

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

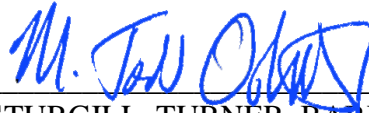
In the Matter of:

ELECTONIC APPLICATION OF KENTUCKY UTILITIES)
COMPANY FOR AN ADJUSTMENT ELECTRIC) CASE NO. 2016-00370
OF ITS RATES AND FOR CERTIFICATES OF)
PUBLIC CONVIENCE AND NECESSITY)

**DIRECT TESTIMONY OF DOUGLAS B. JESTER
FILED ON BEHALF OF
LEXINGTON-FAYETTE URBAN COUNTY GOVERNMENT**

Lexington-Fayette Urban County Government ("LFUCG"), by counsel, hereby files the attached Direct Testimony of Douglas B. Jester.

Respectfully submitted,



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CERTIFICATE OF SERVICE

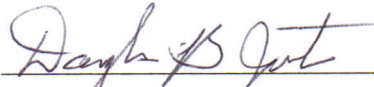
In accordance with 807 KAR 5:001, Section 8, I certify that the March 3, 2017, electronic filing of this Direct Testimony is a true and accurate copy of the same document being filed in paper medium; that the electronic filing will be transmitted to the Commission on March 3, 2017; that there are currently no parties that the Commission has excused from participation by electronic means in this proceeding; and that an original paper medium of the Direct Testimony will be delivered to the Commission within two business days.

A handwritten signature in blue ink, appearing to read "M. Jay O'Connell", is written over a horizontal line.

Counsel for LFUCG

AFFIDAVIT

The undersigned, Douglas B. Jester, being duly sworn, deposes and says that he is a principal of 5 Lakes Energy LLC, and is authorized to submit this testimony on behalf of Lexington-Fayette Urban County Government in Case No. 2016-00370, and that the information contained in the testimony is true and accurate to the best of his knowledge, information and belief, after reasonable inquiry, and as to those matters that are based on information provided to him, he believes to be true and correct.



Douglas B. Jester, Affiant

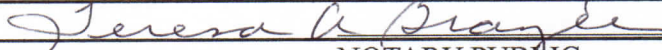
NOTARY CERTIFICATE

STATE OF MICHIGAN

COUNTY OF Ingham

Subscribed, acknowledged and sworn to before me by Douglas B. Jester on this 1st
day of March, 2017.

My commission expires: February 26, 2021



NOTARY PUBLIC

TERESA A. BRAZEE
Notary Public, State of Michigan
County of Ingham
My Commission Expires Feb. 26, 2021
Acting in the County of Ingham

- 1 • Case U-17317 (Consumers Energy 2014 PSCR Plan);
- 2 • Case U-17319 (DTE Electric 2014 PSCR Plan);
- 3 • Case U-17674 (WEPCO 2015 PSCR Plan);
- 4 • Case U-17679 (Indiana-Michigan 2015 PSCR Plan);
- 5 • Case U-17689 (DTE Electric Cost of Service and Rate Design);
- 6 • Case U-17688 (Consumers Energy Cost of Service and Rate Design);
- 7 • Case U-17698 (Indiana-Michigan Cost of Service and Rate Design);
- 8 • Case U-17762 (DTE Electric Energy Optimization Plan);
- 9 • Case U-17752 (Consumers Energy Community Solar);
- 10 • Case U-17735 (Consumers Energy General Rates);
- 11 • Case U-17767 (DTE General Rates);
- 12 • Case U-17792 (Consumers Energy Renewable Energy Plan Revision);
- 13 • Case U-17895 (UPPCO General Rates);
- 14 • Case U-17911 (UPPCO 2016 PSCR Plan);
- 15 • Case U-17990 (Consumers Energy General Rates);
- 16 • Case U-18014 (DTE General Rates);
- 17 • Case U-18089 (Alpena Power PURPA Compliance);
- 18 • Case U-18090 (Consumers Energy PURPA Compliance);
- 19 • Case U-18091 (DTE Electric PURPA Compliance);
- 20 • Case U-18092 (Indiana Michigan Power Company PURPA Compliance);
- 21 • Case U-18093 (Northern States Power Company PURPA Compliance); and

1 • Case U-18094 (Upper Peninsula Power Company PURPA Compliance);

2 I have also participated as an expert in several work groups established by the Michigan
3 Public Service Commission:

4 • Electric Vehicle Charging Collaborative (2010);

5 • Smart Grid Collaborative (2011-12);

6 • Energy Efficiency Collaborative (2011 - present);

7 • Value of Solar Work Group (2013);

8 • Clean Power Plan Technical Advisory Committee (2015-16);

9 • PURPA Technical Advisory Committee (2016);

10 • Street Lighting Working Group (2016); and

11 • Standby Rates Working Group (2016-17).

12 I have testified before the Public Utility Commission of Nevada in

13 • Case 16-07001 (NV Energy 2017-2036 Integrated Resource Plan).

14 I have also testified before the Missouri Public Service Commission in

15 • Case ER-2016-0179 (Ameren Missouri General Rates);

16 • Case ER-2016-0285 (Kansas City Power & Light General Rates);

17 • Case ET-2016-0246 (Ameren Missouri Electric Vehicle Charging Infrastructure);

18 In the past, I have testified as an expert witness on behalf of the State of Michigan before
19 the Federal Energy Regulatory Commission in cases relating to the relicensing of hydro-
20 electric generation. I also have been listed as a witness on behalf of the State of
21 Michigan, prepared case files and submissions, and been deposed in cases before the

1 United States District Court for the Western District of Michigan and the Ingham County
2 Circuit Court of the State of Michigan, concerning electricity generation matters in which
3 the cases were settled before trial.

4 **Q. Do you have specific qualifications in relation to street lighting?**

5 A. In 1994, I served as a member of the City of East Lansing, Michigan's Street Lighting
6 Advisory Committee. I was elected Mayor of the City of East Lansing in 1995 and in that
7 role oversaw an upgrade of the City's street lighting.

8 As a participant in the Michigan Public Service Commission Energy Efficiency
9 Collaborative, I participated in advisory decisions about the treatment of street lighting in
10 utility energy efficiency programs.

11 In Michigan Public Service Commission Case U-17767, I testified concerning
12 street lighting business practices and rates on behalf of the Municipal Street Lighting
13 Coalition, a group of municipal governments formed for the purpose of intervening in
14 that case. As a result of that case and upon my recommendations, the Commission
15 rejected DTE Electric's proposed street lighting tariff changes and established a Street
16 Lighting Working Group in which I participated on behalf of the Municipal Street
17 Lighting Coalition. The recommendations of that working group were then submitted as
18 Commission Staff testimony in Case U-18014 and adopted by the Commission. The
19 Municipal Street Lighting Coalition is currently organizing as a permanent organization
20 to be called the Michigan Municipal Association for Utility Issues, to which I am
21 technical advisor.

1 **Q. In addition to the previously mentioned exhibit, what exhibits will you reference in**
2 **your testimony?**

3 A. DJ-1 Resume of Douglas B Jester

4 DJ-2 KU Responses to LFUCG's First Discovery Request Questions 83-85

5 DJ-3 KU Response to LFUCG's Second Discovery Request Question 1

6 DJ-4 KU Response to LFUCG's First Discovery Request Question 50

7 DJ-5 KU Responses to LFUCG's First Discovery Request Question 31

8 DJ-6 KU Responses to LFUCG's Second Discovery Request Question 19

9 DJ-7 KU Responses to LFUCG's Second Discovery Request Question 55

10 DJ-8 LED Light Product Literature

11 **Q. Please summarize Kentucky Utilities' proposals in this case with respect to lighting**
12 **services.**

13 A. Kentucky Utilities currently has two groups of rates involving street lighting. These are
14 identified as (1) Lighting Service and Restricted Lighting Service and (2) Lighting
15 Energy Service. Lighting Service and Restricted Lighting Service covers circumstances
16 in which Kentucky Utilities provides the lighting fixture and maintenance thereof as well
17 as delivering electricity to the fixture. Within the Lighting Service and Restricted
18 Lighting Service class, Lighting Service is used for rate codes under which new lights
19 can be installed while Restricted Lighting Service is used for rate codes covering lighting
20 technologies that are in use and supported by Kentucky Utilities but are not available for
21 new installations. Lighting Energy Service covers circumstances in which Kentucky
22 Utilities provides electricity to a fixture that is owned and maintained by the customer.

