | 0.000%           | 0.000030      |
| 3000064646   | 9/19/2022 | 10/3/2022  | 1,854.00        | 14.00      | 0.007%           | 0.000923      |
| 3000064647   | 9/20/2022 | 9/28/2022  | 776.93          | 8.00       | 0.003%           | 0.000221      |
| 3000064648   | 9/20/2022 | 9/28/2022  | 4,725.29        | 8.00       | 0.017%           | 0.001345      |
| 3000064649   | 9/21/2022 | 9/29/2022  | 3,490.97        | 8.00       | 0.012%           | 0.000994      |
| 3000064650   | 9/21/2022 | 10/12/2022 | 9,236.00        | 21.00      | 0.033%           | 0.006900      |
| 3000064651   | 9/22/2022 | 10/4/2022  | 7.00            | 12.00      | 0.000%           | 0.000003      |
| 3000064652   | 9/22/2022 | 9/27/2022  | 150.00          | 5.00       | 0.001%           | 0.000027      |
| 3000064653   | 9/22/2022 | 9/27/2022  | 1,735.39        | 5.00       | 0.006%           | 0.000309      |
| 3000064654   | 9/22/2022 | 9/27/2022  | 542.50          | 5.00       | 0.002%           | 0.000097      |
| 3000064655   | 9/23/2022 | 9/29/2022  | 1,095.93        | 6.00       | 0.004%           | 0.000234      |
| 3000064656   | 9/23/2022 | 9/29/2022  | 8,083.94        | 6.00       | 0.029%           | 0.001726      |
| 3000064657   | 9/23/2022 | 9/30/2022  | 235.88          | 7.00       | 0.001%           | 0.000059      |
| 3000064658   | 9/26/2022 | 10/5/2022  | 1,071.00        | 9.00       | 0.004%           | 0.000343      |
| 3000064659   | 9/26/2022 | 10/5/2022  | 2,519.91        | 9.00       | 0.009%           | 0.000807      |
| 3000064660   | 9/28/2022 | 10/5/2022  | 714.00          | 7.00       | 0.003%           | 0.000178      |
| 3000064661   | 9/30/2022 | 12/16/2022 | 560.00          | 77.00      | 0.002%           | 0.001534      |
| 3000064662   | 9/30/2022 | 10/24/2022 | 112.95          | 24.00      | 0.000%           | 0.000096      |
| 3000064663   | 9/30/2022 | 10/12/2022 | 14,984.00       | 12.00      | 0.053%           | 0.006397      |
| 3000064664   | 9/30/2022 | 10/19/2022 | 5,282.14        | 19.00      | 0.019%           | 0.003571      |
| 3000064665   | 9/30/2022 | 10/17/2022 | 10,597.45       | 17.00      | 0.038%           | 0.006410      |
|              |           |            | \$28,107,672.36 |            |                  | 12.73         |

#### KENTUCKY POWER COMPANY LEAD LAG STUDY TAXES OTHER THAN INCOME TAXES

| Category  | Weighted Expense Lead |
|---|-----------------------|
| Sales/Use Tax   | 40.23                 |
| Utility Gross Receipts License Tax (UGRLT)                  | 35.28                 |
| Federal Excise Taxes  | 76.42                 |
| Local Franchise Fee   | 46.12                 |
| Kentucky Sales and Use Tax - Energy Exemption Annual Return | 59.42                 |
| Local Street Lighting Fee                                   | 207.23                |
| Property /Real Estate Tax                                   | 264.85                |
| Federal Unemployment Taxes                                  | 75.24                 |
| State Unemployment Taxes - Kentucky                         | 75.21                 |
| State Unemployment Taxes - West Virginia                    | 75.31                 |
|   |                       |

#### Sales/Use Tax

|                                |                   |               |                  |               |              |              | Weighting |              |              |       |            |               |
|--------------------------------|-------------------|---------------|------------------|---------------|--------------|--------------|-----------|--------------|--------------|-------|------------|---------------|
| Payee                          | Method of Payment | Amount        | Period Beginning | Period Ending | Tax Due Date | Payment Date | Factor    | Service Lead | Payment Lead | Float | Total Lead | Weighted Lead |
| (A)                            | (B)               | (C)           | (D)              | (E)           | (F)          | (G)          | (H)       | (I)          | (J)          | (K)   | (L)        | (M)           |
| Kentucky Department of Revenue | EFT S             | 812,973.10    | 9/1/2021         | 9/30/2021     | 10/25/2021   | 10/25/2021   | 7.715%    | 15.00        | 25.00        | -     | 40.00      | 3.09          |
| Kentucky Department of Revenue | EFT               | 609,924.14    | 10/1/2021        | 10/31/2021    | 11/25/2021   | 11/25/2021   | 5.788%    | 15.50        | 25.00        | -     | 40.50      | 2.34          |
| Kentucky Department of Revenue | EFT               | 795,411.10    | 11/1/2021        | 11/30/2021    | 12/25/2021   | 12/25/2021   | 7.549%    | 15.00        | 25.00        | -     | 40.00      | 3.02          |
| Kentucky Department of Revenue | EFT               | 1,013,081.14  | 12/1/2021        | 12/31/2021    | 1/25/2022    | 1/25/2022    | 9.615%    | 15.50        | 25.00        | -     | 40.50      | 3.89          |
| Kentucky Department of Revenue | EFT               | 1,155,705.84  | 1/1/2022         | 1/31/2022     | 2/25/2022    | 2/25/2022    | 10.968%   | 15.50        | 25.00        | -     | 40.50      | 4.44          |
| Kentucky Department of Revenue | EFT               | 764,164.84    | 2/1/2022         | 2/28/2022     | 3/25/2022    | 3/25/2022    | 7.252%    | 14.00        | 25.00        | -     | 39.00      | 2.83          |
| Kentucky Department of Revenue | EFT               | 764,127.78    | 3/1/2022         | 3/31/2022     | 4/25/2022    | 4/25/2022    | 7.252%    | 15.50        | 25.00        | -     | 40.50      | 2.94          |
| Kentucky Department of Revenue | EFT               | 723,873.12    | 4/1/2022         | 4/30/2022     | 5/25/2022    | 5/25/2022    | 6.870%    | 15.00        | 25.00        | -     | 40.00      | 2.75          |
| Kentucky Department of Revenue | EFT               | 843,183.60    | 5/1/2022         | 5/31/2022     | 6/25/2022    | 6/25/2022    | 8.002%    | 15.50        | 25.00        | -     | 40.50      | 3.24          |
| Kentucky Department of Revenue | EFT               | 1,005,316.78  | 6/1/2022         | 6/30/2022     | 7/25/2022    | 7/25/2022    | 9.541%    | 15.00        | 25.00        | -     | 40.00      | 3.82          |
| Kentucky Department of Revenue | EFT               | 1,001,807.78  | 7/1/2022         | 7/31/2022     | 8/25/2022    | 8/25/2022    | 9.508%    | 15.50        | 25.00        | -     | 40.50      | 3.85          |
| Kentucky Department of Revenue | EFT               | 1,047,432.12  | 8/1/2022         | 8/31/2022     | 9/25/2022    | 9/25/2022    | 9.941%    | 15.50        | 25.00        | -     | 40.50      | 4.03          |
|                                | 3                 | 10,537,001.34 |                  |               |              |              |           |              |              |       |            | 40.23         |

### Utility Gross Receipts License Tax (UGRLT

| Utility Gross Receipts License Tax (UGRLT |                   |                  |                  |               |              |              |           |              |              |       |            |               |
|---|-------------------|------------------|------------------|---------------|--------------|--------------|-----------|--------------|--------------|-------|------------|---------------|
|   |                   |                  |                  |               |              |              | Weighting |              |              |       |            |               |
| Payee                                     | Method of Payment | Amount           | Period Beginning | Period Ending | Tax Due Date | Payment Date | Factor    | Service Lead | Payment Lead | Float | Total Lead | Weighted Lead |
| (A)                                       | (B)               | (C)              | (D)              | (E)           | (F)          | (G)          | (H)       | (1)          | (J)          | (K)   | (L)        | (M)           |
| Kentucky Department of Revenue            | EFT               | \$ 1,071,988.10  | 9/1/2021         | 9/30/2021     | 10/20/2021   | 10/20/2021   | 7.572%    | 15.00        | 20.00        | -     | 35.00      | 2.65          |
| Kentucky Department of Revenue            | EFT               | 942,341.42       | 10/1/2021        | 10/31/2021    | 11/21/2021   | 11/21/2021   | 6.656%    | 15.50        | 21.00        | -     | 36.50      | 2.43          |
| Kentucky Department of Revenue            | EFT               | 982,540.23       | 11/1/2021        | 11/30/2021    | 12/20/2021   | 12/20/2021   | 6.940%    | 15.00        | 20.00        | -     | 35.00      | 2.43          |
| Kentucky Department of Revenue            | EFT               | 1,324,688.65     | 12/1/2021        | 12/31/2021    | 1/20/2022    | 1/20/2022    | 9.356%    | 15.50        | 20.00        | -     | 35.50      | 3.32          |
| Kentucky Department of Revenue            | EFT               | 1,550,933.02     | 1/1/2022         | 1/31/2022     | 2/20/2022    | 2/20/2022    | 10.954%   | 15.50        | 20.00        | -     | 35.50      | 3.89          |
| Kentucky Department of Revenue            | EFT               | 1,291,103.78     | 2/1/2022         | 2/28/2022     | 3/20/2022    | 3/20/2022    | 9.119%    | 14.00        | 20.00        | -     | 34.00      | 3.10          |
| Kentucky Department of Revenue            | EFT               | 1,061,071.29     | 3/1/2022         | 3/31/2022     | 4/20/2022    | 4/20/2022    | 7.494%    | 15.50        | 20.00        | -     | 35.50      | 2.66          |
| Kentucky Department of Revenue            | EFT               | 1,067,232.37     | 4/1/2022         | 4/30/2022     | 5/20/2022    | 5/20/2022    | 7.538%    | 15.00        | 20.00        | -     | 35.00      | 2.64          |
| Kentucky Department of Revenue            | EFT               | 1,023,913.44     | 5/1/2022         | 5/31/2022     | 6/20/2022    | 6/20/2022    | 7.232%    | 15.50        | 20.00        | -     | 35.50      | 2.57          |
| Kentucky Department of Revenue            | EFT               | 1,184,085.24     | 6/1/2022         | 6/30/2022     | 7/20/2022    | 7/20/2022    | 8.363%    | 15.00        | 20.00        | -     | 35.00      | 2.93          |
| Kentucky Department of Revenue            | EFT               | 1,332,068.65     | 7/1/2022         | 7/31/2022     | 8/20/2022    | 8/20/2022    | 9.409%    | 15.50        | 20.00        | -     | 35.50      | 3.34          |
| Kentucky Department of Revenue            | EFT               | 1,326,060.71     | 8/1/2022         | 8/31/2022     | 9/20/2022    | 9/20/2022    | 9.366%    | 15.50        | 20.00        | -     | 35.50      | 3.32          |
|   |                   | \$ 14,158,026.90 |                  |               |              |              |           |              |              |       |            | 35.28         |

## Federal Excise Taxes

|                          |                 |            |          |                  |               |            |              | Weighting |              |              |       |            |               |
|--------------------------|-----------------|------------|----------|------------------|---------------|------------|--------------|-----------|--------------|--------------|-------|------------|---------------|
| Payee                    | Method of Payme | ent Amount | F        | Period Beginning | Period Ending | Due Date   | Payment Date | Factor    | Service Lead | Payment Lead | Float | Total Lead | Weighted Lead |
| (A)                      | (B)             | (C)        |          | (D)              | (E)           | (F)        | (G)          | (H)       | (1)          | (J)          | (K)   | (L)        | (M)           |
| Internal Revenue Service | EFT             | \$         | 877.25   | 7/1/2021         | 9/30/2021     | 10/31/2021 | 10/31/2021   | 29.534%   | 46.00        | 31.00        | -     | 77.00      | 22.74         |
| Internal Revenue Service | EFT             |            | 584.90   | 10/1/2021        | 12/31/2021    | 1/31/2022  | 1/31/2022    | 19.692%   | 46.00        | 31.00        | -     | 77.00      | 15.16         |
| Internal Revenue Service | EFT             |            | 638.06   | 1/1/2022         | 3/31/2022     | 4/30/2022  | 4/30/2022    | 21.481%   | 45.00        | 30.00        | -     | 75.00      | 16.11         |
| Internal Revenue Service | EFT             |            | 870.09   | 4/1/2022         | 6/30/2022     | 7/31/2022  | 7/31/2022    | 29.293%   | 45.50        | 31.00        | -     | 76.50      | 22.41         |
|                          |                 | \$         | 2,970.30 |                  |               |            |              |           |              |              |       |            | 76.42         |

#### Local Franchise Fee

| Local Franchise Fee |                   |              |                  |               |            |              | Weighting |                |              |       |            |               |
|---------------------|-------------------|--------------|------------------|---------------|------------|--------------|-----------|----------------|--------------|-------|------------|---------------|
| Payee               | Method of Payment | Amount       | Period Beginning | Period Ending | Due Date   | Payment Date | Factor    | Service Lead F | Payment Lead | Float | Total Lead | Weighted Lead |
| (A)                 | (B)               | (C)          | (D)              | (E)           | (F)        | (G)          | (H)       | (I)            | (J)          | (K)   | (L)        | (M)           |
| Various Localities  | Check             | \$ 59,713.01 | 9/1/2021         | 9/30/2021     | 10/12/2021 | 10/12/2021   | 2.133%    | 15.00          | 12.00        | 12.73 | 39.73      | 0.85          |
| Various Localities  | Check             | 550,068.92   | 9/1/2021         | 9/30/2021     | 10/21/2021 | 10/21/2021   | 19.652%   | 15.00          | 21.00        | 12.73 | 48.73      | 9.58          |
| Various Localities  | Check             | 51,293.33    | 10/1/2021        | 10/31/2021    | 11/12/2021 | 11/12/2021   | 1.832%    | 15.50          | 12.00        | 12.73 | 40.23      | 0.74          |
| Various Localities  | Check             | 2,933.50     | 10/1/2021        | 10/31/2021    | 11/20/2021 | 11/20/2021   | 0.105%    | 15.50          | 20.00        | 12.73 | 48.23      | 0.05          |
| Various Localities  | Check             | 47,244.59    | 11/1/2021        | 11/30/2021    | 12/12/2021 | 12/12/2021   | 1.688%    | 15.00          | 12.00        | 12.73 | 39.73      | 0.67          |
| Various Localities  | Check             | 2,296.94     | 11/1/2021        | 11/30/2021    | 12/20/2021 | 12/20/2021   | 0.082%    | 15.00          | 20.00        | 12.73 | 47.73      | 0.04          |
| Various Localities  | Check             | 60,842.24    | 12/1/2021        | 12/31/2021    | 1/12/2022  | 1/12/2022    | 2.174%    | 15.50          | 12.00        | 12.73 | 40.23      | 0.87          |
| Various Localities  | Check             | 481,273.01   | 12/1/2021        | 12/31/2021    | 1/20/2022  | 1/20/2022    | 17.194%   | 15.50          | 20.00        | 12.73 | 48.23      | 8.29          |
| Various Localities  | Check             | 70,852.78    | 1/1/2022         | 1/31/2022     | 2/12/2022  | 2/12/2022    | 2.531%    | 15.50          | 12.00        | 12.73 | 40.23      | 1.02          |
| Various Localities  | Check             | 3,322.16     | 1/1/2022         | 1/31/2022     | 2/20/2022  | 2/20/2022    | 0.119%    | 15.50          | 20.00        | 12.73 | 48.23      | 0.06          |
| Various Localities  | Check             | 61,905.48    | 2/1/2022         | 2/28/2022     | 3/12/2022  | 3/12/2022    | 2.212%    | 14.00          | 12.00        | 12.73 | 38.73      | 0.86          |
| Various Localities  | Check             | 2,851.38     | 2/1/2022         | 2/28/2022     | 3/20/2022  | 3/20/2022    | 0.102%    | 14.00          | 20.00        | 12.73 | 46.73      | 0.05          |

| Various Localities | Check | 53,408.82       | 3/1/2022 | 3/31/2022 | 4/12/2022 | 4/12/2022 | 1.908%  | 15.50 | 12.00 | 12.73 | 40.23 | 0.77  |
|--------------------|-------|-----------------|----------|-----------|-----------|-----------|---------|-------|-------|-------|-------|-------|
| Various Localities | Check | 523,122.87      | 3/1/2022 | 3/31/2022 | 4/20/2022 | 4/20/2022 | 18.689% | 15.50 | 20.00 | 12.73 | 48.23 | 9.01  |
| Various Localities | Check | 52,584.41       | 4/1/2022 | 4/30/2022 | 5/12/2022 | 5/12/2022 | 1.879%  | 15.00 | 12.00 | 12.73 | 39.73 | 0.75  |
| Various Localities | Check | 2,352.31        | 4/1/2022 | 4/30/2022 | 5/20/2022 | 5/20/2022 | 0.084%  | 15.00 | 20.00 | 12.73 | 47.73 | 0.04  |
| Various Localities | Check | 52,764.84       | 5/1/2022 | 5/31/2022 | 6/12/2022 | 6/12/2022 | 1.885%  | 15.50 | 12.00 | 12.73 | 40.23 | 0.76  |
| Various Localities | Check | 2,413.94        | 5/1/2022 | 5/31/2022 | 6/20/2022 | 6/20/2022 | 0.086%  | 15.50 | 20.00 | 12.73 | 48.23 | 0.04  |
| Various Localities | Check | 58,901.53       | 6/1/2022 | 6/30/2022 | 7/12/2022 | 7/12/2022 | 2.104%  | 15.00 | 12.00 | 12.73 | 39.73 | 0.84  |
| Various Localities | Check | 504,186.54      | 6/1/2022 | 6/30/2022 | 7/20/2022 | 7/20/2022 | 18.012% | 15.00 | 20.00 | 12.73 | 47.73 | 8.60  |
| Various Localities | Check | 69,673.65       | 7/1/2022 | 7/31/2022 | 8/12/2022 | 8/12/2022 | 2.489%  | 15.50 | 12.00 | 12.73 | 40.23 | 1.00  |
| Various Localities | Check | 4,474.19        | 7/1/2022 | 7/31/2022 | 8/20/2022 | 8/20/2022 | 0.160%  | 15.50 | 20.00 | 12.73 | 48.23 | 0.08  |
| Various Localities | Check | 75,896.34       | 8/1/2022 | 8/31/2022 | 9/12/2022 | 9/12/2022 | 2.711%  | 15.50 | 12.00 | 12.73 | 40.23 | 1.09  |
| Various Localities | Check | 4,725.29        | 8/1/2022 | 8/31/2022 | 9/20/2022 | 9/20/2022 | 0.169%  | 15.50 | 20.00 | 12.73 | 48.23 | 0.08  |
|                    |       | \$ 2,799,102.07 |          |           |           |           |         |       |       |       |       | 46.12 |