1 In this case, Kentucky Utilities proposes to add eight light options using LED
2 luminaires to its Lighting Service rate list, reflecting that LED street lights have become a
3 standard technology for streetlighting. Kentucky Utilities also proposes to move certain
4 metal-halide street light options from the Lighting Service to the Restricted Lighting
5 Service rate list because new and replacement parts are no longer available for those
6 lights.¹

7 In addition to these structural changes in its lighting tariffs, Kentucky Utilities
8 proposes to increase revenue from the Lighting Service and Restricted Lighting Service
9 class and to modify the allocation of costs within the class to the various lighting options
10 that the Company offers its customers. In this case, the Company is requesting an overall
11 projected revenue increase of 6.4% or approximately \$103.1 million annual revenue.² To
12 recover a portion of this revenue, the Company proposes to increase revenue from the
13 Lighting Service and Restricted Lighting Service class by 6.14% but proposes to leave
14 rates and revenue for the Lighting Energy Service unchanged.³

15 Kentucky Utilities further proposes to allocate the required revenue from the
16 Lighting Service and Restricted Lighting Service class to the various existing lighting
17 products provided by the Company based on the present-day cost of each type of lighting
18 fixture.⁴ Kentucky Utilities proposes to set initial rates for LED street lights based on a
19 calculation of the projected cost of those lights.⁵

20 **Q. Please summarize your recommendations with respect to Kentucky Utilities’**

¹ Direct testimony of Robert M. Conroy, page 21 line 5 through page 22 line 2.

² Direct testimony of Robert M. Conroy, page 4, line 7.

³ Direct testimony of William Steven Seelye, Table 1 on page 7.

⁴ Direct testimony of William Steven Seelye, page 55 line 7 through page 56 line 2.

⁵ Direct testimony of William Steven Seelye, page 56 line 8 through page 57 line 5.

1 **proposed changes in its lighting service tariffs.**

2 A. As I more thoroughly discuss below, I recommend that the Commission reduce the
3 revenue requirements assigned to the Lighting Service and Restricted Lighting Service.
4 Specifically, the Commission should appropriately reassign credit for the pole-attachment
5 charges, which will affect the lighting classifications. More significantly, I recommend
6 that the Commission set a revenue requirement for the Lighting Service and Restricted
7 Lighting Service consistent with the way in which revenue requirements are set for all
8 classes.

9 I further recommend that tariffs for non-LED individual light types within the
10 Lighting Service and Restricted Lighting Service be increased uniformly in this case.

11 Finally, I recommend that the Commission reduce Kentucky Utilities' proposed
12 LED rates, direct the Company to account for costs associated with LED and non-LED
13 lights separately, and direct the Company to work collaboratively with its Lighting
14 Service and Restricted Lighting Service customers.

15
16 **LIGHTING SERVICE REVENUE REQUIREMENT**

17 **Q. What is your evaluation of the Company's proposed revenue requirement for**
18 **Lighting Service and Restricted Lighting Service?**

19 A. My primary focus in this case has been related to lighting, and therefore, I have not
20 performed an exhaustive examination Kentucky Utilities overall revenue request. Nor
21 have I comprehensively evaluated the Company's cost-of-service studies. However, I do
22 want to raise one concern about the cost-of-service studies and offer two concerns about

1 the Company's proposed revenue requirement for the Lighting Service and Restricted
2 Lighting Service class.

3 **Q. What is your concern about the cost of service studies?**

4 A. My opinion is that the Company's treatment of pole costs and pole attachment revenues
5 in this case is inconsistent and therefore unjust and unreasonable.

6 **Q. Please explain how the Company's treatment of pole costs and pole attachment
7 revenues is inconsistent.**

8 A. The cost-of-service studies presented by KU witness William Seelye in Exhibit WSS-16
9 and WSS-17 each contain a column for Distribution Poles but all values in those columns
10 are zero, reflecting that the costs of distribution poles are included in other distribution
11 costs in the cost-of-service studies. Similarly, Exhibits WSS-18 and WSS-19 which
12 allocated the costs of service to the various rate classes, each contain a row that should
13 contain the distribution pole costs allocated to each rate class but all values are zero,
14 again reflecting that the costs of distribution poles are included in other distribution costs
15 for purposes of allocation to the various rate classes.

16 Witness Seelye also supports Exhibit WSS-7, providing Cost Support for
17 Attachment Charges for Wireline Pole Attachments, Exhibit WSS-8, providing Cost
18 Support for Attachment Charges for Underground Conduit, and Exhibit WSS-9,
19 providing Forecasted Miscellaneous Revenue at Proposed Attachment Charges. WSS-9
20 shows total annual forecasted KU miscellaneous revenue from attachment charges of
21 \$1,164,588.44.

22 Pole Attachments are not shown as a rate class in the cost-of-service allocations in
23 Exhibits WSS-18 and WSS-19, so presumably the costs of distribution poles embedded

1 in other distribution costs are fully allocated to other rate classes that are shown in
2 Exhibits WSS-18 and WSS-19.

3 Kentucky Utilities' response to Questions 83, 84, and 85 of Lexington-Fayette
4 Urban County Government's First Request for Information is attached as Exhibit DJ-2. In
5 response to Question 83, Kentucky Utilities acknowledged that "Yes, street lights may be
6 installed on electric distribution poles and transmission poles and there may be third party
7 attachment or joint use partner attachments on the poles. No, not all such street lights are
8 billed under a fixture only code." It is therefore possible that a street lighting customer is
9 paying for a pole under a pole-and-fixture rate code, while Kentucky Utilities is receiving
10 revenue from a third party for use of that same pole.

11 In response to Question 85, Kentucky Utilities indicated that its 2016 Kentucky
12 jurisdictional revenue for pole attachments was \$1,107,376 and that "Revenues received
13 from pole attachments serve as a credit towards the cost of providing service to
14 customers. See the response to Question No. 84."

15 In Question 84, Lexington-Fayette Urban County Government asked "Please
16 explain whether the revenues received from pole attachments offset expenses. Are the
17 revenues received from pole attachments applied to the poles themselves or are they
18 applied to the revenue requirement generally for KU?" Kentucky Utilities replied "The
19 revenues received from pole attachments are not applied to the poles themselves; rather,
20 they are recorded as miscellaneous service revenues which are allocated as a revenue
21 credit to all customer classes in the Company's cost of service study. Pole attachment
22 revenues therefore offset the cost of providing service to customers receiving standard
23 electric service."

1 The net effect of this treatment of pole costs and pole attachment revenues is that
2 pole costs are assigned to customer classes based on an allocation of distribution system
3 costs but pole attachment revenues are credited to all customers in proportion to what
4 would otherwise be their assigned revenue responsibility. Further, in specific instances a
5 street lighting customer may be paying for the cost of a pole through a pole and fixture
6 rate when Kentucky Utilities is also receiving attachment revenue on that pole that is then
7 being credited to all customers.

8 **Q. How do recommend the Commission correct this inconsistent treatment of pole**
9 **costs and pole attachment revenues?**

10 A. I recommend that the Commission order the following:

11 1) require the Company to modify the methodology for calculating the Lighting
12 Service rates to establish that pole attachment revenues for a pole that is subject to a pole-
13 and-fixture street light rate are to be credited to the street light customer, and undertake to
14 correct its street light billing and pole attachment records to conform to this provision;

15 2) reassign pole attachment revenue in this case such that it proportionally offsets
16 the allocation of distribution costs to customer classes rather than being applied as
17 miscellaneous revenue offsetting total revenue requirements of all customer classes; and

18 3) order that, in future rate cases, Kentucky Utilities must explicitly show the
19 costs of distribution poles in its cost-of-service studies and either (a) show a pole-
20 attachment customer class to which the cost of poles is allocated so that those costs are
21 not allocated to other customer classes, or (b) show pole attachment revenue not credited
22 to a specific street light customer as a credit against the costs of distribution poles before
23 the costs of distribution poles are allocated to other customer classes.

1 **Q Are there other measures that Kentucky Utilities could take to address your**
2 **concerns related to the revenues it receives from pole attachments?**

3 As an alternative to recommendation (1) above, the Commission could order the
4 Company to convert to fixture-only tariffs all street lights on poles for which the
5 Company receives pole attachment revenues.

6 **Q. What concerns do you have about the Company's proposed revenue requirement**
7 **for Lighting Service and Restricted Lighting Service?**

8 A. Kentucky Utilities has not properly applied its own methods in determining revenue
9 requirements for various customer classes. With respect to the Lighting Service and
10 Restricted Lighting Service class, the Company has requested a disproportionate increase
11 in revenue requirement as compared to other classes for which the Company is receiving
12 lower rates of return.

13 **Q. How has the Company erred in applying its method for determining class revenue**
14 **requirement to the Lighting Service and Restricted Lighting Service class?**

15 A. In developing its proposed revenue increase from each customer class, Kentucky Utilities
16 limited the change in revenue for any one class to not more than approximately 1%
17 higher than the overall increase in revenue that Kentucky Utilities is proposing in this
18 case. In this case, the Company is requesting revenue increase of approximately 6.45%
19 but it limited the revenue increase for the class with the largest increase to 7.25%.⁶ The
20 Company also represents that it scaled the percentage change in revenue requirement for
21 each class inversely proportional to the class rate of return.⁷

⁶ Direct testimony of William Steven Seelye, page 8 lines 4 through 12.

⁷ Direct testimony of William Steven Seelye, page 8 lines 3 through 4.

1 However, inspection of Tables 1⁸ and 2⁹ in Witness Seelye’s testimony, which
2 contain the same information sorted in different order, shows that the percentage revenue
3 increase requested for the Lighting Service and Restricted Lighting Service class is
4 6.14%, which is higher than the Residential Service, Time-of-Day Secondary Service,
5 and All Electric Schools classes even though each of these is shown as having a lower
6 rate of return on rate base than the Lighting Service and Restricted Lighting Service class
7 according to either the BIP or the LOLP cost-of-service study method. The Company
8 provides no explanation for this inconsistency between its stated principle and its
9 proposal in its direct testimony. Had it been consistent in the application of its proposal, it
10 would appear from Tables 1 and 2 of Witness Seelye’s testimony that the revenue
11 requirement increase proposed by the Company for the Lighting Service and Restricted
12 Lighting Service class should be approximately 5.1% rather than 6.14%.

13 Exhibit DJ-3 is the Company’s response to Question 1 of Lexington-Fayette
14 Urban County Government’s second request. This question asked the Company directly
15 why in the case of the Lighting Service and Restricted Lighting Service class it deviated
16 from its stated approach to allocate greater revenue increases to classes with lower rates
17 of return. The Company’s response is as follows:

18 “Yes, the proposed increase for Lighting Service and Restricted Lighting Service
19 is higher than Residential Service, All Electric Schools, and TOD Secondary. The
20 Company is proposing a higher increase for Lighting Service and Restricted
21 Lighting Service because of the higher risk of property damage for lighting
22 equipment under these rates and because of the higher administrative burden of
23 carrying inventory for lighting equipment. Street and outdoor lights have a higher
24 incident of vandalism and damage than other utility property. Furthermore, the
25 Company must carry inventory for each light type even when customer interest in

⁸ Direct testimony of William Steven Seelye, page 7.

⁹ Direct testimony of William Steven Seelye, page 8.

1 lighting equipment is in decline. Consequently, the Company has a significant
2 inventory risk in providing service under these rates.”

3 Such ad hoc adjustments to the revenue requirements assigned to the Lighting
4 Service and Restricted Lighting Service class are inappropriate. In the preceding answer,
5 the Company gives three reasons for assigning a higher revenue requirement to the
6 lighting service class, each of which is and should more properly be addressed in the
7 cost-of-service study. First, the Company claims a higher risk of property damage for
8 lighting equipment, which should be properly reflected in the depreciation rate for these
9 assets as determined in a depreciation study. Second, the Company claims a higher
10 administrative burden of carrying inventory for lighting equipment, which would be more
11 properly addressed in the burden rate it applies to such equipment in its cost of service
12 study. Third, the Company claims that it has an inventory risk because it “must carry
13 inventory for each light type even when customer interest in lighting equipment is in
14 decline”; however, as the number of lights provided by the Company to its customers is
15 not declining, this must be a risk associated with technology change and should be
16 addressed either when the Company disposes of and writes-off excess inventory or
17 through an evidence-based forecast of such costs that are then assigned to the particular
18 light types for which that inventory risk occurs.

19 **Q. What adjustments would you recommend to the Commission with respect to**
20 **authorized rates of return?**

21 A. The Commission should reduce any proposed revenue increase for the Lighting Service
22 and Restricted Lighting Service class so that this class falls within the organization
23 proposed by Kentucky Utilities whereby rates for classes are changed based on an
24 inversely proportional ratio to the class’s rate of return. For example, the authorized

1 percentage increase for revenue requirements of the Lighting Service and Restricted
2 Lighting Service class should not be higher than classes that have rates of return on rate
3 bases that are higher, such as All Electric Schools or Time-of-Day Secondary Service.
4

5 **LIGHTING SERVICE COST ALLOCATION**

6 **Q. In this case, has Kentucky Utilities appropriately allocated Lighting Service and**
7 **Restricted Lighting Service revenue to each of the lighting rate codes?**

8 A. No. Kentucky Utilities proposes in this case to significantly change the relative allocation
9 of street lighting revenues to the various types of street lights represented by various rate
10 codes.¹⁰ This proposal reflects certain logical errors, is not sufficiently supported by the
11 Company's evidence, and does not incorporate sufficient consideration of gradualism in
12 changing the individual street lighting rates.

13 **Q. Please explain how Kentucky Utilities proposes to allocate required revenue for the**
14 **Lighting Service and Restricted Lighting Service class to various lighting types?**

15 A. Results of the Company's allocation of lighting service revenue to the various lighting
16 types are summarized in Exhibit WSS-4, supported by Witness Seelye. As shown in
17 Exhibit WSS-4, the unit rate for each lighting type was calculated by summing a fixed
18 charge, distribution energy cost, and operations & maintenance cost for each lighting
19 type. The fixed charge was calculated by multiplying an estimated investment per unit for
20 each lighting type by a carry charge of 16.27%.

21 The Company provided additional details of these calculations in spreadsheet
22 Att_KU_PSC_1-54_KULights.xlsx in response to Question 54 of Staff's first discovery

¹⁰ Direct testimony of William Steven Seelye, page 55 line 8 through page 56 line 7 and Exhibit WSS-4.

1 request. Values shown in tab “KU RATE SUMMARY” of this spreadsheet correspond to
2 the rates presented in Exhibit WSS-4. Formulae in the “KU RATE SUMMARY” tab
3 corresponding to my description of the calculations in Exhibit WSS-4. Exhibit DJ-4 is
4 Kentucky Utilities response to Question 50 in Lexington-Fayette Urban County
5 Government’s first discovery request, which asked for various details related to the
6 contents of the spreadsheet Att_KU_PSC_1-54_KULights.xlsx.

7 In part (l) of Question 50 in Exhibit DJ-4, Lexington-Fayette Urban County
8 Government asked “Please state whether the estimated investment per unit represents
9 average depreciated value of units in service or the cost of a new unit.” As shown in
10 Exhibit DJ-4, the Company responded as follows:

11 “In the Company’s class cost of service studies, the revenue requirements for the
12 lighting rates (Rates LS and RLS) were determined based on fully depreciated
13 costs. Therefore, the revenue increase allocated to lighting rates reflected revenue
14 requirements based on fully depreciated costs. Exhibit WSS-4 was not used to
15 determine the revenue requirement for the class but rather to allocate the revenue
16 requirement for Rates LS and RLS to the individual lights. WSS- 4 is calculated
17 based on the current cost of a new light (i.e., based on marginal costs) and thus
18 does not include accumulated depreciation in the determination of the carrying
19 costs used to allocate the class revenue requirements to individual lighting rates.
20 The reason this procedure was used is that accounting records are not maintained
21 for each individual type of light; therefore, a revenue requirement reflective of
22 fully-depreciated book costs cannot be determined for each lighting type. Thus, to
23 establish charges that reflect the relative costs between the individual lighting
24 types, the total revenue requirement for the lighting class (based on depreciated
25 costs) was allocated to the individual lighting types based on marginal costs.”
26

27 I reviewed the spreadsheet Att_KU_PSC_1-54_KULights.xlsx in detail, tracing
28 the calculation of the estimated investment per unit for each lighting rate code in WSS-4
29 until the spreadsheet entries represented input data. I did not find any calculation that
30 scaled the revenue requirements per light type to total revenue requirements for the rate
31 base attributable to the lighting service class. Rather, the final tariff amounts (which were

1 in hidden columns of the LED RATES tab) are scaled to the Lighting Service class from
2 the total Monthly Unit Cost calculated in the spreadsheet Att_KU_PSC_1-
3 54_KULights.xlsx and also displayed in WSS-4. Since the distribution energy charges for
4 each light type are based on the Company's proposed energy rate and the actual energy
5 consumption of that light type and the operations and maintenance costs are based on the
6 current costs of the replacement items, the cost allocation is skewed toward light types
7 with relatively high initial cost and away from lights with higher energy and maintenance
8 costs.