#### Kentucky Sales and Use Tax - Energy Exemption Annual Return

|                                |                   |           |                  |               |            |              | Weighting |              |              |       |            |               |
|--------------------------------|-------------------|-----------|------------------|---------------|------------|--------------|-----------|--------------|--------------|-------|------------|---------------|
| Payee                          | Method of Payment | Amount    | Period Beginning | Period Ending | Due Date   | Payment Date | Factor    | Service Lead | Payment Lead | Float | Total Lead | Weighted Lead |
| (A)                            | (B)               | (C)       | (D)              | (E)           | (F)        | (G)          | (H)       | (I)          | (J)          | (K)   | (L)        | (M)           |
| Kentucky Department of Revenue | EFT \$            | 2,974.62  | 9/1/2021         | 9/30/2021     | 10/25/2021 | 10/25/2021   | 7.363%    | 15.00        | 25.00        | -     | 40.00      | 2.95          |
| Kentucky Department of Revenue | EFT               | 2,974.62  | 10/1/2021        | 10/31/2021    | 11/25/2021 | 11/25/2021   | 7.363%    | 15.50        | 25.00        | -     | 40.50      | 2.98          |
| Kentucky Department of Revenue | EFT               | 2,974.62  | 11/1/2021        | 11/30/2021    | 12/25/2021 | 12/25/2021   | 7.363%    | 15.00        | 25.00        | -     | 40.00      | 2.95          |
| Kentucky Department of Revenue | EFT               | 2,974.62  | 12/1/2021        | 12/31/2021    | 1/25/2022  | 1/25/2022    | 7.363%    | 15.50        | 25.00        | -     | 40.50      | 2.98          |
| Kentucky Department of Revenue | EFT               | 3,209.82  | 1/1/2022         | 1/31/2022     | 2/25/2022  | 2/25/2022    | 7.945%    | 15.50        | 25.00        | -     | 40.50      | 3.22          |
| Kentucky Department of Revenue | EFT               | 3,209.82  | 2/1/2022         | 2/28/2022     | 3/25/2022  | 3/25/2022    | 7.945%    | 14.00        | 25.00        | -     | 39.00      | 3.10          |
| Kentucky Department of Revenue | Check             | 2,822.42  | 1/1/2021         | 12/31/2021    | 4/30/2022  | 4/30/2022    | 6.986%    | 182.50       | 120.00       | 12.73 | 315.23     | 22.02         |
| Kentucky Department of Revenue | EFT               | 3,209.82  | 3/1/2022         | 3/31/2022     | 4/25/2022  | 4/25/2022    | 7.945%    | 15.50        | 25.00        | -     | 40.50      | 3.22          |
| Kentucky Department of Revenue | EFT               | 3,209.82  | 4/1/2022         | 4/30/2022     | 5/25/2022  | 5/25/2022    | 7.945%    | 15.00        | 25.00        | -     | 40.00      | 3.18          |
| Kentucky Department of Revenue | EFT               | 3,209.82  | 5/1/2022         | 5/31/2022     | 6/25/2022  | 6/25/2022    | 7.945%    | 15.50        | 25.00        | -     | 40.50      | 3.22          |
| Kentucky Department of Revenue | EFT               | 3,209.82  | 6/1/2022         | 6/30/2022     | 7/25/2022  | 7/25/2022    | 7.945%    | 15.00        | 25.00        | -     | 40.00      | 3.18          |
| Kentucky Department of Revenue | EFT               | 3,209.82  | 7/1/2022         | 7/31/2022     | 8/25/2022  | 8/25/2022    | 7.945%    | 15.50        | 25.00        | -     | 40.50      | 3.22          |
| Kentucky Department of Revenue | EFT               | 3,209.82  | 8/1/2022         | 8/31/2022     | 9/25/2022  | 9/25/2022    | 7.945%    | 15.50        | 25.00        | -     | 40.50      | 3.22          |
|                                | \$                | 40,399.46 |                  |               |            |              |           |              |              |       |            | 59.42         |

#### Local Street Lighting Fee

| Local Street Lighting Fee |       |                   |                  |                  |               |            |              |           |              |              |       |            |               |
|---------------------------|-------|-------------------|------------------|------------------|---------------|------------|--------------|-----------|--------------|--------------|-------|------------|---------------|
|                           |       |                   |                  |                  |               |            |              | Weighting |              |              |       |            |               |
|                           | Payee | Method of Payment | Amount           | Period Beginning | Period Ending | Due Date   | Payment Date | Factor    | Service Lead | Payment Lead | Float | Total Lead | Weighted Lead |
|                           | (A)   | (B)               | (C)              | (D)              | (E)           | (F)        | (G)          | (H)       | (1)          | (J)          | (K)   | (L)        | (M)           |
| Various Localities        |       | Check             | \$<br>18,199.17  | 10/1/2020        | 9/30/2021     | 10/12/2021 | 10/12/2021   | 13.073%   | 182.50       | 12.00        | 12.73 | 207.23     | 27.09         |
| Various Localities        |       | Check             | 2,062.17         | 12/1/2020        | 11/30/2021    | 12/12/2021 | 12/12/2021   | 1.481%    | 182.50       | 12.00        | 12.73 | 207.23     | 3.07          |
| Various Localities        |       | Check             | 17,393.72        | 1/1/2021         | 12/31/2021    | 1/12/2022  | 1/12/2022    | 12.494%   | 182.50       | 12.00        | 12.73 | 207.23     | 25.89         |
| Various Localities        |       | Check             | 1,351.04         | 3/1/2021         | 2/28/2022     | 3/12/2022  | 3/12/2022    | 0.970%    | 182.50       | 12.00        | 12.73 | 207.23     | 2.01          |
| Various Localities        |       | Check             | 18,158.11        | 4/1/2021         | 3/31/2022     | 4/12/2022  | 4/12/2022    | 13.043%   | 182.50       | 12.00        | 12.73 | 207.23     | 27.03         |
| Various Localities        |       | Check             | 3,050.12         | 5/1/2021         | 4/30/2022     | 5/12/2022  | 5/12/2022    | 2.191%    | 182.50       | 12.00        | 12.73 | 207.23     | 4.54          |
| Various Localities        |       | Check             | 21,812.13        | 6/1/2021         | 5/31/2022     | 6/12/2022  | 6/12/2022    | 15.668%   | 182.50       | 12.00        | 12.73 | 207.23     | 32.47         |
| Various Localities        |       | Check             | 38,880.39        | 7/1/2021         | 6/30/2022     | 7/12/2022  | 7/12/2022    | 27.928%   | 182.50       | 12.00        | 12.73 | 207.23     | 57.87         |
| Various Localities        |       | Check             | 18,308.45        | 8/1/2021         | 7/31/2022     | 8/12/2022  | 8/12/2022    | 13.151%   | 182.50       | 12.00        | 12.73 | 207.23     | 27.25         |
|                           |       |                   | \$<br>139.215.30 |                  |               |            |              |           |              |              |       |            | 207.23        |

### Property /Real Estate Tax

|                                     |                   |              |                  |               |            |              | Weighting |              |              |       |            |               |
|-------------------------------------|-------------------|--------------|------------------|---------------|------------|--------------|-----------|--------------|--------------|-------|------------|---------------|
| Payee                               | Method of Payment | Amount       | Period Beginning | Period Ending | Due Date   | Payment Date | Factor    | Service Lead | Payment Lead | Float | Total Lead | Weighted Lead |
| (A)                                 | (B)               | (C)          | (D)              | (E)           | (F)        | (G)          | (H)       | (1)          | (J)          | (K)   | (L)        | (M)           |
| City of Bellefonte                  | Check \$          | 173.94       | 1/1/2021         | 12/31/2021    | 12/31/2021 | 12/31/2021   | 0.001%    | 182.50       | -            | 12.73 | 195.23     | 0.00          |
| Elliot County                       | Check             | 3,469.44     | 1/1/2021         | 12/31/2021    | 6/3/2022   | 6/3/2022     | 0.023%    | 182.50       | 154.00       | 12.73 | 349.23     | 0.08          |
| City of Flatwoods                   | Check             | 436.01       | 1/1/2021         | 12/31/2021    | 12/3/2021  | 12/3/2021    | 0.003%    | 182.50       | (28.00)      | 12.73 | 167.23     | 0.00          |
| Boyd C County                       | Check             | 1,675.54     | 1/1/2021         | 12/31/2021    | 5/21/2022  | 5/21/2022    | 0.011%    | 182.50       | 141.00       | 12.73 | 336.23     | 0.04          |
| Greenup County                      | Check             | 5,768.48     | 1/1/2021         | 12/31/2021    | 2/22/2022  | 2/22/2022    | 0.039%    | 182.50       | 53.00        | 12.73 | 248.23     | 0.10          |
| Perry County                        | Check             | 14,299.61    | 1/1/2021         | 12/31/2021    | 3/7/2022   | 3/7/2022     | 0.095%    | 182.50       | 66.00        | 12.73 | 261.23     | 0.25          |
| City of Louisa                      | Check             | 7,169.95     | 1/1/2021         | 12/31/2021    | 3/31/2022  | 3/31/2022    | 0.048%    | 182.50       | 90.00        | 12.73 | 285.23     | 0.14          |
| Perry County                        | Check             | 888,144.91   | 1/1/2021         | 12/31/2021    | 3/7/2022   | 3/7/2022     | 5.931%    | 182.50       | 66.00        | 12.73 | 261.23     | 15.49         |
| Wolfe County                        | Check             | 12,011.65    | 1/1/2021         | 12/31/2021    | 2/23/2022  | 2/23/2022    | 0.080%    | 182.50       | 54.00        | 12.73 | 249.23     | 0.20          |
| Pike County                         | Check             | 2,124,106.08 | 1/1/2021         | 12/31/2021    | 3/27/2022  | 3/27/2022    | 14.184%   | 182.50       | 86.00        | 12.73 | 281.23     | 39.89         |
| City of Jackson                     | Check             | 6,944.65     | 1/1/2021         | 12/31/2021    | 3/14/2022  | 3/14/2022    | 0.046%    | 182.50       | 73.00        | 12.73 | 268.23     | 0.12          |
| Johnson County                      | Check             | 201,148.92   | 1/1/2021         | 12/31/2021    | 2/28/2022  | 2/28/2022    | 1.343%    | 182.50       | 59.00        | 12.73 | 254.23     | 3.41          |
| City of Bellefonte                  | Check             | 53.71        | 1/1/2021         | 12/31/2021    | 4/15/2022  | 4/15/2022    | 0.000%    | 182.50       | 105.00       | 12.73 | 300.23     | 0.00          |
| Martin County                       | Check             | 383,997.71   | 1/1/2021         | 12/31/2021    | 3/24/2022  | 3/24/2022    | 2.564%    | 182.50       | 83.00        | 12.73 | 278.23     | 7.13          |
| City of Jenkins                     | Check             | 11,563.77    | 1/1/2021         | 12/31/2021    | 4/13/2022  | 4/13/2022    | 0.077%    | 182.50       | 103.00       | 12.73 | 298.23     | 0.23          |
| Bracken County                      | Check             | 14,881.69    | 1/1/2021         | 12/31/2021    | 2/28/2022  | 2/28/2022    | 0.099%    | 182.50       | 59.00        | 12.73 | 254.23     | 0.25          |
| Elliot County                       | Check             | 3,549.76     | 1/1/2021         | 12/31/2021    | 6/3/2022   | 6/3/2022     | 0.024%    | 182.50       | 154.00       | 12.73 | 349.23     | 0.08          |
| City of Neon                        | Check             | 7,802.69     | 1/1/2021         | 12/31/2021    | 3/8/2022   | 3/8/2022     | 0.052%    | 182.50       | 67.00        | 12.73 | 262.23     | 0.14          |
| Town of Hindman                     | Check             | 1,777.32     | 1/1/2021         | 12/31/2021    | 2/28/2022  | 2/28/2022    | 0.012%    | 182.50       | 59.00        | 12.73 | 254.23     | 0.03          |
| Letcher County                      | Check             | 665,139.93   | 1/1/2021         | 12/31/2021    | 2/27/2022  | 2/27/2022    | 4.442%    | 182.50       | 58.00        | 12.73 | 253.23     | 11.25         |
| City of Russell                     | Check             | 51,662.47    | 1/1/2021         | 12/31/2021    | 2/22/2022  | 2/22/2022    | 0.345%    | 182.50       | 53.00        | 12.73 | 248.23     | 0.86          |
| Breathitt County                    | Check             | 313,539.26   | 1/1/2021         | 12/31/2021    | 2/25/2022  | 2/25/2022    | 2.094%    | 182.50       | 56.00        | 12.73 | 251.23     | 5.26          |
| Jackson Independent School District | Check             | 9,811.38     | 1/1/2021         | 12/31/2021    | 2/20/2022  | 2/20/2022    | 0.066%    | 182.50       | 51.00        | 12.73 | 246.23     | 0.16          |
| Lawrence County                     | Check             | 743,281.26   | 1/1/2021         | 12/31/2021    | 3/20/2022  | 3/20/2022    | 4.963%    | 182.50       | 79.00        | 12.73 | 274.23     | 13.61         |
| Magoffin County                     | Check             | 196,020.36   | 1/1/2021         | 12/31/2021    | 2/21/2022  | 2/21/2022    | 1.309%    | 182.50       | 52.00        | 12.73 | 247.23     | 3.24          |
| City of Olive Hill                  | Check             | 218.56       | 1/1/2021         | 12/31/2021    | 2/28/2022  | 2/28/2022    | 0.001%    | 182.50       | 59.00        | 12.73 | 254.23     | 0.00          |

| City of Pikeville  | Check  | 25,591.02  | 1/1/2021   | 12/31/2021  | 4/15/2022  | 4/15/2022   | 0.171%  | 182.50  | 105.00   | 12.73   | 300.23   | 0.51  |
|--|--|--|--|---|--|---|---|---|--|---|--|---|
| Union County   | Check  | 1,802.52   | 1/1/2021   | 12/31/2021  | 3/31/2022  | 3/31/2022   | 0.012%  | 182.50  | 90.00  | 12.73   | 285.23   | 0.03  |
| City of Wayland  | Check  | 4,524.00   | 1/1/2021   | 12/31/2021  | 5/1/2022   | 5/1/2022  | 0.030%  | 182.50  | 121.00   | 12.73   | 316.23   | 0.10  |
|  |  | 1,007,995.87   | 1/1/2021   | 12/31/2021  | 5/21/2022  | 5/21/2022   | 6.731%  | 182.50  | 141.00   | 12.73   | 336.23   | 22.63   |
| Boyd County  | Check  |  |  |   |  |   |   |   |  |   |  |   |
| City of Catlettsburg   | Check  | 10,391.73  | 1/1/2021   | 12/31/2021  | 2/15/2022  | 2/15/2022   | 0.069%  | 182.50  | 46.00  | 12.73   | 241.23   | 0.17  |
| Coal Run Village   | Check  | 914.69   | 1/1/2021   | 12/31/2021  | 2/28/2022  | 2/28/2022   | 0.006%  | 182.50  | 59.00  | 12.73   | 254.23   | 0.02  |
| City of Flatwoods  | Check  | 9.71   | 1/1/2021   | 12/31/2021  | 3/24/2022  | 3/24/2022   | 0.000%  | 182.50  | 83.00  | 12.73   | 278.23   | 0.00  |
| City of Grayson  | Check  | 7,570.91   | 1/1/2021   | 12/31/2021  | 6/4/2022   | 6/4/2022  | 0.051%  | 182.50  | 155.00   | 12.73   | 350.23   | 0.18  |
| Greenup County   | Check  | 646,121.76   | 1/1/2021   | 12/31/2021  | 2/22/2022  | 2/22/2022   | 4.315%  | 182.50  | 53.00  | 12.73   | 248.23   | 10.71   |
| Harris County  | Check  | 17,423.02  | 1/1/2021   | 12/31/2021  | 2/20/2022  | 2/20/2022   | 0.116%  | 182.50  | 51.00  | 12.73   | 246.23   | 0.29  |
| Henry County   | Check  | 13,878.05  | 1/1/2021   | 12/31/2021  | 2/16/2022  | 2/16/2022   | 0.093%  | 182.50  | 47.00  | 12.73   | 242.23   | 0.22  |
| Knott County   | Check  | 615,211.26   | 1/1/2021   | 12/31/2021  | 2/21/2022  | 2/21/2022   | 4.108%  | 182.50  | 52.00  | 12.73   | 247.23   | 10.16   |
|  |  |  |  |   |  |   |   |   |  |   |  |   |
| Owen County  | Check  | 57,490.43  | 1/1/2021   | 12/31/2021  | 2/20/2022  | 2/20/2022   | 0.384%  | 182.50  | 51.00  | 12.73   | 246.23   | 0.95  |
| Pendleton County   | Check  | 37,501.37  | 1/1/2021   | 12/31/2021  | 2/25/2022  | 2/25/2022   | 0.250%  | 182.50  | 56.00  | 12.73   | 251.23   | 0.63  |
| Robertson County   | Check  | 33,070.56  | 1/1/2021   | 12/31/2021  | 2/16/2022  | 2/16/2022   | 0.221%  | 182.50  | 47.00  | 12.73   | 242.23   | 0.53  |
| Rowan County   | Check  | 50,334.58  | 1/1/2021   | 12/31/2021  | 2/28/2022  | 2/28/2022   | 0.336%  | 182.50  | 59.00  | 12.73   | 254.23   | 0.85  |
| City of Wheelwright  | Check  | 3,687.39   | 1/1/2021   | 12/31/2021  | 3/27/2022  | 3/27/2022   | 0.025%  | 182.50  | 86.00  | 12.73   | 281.23   | 0.07  |
| City of Allen  | Check  | 1,355.16   | 1/1/2021   | 12/31/2021  | 9/1/2021   | 9/1/2021  | 0.009%  | 182.50  | (121.00)   | 12.73   | 74.23  | 0.01  |
| Bell County  | Check  | 2,478.75   | 1/1/2021   | 12/31/2021  | 2/23/2022  | 2/23/2022   | 0.017%  | 182.50  | 54.00  | 12.73   | 249.23   | 0.04  |
| Carroll County   | Check  | 10,776.16  | 1/1/2021   | 12/31/2021  | 3/20/2022  | 3/20/2022   | 0.072%  | 182.50  | 79.00  | 12.73   | 274.23   | 0.20  |
| Carter County  | Check  | 262,442.46   | 1/1/2021   | 12/31/2021  | 2/28/2022  | 2/28/2022   | 1.753%  | 182.50  | 59.00  | 12.73   | 254.23   | 4.46  |
|  |  |  | 1/1/2021   |   | 4/26/2022  |   | 6.756%  | 182.50  |  | 12.73   |  | 21.03   |
| Floyd County   | Check  | 1,011,673.65   |  | 12/31/2021  |  | 4/26/2022   |   |   | 116.00   |   | 311.23   |   |
| Franklin County  | Check  | 513.77   | 1/1/2021   | 12/31/2021  | 4/15/2022  | 4/15/2022   | 0.003%  | 182.50  | 105.00   | 12.73   | 300.23   | 0.01  |
| Leslie County  | Check  | 458,263.34   | 1/1/2021   | 12/31/2021  | 3/18/2022  | 3/18/2022   | 3.060%  | 182.50  | 77.00  | 12.73   | 272.23   | 8.33  |
| Lewis County   | Check  | 124,825.49   | 1/1/2021   | 12/31/2021  | 2/22/2022  | 2/22/2022   | 0.834%  | 182.50  | 53.00  | 12.73   | 248.23   | 2.07  |
| Mason County   | Check  | 51,901.58  | 1/1/2021   | 12/31/2021  | 2/23/2022  | 2/23/2022   | 0.347%  | 182.50  | 54.00  | 12.73   | 249.23   | 0.86  |
| Morgan County  | Check  | 85.965.78  | 1/1/2021   | 12/31/2021  | 2/24/2022  | 2/24/2022   | 0.574%  | 182.50  | 55.00  | 12.73   | 250.23   | 1.44  |
| City of Paintsville  | Check  | 90.133.84  | 1/1/2021   | 12/31/2021  | 3/8/2022   | 3/8/2022  | 0.602%  | 182.50  | 67.00  | 12.73   | 262.23   | 1.58  |
| Pikeville Independent Schools  | Check  | 102.486.81   | 1/1/2021   | 12/31/2021  | 3/13/2022  | 3/13/2022   | 0.684%  | 182.50  | 72.00  | 12.73   | 267.23   | 1.83  |
| City of Prestonsburg   | Check  | 20,235.42  | 1/1/2021   | 12/31/2021  | 3/11/2022  | 3/11/2022   | 0.135%  | 182.50  | 70.00  | 12.73   | 265.23   | 0.36  |
|  |  |  |  |   |  |   |   |   |  |   |  |   |
| City of Wurtland   | Check  | 10,457.63  | 1/1/2021   | 12/31/2021  | 2/28/2022  | 2/28/2022   | 0.070%  | 182.50  | 59.00  | 12.73   | 254.23   | 0.18  |
| Clay County  | Check  | 10,834.51  | 1/1/2021   | 12/31/2021  | 3/18/2022  | 3/18/2022   | 0.072%  | 182.50  | 77.00  | 12.73   | 272.23   | 0.20  |
| Grant County   | Check  | 43,382.84  | 1/1/2021   | 12/31/2021  | 2/22/2022  | 2/22/2022   | 0.290%  | 182.50  | 53.00  | 12.73   | 248.23   | 0.72  |
| City of South Shore  | Check  | 2,546.27   | 1/1/2021   | 12/31/2021  | 2/22/2022  | 2/22/2022   | 0.017%  | 182.50  | 53.00  | 12.73   | 248.23   | 0.04  |
| Trimble County   | Check  | 47,978.29  | 1/1/2021   | 12/31/2021  | 10/31/2021   | 10/31/2021  | 0.320%  | 182.50  | (61.00)  | 12.73   | 134.23   | 0.43  |
| City of West Liberty   | Check  | 3,437,98   | 1/1/2021   | 12/31/2021  | 2/28/2022  | 2/28/2022   | 0.023%  | 182.50  | 59.00  | 12.73   | 254.23   | 0.06  |
|  |  |  |  |   |  |   |   |   |  |   |  |   |
| City of Worthington  | Check  | 9.785.89   | 1/1/2021   | 12/31/2021  | 2/24/2022  | 2/24/2022   | 0.065%  | 182.50  | 55.00  | 12.73   | 250.23   | 0.16  |
| City of Worthington  | Check  | 9,785.89<br>9,665.44   | 1/1/2021   | 12/31/2021  | 2/24/2022  | 2/24/2022   | 0.065%  | 182.50<br>182.50  | 55.00<br>67.00   | 12.73<br>12.73                                | 250.23   | 0.16<br>0.17  |
| Kentucky State   | Check  | 9,665.44   | 1/1/2021   | 12/31/2021  | 3/8/2022   | 3/8/2022  | 0.065%  | 182.50  | 67.00  | 12.73   | 262.23   | 0.17  |
| Kentucky State<br>Kentucky State   | Check<br>Check   | 9,665.44<br>4,408,803.13   | 1/1/2021<br>1/1/2021   | 12/31/2021<br>12/31/2021  | 3/8/2022<br>2/14/2022  | 3/8/2022<br>2/14/2022   | 0.065%<br>29.441%   | 182.50<br>182.50  | 67.00<br>45.00   | 12.73<br>12.73                                | 262.23<br>240.23   | 0.17<br>70.73   |
| Kentucky State   | Check  | 9,665.44<br>4,408,803.13<br>2,980.56   | 1/1/2021   | 12/31/2021  | 3/8/2022   | 3/8/2022  | 0.065%  | 182.50  | 67.00  | 12.73   | 262.23   | 0.17<br>70.73<br>(0.05)   |
| Kentucky State<br>Kentucky State   | Check<br>Check   | 9,665.44<br>4,408,803.13   | 1/1/2021<br>1/1/2021   | 12/31/2021<br>12/31/2021  | 3/8/2022<br>2/14/2022  | 3/8/2022<br>2/14/2022   | 0.065%<br>29.441%   | 182.50<br>182.50  | 67.00<br>45.00   | 12.73<br>12.73                                | 262.23<br>240.23   | 0.17<br>70.73   |
| Kentucky State<br>Kentucky State   | Check<br>Check   | 9,665.44<br>4,408,803.13<br>2,980.56   | 1/1/2021<br>1/1/2021   | 12/31/2021<br>12/31/2021  | 3/8/2022<br>2/14/2022  | 3/8/2022<br>2/14/2022   | 0.065%<br>29.441%   | 182.50<br>182.50  | 67.00<br>45.00   | 12.73<br>12.73                                | 262.23<br>240.23   | 0.17<br>70.73<br>(0.05)   |
| Kentucky State<br>Kentucky State<br>City of Hazard   | Check<br>Check   | 9,665.44<br>4,408,803.13<br>2,980.56   | 1/1/2021<br>1/1/2021   | 12/31/2021<br>12/31/2021  | 3/8/2022<br>2/14/2022  | 3/8/2022<br>2/14/2022   | 0.065%<br>29.441%   | 182.50<br>182.50  | 67.00<br>45.00   | 12.73<br>12.73                                | 262.23<br>240.23   | 0.17<br>70.73<br>(0.05)   |
| Kentucky State<br>Kentucky State   | Check<br>Check   | 9,665.44<br>4,408,803.13<br>2,980.56   | 1/1/2021<br>1/1/2021   | 12/31/2021<br>12/31/2021  | 3/8/2022<br>2/14/2022  | 3/8/2022<br>2/14/2022   | 0.065%<br>29.441%   | 182.50<br>182.50  | 67.00<br>45.00   | 12.73<br>12.73                                | 262.23<br>240.23   | 0.17<br>70.73<br>(0.05)   |
| Kentucky State<br>Kentucky State<br>City of Hazard   | Check<br>Check<br>Check  | 9,665.44<br>4,408,803.13<br>2,980.56   | 1/1/2021<br>1/1/2021<br>1/1/2022   | 12/31/2021<br>12/31/2021<br>12/31/2022  | 3/8/2022<br>2/14/2022<br>9/30/2021   | 3/8/2022<br>2/14/2022<br>9/30/2021  | 0.065%<br>29.441%   | 182.50<br>182.50  | 67.00<br>45.00   | 12.73<br>12.73<br>12.73                       | 262.23<br>240.23<br>(261.77)_  | 0.17<br>70.73<br>(0.05)<br>264.85   |
| Kentucky State<br>Kentucky State<br>City of Hazard   | Check<br>Check   | 9,665.44<br>4,408,803.13<br>2,980.56   | 1/1/2021<br>1/1/2021<br>1/1/2022   | 12/31/2021<br>12/31/2021  | 3/8/2022<br>2/14/2022<br>9/30/2021   | 3/8/2022<br>2/14/2022   | 0.065%<br>29.441%<br>0.020%   | 182.50<br>182.50  | 67.00<br>45.00<br>(457.00)   | 12.73<br>12.73                                | 262.23<br>240.23<br>(261.77)_  | 0.17<br>70.73<br>(0.05)   |
| Kentucky State Kentucky State City of Hazard  Federal Unemployment Taxes   | Check<br>Check<br>Check  | 9,665,44<br>4,408,803,13<br>2,980.56<br>\$ 14,975,092.67   | 1/1/2021<br>1/1/2021<br>1/1/2022   | 12/31/2021<br>12/31/2021<br>12/31/2022  | 3/8/2022<br>2/14/2022<br>9/30/2021   | 3/8/2022<br>2/14/2022<br>9/30/2021  | 0.065%<br>29.441%<br>0.020%<br>Weighting  | 182.50<br>182.50<br>182.50  | 67.00<br>45.00<br>(457.00)   | 12.73<br>12.73<br>12.73                       | 262.23<br>240.23<br>(261.77)_  | 0.17<br>70.73<br>(0.05)<br>264.85   |
| Kentucky State Kentucky State City of Hazard  Federal Unemployment Taxes  Payee (A)  | Check Check Check Method of Payment  | 9,665,44<br>4,408,803.13<br>2,980.56<br>\$ 14,975,092.67<br>Amount<br>(C)  | 1/1/2021<br>1/1/2021<br>1/1/2022<br>Period Beginning P.  | 12/31/2021<br>12/31/2021<br>12/31/2022<br>eriod Ending<br>(E)   | 3/8/2022<br>2/14/2022<br>9/30/2021<br>Due Date F   | 3/8/2022<br>2/14/2022<br>9/30/2021<br>ayment Date<br>(G)  | 0.065%<br>29.441%<br>0.020%<br>Weighting<br>Factor<br>(H)   | 182.50<br>182.50<br>182.50<br>Service Lead F  | 67.00<br>45.00<br>(457.00)   | 12.73<br>12.73<br>12.73<br>Float              | 262.23<br>240.23<br>(261.77)<br>=<br>Total Lead<br>(L)   | 0.17<br>70.73<br>(0.05)<br>264.85<br>Weighted Lead<br>(M)   |
| Kentucky State Kentucky State City of Hazard  Federal Unemployment Taxes  Payee (A) Internal Revenue Service   | Check Check Check :  Method of Payment (B) EFT   | 9,665,44 4,408,803.13 2,980.56 \$ 14,975,092.67  Amount (C) 909.55   | 11/1/2021<br>11/1/2021<br>11/1/2022<br>Period Beginning P.<br>(D)<br>10/1/2021   | 12/31/2021<br>12/31/2021<br>12/31/2022<br>eriod Ending<br>(E)<br>12/31/2021   | 3/8/2022<br>2/14/2022<br>9/30/2021<br>Due Date F<br>(F)<br>1/31/2022   | 3/8/2022<br>2/14/2022<br>9/30/2021<br>ayment Date<br>(G)<br>1/31/2022   | 0.065%<br>29.441%<br>0.020%<br>Weighting<br>Factor<br>(H)<br>4.013%   | 182.50<br>182.50<br>182.50<br>Service Lead F<br>(I)<br>46.00  | 67.00<br>45.00<br>(457.00)   | 12.73<br>12.73<br>12.73<br>Float              | 262.23<br>240.23<br>(261.77)<br>=<br>Total Lead<br>(L)<br>77.00  | 0.17<br>70.73<br>(0.05)<br>264.85<br>Weighted Lead<br>(M)<br>3.09   |
| Kentucky State Kentucky State City of Hazard  Federal Unemployment Taxes  Payee (A) Internal Revenue Service Internal Revenue Service  | Check Check Check  Method of Payment  (B)  EFT  EFT  | 9,665.44 4,406,803.13 2,980,56 \$ 14,975,092.67  Amount (C) 990,55 19,773.15   | 1/1/2021<br>1/1/2021<br>1/1/2022<br>Period Beginning P.<br>(D)<br>10/1/2021<br>1/1/2022  | 12/31/2021<br>12/31/2021<br>12/31/2022<br>eriod Ending<br>(E)<br>12/31/2021<br>3/31/2022  | 3/8/2022<br>2/14/2022<br>9/30/2021<br>Due Date F<br>(F)<br>1/31/2022<br>4/30/2022  | 3/8/2022<br>2/14/2022<br>9/30/2021<br>ayment Date<br>(G)<br>1/31/2022<br>4/30/2022  | 0.065%<br>29.441%<br>0.020%<br>Weighting<br>Factor<br>(H)<br>4.013%<br>87.242%  | 182.50<br>182.50<br>182.50<br>182.50<br>Service Lead (I)<br>46.00<br>45.00  | 67.00<br>45.00<br>(457.00)<br>Payment Lead<br>(J)<br>31.00<br>30.00  | 12.73<br>12.73<br>12.73<br>Float              | 262.23<br>240.23<br>(261.77)<br>=<br>Total Lead<br>(L)<br>77.00<br>75.00   | 0.17<br>70.73<br>(0.05)<br>264.85<br>Weighted Lead<br>(M)<br>3.09<br>65.43  |
| Kentucky State Kentucky State City of Hazard  Federal Unemployment Taxes  Payee (A)  Internal Revenue Service Internal Revenue Service Internal Revenue Service Internal Revenue Service   | Check Check Check  Method of Payment  (B)  EFT  EFT  EFT  EFT  | 9,665,44 4,408,803.13 2,980.56 \$ 14,975,092.67  Amount (C) 909.55 19,773.15 594.65  | 11/12/021<br>11/12/021<br>11/12/022<br>Period Beginning P.<br>(D)<br>10/12/021<br>11/12/022<br>4/12/022  | 12/31/2021<br>12/31/2021<br>12/31/2022<br>eriod Ending<br>(E)<br>12/31/2021<br>3/31/2022<br>6/30/2022   | 3/8/2022<br>2/14/2022<br>9/30/2021<br>Due Date F<br>(F)<br>1/31/2022<br>4/30/2022<br>7/31/2022   | 3/8/2022<br>2/14/2022<br>9/30/2021<br>ayment Date<br>(G)<br>1/31/2022<br>4/30/2022<br>7/31/2022   | 0.065%<br>29.441%<br>0.020%<br>Weighting<br>Factor<br>(H)<br>4.013%<br>87.242%<br>2.624%  | 182.50<br>182.50<br>182.50<br>182.50<br>Service Lead I<br>(I)<br>46.00<br>45.00<br>45.50  | 67.00<br>45.00<br>(457.00)<br>Payment Lead<br>(J)<br>31.00<br>30.00<br>31.00   | 12.73<br>12.73<br>12.73<br>Float              | 262.23<br>240.23<br>(261.77)<br>=<br>Total Lead<br>(L)<br>77.00<br>75.00<br>76.50  | 0.17<br>70.73<br>(0.05)<br>264.85<br>Weighted Lead<br>(M)<br>3.09<br>65.43<br>2.01  |