9 The 16.27% carry charge by which the estimated investment per unit of each
10 lighting code was multiplied to determine the fixed charges used in WSS-4 was
11 calculated by Kentucky Utilities as shown in their response to part (i) of Question 50 as
12 shown in Exhibit DJ-4. That calculation is based on the weighted average cost of capital
13 proposed by the Company in this case. Since there is no scaling of allocated costs by
14 lighting type to the required revenue for the lighting class, any decision by the
15 Commission to authorize a different weighted cost of capital will require a recalculation
16 of the fixed charges in WSS-4, which would then change the relative cost allocation to
17 various light types.

18 **Q. In what way does the Company's evidence fail to support its proposed cost**
19 **allocation to various lighting types?**

20 A. Principally, Kentucky Utilities' evidence fails to support its proposed cost allocation to
21 various lighting types because the Company lacks records by lighting type on which to
22 base appropriate cost allocations. Exhibit DJ-5 is the Company's response to Question 31
23 of Lexington-Fayette Urban County Government's first request for information, showing

1 that the Company does not maintain separate accounting records for each type of light.¹¹
2 It is therefore unable to allocate net book value based on actual accumulated investment
3 and depreciation of each light type. It is also unable to allocate maintenance expenses
4 based on actual maintenance frequency.

5 As discussed above, rather than scaling the revenue requirements per light type
6 to total revenue requirements for the rate base attributable to the lighting service class,
7 Kentucky Utilities attempts to base its various increases to individual light types based on
8 current costs of replacement items, as opposed to the depreciated value of the assets that
9 are actually being used in the system. This approach is inappropriate and not a reliable
10 way to calculate a change in revenue requirement.

11 **Q. What is the appropriate way to change revenue requirements for individual light**
12 **types within Kentucky Utilities' Lighting Service and Restricted Lighting class**
13 **based on the information that has been provided in this case?**

14 A. Based on the information in the record of this case, the most appropriate way to alter the
15 revenue requirements for individual light types within Kentucky Utilities' Lighting
16 Service and Restricted Lighting class is to apply equal percentage changes to all
17 individual light offerings. A uniform, across-the-board adjustment to rates within the
18 lighting class is appropriate because Kentucky Utilities does not maintain adequate
19 records on which to base unique increases within the class.

¹¹ Several other responses by Kentucky Utilities further confirm that it does not maintain records to identify costs by lighting types. See, e.g., Kentucky Utilities Response to LFUCG's First Request for Information Items 35(b), 37, 38, and 69 and Second Request for Information Item 56.

1 **Q. Is a uniform change to the individual light offerings consistent with other principles**
2 **supported by Kentucky Utilities?**

3 A. Yes, an across-the-board change would reflect Kentucky Utilities' desired goal of
4 gradualism that it advocated in other contexts. In applying a principle of gradualism in
5 assigning revenue responsibility to its rate classes, Kentucky Utilities chose "to limit the
6 maximum increase to any class to approximately one percentage point above the overall
7 increase"¹². In practice, it has limited the increase in any class to about 0.8% above its
8 proposed average rate increase. However, in proposing rates for individual street light
9 types, it has proposed increases of up to 20%.¹³ As a result, some municipalities that
10 happen to have a concentration of lights for which rates are proposed to increase by 20%
11 will suffer substantial rate shock. For example, Lexington-Fayette Urban County
12 Government anticipates that its rate payments for lighting will increase by approximately
13 17% from \$5,724,950 to \$6,691,043 if Kentucky Utilities' proposal is approved. The
14 Company has not justified why it holds such a different view of gradualism in the case of
15 lighting service rates as it does for all other classes.

16 **Q. How do you recommend that the Commission deal with these problems in the**
17 **Company's proposed rates for each type of lighting service?**

18 A. I recommend that in this case the Commission:

19 1) Order that any change in the revenue requirement for the Lighting Service and
20 Restricted Lighting Service class be allocated uniformly to all current lighting types; and

¹² Direct testimony of William Steven Seelye, page 8, lines 4 through 7.

¹³ Direct testimony of William Steven Seelye, page 55, line 18.

1 **Q. Is the Company's LED tariff proposal appropriate?**

2 A. No. The Company made several errors in constructing its LED rate proposals.

3 The spreadsheet Att_KU_PSC_1-54_KULights.xlsx contains a tab labeled "LED
4 RATES" that displays the computation of these rates, which are identical to the rates
5 proposed in the Company's proposed tariff sheets. These rates are also displayed in
6 Exhibit WSS-4. These monthly LED rates were computed in the same way as the
7 Monthly Unit Costs were computed for the existing light types. However, the results of
8 these calculations were used directly and not scaled to required revenue in the way that
9 the Monthly Unit Cost for existing light types were scaled by the Company in developing
10 its tariff proposals. As a result, the proposed tariff incorporates the carrying charge for
11 each LED light during its first year of use, rather than the average carrying charge over
12 the life of the light. This calculation could be viewed as the appropriate determination of
13 cost for the utility in the first year of use, but will overcharge the customer in all later
14 years of use of the light when the light will have been partially depreciated. When a
15 product has been in use for many years, as with most of the traditional lighting
16 technologies, average net book value of the product in use in one year will be
17 approximately equal to the average net book value of a single instance of the product
18 over its lifecycle. Thus, multiplying net book value of the product class in a single year
19 by the carrying charge rate provides a close approximation to the levelized cost of a
20 single instance of the product over its lifecycle. I therefore recommend that the recovery
21 of LED capital costs in the tariff be done on a levelized basis.

22 A levelized cost using the utility's weighted average cost of capital has exactly
23 the same net present value as a charge that declines as the asset depreciates. The ratio of

1 levelized cost to the first-year carrying charge based on the initial value of the asset
2 depends on the weighted average cost of capital authorized by the Commission, so it
3 cannot be calculated exactly until the Commission determines the weighted average cost
4 of capital that it will authorize Kentucky Utilities. I note that using the weighted average
5 cost of capital proposed by the Company in this case would result in a levelized fixed
6 charge equal to approximately 74.9% of the fixed charges proposed by the Company for
7 LED lights. This calculation also is a reasonable approximation to the effect on the
8 Company's rate calculation for existing light types of using the first-year carrying charge
9 for each light type and scaling that to the class revenue requirement.

10 Kentucky Utilities also included operation and maintenance costs for LED
11 fixtures in its calculations of the proposed tariff for each of the LED lights. In the
12 spreadsheet Att_KU_PSC_1-54_KULights.xlsx, these appear as simple numerical values
13 with no indication how they were derived, but arithmetically the operation and
14 maintenance cost for each LED fixture is equal to the estimated initial cost of the fixture
15 multiplied by 0.03140439. In response to part (o) of Question 50 in Exhibit DJ-4,
16 Kentucky Utilities explained that these "[o]peration and maintenance expenses include
17 the cost of replacing the LED fixture and photocells, including associated labor
18 expenses." Exhibit DJ-6 is Kentucky Utilities response to a follow-up question regarding
19 whether the cost of replacing the LED fixture and photocells, including associated labor
20 expenses are expensed or capitalized, in which the Company replies that "Should an LED
21 lamp fail and only the lamp is replaced, the labor and the materials are considered
22 operation and maintenance expenses. When the photocell and starter/controller for that
23 light are replaced along with the fixture, then all labor and all materials are capitalized."

1 This reflects a misunderstanding, since LED fixtures do not have replaceable lamps and
2 the entire fixture is always replaced in its entirety. Further, these fixtures have an
3 extended life, which I discuss below, that warrant capitalization for cost recovery over
4 the useful life rather than being treated as an expense. It is therefore not appropriate to
5 provide in rates for operation and maintenance expenses based on “the cost of replacing
6 the LED fixture and photocells, including associated labor expenses.” Since depreciation
7 of these fixtures is included in the carrying charge, the operation and maintenance costs
8 estimated by the Company should simply be excluded from the rates.

9 Exhibit DJ-7 is Kentucky Utilities response to Question 55 in Lexington-Fayette
10 Urban County Government’s second discovery request. The Company’s response reads:

11 “All lights will have the same operations and maintenance activities performed
12 including replacing failed fixtures, bulbs, photocells, starters, and repairs to
13 damaged service conductors. All operations and maintenance activities are
14 performed upon failure of operability of the light as needed. The anticipated
15 lifespans of each light can vary by wattage but in general are as follows: HPS,
16 metal halide, and MV lights have an expected lifespan of 6 years; LED lights
17 have an expected lifespan of 13 years. At the end of lifespan for HPS, the
18 expected cost elements are the photocell, starter and bulb; for metal halide and
19 MV, the expected cost elements are the photocell and bulb; none of these are
20 tracked for warranty coverage. For LED the entire fixture will be replaced; all
21 vendors under consideration for the LED fixture have a standard 5-year warranty
22 coverage.”

23 There are two issues in this response that are important in establishing rates for
24 new LED offerings by Kentucky Utilities: consideration of warranty and expected
25 lifespan. Kentucky Utilities does not currently have LED street lights in place and
26 operational, so any lights that fall under one of the proposed LED rates will be installed
27 in the future. With a warranty of at least 5 years, there should be no costs of replacement
28 equipment for at least the next 5 years and therefore there should be no costs of
29 replacement equipment during the test year for this case. Thus, even if the replacement of

1 failed LED fixtures were to be expensed, it is inappropriate to include such costs in rates
2 to be established in this case. I note further that many vendors of LED lights offer a 10-
3 year warranty. DTE Electric has chosen to require a 10-year warranty for LED lights. The
4 US Department of Energy’s Municipal Solid State Street Lighting Coalition hosted a
5 webinar¹⁴ on April 14, 2014 in which representatives of the City of Boston, City of
6 Seattle, and City of Las Vegas presented their experience and recommendations
7 concerning LED street light maintenance; each of these cities indicated that as of that
8 time, they were choosing lights with a 10-year warranty. I recommend that Kentucky
9 Utilities follow the lead of these experienced users of LED street lights. Since the cost of
10 a long product warranty is typically capitalized along with the product, Kentucky Utilities
11 should not experience operation and maintenance expenses for replacement fixtures for at
12 least ten years.

13 Kentucky Utilities indicated in its response in Exhibit DJ-7 as well as in other
14 discovery responses that it is expecting LED fixtures to have a 50,000-hour or 13-year
15 lifespan. There are LED light fixtures on the market that are represented as having a
16 50,000-hour anticipated life. However, in recent years many vendors are offering LED
17 light fixtures with 100,000-hour or 25 year anticipated life. Further, the principal failure
18 mode for LED lights is not that they “burn out” but that they lose luminosity.
19 Consequently, a standard measure for LED street lighting products is the amount of time
20 until a light fades to 70% of its original luminosity. The lights that are marketed with
21 100,000-hour anticipated life typically are tested as having expected 98% of initial
22 luminosity after 10-15 years and fading to 70% of original luminosity on the order of 25

¹⁴ Accessible at <https://energy.gov/eere/ssl/maintenance-practices-led-streetlights>.

1 years. The Cities of Boston, Seattle, and Las Vegas are typically using long-life LED
2 fixtures and photocells with anticipate 20-year life in current installations, reflecting their
3 experience. It should therefore be possible, and cost-effective, for Kentucky Utilities to
4 use LED fixtures with an anticipated lifecycle consistent with an assumed 25-year
5 depreciation schedule. In response to Item 52 of Lexington-Fayette Urban County
6 Government’s Second Request for Information, Kentucky Utilities identified several
7 LED street light vendors that it has considered or is considering for its LED lighting
8 offers. Exhibit DJ-8 consists of product literature obtained from the web sites of those
9 vendors. All of them show sufficient expected lumen maintenance beyond 100,000 hours
10 of use.

11 I therefore recommend that the Commission base the LED rates in this case based
12 on the assumptions that LED fixtures will have an expected lifespan of 25 years and
13 warranty of 10 years.

14 **Q. Are there other reasons why the Company’s projected expenses for LED lighting**
15 **may be inflated?**

16 A. Yes. As with most advancements in technology, costs for LED lights are decreasing over
17 time. Some of the projected costs identified by Kentucky Utilities for LED lights may be
18 stale and higher than what is expected in today’s market or the forecasted test-year
19 market. In addition, because the Company has not selected a specific product for its LED
20 offerings, it may recognize savings when it contracts with a supplier to receive its
21 selected product.

22 **Q. Based on your review of the information, what recommendation do you have**
23 **regarding Kentucky Utilitiies’ proposed rates for LED lighting?**

1 A. Kentucky Utilities’ proposed rates for LED lighting should be calculated by adding up
2 the energy costs and the levelized carrying cost of the fixture, with no allowance for
3 operation and maintenance costs until such time as such costs are being incurred and
4 booked.

5 **Q. Do you have other recommendations concerning Kentucky Utilities’ LED lighting**
6 **offering and other technological advancements in lighting?**

7 A. Yes. LED lights are extremely controllable compared to other street light types and
8 technology is currently available to remotely detect outage and luminosity, to add various
9 other sensors to the lights ranging from traffic levels to gunshot location, and to control
10 light color and dimming in various ways. Kentucky Utilities can future-proof its LED
11 lights simply by using 7-pin photocell receptacles in the lights it installs, as these
12 advanced features are being standardized for installation in 7-pin photocell receptacles.
13 Kentucky Utilities indicated their intent to use 7-pin photocell receptacles in response to
14 Lexington-Fayette Urban County Government information request 2-53.

15 I also note that it does not appear that Kentucky Utilities has collaborated with its
16 lighting customers to determine what new lighting offerings would be introduced into its
17 tariff. Because lighting technology will become more advanced and change in the coming
18 years, utilities will be forced to consider what offerings will best serve their customers.
19 In order to make this determination, utilities should consult impacted stakeholders—
20 namely, customers—in determining what lighting should be offered. The Commission
21 should require Kentucky Utilities to consult with Lexington-Fayette Urban County
22 Government and other customers to determine whether its lighting offerings adequately
23 meet the needs of the customers and reflect advancements in technology.

1 With respect to the revenue requirements of the lighting classification, I
2 recommend that, once the Commission determines the appropriate aggregate revenue
3 requirement and cost-of-service method to use in this case, the methodology is applied
4 consistently to assign revenue requirements to each class and not single-out Lighting
5 Services and Restricted Lighting Services for an extraordinary increase. Specifically, I
6 recommend that the Commission should reduce any proposed revenue increase for the
7 Lighting Service and Restricted Lighting Service class so that this class falls within the
8 organization proposed by Kentucky Utilities whereby rates for classes are changed based
9 on an inversely proportional ratio to the class's rate of return.

10 With respect to the change of rates for the non-LED lights within the lighting
11 classification, I have two recommendations. First, The Commission's Order should
12 reflect that any change in the revenue requirement for the Lighting Service and Restricted
13 Lighting Service class be allocated uniformly to all current lighting types. Second, the
14 Commission should order the Company in its next rate case filing to provide a corrected
15 cost-of-service study as a basis for setting rates for each lighting type.

16 With respect to the rates for LED lights within the lighting classification,
17 Kentucky Utilities' new rates should be calculated by adding up the energy costs and the
18 levelized carrying cost of the fixture, with no allowance for operation and maintenance
19 costs until such time as such costs are being incurred and booked. The Commission
20 should order Kentucky Utilities to establish subaccounts to the appropriate FERC USoA
21 accounts to separate LED-related costs from non-LED costs. The Commission should
22 also require Kentucky Utilities to consult with Lexington-Fayette Urban County

1 Government and other customers to determine whether its lighting offerings adequately
2 meet the needs of the customers and reflect advancements in technology.