| Kentucky State Kentucky State City of Hazard  Federal Unemployment Taxes  Payee (A) Internal Revenue Service Internal Revenue Service  | Check Check Check  Method of Payment  (B)  EFT  EFT  | 9,665.44 4,406,803.13 2,980.56 \$ 14,975,092.67  Amount (C) 909.55 19,773.15 594.65 1,387.39   | 1/1/2021<br>1/1/2021<br>1/1/2022<br>Period Beginning P.<br>(D)<br>10/1/2021<br>1/1/2022  | 12/31/2021<br>12/31/2021<br>12/31/2022<br>eriod Ending<br>(E)<br>12/31/2021<br>3/31/2022  | 3/8/2022<br>2/14/2022<br>9/30/2021<br>Due Date F<br>(F)<br>1/31/2022<br>4/30/2022  | 3/8/2022<br>2/14/2022<br>9/30/2021<br>ayment Date<br>(G)<br>1/31/2022<br>4/30/2022  | 0.065%<br>29.441%<br>0.020%<br>Weighting<br>Factor<br>(H)<br>4.013%<br>87.242%  | 182.50<br>182.50<br>182.50<br>182.50<br>Service Lead (I)<br>46.00<br>45.00  | 67.00<br>45.00<br>(457.00)<br>Payment Lead<br>(J)<br>31.00<br>30.00  | 12.73<br>12.73<br>12.73<br>Float              | 262.23<br>240.23<br>(261.77)<br>=<br>Total Lead<br>(L)<br>77.00<br>75.00   | 0.17<br>70.73<br>(0.05)<br>264.85<br>Weighted Lead<br>(M)<br>3.09<br>65.43<br>2.01<br>4.71  |
| Kentucky State Kentucky State City of Hazard  Federal Unemployment Taxes  Payee (A)  Internal Revenue Service Internal Revenue Service Internal Revenue Service Internal Revenue Service   | Check Check Check  Method of Payment  (B)  EFT  EFT  EFT  EFT  | 9,665,44 4,408,803.13 2,980.56 \$ 14,975,092.67  Amount (C) 909.55 19,773.15 594.65  | 11/12/021<br>11/12/021<br>11/12/022<br>Period Beginning P.<br>(D)<br>10/12/021<br>11/12/022<br>4/12/022  | 12/31/2021<br>12/31/2021<br>12/31/2022<br>eriod Ending<br>(E)<br>12/31/2021<br>3/31/2022<br>6/30/2022   | 3/8/2022<br>2/14/2022<br>9/30/2021<br>Due Date F<br>(F)<br>1/31/2022<br>4/30/2022<br>7/31/2022   | 3/8/2022<br>2/14/2022<br>9/30/2021<br>ayment Date<br>(G)<br>1/31/2022<br>4/30/2022<br>7/31/2022   | 0.065%<br>29.441%<br>0.020%<br>Weighting<br>Factor<br>(H)<br>4.013%<br>87.242%<br>2.624%  | 182.50<br>182.50<br>182.50<br>182.50<br>Service Lead I<br>(I)<br>46.00<br>45.00<br>45.50  | 67.00<br>45.00<br>(457.00)<br>Payment Lead<br>(J)<br>31.00<br>30.00<br>31.00   | 12.73<br>12.73<br>12.73<br>Float              | 262.23<br>240.23<br>(261.77)<br>=<br>Total Lead<br>(L)<br>77.00<br>75.00<br>76.50  | 0.17<br>70.73<br>(0.05)<br>264.85<br>Weighted Lead<br>(M)<br>3.09<br>65.43<br>2.01  |
| Kentucky State Kentucky State City of Hazard  Federal Unemployment Taxes  Payee (A)  Internal Revenue Service Internal Revenue Service Internal Revenue Service Internal Revenue Service   | Check Check Check  Method of Payment  (B)  EFT  EFT  EFT  EFT  | 9,665.44 4,406,803.13 2,980.56 \$ 14,975,092.67  Amount (C) 909.55 19,773.15 594.65 1,387.39   | 11/12/021<br>11/12/021<br>11/12/022<br>Period Beginning P.<br>(D)<br>10/12/021<br>11/12/022<br>4/12/022  | 12/31/2021<br>12/31/2021<br>12/31/2022<br>eriod Ending<br>(E)<br>12/31/2021<br>3/31/2022<br>6/30/2022   | 3/8/2022<br>2/14/2022<br>9/30/2021<br>Due Date F<br>(F)<br>1/31/2022<br>4/30/2022<br>7/31/2022   | 3/8/2022<br>2/14/2022<br>9/30/2021<br>ayment Date<br>(G)<br>1/31/2022<br>4/30/2022<br>7/31/2022   | 0.065%<br>29.441%<br>0.020%<br>Weighting<br>Factor<br>(H)<br>4.013%<br>87.242%<br>2.624%  | 182.50<br>182.50<br>182.50<br>182.50<br>Service Lead I<br>(I)<br>46.00<br>45.00<br>45.50  | 67.00<br>45.00<br>(457.00)<br>Payment Lead<br>(J)<br>31.00<br>30.00<br>31.00   | 12.73<br>12.73<br>12.73<br>Float              | 262.23<br>240.23<br>(261.77)<br>=<br>Total Lead<br>(L)<br>77.00<br>75.00<br>76.50  | 0.17<br>70.73<br>(0.05)<br>264.85<br>Weighted Lead<br>(M)<br>3.09<br>65.43<br>2.01<br>4.71  |
| Kentucky State Kentucky State City of Hazard  Federal Unemployment Taxes  Payee (A) Internal Revenue Service   | Check Check Check  Method of Payment  (B)  EFT  EFT  EFT  EFT  | 9,665.44 4,406,803.13 2,980.56 \$ 14,975,092.67  Amount (C) 909.55 19,773.15 594.65 1,387.39   | 11/12/021<br>11/12/021<br>11/12/022<br>Period Beginning P.<br>(D)<br>10/12/021<br>11/12/022<br>4/12/022  | 12/31/2021<br>12/31/2021<br>12/31/2022<br>eriod Ending<br>(E)<br>12/31/2021<br>3/31/2022<br>6/30/2022   | 3/8/2022<br>2/14/2022<br>9/30/2021<br>Due Date F<br>(F)<br>1/31/2022<br>4/30/2022<br>7/31/2022   | 3/8/2022<br>2/14/2022<br>9/30/2021<br>ayment Date<br>(G)<br>1/31/2022<br>4/30/2022<br>7/31/2022   | 0.065%<br>29.441%<br>0.020%<br>Weighting<br>Factor<br>(H)<br>4.013%<br>87.242%<br>2.624%  | 182.50<br>182.50<br>182.50<br>182.50<br>Service Lead I<br>(I)<br>46.00<br>45.00<br>45.50  | 67.00<br>45.00<br>(457.00)<br>Payment Lead<br>(J)<br>31.00<br>30.00<br>31.00   | 12.73<br>12.73<br>12.73<br>Float              | 262.23<br>240.23<br>(261.77)<br>=<br>Total Lead<br>(L)<br>77.00<br>75.00<br>76.50  | 0.17<br>70.73<br>(0.05)<br>264.85<br>Weighted Lead<br>(M)<br>3.09<br>65.43<br>2.01<br>4.71  |
| Kentucky State Kentucky State City of Hazard  Federal Unemployment Taxes  Payee (A)  Internal Revenue Service Internal Revenue Service Internal Revenue Service Internal Revenue Service   | Check Check Check  Method of Payment  (B)  EFT  EFT  EFT  EFT  | 9,665.44 4,406,803.13 2,980.56 \$ 14,975,092.67  Amount (C) 909.55 19,773.15 594.65 1,387.39   | 11/12/021<br>11/12/021<br>11/12/022<br>Period Beginning P.<br>(D)<br>10/12/021<br>11/12/022<br>4/12/022  | 12/31/2021<br>12/31/2021<br>12/31/2022<br>eriod Ending<br>(E)<br>12/31/2021<br>3/31/2022<br>6/30/2022   | 3/8/2022<br>2/14/2022<br>9/30/2021<br>Due Date F<br>(F)<br>1/31/2022<br>4/30/2022<br>7/31/2022   | 3/8/2022<br>2/14/2022<br>9/30/2021<br>ayment Date<br>(G)<br>1/31/2022<br>4/30/2022<br>7/31/2022   | 0.065% 29.441% 0.020%  Weighting Factor (H) 4.013% 87.242% 2.624% 6.121%  | 182.50<br>182.50<br>182.50<br>182.50<br>Service Lead I<br>(I)<br>46.00<br>45.00<br>45.50  | 67.00<br>45.00<br>(457.00)<br>Payment Lead<br>(J)<br>31.00<br>30.00<br>31.00   | 12.73<br>12.73<br>12.73<br>Float              | 262.23<br>240.23<br>(261.77)<br>=<br>Total Lead<br>(L)<br>77.00<br>75.00<br>76.50  | 0.17<br>70.73<br>(0.05)<br>264.85<br>Weighted Lead<br>(M)<br>3.09<br>65.43<br>2.01<br>4.71  |
| Kentucky State Kentucky State City of Hazard  Federal Unemployment Taxes  Payee (A) Internal Revenue Service   | Check Check Check  Method of Payment  (B)  EFT  EFT  EFT  EFT  EFT  EFT  | 9,665.44 4,406,803.13 2,980.56 \$ 14,975,092.67  Amount (C) 909.55 19,773.15 594.65 1,387.39   | 11/1/2021<br>11/1/2021<br>1/1/1/2022<br>Period Beginning Pi<br>(D)<br>10/1/2021<br>11/1/2022<br>4/1/2022<br>7/1/1/2022   | 12/31/2021<br>12/31/2021<br>12/31/2022<br>eriod Ending<br>(E)<br>12/31/2021<br>3/31/2022<br>6/30/2022   | 3/8/2022<br>2/14/2022<br>9/30/2021<br>Due Date F<br>(F)<br>1/31/2022<br>4/30/2022<br>7/31/2022<br>10/31/2022   | 3/8/2022<br>2/14/2022<br>9/30/2021<br>ayment Date<br>(G)<br>1/31/2022<br>4/30/2022<br>7/31/2022   | 0.065%<br>29.441%<br>0.020%<br>Weighting<br>Factor<br>(H)<br>4.013%<br>87.242%<br>2.624%  | 182.50<br>182.50<br>182.50<br>182.50<br>Service Lead I<br>(I)<br>46.00<br>45.00<br>45.50  | 67.00<br>45.00<br>(457.00)<br>Payment Lead<br>(J)<br>31.00<br>30.00<br>31.00   | 12.73<br>12.73<br>12.73<br>Float              | 262.23<br>240.23<br>(261.77)<br>=<br>Total Lead<br>(L)<br>77.00<br>75.00<br>76.50  | 0.17<br>70.73<br>(0.05)<br>264.85<br>Weighted Lead<br>(M)<br>3.09<br>65.43<br>2.01<br>4.71  |
| Kentucky State Kentucky State Kentucky State City of Hazard  Federal Unemployment Taxes  Payee (A) Internal Revenue Service Internal Revenue Service Internal Revenue Service Internal Revenue Service State Unemployment Taxes - Kentucky   | Check Check Check  Method of Payment  (B)  EFT  EFT  EFT  EFT  | 9,665.44 4,406,803.13 2,980.56 \$ 14,975,092.67  Amount (C) 909.55 19,773.15 594.65 1,387.39   | 11/1/2021<br>11/1/2021<br>1/1/1/2022<br>Period Beginning Pi<br>(D)<br>10/1/2021<br>11/1/2022<br>4/1/2022<br>7/1/1/2022   | 12/31/2021<br>12/31/2021<br>12/31/2022<br>eriod Ending<br>(E)<br>12/31/2021<br>3/31/2022<br>6/30/2022   | 3/8/2022<br>2/14/2022<br>9/30/2021<br>Due Date F<br>(F)<br>1/31/2022<br>4/30/2022<br>7/31/2022<br>10/31/2022   | 3/8/2022<br>2/14/2022<br>9/30/2021<br>ayment Date<br>(G)<br>1/31/2022<br>4/30/2022<br>7/31/2022   | 0.065%<br>29.441%<br>0.020%<br>Weighting<br>Factor<br>(H)<br>4.013%<br>87.242%<br>2.624%<br>6.121%  | 182.50<br>182.50<br>182.50<br>182.50<br>Service Lead I<br>(I)<br>46.00<br>45.00<br>45.50  | 67.00<br>45.00<br>(457.00)<br>Payment Lead<br>(J)<br>31.00<br>30.00<br>31.00<br>31.00                                  | 12.73<br>12.73<br>12.73<br>Float              | Z62 23<br>240.23<br>(261.77)_ =<br>Total Lead<br>(L)<br>77.00<br>76.50<br>77.00 =  | 0.17<br>70.73<br>(0.05)<br>264.85<br>Weighted Lead<br>(M)<br>3.09<br>65.43<br>2.01<br>4.71  |
| Kentucky State Kentucky State City of Hazard  Federal Unemployment Taxes  Payee  (A) Internal Revenue Service Internal Revenue Service Internal Revenue Service Internal Revenue Service State Unemployment Taxes - Kentucky   | Check Check Check  Method of Payment  (B)  EFT  EFT  EFT  EFT  EFT  EFT  | 9,665,44 4,408,803.13 2,980,56 \$ 14,975,092,67   Amount (C) 909,55 19,773,15 594,65 1,387,39 \$ 22,664,74   | Period Beginning P.  (D) 10/1/2022 4/1/2022 7/11/2022 Period Beginning P.  | 12/31/2021<br>12/31/2021<br>12/31/2022<br>eriod Ending<br>(E)<br>12/31/2021<br>3/31/2022<br>6/30/2022<br>9/30/2022  | 3/8/2022<br>2/14/2022<br>9/30/2021<br>Due Date F<br>(F)<br>1/31/2022<br>4/30/2022<br>7/31/2022<br>10/31/2022   | 3/8/2022<br>2/14/2022<br>9/30/2021<br>ayment Date<br>(G)<br>1/31/2022<br>4/30/2022<br>7/31/2022<br>10/31/2022   | 0.065% 29.441% 0.020%  Weighting Factor (H) 4.013% 87.242% 6.121%  Weighting Factor   | 182.50<br>182.50<br>182.50<br>182.50<br>Service Lead F<br>(I)<br>46.00<br>45.00<br>45.00<br>46.00   | 67.00<br>45.00<br>(457.00)<br>Payment Lead<br>(J)<br>31.00<br>30.00<br>31.00<br>31.00                                  | 12.73<br>12.73<br>12.73<br>12.73              | Z62 23<br>240.23<br>(261.77)_ =<br>Total Lead<br>(L)<br>77.00<br>76.50<br>77.00 =  | 0.17<br>70.73<br>(0.05)<br>264.85<br>Weighted Lead<br>(M)<br>3.09<br>65.43<br>2.01<br>4.71<br>75.24   |
| Kentucky State Kentucky State City of Hazard  Federal Unemployment Taxes  Payee (A) Internal Revenue Service State Unemployment Taxes - Kentucky Payee (A)   | Check Check Check  Method of Payment  (B) EFT EFT EFT EFT EFT (B) Method of Payment (B)  | 9,665,44 4,408,803.13 2,980.56 \$ 14,975,092.67   Amount (C) 909.55 19,773.15 594.65 1,387.39 \$ 22,664.74   Amount (C)  | Period Beginning P. (D) 10/1/2022 4/1/2022 7/1/2022 Period Beginning P. (D) 0 10/1/2021 1/1/2022 1/1/2022 1/1/2022 1/1/2022 1/1/2022 1/1/2022 1/1/2022 Period Beginning P. (D) P. (D)  | 12/31/2021<br>12/31/2021<br>12/31/2022<br>eriod Ending<br>(E)<br>12/31/2021<br>3/31/2022<br>9/30/2022<br>9/30/2022  | 3/8/2022<br>2/14/2022<br>9/30/2021<br>Due Date F<br>(F)<br>1/31/2022<br>4/30/2022<br>7/31/2022<br>10/31/2022   | 3/8/2022<br>2/14/2022<br>9/30/2021<br>ayment Date<br>(G)<br>1/31/2022<br>4/30/2022<br>7/31/2022<br>10/31/2022   | 0.065% 29.441% 0.020%  Weighting Factor (H) 4.013% 87.242% 6.121%  Weighting Factor (H)   | 182.50<br>182.50<br>182.50<br>182.50<br>Service Lead f<br>(I)<br>46.00<br>45.00<br>45.00<br>46.00   | 67.00<br>45.00<br>(457.00)<br>Payment Lead<br>(J)<br>31.00<br>30.00<br>31.00<br>31.00                                  | 12.73<br>12.73<br>12.73<br>12.73              | Z62.23<br>240.23<br>240.23<br>(261.77) _ =<br>Total Lead<br>(L)<br>77.00<br>75.00<br>77.00 _ =   | 0.17 70.73 (0.05) 264.85  Weighted Lead (M) 3.09 65.43 2.01 4.71 75.24  Weighted Lead (M)   |
| Kentucky State Kentucky State Kentucky State City of Hazard  Federal Unemployment Taxes  Payee  (A) Internal Revenue Service Internal Revenue Service Internal Revenue Service Internal Revenue Service State Unemployment Taxes - Kentucky  Payee  (A) Kentucky Department of Revenue   | Check Check Check  Method of Payment  EFT EFT EFT EFT  EFT EFT  EFT  Method of Payment  (B)  EFT                                   | 9,665,44 4,408,803.13 2,980,56 \$ 14,975,092,67   Amount (C) 909,55 19,773.15 594,65 1,387.39 \$ 22,664,74   Amount (C) \$ 447.71  | Period Beginning Pi (D) 10/1/2022 Period Beginning Pi (1/2022 11/1/2022 11/1/2022 7/1/2022 Period Beginning Pi (D) 10/1/2021   | 12/31/2021<br>12/31/2021<br>12/31/2022<br>eriod Ending<br>(E)<br>12/31/2021<br>3/31/2022<br>6/30/2022<br>9/30/2022<br>eriod Ending<br>(E)<br>12/31/2021   | 3/8/2022<br>2/14/2022<br>9/30/2021<br>Due Date F<br>(F)<br>1/31/2022<br>4/30/2022<br>7/31/2022<br>10/31/2022<br>Due Date F<br>(F)<br>1/31/2022   | 3/8/2022<br>2/14/2022<br>9/30/2021<br>ayment Date<br>(G)<br>1/31/2022<br>4/30/2022<br>7/31/2022<br>10/31/2022<br>(G)<br>(G)<br>1/31/2022  | 0.065% 29.441% 0.020%  Weighting Factor (H) 4.013% 87.242% 6.121%  Weighting Factor (H) 2.367%  | 182.50<br>182.50<br>182.50<br>182.50<br>Service Lead f<br>(I)<br>46.00<br>45.00<br>45.00<br>46.00   | 67.00<br>45.00<br>(457.00)<br>Payment Lead<br>(J)<br>31.00<br>31.00<br>31.00<br>31.00<br>31.00                         | 12.73<br>12.73<br>12.73<br>12.73              | Z62.23<br>240.23<br>(261.77)   | 0.17<br>70.73<br>(0.05)<br>264.85<br>Weighted Lead<br>(M)<br>3.09<br>65.43<br>2.01<br>4.71<br>75.24   |
| Kentucky State Kentucky State City of Hazard  Federal Unemployment Taxes  Payee  (A)  Internal Revenue Service Kate Unemployment Taxes - Kentucky  Payee  (A)  Kentucky Department of Revenue Kentucky Department of Revenue   | Check Check Check  Method of Payment  (B) EFT EFT EFT EFT  Method of Payment  (B) EFT EFT  Method of Payment                       | 9,665,44 4,408,803.13 2,980,56 \$ 14,975,092,67   Amount (C) 909,55 19,773.15 594,65 1,387.39 \$ 22,664,74   Amount (C) \$ 247.71 9,342.21   | Period Beginning P.  (D)  (D)  10/1/2022  4/11/2022  Period Beginning P.  (D)  (D)  10/1/2021  1/1/2022  Period Beginning P.  (D)  | 12/31/2021<br>12/31/2021<br>12/31/2022<br>12/31/2022<br>(E)<br>12/31/2021<br>3/31/2022<br>9/30/2022<br>9/30/2022<br>12/31/2021<br>3/31/2023   | 3/8/2022<br>2/14/2022<br>9/30/2021<br>Due Date F<br>(F)<br>1/31/2022<br>4/30/2022<br>10/31/2022<br>Due Date F<br>(F)<br>1/31/2022<br>4/30/2022   | 3/8/2022<br>2/14/2022<br>9/30/2021<br>ayment Date<br>(G)<br>1/31/2022<br>4/30/2022<br>10/31/2022<br>ayment Date<br>(G)<br>1/31/2022<br>4/30/2022  | 0.065% 29.441% 0.020%  Weighting Factor (H) 4.013% 87.242% 6.121%  Weighting Factor (H) 2.357% 88.885%  | 182.50<br>182.50<br>182.50<br>Service Lead F<br>(I)<br>45.00<br>45.00<br>46.00<br>Service Lead F<br>(I)<br>46.00<br>45.00   | 67.00 45.00 (457.00)  Payment Lead (J) 31.00 30.00 31.00 31.00 31.00 31.00 31.00                                       | 12.73<br>12.73<br>12.73<br>12.73              | Z62.23<br>240.23<br>(261.77)   | 0.17 70.73 (0.05) 264.85  Weighted Lead (M) 3.09 65.43 2.01 4.71 75.24  Weighted Lead (M) 1.81 66.66  |