3 **Q. Does that complete your testimony regarding Kentucky Utilities' street lighting**
4 **tariff?**

5 A. Yes.

Exhibit DJ-1

Douglas B. Jester

Personal Information

Contact Information:

115 W Allegan Street, Suite 710
Lansing, MI 48933
517-337-7527
djester@5lakesenergy.com

Professional experience

January 2011 – present
Principal Member

5 Lakes Energy

Co-owner of a consulting firm working to advance the clean energy economy in Michigan and beyond. Consulting engagements with foundations, startups, and large mature businesses have included work on public policy, business strategy, market development, technology collaboration, project finance, and export development concerning energy efficiency, smart grid, renewable generation, electric vehicle infrastructure, and utility regulation and rate design. Policy director for renewable energy ballot initiative and Michigan energy legislation advocacy. Supported startup of the Energy Innovation Business Council, a trade association of clean energy businesses. Expert witness in utility regulation cases. Developed integrated resource planning models for use in ten states' compliance with the Clean Power Plan.

February 2010 - December 2010
Energy, Labor and Economic Growth
Senior Energy Policy Advisor

Michigan Department of

Advisor to the Chief Energy Officer of the State of Michigan with primary focus on institutionalizing energy efficiency and renewable energy strategies and policies and developing clean energy businesses in Michigan. Provided several policy analyses concerning utility regulation, grid-integrated storage, performance contracting, feed-in tariffs, and low-income energy efficiency and assistance. Participated in Pluggable Electric Vehicle Task Force, Smart Grid Collaborative, Michigan Prosperity Initiative, and Green Partnership Team. Managed development of social-media-based community for energy practitioners. Organized conference on Biomass Waste to Energy.

August 2008 - February 2010

Rose International

Business Development Consultant - Smart Grid

- Employed by Verizon Business' exclusive external staffing agency for the purpose of providing business and solution development consultation services to Verizon Business in the areas of Smart Grid services and transportation management services.

December 2007 - March 2010 Efficient Printers Inc
President/Co-Owner

- Co-founder and co-owner with Keith Carlson of a corporation formed for the purpose of acquiring J A Thomas Company, a sole proprietorship owned by Keith Carlson. Recognized as Sacramento County (California) 2008 Supplier of the Year and Washoe County (Nevada) Association for Retarded Citizens 2008 Employer of the Year. Business operations discontinued by asset sale to focus on associated printing software services of IT Services Corporation.

August 2007 - present IT Services Corporation
President/Owner

- Founder, co-owner, and President of a startup business intended to provide advanced IT consulting services and to acquire or develop managed services in selected niches, currently focused on developing e-commerce solutions for commercial printing with software-as-a-service.

2004 – August 2007 Automated License Systems
Chief Technology Officer

- Member of four-person executive team and member of board of directors of a privately-held corporation specializing in automated systems for the sale of hunting and fishing licenses, park campground reservations, and in automated background check systems. Executive responsible for project management, network and data center operations, software and product development. Brought company through mezzanine financing and sold it to Active Networks.

2000 - 2004 WorldCom/MCI
Director, Government Application Solutions

- Executive responsible in various combinations for line of business sales, state and local government product marketing, project management, network and data center operations, software and product development, and contact center operations for specialized government process outsourcing business. Principal lines of business were vehicle emissions testing, firearm background checks, automated hunting and fishing license systems, automated appointment scheduling, and managed application hosting services. Also responsible for managing order entry, tracking, and service support systems for numerous large federal telecommunications contracts such as the US Post Office, Federal Aviation Administration, and Navy-Marine Corps Intranet.
- Increased annual line-of-business revenue from \$64 million to \$93 million, improved EBITDA from approximately 2% to 27%, and retained all customers, in context of corporate scandal and bankruptcy.
- Repeatedly evaluated in top 10% of company executive management on annual performance evaluations.

1999-2000 Compuware Corporation

Senior Project Manager

- Senior project manager, on customer site with five project managers and team of approximately 80, to migrate a major dental insurer from a mainframe environment to internet-enabled client-server environment.

1995 - 1999 City of East Lansing, Michigan

Mayor and Councilmember

- Elected chief executive of the City of East Lansing, a sophisticated city of 52,000 residents with a council-manager government employing about 350 staff and with an annual budget of about \$47 million. Major accomplishments included incorporation of public asset depreciation into budgets with consequent improvements in public facilities and services, complete rewrite and modernization of city charter, greatly intensified cooperation between the City of East Lansing and the East Lansing Public Schools, significant increases in recreational facilities and services, major revisions to housing code, initiation of revision of the City Master Plan, facilitation of the merger of the Capital Area Transportation Authority and Michigan State University bus systems, initiation of a major downtown redevelopment project, City government efficiency improvements, and numerous other policy initiatives. Member of Michigan Municipal League policy committee on Transportation and Environment and principal writer of league policy on these subjects (still substantially unchanged as of 2009).

1995-1999 Michigan Department of Natural Resources

Chief Information Officer

- Executive responsibility for end-user computing, data center operations, wide area network, local area network, telephony, public safety radio, videoconferencing, application development and support, Y2K readiness for Departments of Natural Resources and Environmental Quality. Directed staff of about 110. Member of MERIT Affiliates Board and of the Great Lakes Commission's Great Lakes Information Network (GLIN) Board.

1990-1995 Michigan Department of Natural Resources

Senior Fisheries Manager

- Responsible for coordinating management of Michigan's Great Lakes fisheries worth about \$4 billion per year including fish stocking and sport and commercial fishing regulation decisions, fishery monitoring and research programs, information systems development, market and economic analyses, litigation, legislative analysis and negotiation. University relations. Extensive involvement in regulation of steam electric and hydroelectric power plants.
- Served as agency expert on natural resource damage assessment, for all resources and causes.
- Considerable involvement with Great Lakes Fishery Commission, including:
 - Co-chair of Strategic Great Lakes Fishery Management Plan working group

- Member of Lake Erie and Lake St. Clair Committees
- Chair, Council of Lake Committees
- Member, Sea Lamprey Control Advisory Committee
- St Clair and Detroit River Areas of Concern Planning Committees

1989-1990 American Fisheries Society

Editor, North American Journal of Fisheries Management

- Full responsibility for publication of one of the premier academic journals in natural resource management.

1984 - 1989 Michigan Department of Natural Resources

Fisheries Administrator

- Assistant to Chief of Fisheries, responsible for strategic planning, budgets, personnel management, public relations, market and economic analysis, and information systems. Department of Natural Resources representative to Governor's Cabinet Council on Economic Development.

1983-present Michigan State University

Adjunct Instructor

- Irregular lecturer in various undergraduate and graduate fisheries and wildlife courses and informal graduate student research advisor in fisheries and wildlife and in parks and recreation marketing.

1977 – 1984 Michigan Department of Natural Resources

Fisheries Research Biologist

- Simulation modeling & policy analysis of Great Lakes ecosystems. Development of problem-oriented management records system and "epidemiological" approaches to managing inland fisheries.

Education

1991-1995 Michigan State University

PhD Candidate, Environmental Economics

Coursework completed, dissertation not pursued.

1980-1981 University of British Columbia

Non-degree Program, Institute of Animal Resource

Ecology

1974-1977 Virginia Polytechnic Institute & State University

MS Fisheries and Wildlife Sciences

MS Statistics and Operations Research

1971-1974 New Mexico State University

BIS Mathematics, Biology, and Fine Arts

Citizenship and
Community
Involvement

Youth Soccer Coach, East Lansing Soccer League, 1987-89

Co-organizer, East Lansing Community Unity, 1992-1993

Bailey Community Association Board, 1993-1995

East Lansing Commission on the Environment, 1993-1995

Councilmember, City of East Lansing, 1995-1999

Mayor, City of East Lansing, 1995-1997

East Lansing Downtown Development Authority Board Member, 1995-1999

East Lansing Transportation Commission, 1999-2004

East Lansing Non-Profit Housing and Neighborhood Services Corporation Board Member, 2001-2004

Lansing – EastLansing Smart Zone Board of Directors, 2007-present

Council on Labor and Economic Growth, State of Michigan, by appointment of the Governor, May 2009 – May 2012

East Lansing Downtown Development Authority Board Member and Vice-Chair, 2010 – present.

East Lansing Brownfield Authority Board Member and Vice-Chair, 2010 – present.

East Lansing Downtown Management Board and Chair, 2010 – 2016

East Lansing City Center Condominium Association Board Member, 2015 – present.

Specific Energy-Related Accomplishments

Unrelated to Employment

- Member of Michigan SAVES Advisory Board. Michigan SAVES is a financing program for building energy efficiency measures initiated by the State of Michigan Public Service Commission and administered under contract by Public Sector Consultants. Program launched in 2010.
- Member of Michigan Green Jobs Initiative, representing the Council for Labor and Economic Growth.
- Participated in Lansing Board of Water and Light Integrated Resource Planning, leading to their recent completion of a combined cycle natural gas power plant that also provides district heating to downtown Lansing.

- By appointment of the Mayor of Lansing, member of Citizens Review Team to evaluate Lansing Board of Water and Light storm response and emergency preparedness.
- Angel investor in startup off-shore wind technology company, recently awarded ARPA-E commercialization grant.
- In graduate school, participated in development of database and algorithms for optimal routing of major transmission lines for Virginia Electric Power Company (now part of Dominion Resources).

For 5 Lakes Energy

- Participant by invitation in the Michigan Public Service Commission Smart Grid Collaborative, authoring recommendations on data access, application priorities, and electric vehicle integration to the grid.
- Participant by invitation in the Michigan Public Service Commission Energy Optimization Collaborative, a regular meeting and action collaborative of parties involved in the Energy Optimization programs required of utilities by Michigan law enacted in 2008.
- Participant by invitation in Michigan Public Service Commission Solar Work Group, including presentations and written comments on value of solar, including energy, capacity, avoided health and environmental damages, hedge value, and ancillary services.
- Participant by invitation in Michigan Senate Energy and Technology Committee stakeholder work group preliminary to introduction of a comprehensive legislative package.
- Participant by invitation in Michigan Public Service Commission PURPA Avoided Cost Technical Advisory Committee.
- Participant by invitation in Michigan Public Service Commission Standby Rate Working Group.
- Participant by invitation in Michigan Public Service Commission Street Lighting Collaborative.
- Participant by invitation in State of Michigan Agency for Energy Technical Advisory Committee on Clean Power Plan implementation.
- Conceived, obtained funding, and developed open access integrated resource planning tools (State Tool for Electricity Emissions Reduction aka STEER) for State compliance with the Clean Power Plan:
 - For Energy Foundation - Michigan and Iowa
 - For Advanced Energy Economy Institute – Arkansas, Florida, Illinois, Ohio, Pennsylvania, Virginia
 - For The Solar Foundation - Georgia and North Carolina
 - For Colorado Dept of Public Health and Environment - Colorado currently beginning development.
- Presentations to Michigan Agency for Energy and the Institute for Public Utilities Michigan Forum on Strategies for Michigan to Comply with the Clean Power Plan.
- Participant in Midcontinent Independent Systems Operator stakeholder processes on behalf of Michigan Citizens Against Rate Excess and the MISO Consumer Representatives Sector, including Resource Adequacy Committee, Loss of Load Expectation Working Group, Transmission Expansion Working Group, Demand Response Working Group, Independent Load Forecasting Working Group, and Clean Power Plan Working Group.
- Expert witness before the Michigan Public Service Commission in various cases, including:
 - Case U-17473 (Consumers Energy Plant Retirement Securitization)
 - Case U-17096-R (Indiana Michigan 2013 PSCR Reconciliation)
 - Case U-17301 (Consumers Energy Renewable Energy Plan 2013 Biennial Review);
 - Case U-17302 (DTE Energy Renewable Energy Plan 2013 Biennial Review);
 - Case U-17317 (Consumers Energy 2014 PSCR Plan);
 - Case U-17319 (DTE Electric 2014 PSCR Plan);
 - Case U-17674 (WEPCO 2015 PSCR Plan);
 - Case U-17679 (Indiana-Michigan 2015 PSCR Plan);
 - Case U-17689 (DTE Electric Cost of Service and Rate Design);
 - Case U-17688 (Consumers Energy Cost of Service and Rate Design);
 - Case U-17698 (Indiana-Michigan Cost of Service and Rate Design);

- Case U-17762 (DTE Electric Energy Optimization Plan);
- Case U-17752 (Consumers Energy Community Solar);
- Case U-17735 (Consumers Energy General Rates);
- Case U-17767 (DTE General Rates);
- Case U-17792 (Consumers Energy Renewable Energy Plan Revision);
- Case U-17895 (UPPCO General Rates);
- Case U-17911 (UPPCO 2016 PSCR Plan);
- Case U-17990 (Consumers Energy General Rates); and
- Case U-18014 (DTE General Rates);
- Case U-17611-R (UPPCO 2015 PSCR Reconciliation);
- Case U-18090 (Consumers Energy PURPA Avoided Costs);
- Case U-18091 (DTE PURPA Avoided Costs).
- Coauthored “Charge without a Cause: Assessing Utility Demand Charges on Small Customers”
- Currently under contract to the Michigan Agency for Energy to develop a Roadmap for CHP Market Development in Michigan, including evaluation of various CHP technologies and applications using STEER Michigan as an integrated resource planning tool.
- Under contract to NextEnergy, authored “Alternative Energy and Distributed Generation” chapter of Smart Grid Economic Development Opportunities report to Michigan Economic Development Corporation and assisted authors of chapters on “Demand Response” and “Automated Energy Management Systems”.
- Developed presentation on “Whole System Perspective on Energy Optimization Strategy” for Michigan Energy Optimization Collaborative.
- Under contract to NextEnergy, assisted in development of industrial energy efficiency technology development strategy.
- Under contract to a multinational solar photovoltaics company, developed market strategy recommendations.
- For an automobile OEM, developed analyses of economic benefits of demand response in vehicle charging and vehicle-to-grid electricity storage solutions.
- Under contract to Pew Charitable Trusts, assisted in development of a report of best practices for electric vehicle charging infrastructure.
- Under contract to a national foundation, developed renewable energy business case for Michigan including estimates of rate impacts, employment and income effects, health effects, and greenhouse gas emissions effects.
- Assisted in Michigan market development for a solar panel manufacturer, clean energy finance company, and industrial energy management systems company.
- Under contract to Institute for Energy Innovation, organized legislative learning sessions covering a synopsis of Michigan’s energy uses and supply, energy efficiency, and economic impacts of clean energy.

For Department of Energy Labor and Economic Growth

- Participant in the Michigan Public Service Commission Energy Optimization Collaborative, a regular meeting and action collaborative of parties involved in the Energy Optimization programs required of utilities by Michigan law enacted in 2008.
- Lead development of a social-media-based community for energy practitioners in Michigan at www.MichEEN.org.
- Drafted analysis and policy paper concerning customer and third-party access to utility meter data.
- Analyzed hourly electric utility load demonstrating relationship amongst time of day, daylight, and temperature on loads of residential, commercial, industrial, and public lighting customers. Analysis demonstrated the importance of heating for residential electrical loads and the effects of various energy efficiency measures on load-duration curves.
- Analyzed relationship of marginal locational prices to load, demonstrating that traditional assumptions of Integrated Resource Planning are invalid and that there are substantial

current opportunities for cost-effective grid-integrated storage for the purpose of price arbitrage as opposed to traditionally considered load arbitrage.

- Developed analyses and recommendations concerning the use of feed-in tariffs in Michigan.
- Participated in Pluggable Electric Vehicle Task Force and initiated changes in State building code to accommodate installation of vehicle charging equipment.
- Organized December 2010 conference on Biomass Waste to Energy technologies and market opportunities.
- Participated in and provided support for teams working on developing Michigan businesses involved in renewable energy, storage, and smart grid supply chains.
- Developed analyses and recommendations concerning low-income energy assistance coordination with low-income energy efficiency programs and utility payment collection programs.
- Drafted State of Michigan response to a US Department of Energy request for information on offshore wind energy technology development opportunities.
- Assisted in development of draft performance contracting enabling legislation, since adopted by the State of Michigan.