| Kentucky State Kentucky State Kentucky State City of Hazard  Federal Unemployment Taxes  Payee (A) Internal Revenue Service State Unemployment Taxes - Kentucky Payee (A) Kentucky Department of Revenue   | Check Check Check  Method of Payment  EFT EFT EFT EFT EFT EFT EFT EFT EFT EF   | 9,665,44 4,408,803.13 2,980.56 \$ 14,975,092.67   Amount (C) 909.55 19,773.15 594.65 1,387.39 \$ 22,664.74   Amount (C) \$ 247.71 9,342.21 340.06  | Period Beginning P. (D) 10/1/2022 1/1/2 | 12/31/2021<br>12/31/2021<br>12/31/2022<br>eriod Ending<br>(E)<br>12/31/2021<br>3/31/2022<br>6/30/2022<br>9/30/2022<br>eriod Ending<br>(E)<br>12/31/2021<br>3/31/2022<br>6/30/2022                                       | 3/8/2022<br>2/14/2022<br>9/30/2021<br>Due Date F<br>(F)<br>1/31/2022<br>7/31/2022<br>10/31/2022<br>F<br>(F)<br>1/31/2022<br>4/30/2022<br>7/31/2022   | 3/8/2022<br>2/14/2022<br>9/30/2021<br>ayment Date<br>(G)<br>1/31/2022<br>4/30/2022<br>7/31/2022<br>10/31/2022<br>(G)<br>1/31/2022<br>4/30/2022<br>4/30/2022<br>7/31/2022  | 0.065% 29.441% 0.020%  Weighting Factor (H) 4.013% 87.242% 6.121%  Weighting Factor (H) 2.357% 88.885% 3.235%   | 182.50<br>182.50<br>182.50<br>182.50<br>Service Lead [10]<br>46.00<br>45.00<br>45.00<br>46.00<br>46.00<br>46.00<br>46.00<br>46.00   | 67.00<br>45.00<br>(457.00)<br>Payment Lead<br>(J)<br>31.00<br>31.00<br>31.00<br>31.00<br>31.00<br>30.00<br>31.00       | 12.73<br>12.73<br>12.73<br>12.73              | Z62 23 240.23 (261.77) = = = = = = = = = = = = = = = = = =   | 0.17 70.73 (0.05) 264.85  Weighted Lead (M) 3.09 65.43 2.01 4.71 75.24  Weighted Lead (M) 1.81 66.66  |
| Kentucky State Kentucky State City of Hazard  Federal Unemployment Taxes  Payee  (A)  Internal Revenue Service Kate Unemployment Taxes - Kentucky  Payee  (A)  Kentucky Department of Revenue Kentucky Department of Revenue   | Check Check Check  Method of Payment  (B) EFT EFT EFT EFT  Method of Payment  (B) EFT EFT  Method of Payment                       | 9,665,44 4,408,803.13 2,980,56 \$ 14,975,092,67   Amount (C) 909,55 19,773,15 594,65 1,387,39 \$ 22,664,74   Amount (C) \$ 247,71 9,342,21 340,06 580,49   | Period Beginning P.  (D)  (D)  10/1/2022  4/11/2022  Period Beginning P.  (D)  (D)  10/1/2021  1/1/2022  Period Beginning P.  (D)  | 12/31/2021<br>12/31/2021<br>12/31/2022<br>12/31/2022<br>(E)<br>12/31/2021<br>3/31/2022<br>9/30/2022<br>9/30/2022<br>12/31/2021<br>3/31/2023   | 3/8/2022<br>2/14/2022<br>9/30/2021<br>Due Date F<br>(F)<br>1/31/2022<br>4/30/2022<br>10/31/2022<br>Due Date F<br>(F)<br>1/31/2022<br>4/30/2022   | 3/8/2022<br>2/14/2022<br>9/30/2021<br>ayment Date<br>(G)<br>1/31/2022<br>4/30/2022<br>10/31/2022<br>ayment Date<br>(G)<br>1/31/2022<br>4/30/2022  | 0.065% 29.441% 0.020%  Weighting Factor (H) 4.013% 87.242% 6.121%  Weighting Factor (H) 2.357% 88.885%  | 182.50<br>182.50<br>182.50<br>Service Lead F<br>(I)<br>45.00<br>45.00<br>46.00<br>Service Lead F<br>(I)<br>46.00<br>45.00   | 67.00 45.00 (457.00)  Payment Lead (J) 31.00 30.00 31.00 31.00 31.00 31.00 31.00                                       | 12.73<br>12.73<br>12.73<br>12.73              | Z62.23<br>240.23<br>(261.77)   | 0.17 70.73 (0.05) 264.85  Weighted Lead (M) 3.09 65.43 2.01 4.71 75.24  Weighted Lead (M) 1.81 66.66 2.48 4.25  |
| Kentucky State Kentucky State Kentucky State City of Hazard  Federal Unemployment Taxes  Payee (A) Internal Revenue Service State Unemployment Taxes - Kentucky Payee (A) Kentucky Department of Revenue   | Check Check Check  Method of Payment  EFT EFT EFT EFT EFT EFT EFT EFT EFT EF   | 9,665,44 4,408,803.13 2,980.56 \$ 14,975,092.67   Amount (C) 909.55 19,773.15 594.65 1,387.39 \$ 22,664.74   Amount (C) \$ 247.71 9,342.21 340.06  | Period Beginning P. (D) 10/1/2022 1/1/2 | 12/31/2021<br>12/31/2021<br>12/31/2022<br>eriod Ending<br>(E)<br>12/31/2021<br>3/31/2022<br>6/30/2022<br>9/30/2022<br>eriod Ending<br>(E)<br>12/31/2021<br>3/31/2022<br>6/30/2022                                       | 3/8/2022<br>2/14/2022<br>9/30/2021<br>Due Date F<br>(F)<br>1/31/2022<br>7/31/2022<br>10/31/2022<br>F<br>(F)<br>1/31/2022<br>4/30/2022<br>7/31/2022   | 3/8/2022<br>2/14/2022<br>9/30/2021<br>ayment Date<br>(G)<br>1/31/2022<br>4/30/2022<br>7/31/2022<br>10/31/2022<br>(G)<br>1/31/2022<br>4/30/2022<br>4/30/2022<br>7/31/2022  | 0.065% 29.441% 0.020%  Weighting Factor (H) 4.013% 87.242% 6.121%  Weighting Factor (H) 2.357% 88.885% 3.235%   | 182.50<br>182.50<br>182.50<br>182.50<br>Service Lead [10]<br>46.00<br>45.00<br>45.00<br>46.00<br>46.00<br>46.00<br>46.00<br>46.00   | 67.00<br>45.00<br>(457.00)<br>Payment Lead<br>(J)<br>31.00<br>31.00<br>31.00<br>31.00<br>31.00<br>30.00<br>31.00       | 12.73<br>12.73<br>12.73<br>12.73              | Z62 23 240.23 (261.77) = = = = = = = = = = = = = = = = = =   | 0.17 70.73 (0.05) 264.85  Weighted Lead (M) 3.09 65.43 2.01 4.71 75.24  Weighted Lead (M) 1.81 66.66  |
| Kentucky State Kentucky State Kentucky State City of Hazard  Federal Unemployment Taxes  Payee (A) Internal Revenue Service State Unemployment Taxes - Kentucky Payee (A) Kentucky Department of Revenue   | Check Check Check  Method of Payment  EFT EFT EFT EFT EFT EFT EFT EFT EFT EF   | 9,665,44 4,408,803.13 2,980,56 \$ 14,975,092,67   Amount (C) 909,55 19,773,15 594,65 1,387,39 \$ 22,664,74   Amount (C) \$ 247,71 9,342,21 340,06 580,49   | Period Beginning P. (D) 10/1/2022 1/1/2 | 12/31/2021<br>12/31/2021<br>12/31/2022<br>eriod Ending<br>(E)<br>12/31/2021<br>3/31/2022<br>6/30/2022<br>9/30/2022<br>eriod Ending<br>(E)<br>12/31/2021<br>3/31/2022<br>6/30/2022                                       | 3/8/2022<br>2/14/2022<br>9/30/2021<br>Due Date F<br>(F)<br>1/31/2022<br>7/31/2022<br>10/31/2022<br>F<br>(F)<br>1/31/2022<br>4/30/2022<br>7/31/2022   | 3/8/2022<br>2/14/2022<br>9/30/2021<br>ayment Date<br>(G)<br>1/31/2022<br>4/30/2022<br>7/31/2022<br>10/31/2022<br>(G)<br>1/31/2022<br>4/30/2022<br>4/30/2022<br>7/31/2022  | 0.065% 29.441% 0.020%  Weighting Factor (H) 4.013% 87.242% 6.121%  Weighting Factor (H) 2.357% 88.885% 3.235%   | 182.50<br>182.50<br>182.50<br>182.50<br>Service Lead [10]<br>46.00<br>45.00<br>45.00<br>46.00<br>46.00<br>46.00<br>46.00<br>46.00   | 67.00<br>45.00<br>(457.00)<br>Payment Lead<br>(J)<br>31.00<br>31.00<br>31.00<br>31.00<br>31.00<br>30.00<br>31.00       | 12.73<br>12.73<br>12.73<br>12.73              | Z62 23 240.23 (261.77) = = = = = = = = = = = = = = = = = =   | 0.17 70.73 (0.05) 264.85  Weighted Lead (M) 3.09 65.43 2.01 4.71 75.24  Weighted Lead (M) 1.81 66.66 2.48 4.25  |
| Kentucky State Kentucky State Kentucky State City of Hazard  Federal Unemployment Taxes  Payee  (A) Internal Revenue Service Internal Revenue Kentucky Department of Revenue Kentucky Department of Revenue Kentucky Department of Revenue Kentucky Department of Revenue  | Check Check Check  Method of Payment  EFT EFT EFT EFT EFT EFT EFT EFT EFT EF   | 9,665,44 4,408,803.13 2,980,56 \$ 14,975,092,67   Amount (C) 909,55 19,773,15 594,65 1,387,39 \$ 22,664,74   Amount (C) \$ 247,71 9,342,21 340,06 580,49   | Period Beginning P. (D) 10/1/2022 1/1/2 | 12/31/2021<br>12/31/2021<br>12/31/2022<br>eriod Ending<br>(E)<br>12/31/2021<br>3/31/2022<br>6/30/2022<br>9/30/2022<br>eriod Ending<br>(E)<br>12/31/2021<br>3/31/2022<br>6/30/2022                                       | 3/8/2022<br>2/14/2022<br>9/30/2021<br>Due Date F<br>(F)<br>1/31/2022<br>7/31/2022<br>10/31/2022<br>F<br>(F)<br>1/31/2022<br>4/30/2022<br>7/31/2022   | 3/8/2022<br>2/14/2022<br>9/30/2021<br>ayment Date<br>(G)<br>1/31/2022<br>4/30/2022<br>7/31/2022<br>10/31/2022<br>(G)<br>1/31/2022<br>4/30/2022<br>4/30/2022<br>7/31/2022  | 0.065% 29.441% 0.020%  Weighting Factor (H) 4.013% 87.242% 6.121%  Weighting Factor (H) 2.357% 88.885% 3.235%   | 182.50<br>182.50<br>182.50<br>182.50<br>Service Lead [10]<br>46.00<br>45.00<br>45.00<br>46.00<br>46.00<br>46.00<br>46.00<br>46.00   | 67.00<br>45.00<br>(457.00)<br>Payment Lead<br>(J)<br>31.00<br>31.00<br>31.00<br>31.00<br>31.00<br>30.00<br>31.00       | 12.73<br>12.73<br>12.73<br>12.73              | Z62 23 240.23 (261.77) = = = = = = = = = = = = = = = = = =   | 0.17 70.73 (0.05) 264.85  Weighted Lead (M) 3.09 65.43 2.01 4.71 75.24  Weighted Lead (M) 1.81 66.66 2.48 4.25  |
| Kentucky State Kentucky State Kentucky State City of Hazard  Federal Unemployment Taxes  Payee (A) Internal Revenue Service State Unemployment Taxes - Kentucky Payee (A) Kentucky Department of Revenue   | Check Check Check  Method of Payment  EFT EFT EFT EFT EFT EFT EFT EFT EFT EF   | 9,665,44 4,408,803.13 2,980,56 \$ 14,975,092,67   Amount (C) 909,55 19,773,15 594,65 1,387,39 \$ 22,664,74   Amount (C) \$ 247,71 9,342,21 340,06 580,49   | Period Beginning P. (D) 10/1/2022 1/1/2 | 12/31/2021<br>12/31/2021<br>12/31/2022<br>eriod Ending<br>(E)<br>12/31/2021<br>3/31/2022<br>6/30/2022<br>9/30/2022<br>eriod Ending<br>(E)<br>12/31/2021<br>3/31/2022<br>6/30/2022                                       | 3/8/2022<br>2/14/2022<br>9/30/2021<br>Due Date F<br>(F)<br>1/31/2022<br>7/31/2022<br>10/31/2022<br>F<br>(F)<br>1/31/2022<br>4/30/2022<br>7/31/2022   | 3/8/2022<br>2/14/2022<br>9/30/2021<br>ayment Date<br>(G)<br>1/31/2022<br>4/30/2022<br>7/31/2022<br>10/31/2022<br>(G)<br>1/31/2022<br>4/30/2022<br>4/30/2022<br>7/31/2022  | 0.065% 29.441% 0.020%  Weighting Factor (H) 4.013% 87.242% 6.121%  Weighting Factor (H) 2.567% 88.885% 3.235% 5.523%  | 182.50<br>182.50<br>182.50<br>182.50<br>Service Lead [10]<br>46.00<br>45.00<br>45.00<br>46.00<br>46.00<br>46.00<br>46.00<br>46.00   | 67.00<br>45.00<br>(457.00)<br>Payment Lead<br>(J)<br>31.00<br>31.00<br>31.00<br>31.00<br>31.00<br>30.00<br>31.00       | 12.73<br>12.73<br>12.73<br>12.73              | Z62 23 240.23 (261.77) = = = = = = = = = = = = = = = = = =   | 0.17 70.73 (0.05) 264.85  Weighted Lead (M) 3.09 65.43 2.01 4.71 75.24  Weighted Lead (M) 1.81 66.66 2.48 4.25  |
| Kentucky State Kentucky State City of Hazard  Federal Unemployment Taxes  Payee  (A)  Internal Revenue Service  State Unemployment Taxes - Kentucky  Payee  (A)  Kentucky Department of Revenue  | Check Check Check Check  Method of Payment  (B) EFT EFT EFT EFT  Method of Payment  (B) EFT EFT  EFT  EFT  EFT  EFT  EFT  EFT      | 9,665,44 4,408,803.13 2,980,56 \$ 14,975,092,67   Amount (C) 909,55 19,773,15 594,65 1,387,39 \$ 22,664,74   Amount (C) \$ 247,71 9,342,21 340,06 580,49 \$ 10,510,47  | Period Beginning P. (D) 10/1/2022 4/1/2022 7/11/2022 4/1/2022 7/11/2022 4/1/2022 7/11/2022 4/1/2022 7/11/2022 4/1/2022 7/11/2022 4/1/2022 7/11/2022 7/11/2022 7/11/2022 7/11/2022 7/11/2022 7/11/2022 7/11/2022 7/11/2022  | eriod Ending (E) 12/31/2021 12/31/2022 (E) 12/31/2021 3/31/2022 9/30/2022 9/30/2022 9/30/2022 9/30/2022 9/30/2022   | 3/8/2022<br>2/14/2022<br>9/30/2021<br>Due Date F<br>(F)<br>1/31/2022<br>4/30/2022<br>10/31/2022<br>Due Date F<br>(F)<br>1/31/2022<br>4/30/2022<br>7/31/2022<br>10/31/2022  | 3/8/2022<br>2/14/2022<br>9/30/2021<br>ayment Date<br>(G)<br>1/31/2022<br>4/30/2022<br>7/31/2022<br>10/31/2022<br>4/30/2022<br>7/31/2022<br>10/31/2022<br>1/31/2022<br>1/31/2022   | 0.065% 29.441% 0.020%  Weighting Factor (H) 2.624% 6.121%  Weighting Factor (H) 2.357% 88.885% 3.235% 5.523%  | 182.50<br>182.50<br>182.50<br>Service Lead F<br>(I)<br>46.00<br>45.50<br>46.00<br>Service Lead F<br>(I)<br>46.00<br>45.50<br>46.00  | Payment Lead (J) 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00   | 12.73<br>12.73<br>12.73<br>12.73              | Total Lead  (L)  Total Lead  (L)  T7.00  75.00  77.00  Total Lead  (L)  77.00  Total Lead  (L)  77.00  Total Lead  (L)  T7.00  T7.00  T7.00  T7.00  T7.00  T7.00   | 0.17 70.73 (0.05) 264.85  Weighted Lead (M) 3.09 65.43 2.01 4.71 75.24  Weighted Lead (M) 1.81 66.66 2.48 4.25 75.21                                    |
| Kentucky State Kentucky State City of Hazard  Federal Unemployment Taxes  Payee  (A) Internal Revenue Service State Unemployment Taxes - Kentucky  Payee  (A) Kentucky Department of Revenue                  | Check Check Check Check  Method of Payment  (B) EFT EFT EFT  (B) Method of Payment  (B) EFT EFT EFT EFT  (B)  Method of Payment    | 9,665,44 4,408,803,13 2,980,56 \$ 14,975,092,67   Amount  (C) 909.55 19,773,15 594,65 1,3873,9 \$ 22,664,74   Amount  (C) \$ 247,71 9,342,21 340,06 580,49 \$ 10,510,47                                      | Period Beginning P.  (D)  1/1/2022  Period Beginning P.  (D)  1/1/2022  4/1/2022  7/1/2022  Period Beginning P.  (D)  10/1/2021  1/1/2022  4/1/2022  7/1/2022  Period Beginning P.   | 12/31/2021 12/31/2022 12/31/2022  eriod Ending (E) 12/31/2021 3/31/2022 6/30/2022 9/30/2022  eriod Ending (E) 12/31/2021 3/31/2022 6/30/2022 9/30/2022 9/30/2022 9/30/2022  | 3/8/2022<br>2/14/2022<br>9/30/2021<br>Due Date F<br>(F)<br>1/31/2022<br>4/30/2022<br>10/31/2022<br>10/31/2022<br>2/30/2022<br>7/31/2022<br>10/31/2022<br>10/31/2022<br>10/31/2022  | 3/8/2022<br>2/14/2022<br>9/30/2021<br>ayment Date<br>(G)<br>1/31/2022<br>4/30/2022<br>7/31/2022<br>10/31/2022<br>4/30/2022<br>2/31/2022<br>10/31/2022<br>4/30/2022<br>10/31/2022<br>4/30/2022<br>10/31/2022                                       | 0.065% 29.441% 0.020%  Weighting Factor (H) 4.013% 87.242% 2.624% 6.121%  Weighting Factor (H) 2.357% 88.885% 5.523%  | 182.50<br>182.50<br>182.50<br>Service Lead F<br>(I)<br>46.00<br>45.00<br>46.00<br>Service Lead F<br>(I)<br>46.00<br>46.00<br>50<br>46.00<br>46.00<br>46.00                      | 67.00 45.00 (457.00)  Payment Lead (J) 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00                           | 12.73 12.73 12.73 12.73  Float (K)  Float (K) | Total Lead  (L)  77.00 76.50 77.00 76.50 77.00 76.50 77.00 77.00 76.50 77.00 76.50 77.00 76.50 77.00   | 0.17 70.73 (0.05) 264.85  Weighted Lead (M) 3.09 65.43 2.01 4.71 75.24  Weighted Lead (M) 1.81 66.66 2.48 4.25 75.21                                    |
| Kentucky State Kentucky State City of Hazard  Federal Unemployment Taxes  Payee  (A) Internal Revenue Service State Unemployment Taxes - Kentucky  Payee  (A) Kentucky Department of Revenue  State Unemployment Taxes - West Virginia  Payee  (A)  | Check Check Check  Method of Payment  (B)  EFT EFT EFT EFT  EFT EFT  Method of Payment  (B)  EFT EFT  EFT  EFT  EFT  EFT  EFT  EFT | 9,665,44 4,408,803.13 2,980,56 \$ 14,975,092,67   Amount  (C) 909,55 19,773.15 594.65 1,387.39 \$ 22,664,74   Amount  (C) \$ 247.71 9,342,21 340,06 580,49 \$ 10,510,47   Amount  (C)                        | Period Beginning P.  (D)  (D)  10/1/2022  4/1/2022  7/11/2022  Period Beginning P.  (D)  10/1/2021  11/1/2022  4/1/2022  7/11/2022  Period Beginning P.  (D)  10/1/2021  11/1/2022  4/1/2022  Period Beginning P.  | eriod Ending (E) 12/31/2021 12/31/2022  eriod Ending (E) 12/31/2021 3/31/2022 9/30/2022  eriod Ending (E) 12/31/2021 3/31/2022 6/30/2022 9/30/2022  eriod Ending (E)  eriod Ending (E)                                  | 3/8/2022<br>2/14/2022<br>9/30/2021<br>Due Date F<br>(F)<br>1/31/2022<br>4/30/2022<br>7/31/2022<br>10/31/2022<br>10/31/2022<br>10/31/2022<br>10/31/2022<br>10/31/2022<br>10/31/2022   | 3/8/2022<br>2/14/2022<br>9/30/2021<br>ayment Date<br>(G)<br>1/31/2022<br>4/30/2022<br>7/31/2022<br>10/31/2022<br>1/31/2022<br>1/31/2022<br>1/31/2022<br>1/31/2022<br>1/31/2022  | 0.065% 29.441% 0.020%  Weighting Factor (H) 4.013% 87.242% 6.121%  Weighting Factor (H) 2.367% 88.885% 3.235% 5.523%  | 182.50 182.50 182.50 182.50  Service Lead f (1) 46.00 45.50 46.00 45.00 45.00 46.00 45.00 45.00 45.00 45.00 45.00   | Payment Lead (J) 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00                         | 12.73<br>12.73<br>12.73<br>12.73              | Z62.23<br>240.23<br>(261.77) = =   | 0.17 70.73 (0.05) 264.85  Weighted Lead (M) 3.09 65.43 2.01 4.71 75.24  Weighted Lead (M) 1.81 66.66 2.48 4.25 75.21                                    |
| Kentucky State Kentucky State City of Hazard  Federal Unemployment Taxes  Payee  (A)  Internal Revenue Service Internal Revenue  State Unemployment Taxes - Kentucky Department of Revenue  State Unemployment Taxes - West Virginia  Payee  (A)  West Virginia Department of Revenue   | Check Check Check Check  Method of Payment  (B) EFT EFT EFT  Method of Payment  (B) EFT EFT EFT  EFT  EFT  EFT  EFT  EFT           | 9,665,44 4,408,803.13 2,980,56 \$ 14,975,092,67   Amount (C) 909,55 19,773.15 594,65 1,387.39 \$ 22,664,74   Amount (C) \$ 247.71 9,342.21 340.06 580.49 \$ 10,510,47   Amount (C) 1,991.31                  | Period Beginning P.  (D)  (D)  10/1/2021  1/1/2022  10/1/2021  1/1/2022  4/1/2022  Period Beginning P.  (D)  10/1/2021  1/1/2022  4/1/2022  7/1/2022  Period Beginning P.  (D)  10/1/2021  Period Beginning P.  (D)  10/1/2021   | eriod Ending (E) 12/31/2021 12/31/2022  eriod Ending (E) 12/31/2021 3/31/2022 9/30/2022 9/30/2022  eriod Ending (E) 12/31/2021 3/31/2022 6/30/2022 9/30/2022  eriod Ending (E) 12/31/2021 12/31/2021 12/31/2021         | 3/8/2022<br>2/14/2022<br>9/30/2021<br>Due Date F<br>(F)<br>1/31/2022<br>4/30/2022<br>10/31/2022<br>10/31/2022<br>10/31/2022<br>10/31/2022<br>10/31/2022<br>10/31/2022<br>10/31/2022<br>10/31/2022<br>10/31/2022  | 3/8/2022<br>2/14/2022<br>9/30/2021<br>ayment Date<br>(G)<br>1/31/2022<br>4/30/2022<br>7/31/2022<br>10/31/2022<br>4/30/2022<br>7/31/2022<br>10/31/2022<br>10/31/2022<br>10/31/2022<br>10/31/2022   | 0.065% 29.441% 0.020%  Weighting Factor (H) 4.013% 6.121%  Weighting Factor (H) 2.357% 88.885% 3.235% 5.523%  Weighting Factor (H) 6.742%                         | 182.50<br>182.50<br>182.50<br>Service Lead F<br>(I)<br>45.00<br>45.00<br>46.00<br>Service Lead F<br>(I)<br>46.00<br>45.00<br>45.00<br>45.00<br>45.00<br>45.00<br>45.00<br>46.00 | Payment Lead (J) 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 | 12.73 12.73 12.73 12.73  Float (K)  Float (K) | Total Lead  (L)  Total Lead  (L)  Total Lead  (L)  T7.00  75.00  76.50  77.00  Total Lead  (L)  T7.00  Total Lead  (L)  T7.00  T7.00  T7.00  T7.00  T7.00  T7.00  T7.00  | 0.17 70.73 (0.05) 264.85  Weighted Lead (M) 3.09 65.43 2.01 4.71 75.24  Weighted Lead (M) 1.81 66.66 2.48 4.25 75.21                                    |
| Kentucky State Kentucky State City of Hazard  Federal Unemployment Taxes  Payee  (A) Internal Revenue Service State Unemployment Taxes - Kentucky  Payee  (A) Kentucky Department of Revenue  State Unemployment Taxes - West Virginia  Payee  (A)  | Check Check Check Check  Method of Payment  EFT EFT EFT EFT EFT  Method of Payment  (B) EFT    | 9,665,44 4,408,803.13 2,980,56 \$ 14,975,092,67   Amount  (C) 909,55 19,773.15 594,65 1,387.39 \$ 22,664,74   Amount  (C) \$ 9,47.71 9,342.21 340,06 580,49 \$ 10,510,47   Amount  (C)  1,991.31 24,829.79   | Period Beginning P.  (D)  Period Beginning P.  (D)  10/1/2021 1/1/2022 4/1/2022 7/1/2022  Period Beginning P.  (D)  10/1/2021 1/1/2022 4/1/2022 7/1/2022 Period Beginning P.  (D)  10/1/2021 1/1/2022 1/1/2022 1/1/2022 Period Beginning P.  (D)  10/1/2021 1/1/2022   | eriod Ending (E) 12/31/2021 12/31/2022  eriod Ending (E) 12/31/2021 3/31/2022 6/30/2022 9/30/2022  eriod Ending (E) 12/31/2021 3/31/2022 6/30/2022 9/30/2022  eriod Ending (E) 12/31/2021 3/31/2022 6/30/2022 9/30/2022 | 3/8/2022<br>2/14/2022<br>9/30/2021<br>Due Date F<br>(F)<br>1/31/2022<br>1/31/2022<br>1/31/2022<br>1/31/2022<br>1/31/2022<br>1/31/2022<br>1/31/2022<br>1/31/2022<br>1/31/2022<br>1/31/2022<br>1/31/2022<br>1/31/2022<br>1/31/2022<br>1/31/2022<br>1/31/2022 | 3/8/2022<br>2/14/2022<br>9/30/2021<br>ayment Date<br>(G)<br>1/31/2022<br>4/30/2022<br>7/31/2022<br>10/31/2022<br>4/30/2022<br>4/30/2022<br>10/31/2022<br>10/31/2022<br>4/30/2022<br>4/30/2022<br>4/30/2022<br>4/30/2022                           | 0.065% 29.441% 0.020%  Weighting Factor (H) 4.013% 87.242% 6.121%  Weighting Factor (H) 2.357% 88.885% 3.235% 5.523%  Weighting Factor (H) 6.742% 84.069%         | 182.50 182.50 182.50 182.50  Service Lead f (I) 46.00 45.00 46.00 45.00 46.00 45.00 46.00 45.00 46.00 45.00 46.00 45.00 46.00   | Payment Lead (J) 31.00 30.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 | 12.73 12.73 12.73 12.73  Float (K)  Float (K) | Total Lead (L)  Total Lead (L)  Total Lead (L)  Total Lead (L)  Tr.00  76.50  77.00  Total Lead (L)  Tr.00  75.00  76.50  77.00  Total Lead (L)  Tr.00  Total Lead (L)  Tr.00  Total Lead (L)  Tr.00  Total Lead (L) | 0.17 70.73 (0.05) 264.85  Weighted Lead (M) 3.09 65.43 2.01 4.71 75.24  Weighted Lead (M) 1.81 66.66 2.48 4.25 75.21                                    |
| Kentucky State Kentucky State City of Hazard  Federal Unemployment Taxes  Payee  (A)  Internal Revenue Service Internal Revenue  State Unemployment Taxes - Kentucky Department of Revenue  State Unemployment Taxes - West Virginia  Payee  (A)  West Virginia Department of Revenue   | Check Check Check Check  Method of Payment  (B) EFT EFT EFT  Method of Payment  (B) EFT EFT EFT  EFT  EFT  EFT  EFT  EFT           | 9,665,44 4,408,803.13 2,980,56 \$ 14,975,092,67   Amount (C) 909,55 19,773.15 594,65 1,387.39 \$ 22,664,74   Amount (C) \$ 247.71 9,342.21 340.06 580.49 \$ 10,510,47   Amount (C) 1,991.31                  | Period Beginning P.  (D)  10/1/2022  7/11/2022  Period Beginning P.  (D)  10/1/2021  1/1/2022  4/1/2022  7/11/2022  Period Beginning P.  (D)  10/1/2021  1/1/2022  4/1/2022  7/1/2022  Period Beginning P.  (D)  10/1/2021  1/1/2022  4/1/2022  4/1/2022  Period Beginning P.  | eriod Ending (E) 12/31/2021 12/31/2022  eriod Ending (E) 12/31/2021 3/31/2022 9/30/2022 9/30/2022  eriod Ending (E) 12/31/2021 3/31/2022 6/30/2022 9/30/2022  eriod Ending (E) 12/31/2021 12/31/2021 12/31/2021         | 3/8/2022<br>2/14/2022<br>9/30/2021<br>Due Date F<br>(F)<br>1/31/2022<br>4/30/2022<br>10/31/2022<br>10/31/2022<br>10/31/2022<br>10/31/2022<br>10/31/2022<br>10/31/2022<br>10/31/2022<br>10/31/2022<br>10/31/2022  | 3/8/2022<br>2/14/2022<br>9/30/2021<br>ayment Date<br>(G)<br>1/31/2022<br>4/30/2022<br>7/31/2022<br>10/31/2022<br>4/30/2022<br>7/31/2022<br>10/31/2022<br>10/31/2022<br>10/31/2022<br>10/31/2022   | 0.065% 29.441% 0.020%  Weighting Factor (H) 4.013% 6.121%  Weighting Factor (H) 2.357% 88.885% 3.235% 5.523%  Weighting Factor (H) 6.742%                         | 182.50<br>182.50<br>182.50<br>Service Lead F<br>(I)<br>45.00<br>45.00<br>46.00<br>Service Lead F<br>(I)<br>46.00<br>45.00<br>45.00<br>45.00<br>45.00<br>45.00<br>45.00<br>46.00 | Payment Lead (J) 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 | 12.73 12.73 12.73 12.73  Float (K)  Float (K) | Total Lead  (L)  Total Lead  (L)  Total Lead  (L)  T7.00  75.00  76.50  77.00  Total Lead  (L)  T7.00  Total Lead  (L)  T7.00  T7.00  T7.00  T7.00  T7.00  T7.00  T7.00  | 0.17 70.73 (0.05) 264.85  Weighted Lead (M) 3.09 65.43 2.01 4.71 75.24  Weighted Lead (M) 1.81 66.66 2.48 4.25 75.21                                    |
| Kentucky State Kentucky State City of Hazard  Federal Unemployment Taxes  Payee  (A) Internal Revenue Service State Unemployment Taxes - Kentucky  Payee  (A) Kentucky Department of Revenue  State Unemployment Taxes - West Virginia  Payee  (A) West Virginia Department of Revenue West Virginia Department of Revenue   | Check Check Check Check  Method of Payment  EFT EFT EFT EFT EFT  Method of Payment  (B) EFT    | 9,665,44 4,408,803.13 2,980,56 \$ 14,975,092,67   Amount  (C) 909,55 19,773.15 594,65 1,387.39 \$ 22,664,74   Amount  (C) \$ 9,47.71 9,342.21 340,06 580,49 \$ 10,510,47   Amount  (C)  1,991.31 24,829.79   | Period Beginning P.  (D)  Period Beginning P.  (D)  10/1/2021 1/1/2022 4/1/2022 7/1/2022  Period Beginning P.  (D)  10/1/2021 1/1/2022 4/1/2022 7/1/2022 Period Beginning P.  (D)  10/1/2021 1/1/2022 1/1/2022 1/1/2022 Period Beginning P.  (D)  10/1/2021 1/1/2022   | eriod Ending (E) 12/31/2021 12/31/2022  eriod Ending (E) 12/31/2021 3/31/2022 6/30/2022 9/30/2022  eriod Ending (E) 12/31/2021 3/31/2022 6/30/2022 9/30/2022  eriod Ending (E) 12/31/2021 3/31/2022 6/30/2022 9/30/2022 | 3/8/2022<br>2/14/2022<br>9/30/2021<br>Due Date F<br>(F)<br>1/31/2022<br>1/31/2022<br>1/31/2022<br>1/31/2022<br>1/31/2022<br>1/31/2022<br>1/31/2022<br>1/31/2022<br>1/31/2022<br>1/31/2022<br>1/31/2022<br>1/31/2022<br>1/31/2022<br>1/31/2022<br>1/31/2022 | 3/8/2022<br>2/14/2022<br>9/30/2021<br>ayment Date<br>(G)<br>1/31/2022<br>4/30/2022<br>7/31/2022<br>10/31/2022<br>4/30/2022<br>4/30/2022<br>10/31/2022<br>10/31/2022<br>4/30/2022<br>4/30/2022<br>4/30/2022<br>4/30/2022                           | 0.065% 29.441% 0.020%  Weighting Factor (H) 4.013% 87.242% 6.121%  Weighting Factor (H) 2.357% 88.885% 3.235% 5.523%  Weighting Factor (H) 6.742% 84.069%         | 182.50 182.50 182.50 182.50  Service Lead f (I) 46.00 45.00 46.00 45.00 46.00 45.00 46.00 45.00 46.00 45.00 46.00 45.00 46.00   | Payment Lead (J) 31.00 30.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 | 12.73 12.73 12.73 12.73  Float (K)  Float (K) | Total Lead (L)  Total Lead (L)  Total Lead (L)  Total Lead (L)  Tr.00  76.50  77.00  Total Lead (L)  Tr.00  75.00  76.50  77.00  Total Lead (L)  Tr.00  Total Lead (L)  Tr.00  Total Lead (L)  Tr.00  Total Lead (L) | 0.17 70.73 (0.05) 264.85  Weighted Lead (M) 3.09 65.43 2.01 4.71 75.24  Weighted Lead (M) 1.81 66.66 2.48 4.25 75.21                                    |
| Kentucky State Kentucky State City of Hazard  Federal Unemployment Taxes  Payee  (A)  Internal Revenue Service  State Unemployment Taxes - Kentucky  Payee  (A)  Kentucky Department of Revenue Kentucky Department of Revenue Kentucky Department of Revenue Kentucky Department of Revenue  State Unemployment Taxes - West Virginia  Payee  (A)  West Virginia Department of Revenue | Check Check Check Check  Method of Payment  (B) EFT EFT EFT  Method of Payment  (B) EFT EFT EFT  EFT  EFT  EFT  EFT  EFT           | 9,665,44 4,408,803.13 2,980,56 \$ 14,975,092,67   Amount (C) 909,55 19,773.15 594.65 1,387.39 \$ 22,664,74   Amount (C) \$ 247,71 9,342.21 340.06 580.49 \$ 10,510.47   Amount (C) 1,991.31 24,829.79 621,29 | Period Beginning P.  (D)  10/1/2022  7/11/2022  Period Beginning P.  (D)  10/1/2021  1/1/2022  4/1/2022  7/11/2022  Period Beginning P.  (D)  10/1/2021  1/1/2022  4/1/2022  7/1/2022  Period Beginning P.  (D)  10/1/2021  1/1/2022  4/1/2022  4/1/2022  Period Beginning P.  | eriod Ending (E) 12/31/2021 12/31/2022  eriod Ending (E) 12/31/2021 3/31/2022 9/30/2022 9/30/2022  eriod Ending (E) 12/31/2021 3/31/2022 3/31/2022 9/30/2022  eriod Ending (E) 12/31/2021 3/31/2022 3/31/2022 9/30/2022 | 3/8/2022<br>2/14/2022<br>9/30/2021<br>Due Date F<br>(F)<br>1/31/2022<br>4/30/2022<br>7/31/2022<br>10/31/2022<br>10/31/2022<br>10/31/2022<br>10/31/2022<br>10/31/2022<br>10/31/2022<br>10/31/2022<br>10/31/2022   | 3/8/2022<br>2/14/2022<br>9/30/2021<br>ayment Date<br>(G)<br>1/31/2022<br>4/30/2022<br>7/31/2022<br>10/31/2022<br>4/30/2022<br>7/31/2022<br>10/31/2022<br>4/30/2022<br>7/31/2022<br>10/31/2022<br>4/30/2022<br>4/30/2022<br>4/30/2022<br>4/30/2022 | 0.065% 29.441% 0.020%  Weighting Factor (H) 4.013% 87.242% 6.121%  Weighting Factor (H) 2.357% 88.885% 3.235% 5.523%  Weighting Factor (H) 6.742% 84.069% 82.104% | 182.50 182.50 182.50 182.50 182.50  Service Lead f (I) 46.00 45.50 46.00 45.00 45.00 45.00 45.00 45.00 45.50 46.00  | Payment Lead (J) 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00 31.00                         | 12.73 12.73 12.73 12.73  Float (K)  Float (K) | Total Lead  (L)  Total Lead  (L)  T77.00  75.00  76.50  77.00  75.00  76.50  77.00  76.50  77.00  76.50  77.00  76.50  77.00  76.50  77.00  76.50  77.00  76.50  | 0.17 70.73 (0.05) 264.85  Weighted Lead (M) 3.09 65.43 2.01 4.71 75.24  Weighted Lead (M) 1.81 66.66 2.48 4.25 75.21  Weighted Lead (M) 5.19 63.05 1.61 |

# KENTUCKY POWER COMPANY LEAD LAG STUDY INTEREST EXPENSE

Weighted Lead Time: 82.05 days

| Note  | Total         | Period Beginning | Period Ending | Midpoint of<br>Service Period | Weighting Factor | Weighted<br>Lead Time |
|---|---------------|------------------|---------------|-------------------------------|------------------|-----------------------|
| (A)   | (B)           | (C)              | (D)           | (E)                           | (F)              | (G)                   |
| \$125M Bank Term Loan                               | 77,083.33     | 9/20/2021        | 10/20/2021    | 15.50                         | 0.153%           | 0.02                  |
| \$75M Bank Term Loan                                | 332,979.17    | 7/30/2021        | 10/29/2021    | 46.00                         | 0.663%           | 0.30                  |
| \$125M Bank Term Loan                               | 84,791.67     | 10/20/2021       | 11/22/2021    | 17.00                         | 0.169%           | 0.03                  |
| \$75M Bank Term Loan                                | 106,000.00    | 10/29/2021       | 11/30/2021    | 16.50                         | 0.211%           | 0.03                  |
| \$150M Bank Term Loan                               | 348,833.33    | 9/17/2021        | 12/17/2021    | 46.00                         | 0.694%           | 0.32                  |
| \$125M Bank Term Loan                               | 78,125.00     | 11/22/2021       | 12/22/2021    | 15.50                         | 0.155%           | 0.02                  |
| \$75M Bank Term Loan                                | 103,333.33    | 11/30/2021       | 12/31/2021    | 16.00                         | 0.206%           | 0.03                  |
| \$150M Bank Term Loan                               | 121,333.34    | 12/17/2021       | 1/18/2022     | 16.50                         | 0.241%           | 0.04                  |
| \$125M Bank Term Loan                               | 87,083.33     | 12/22/2021       | 1/24/2022     | 17.00                         | 0.173%           | 0.03                  |
| \$75M Bank Term Loan                                | 103,979.17    | 12/31/2021       | 1/31/2022     | 16.00                         | 0.207%           | 0.03                  |
| \$125M Bank Term Loan                               | 81,805.56     | 1/24/2022        | 2/24/2022     | 16.00                         | 0.163%           | 0.03                  |
| \$125M Bank Term Loan                               | 34,305.56     | 2/24/2022        | 3/7/2022      | 6.00                          | 0.068%           | 0.00                  |
| \$150M Bank Term Loan                               | 394,333.33    | 1/18/2022        | 4/19/2022     | 46.00                         | 0.785%           | 0.36                  |
| \$75M Bank Term Loan                                | 330,000.00    | 1/31/2022        | 4/29/2022     | 44.50                         | 0.657%           | 0.29                  |
| \$125M Bank Term Loan                               | 386,406.39    | 3/7/2022         | 6/7/2022      | 46.50                         | 0.769%           | 0.36                  |
| \$150M Bank Term Loan                               | 701,458.33    | 4/19/2022        | 7/19/2022     | 46.00                         | 1.396%           | 0.64                  |
| \$75M Bank Term Loan                                | 519,458,33    | 4/29/2022        | 7/29/2022     | 46.00                         | 1.034%           | 0.48                  |
| \$125M Bank Term Loan                               | 717,980.52    | 6/7/2022         | 9/7/2022      | 46.50                         | 1.429%           | 0.66                  |
| \$75M Bank Term Loan                                | 153.583.33    | 7/29/2022        | 8/31/2022     | 17.00                         | 0.306%           | 0.05                  |
| WV Economic Dev. Authority, Series 2014A (Mitchell) | 763,750.00    | 5/4/2021         | 11/1/2021     | 91.00                         | 1.520%           | 1.38                  |
| Senior Notes (Public)                               | 2,109,375.00  | 6/3/2021         | 12/1/2021     | 91.00                         | 4.198%           | 3.82                  |
| Senior Notes (Private Placement)                    | 1,204,500.00  | 6/22/2021        | 12/20/2021    | 91.00                         | 2.397%           | 2.18                  |
| Senior Notes (Private Placement)                    | 2,439,000.00  | 6/22/2021        | 12/20/2021    | 91.00                         | 4.854%           | 4.42                  |
| Senior Notes (Private Placement)                    | 1,732,000.00  | 7/2/2021         | 12/30/2021    | 91.00                         | 3.447%           | 3.14                  |
| Senior Notes (Private Placement)                    | 1,017,250.00  | 9/14/2021        | 3/14/2022     | 91.00                         | 2.024%           | 1.84                  |
| Senior Notes (Private Placement)                    | 670,000.00    | 9/14/2021        | 3/14/2022     | 91.00                         | 1.333%           | 1.21                  |
| Senior Notes (Private Placement)                    | 2,846,250.00  | 9/14/2021        | 3/14/2022     | 91.00                         | 5.664%           | 5.15                  |
| Senior Notes (Private Placement)                    | 1,133,000.00  | 9/14/2021        | 3/14/2022     | 91.00                         | 2.255%           | 2.05                  |
| Senior Notes (Private Placement)                    | 2,508,000.00  | 9/30/2021        | 3/30/2022     | 91.00                         | 4.991%           | 4.54                  |
| WV Economic Dev. Authority, Series 2014A (Mitchell) | 763,750.00    | 11/2/2021        | 5/2/2022      | 91.00                         | 1.520%           | 1.38                  |
| Senior Notes (Public)                               | 2,109,375.00  | 12/2/2021        | 6/1/2022      | 91.00                         | 4.198%           | 3.82                  |
| Senior Notes (Private Placement)                    | 1,204,500.00  | 12/22/2021       | 6/21/2022     | 91.00                         | 2.397%           | 2.18                  |
| Senior Notes (Private Placement)                    | 2,439,000.00  | 12/22/2021       | 6/21/2022     | 91.00                         | 4.854%           | 4.42                  |
| Senior Notes (Private Placement)                    | 1,732,000.00  | 12/31/2021       | 6/30/2022     | 91.00                         | 3.447%           | 3.14                  |
| Senior Notes (Private Placement)                    | 1,017,250.00  | 3/15/2022        | 9/12/2022     | 91.00                         | 2.024%           | 1.84                  |
| Senior Notes (Private Placement)                    | 670,000.00    | 3/15/2022        | 9/12/2022     | 91.00                         | 1.333%           | 1.21                  |
| Senior Notes (Private Placement)                    | 2,846,250.00  | 3/15/2022        | 9/12/2022     | 91.00                         | 5.664%           | 5.15                  |
| Senior Notes (Private Placement)                    | 1,133,000.00  | 3/15/2022        | 9/12/2022     | 91.00                         | 2.255%           | 2.05                  |
| Senior Notes (Private Placement)                    | 2,508,000.00  | 4/2/2022         | 9/30/2022     | 91.00                         | 4.991%           | 4.54                  |
| \$150M Bank Term Loan                               | 1,357,000.00  | 7/19/2022        | 10/19/2022    | 46.50                         | 2.700%           | 1.26                  |
| \$75M Bank Term Loan - Draw 1                       | 674,220.90    | 7/22/2022        | 10/24/2022    | 47.50                         | 1.342%           | 0.64                  |
| WV Economic Dev. Authority, Series 2014A (Mitchell) | 763,750.00    | 5/4/2021         | 11/1/2021     | 91.00                         | 1.520%           | 1.38                  |
| \$75M Bank Term Loan - Draw 2                       | 755,603.33    | 8/12/2022        | 11/14/2022    | 47.50                         | 1.504%           | 0.71                  |
| Senior Notes (Public)                               | 2,109,375.00  | 12/2/2021        | 6/1/2022      | 91.00                         | 4.198%           | 3.82                  |
| \$125M Bank Term Loan                               | 1,294,493.96  | 9/7/2022         | 12/7/2022     | 46.00                         | 2.576%           | 1.18                  |
| \$75M Bank Term Loan - Draw 2                       | 302,862.50    | 11/14/2022       | 12/14/2022    | 15.50                         | 0.603%           | 0.09                  |
| Senior Notes (Private Placement)                    | 1,204,500.00  | 6/22/2021        | 12/20/2021    | 91.00                         | 2.397%           | 2.18                  |
| Senior Notes (Private Placement)                    | 2,439,000.00  | 6/22/2021        | 12/20/2021    | 91.00                         | 4.854%           | 4.42                  |
| Senior Notes (Private Placement)                    | 1,732,000.00  | 12/31/2021       | 6/30/2022     | 91.00                         | 3.447%           | 3.14                  |
| \$125M Bank Term Loan                               | 8,757.95      | 12/28/2022       | 12/29/2022    | 1.00                          | 0.017%           | 0.00                  |
|   | 50,250,686.66 | <b>=</b>         |               |                               |                  | 82.05                 |

# KENTUCKY POWER COMPANY LEAD LAG STUDY FEDERAL & STATE INCOME TAX

## Federal Income Tax

|                                  |                  |               | Payment    | Tax Due    | Service   | Payment   |       |                  |               |
|----------------------------------|------------------|---------------|------------|------------|-----------|-----------|-------|------------------|---------------|
| Payment                          | Period Beginning | Period Ending | Date       | Date       | Lead Time | Lead Time | Total | Weighting Factor | Weighted Lead |
| (A)                              | (B)              | (C)           | (D)        | (E)        | (F)       | (G)       | (H)   | (1)              | (J)           |
| 2021 Q4 FEDERAL ESTIMATE PAYABLE | 10/1/2021        | 12/31/2021    | 12/15/2021 | 12/15/2021 | 46.00     | (16.00)   | 30.00 | 25%              | 7.50          |
| 2022 Q1 FEDERAL ESTIMATE PAYABLE | 1/1/2022         | 3/31/2022     | 4/15/2022  | 4/15/2022  | 45.00     | 15.00     | 60.00 | 25%              | 15.00         |
| 2022 Q2 FEDERAL ESTIMATE PAYABLE | 4/1/2022         | 6/30/2022     | 6/15/2022  | 6/15/2022  | 45.50     | (15.00)   | 30.50 | 25%              | 7.63          |
| 2022 Q3 FEDERAL ESTIMATE PAYABLE | 7/1/2022         | 9/30/2022     | 9/15/2022  | 9/15/2022  | 46.00     | (15.00)   | 31.00 | 25%              | 7.75          |
|                                  |                  |               |            |            |           |           |       | •                | 37.88         |

## State Income Tax

|                                |                  |               | Payment    | Tax Due    | Service   | Payment   |       |                  |               |
|--------------------------------|------------------|---------------|------------|------------|-----------|-----------|-------|------------------|---------------|
| Payment                        | Period Beginning | Period Ending | Date       | Date       | Lead Time | Lead Time | Total | Weighting Factor | Weighted Lead |
| (A)                            | (B)              | (C)           | (D)        | (E)        | (F)       | (G)       | (H)   | (1)              | (J)           |
| 2021 Q4 STATE ESTIMATE PAYABLE | 10/1/2021        | 12/31/2021    | 12/15/2021 | 12/15/2021 | 46.00     | (16.00)   | 30.00 | 25%              | 7.50          |
| 2022 Q1 STATE ESTIMATE PAYABLE | 1/1/2022         | 3/31/2022     | 4/15/2022  | 4/15/2022  | 45.00     | 15.00     | 60.00 | 25%              | 15.00         |
| 2022 Q2 STATE ESTIMATE PAYABLE | 4/1/2022         | 6/30/2022     | 6/15/2022  | 6/15/2022  | 45.50     | (15.00)   | 30.50 | 25%              | 7.63          |
| 2022 Q3 STATE ESTIMATE PAYABLE | 7/1/2022         | 9/30/2022     | 9/15/2022  | 9/15/2022  | 46.00     | (15.00)   | 31.00 | 25%              | 7.75          |
|                                |                  |               |            |            |           |           |       |                  | 37.88         |

# KENTUCKY POWER COMPANY LEAD LAG STUDY INTERCOMPANY TRANSACTIONS

Weighted Lead Time: 18.21 days

| Service Start Date | Service End Date | Payment Date | Payment<br>Amount | Service Lead<br>Time | Processing Lead<br>Time | Total<br>Unweighted<br>Lead Time | Weighting<br>Factor | Weighted<br>Lead Time |
|--------------------|------------------|--------------|-------------------|----------------------|-------------------------|----------------------------------|---------------------|-----------------------|
| (A)                | (B)              | (C)          | (D)               | (E)                  | (F)                     | (G)                              | (H)                 | (I)                   |
| 10/1/2021          | 10/31/2021       | 11/3/2021    | , ,               | 15.50                | 3.00                    | 18.50                            | 0.121%              | 0.02                  |
| 11/1/2021          | 11/30/2021       | 12/3/2021    | 114,090.95        | 15.00                | 3.00                    | 18.00                            | 0.121%              | 0.02                  |
| 12/1/2021          | 12/31/2021       | 1/5/2022     | 217,018.64        | 15.50                | 5.00                    | 20.50                            | 0.261%              | 0.05                  |
| 1/1/2022           | 1/31/2022        | 2/2/2022     | 118,740.40        | 15.50                | 2.00                    | 17.50                            | 0.143%              | 0.03                  |
| 2/1/2022           | 2/28/2022        | 3/3/2022     | 99,903.38         | 14.00                | 3.00                    | 17.00                            | 0.120%              | 0.02                  |
| 3/1/2022           | 3/31/2022        | 4/4/2022     | 110,902.05        | 15.50                | 4.00                    | 19.50                            | 0.133%              | 0.02                  |
| 4/1/2022           | 4/30/2022        | 5/3/2022     | 87,540.90         | 15.00                | 3.00                    | 18.00                            | 0.105%              | 0.03                  |
| 5/1/2022           | 5/31/2022        | 6/2/2022     | 116,453.28        | 15.50                | 2.00                    | 17.50                            | 0.140%              | 0.02                  |
| 6/1/2022           | 6/30/2022        | 7/5/2022     | 73,768.55         | 15.00                | 5.00                    | 20.00                            | 0.089%              | 0.02                  |
| 7/1/2022           | 7/31/2022        | 8/3/2022     | 184,545.39        | 15.50                | 3.00                    | 18.50                            | 0.003%              | 0.02                  |
| 8/1/2022           | 8/31/2022        | 9/6/2022     |                   | 15.50                | 6.00                    | 21.50                            | 2.803%              | 0.60                  |
|                    |                  |              | 2,333,223.58      |                      |                         |                                  |                     |                       |
| 9/1/2022           | 9/30/2022        | 10/5/2022    | 120,212.32        | 15.00                | 5.00                    | 20.00                            | 0.144%              | 0.03                  |
| 10/1/2021          | 10/31/2021       | 11/3/2021    | 109,295.05        | 15.50                | 3.00                    | 18.50                            | 0.131%              | 0.02                  |
| 11/1/2021          | 11/30/2021       | 12/3/2021    | 128,649.94        | 15.00                | 3.00                    | 18.00                            | 0.155%              | 0.03                  |
| 12/1/2021          | 12/31/2021       | 1/5/2022     | 172,672.34        | 15.50                | 5.00                    | 20.50                            | 0.207%              | 0.04                  |
| 1/1/2022           | 1/31/2022        | 2/2/2022     | 2,121,720.54      | 15.50                | 2.00                    | 17.50                            | 2.549%              | 0.45                  |
| 2/1/2022           | 2/28/2022        | 3/3/2022     | 85,494.13         | 14.00                | 3.00                    | 17.00                            | 0.103%              | 0.02                  |
| 3/1/2022           | 3/31/2022        | 4/4/2022     | 61,810.76         | 15.50                | 4.00                    | 19.50                            | 0.074%              | 0.01                  |
| 4/1/2022           | 4/30/2022        | 5/3/2022     | 9,282.61          | 15.00                | 3.00                    | 18.00                            | 0.011%              | 0.00                  |
| 5/1/2022           | 5/31/2022        | 6/2/2022     | 21,977.43         | 15.50                | 2.00                    | 17.50                            | 0.026%              | 0.00                  |
| 6/1/2022           | 6/30/2022        | 7/5/2022     | 298,462.03        | 15.00                | 5.00                    | 20.00                            | 0.359%              | 0.07                  |
| 7/1/2022           | 7/31/2022        | 8/3/2022     | 203,575.92        | 15.50                | 3.00                    | 18.50                            | 0.245%              | 0.05                  |
| 8/1/2022           | 8/31/2022        | 9/6/2022     | 315,563.37        | 15.50                | 6.00                    | 21.50                            | 0.379%              | 0.08                  |
| 9/1/2022           | 9/30/2022        | 10/5/2022    | 21,252.23         | 15.00                | 5.00                    | 20.00                            | 0.026%              | 0.01                  |
| 10/1/2021          | 10/31/2021       | 11/3/2021    | 71,768.24         | 15.50                | 3.00                    | 18.50                            | 0.086%              | 0.02                  |
| 11/1/2021          | 11/30/2021       | 12/3/2021    | 33,622.66         | 15.00                | 3.00                    | 18.00                            | 0.040%              | 0.01                  |
| 12/1/2021          | 12/31/2021       | 1/5/2022     | 16,196.42         | 15.50                | 5.00                    | 20.50                            | 0.019%              | 0.00                  |
| 1/1/2022           | 1/31/2022        | 2/2/2022     | 18,346.49         | 15.50                | 2.00                    | 17.50                            | 0.022%              | 0.00                  |
| 2/1/2022           | 2/28/2022        | 3/3/2022     | 76,944.41         | 14.00                | 3.00                    | 17.00                            | 0.092%              | 0.02                  |
| 4/1/2022           | 4/30/2022        | 5/3/2022     | 38,383.60         | 15.00                | 3.00                    | 18.00                            | 0.046%              | 0.01                  |
| 5/1/2022           | 5/31/2022        | 6/2/2022     | 48,969.25         | 15.50                | 2.00                    | 17.50                            | 0.059%              | 0.01                  |
| 6/1/2022           | 6/30/2022        | 7/5/2022     | 218,913.06        | 15.00                | 5.00                    | 20.00                            | 0.263%              | 0.05                  |
| 7/1/2022           | 7/31/2022        | 8/3/2022     | 46,912.42         | 15.50                | 3.00                    | 18.50                            | 0.263%              | 0.03                  |
|                    |                  |              |                   |                      |                         |                                  |                     |                       |
| 8/1/2022           | 8/31/2022        | 9/6/2022     | 37,969.02         | 15.50                | 6.00                    | 21.50                            | 0.046%              | 0.01                  |
| 9/1/2022           | 9/30/2022        | 10/5/2022    | 42,538.35         | 15.00                | 5.00                    | 20.00                            | 0.051%              | 0.01                  |
| 10/1/2021          | 10/31/2021       | 11/2/2021    | 1,950,399.05      | 15.50                | 2.00                    | 17.50                            | 2.343%              | 0.41                  |
| 11/1/2021          | 11/30/2021       | 12/2/2021    | 2,018,435.55      | 15.00                | 2.00                    | 17.00                            | 2.425%              | 0.41                  |
| 12/1/2021          | 12/31/2021       | 1/4/2022     | 2,367,026.89      | 15.50                | 4.00                    | 19.50                            | 2.843%              | 0.55                  |
| 1/1/2022           | 1/31/2022        | 2/2/2022     | 1,959,890.58      | 15.50                | 2.00                    | 17.50                            | 2.354%              | 0.41                  |
| 2/1/2022           | 2/28/2022        | 3/2/2022     | 1,639,225.13      | 14.00                | 2.00                    | 16.00                            | 1.969%              | 0.32                  |
| 3/1/2022           | 3/31/2022        | 4/4/2022     | 1,722,291.00      | 15.50                | 4.00                    | 19.50                            | 2.069%              | 0.40                  |
| 4/1/2022           | 4/30/2022        | 5/3/2022     | 1,795,137.54      | 15.00                | 3.00                    | 18.00                            | 2.156%              | 0.39                  |
| 5/1/2022           | 5/31/2022        | 6/2/2022     | 1,603,648.54      | 15.50                | 2.00                    | 17.50                            | 1.926%              | 0.34                  |
| 6/1/2022           | 6/30/2022        | 7/5/2022     | 2,230,558.68      | 15.00                | 5.00                    | 20.00                            | 2.679%              | 0.54                  |
| 7/1/2022           | 7/31/2022        | 8/2/2022     | 2,074,289.60      | 15.50                | 2.00                    | 17.50                            | 2.492%              | 0.44                  |
| 8/1/2022           | 8/31/2022        | 9/2/2022     | 2,557,604.87      | 15.50                | 2.00                    | 17.50                            | 3.072%              | 0.54                  |
| 9/1/2022           | 9/30/2022        | 10/4/2022    | 2,983,061.20      | 15.00                | 4.00                    | 19.00                            | 3.583%              | 0.68                  |
| 10/1/2021          | 10/31/2021       | 11/2/2021    | 1,936,217.96      | 15.50                | 2.00                    | 17.50                            | 2.326%              | 0.41                  |
| 11/1/2021          | 11/30/2021       | 12/2/2021    | 2,860,772.26      | 15.00                | 2.00                    | 17.00                            | 3.436%              | 0.58                  |
| 12/1/2021          | 12/31/2021       | 1/4/2022     | 2,765,436.25      | 15.50                | 4.00                    | 19.50                            | 3.322%              | 0.65                  |
| 1/1/2022           | 1/31/2022        | 2/2/2022     | 2,772,243.60      | 15.50                | 2.00                    | 17.50                            | 3.330%              | 0.58                  |
| 2/1/2022           | 2/28/2022        | 3/2/2022     | 2,171,965.95      | 14.00                | 2.00                    | 16.00                            | 2.609%              | 0.42                  |
| 3/1/2022           | 3/31/2022        | 4/4/2022     | 2,696,627.80      | 15.50                | 4.00                    | 19.50                            | 3.239%              | 0.63                  |
| 4/1/2022           | 4/30/2022        | 5/3/2022     | 2,549,455.45      | 15.00                | 3.00                    | 18.00                            | 3.062%              | 0.55                  |
| 5/1/2022           | 5/31/2022        | 6/2/2022     | 2,420,026.10      | 15.50                | 2.00                    | 17.50                            | 2.907%              | 0.51                  |
| 6/1/2022           | 6/30/2022        | 7/5/2022     | 3,065,636.63      | 15.00                | 5.00                    | 20.00                            | 3.683%              | 0.74                  |
| 7/1/2022           | 7/31/2022        | 8/2/2022     | 2,248,075.82      | 15.50                | 2.00                    | 17.50                            | 2.700%              | 0.47                  |
| 8/1/2022           | 8/31/2022        | 9/2/2022     | 3,014,028.77      | 15.50                | 2.00                    | 17.50                            | 3.621%              | 0.63                  |
| 9/1/2022           | 9/30/2022        | 10/4/2022    | 1,333,905.76      | 15.00                | 4.00                    | 19.00                            | 1.602%              | 0.30                  |
| 10/1/2021          | 10/31/2021       | 11/2/2021    | 1,697,004.43      | 15.50                | 2.00                    | 17.50                            | 2.039%              | 0.36                  |
| 11/1/2021          |                  |              |                   |                      |                         |                                  |                     |                       |
|                    | 11/30/2021       | 12/2/2021    | 1,833,230.99      | 15.00                | 2.00                    | 17.00                            | 2.202%              | 0.37                  |
| 12/1/2021          | 12/31/2021       | 1/4/2022     | 1,691,579.14      | 15.50                | 4.00                    | 19.50                            | 2.032%              | 0.40                  |
| 1/1/2022           | 1/31/2022        | 2/2/2022     | 2,038,698.48      | 15.50                | 2.00                    | 17.50                            | 2.449%              | 0.43                  |
| 2/1/2022           | 2/28/2022        | 3/2/2022     | 1,830,164.16      | 14.00                | 2.00                    | 16.00                            | 2.198%              | 0.35                  |
| 3/1/2022           | 3/31/2022        | 4/4/2022     | 1,925,396.00      | 15.50                | 4.00                    | 19.50                            | 2.313%              | 0.45                  |
| 4/1/2022           | 4/30/2022        | 5/3/2022     | 1,531,016.73      | 15.00                | 3.00                    | 18.00                            | 1.839%              | 0.33                  |
| 5/1/2022           | 5/31/2022        | 6/2/2022     | 1,610,954.01      | 15.50                | 2.00                    | 17.50                            | 1.935%              | 0.34                  |
| 6/1/2022           | 6/30/2022        | 7/5/2022     | 1,754,565.46      | 15.00                | 5.00                    | 20.00                            | 2.108%              | 0.42                  |
| 7/1/2022           | 7/31/2022        | 8/2/2022     | 1,175,772.27      | 15.50                | 2.00                    | 17.50                            | 1.412%              | 0.25                  |
| 8/1/2022           | 8/31/2022        | 9/2/2022     | 1,672,938.68      | 15.50                | 2.00                    | 17.50                            | 2.010%              | 0.35                  |
| 9/1/2022           | 9/30/2022        | 10/4/2022    | 1,872,858.54      | 15.00                | 4.00                    | 19.00                            | 2.250%              | 0.43                  |
|                    |                  | -            |                   |                      |                         |                                  | _                   |                       |
|                    |                  | -            | \$83,247,597.98   |                      |                         |                                  | -                   | 18.21                 |