For Verizon Business

- Analyzed several potential new lines of business for potential entry by Verizon's Global Services Systems Integration business unit and recommended entry to the "Smart Grid" market. This recommendation was adopted and became a major corporate initiative.
- Provided market analysis and participation in various conferences to aid in positioning Verizon in the "Smart Grid" market. Recommendations are proprietary to Verizon.
- Led a task force to identify potential converged solutions for the "Smart Grid" market by integrating Verizon's current products and selected partners. Established five key partnerships that are the basis for Verizon's current "Smart Grid" product offerings.
- Participated in the "Smart Grid" architecture team sponsored by the corporate Chief Technology Officer with sub-team lead responsibilities in the areas of Software and System Integration and Network and Systems Management. This team established a reference architecture for the company's "Smart Grid" offerings, identified necessary changes in networks and product offerings, and recommended public policy positions concerning spectrum allocation by the FCC, security standards being developed by the North American Reliability Council, and interoperability standards being developed by the National Institute of Standards and Technology.
- Developed product proposals and requirements in the areas of residential energy management, commercial building energy management, advanced metering infrastructure, power distribution monitoring and control, power outage detection and restoration, energy market integration and trading platforms, utility customer portals and notification services, utility contact center voice application enablement, and critical infrastructure physical security.
- Lead solution architecture and proposal development for six utilities with solutions encompassing customer portal, advanced metering, outage management, security assessment, distribution automation, and comprehensive "Smart Grid" implementation.
- Presented Verizon's "Smart Grid" capabilities to seventeen utilities.
- Presented "Role of Telecommunications Carriers in Smart Grid Implementation" to 2009 Mid-America Regulatory Conference.
- Presented "Smart Grid: Transforming the Electricity Supply Chain" to the 2009 World Energy Engineering Conference.
- Participant in NASPI net work groups of the North American Energy Reliability Corporation (NERC), developing specifications for a wide-area situational awareness network to facilitate the sharing and analysis of synchrophasor data amongst utilities in order to increase transmission reliability.
- Provided technical advice to account team concerning successful proposal to provide network services and information systems support for the California ISO, which coordinates power dispatch and intercompany power sales transactions for the California market.

For Michigan Department of Natural Resources

- Determined permit requirements under Section 316 of the Clean Water Act for all steam electric plants currently operating in the State of Michigan.
- Case manager and key witness for the State of Michigan in FERC, State court, and Federal court cases concerning economics and environmental impacts of the Ludington Pumped Storage Plant, which is the world's largest pumped storage plant. A lead negotiator for the State in the ultimate settlement of this issue. The settlement was valued at \$127 million in 1995 and included considerations of environmental mitigation, changes in power system dispatch rules, and damages compensation.
- Managed FERC license application reviews for the State of Michigan for all hydroelectric projects in Michigan as these came up for reissuance in 1970s and 1980s.
- Testified on behalf of the State of Michigan in contested cases before the Federal Energy Regulatory Commission concerning benefit-cost analyses and regulatory issues for four different hydroelectric dams in Michigan.
- Reviewed (as regulator) the environmental impacts and benefit-cost analyses of all major steam electric and most hydroelectric plants in the State of Michigan.
- Executive responsibility for development, maintenance, and operations of the State of Michigan's information system for mineral (includes oil and gas) rights leasing, unitization and apportionment, and royalty collection.
- In cooperative project with Ontario Ministry of Natural Resources, participated in development of a simulation model of oil field development logistics and environmental impact on Canada's Arctic slope for Tesoro Oil.

Exhibit DJ-2

KENTUCKY UTILITIES COMPANY

CASE NO. 2016-00370

**Response to Lexington-Fayette Urban County
Government's First Request for Information
Dated January 11, 2017**

Question No. 83

Responding Witness: John K. Wolfe / Robert M. Conroy

- Q-83. Are any of KU's poles used for both street lighting and any other purpose (e.g., cable attachments, electric distribution, electric transmission)? If so, are all street lights that are on poles that are also used for other purposes billed under a "fixture only" rate code? If not all such lights are billed under a "fixture only" rate code, please provide the following information:
- a. Within each rate code, the number of street-light poles for which LFUCG pays a monthly rate under the LS or RLS rate classifications that serve another purpose.
 - b. Within each rate code, the number of street-light poles for which any KU customer within KU's Kentucky jurisdictional operations pays a monthly rate under the LS or RLS rate classifications that serve another purpose.
 - c. Within each rate code, the number of street-light poles for which any KU customer within KU's entire system pays a monthly rate under the LS or RLS rate classifications that serve another purpose.
 - d. Identify the other purpose or purposes that these poles serve.
 - e. Explain how the various cost components of the above-mentioned poles (including installation) are allocated to the customers that benefit from the asset.
- A-83. Yes, street lights may be installed on electric distribution poles and transmission poles and there may be third party attachment or joint use partner attachments on the poles. No, not all such street lights are billed under a fixture only code.
- a. This information is not tracked.
 - b. This information is not tracked.
 - c. This information is not tracked.

- d. In locations where a third-party attachee has made an attachment to a wood pole in public ROW requested by LFUCG, the lights are not billed under a “fixture only” code. KU has also installed routers on some street light poles for the AMI (Advanced Metering Infrastructure) project.
- e. See the response to Question No. 84.

KENTUCKY UTILITIES COMPANY

CASE NO. 2016-00370

**Response to Lexington-Fayette Urban County
Government's First Request for Information
Dated January 11, 2017**

Question No. 84

Responding Witness: William S. Seelye

- Q-84. Please explain whether the revenues received from pole attachments offset expenses. Are the revenues received from pole attachments applied to the poles themselves or are they applied to the revenue requirement generally for KU?
- A-84. The revenues received from pole attachments are not applied to the poles themselves; rather, they are recorded as miscellaneous service revenues which are allocated as a revenue credit to all customer classes in the Company's cost of service study. Pole attachment revenues therefore offset the cost of providing service to customers receiving standard electric service.

KENTUCKY UTILITIES COMPANY

CASE NO. 2016-00370

**Response to Lexington-Fayette Urban County
Government's First Request for Information
Dated January 11, 2017**

Question No. 85

Responding Witness: Robert M. Conroy / Valerie L. Scott

Q-85. Does KU derive any rental or other income related to the use of or attachment to utility poles or other fixtures located within the public right-of-way?

- a. If so, please provide a detailed breakdown of the annual rents or other income received from any third parties attributable to these types of properties.
- b. If possible, further provide a breakdown within Fayette County, Kentucky.
- c. Is this income considered revenue by KU; and if so, how is it allocated?

A-85. Yes. KU receives rental income from third party attachments to its poles, whether the poles are located within the public right-of-way or are located elsewhere.

- a. Total Kentucky Jurisdiction pole attachment revenue recorded in 2016 was \$1,107,376.
- b. KU does not track pole attachment revenue by the location of the poles, and does not have the detailed information requested.
- c. Yes. Revenues received from pole attachments serve as a credit towards the cost of providing service to customers. See the response to Question No. 84.

Exhibit DJ-3

KENTUCKY UTILITIES COMPANY

CASE NO. 2016-00370

**Response to Second Request for Information of Lexington-Fayette Urban County
Government
Dated February 7, 2017**

Question No. 1

Responding Witness: Robert M. Conroy / William S. Seelye

- Q-1. Please refer to Table 2 of William Seelye's testimony. On pages 6-7 of his testimony, Seelye states that "KU is proposing higher percentage increases for rate classes that have low rates of return and lower percentage increases for rate classes that have higher rates of return." Please confirm that the proposed percentage of revenue increase from lighting service and restricted lighting service is higher than (a) residential service, (b) time-of-day secondary service, and (c) all electric schools, all of which have lower rates of return than the lighting service and restricted lighting service classifications. Explain why KU deviated from its desire to have higher percentage increases for rate classes that have low rates of return and lower percentage increases for rate classes that have higher rates of return with respect to lighting classifications.
- A-1. Yes, the proposed increase for Lighting Service and Restricted Lighting Service is higher than Residential Service, All Electric Schools, and TOD Secondary. The Company is proposing a higher increase for Lighting Service and Restricted Lighting Service because of the higher risk of property damage for lighting equipment under these rates and because of the higher administrative burden of carrying inventory for lighting equipment. Street and outdoor lights have a higher incident of vandalism and damage than other utility property. Furthermore, the Company must carry inventory for each light type even when customer interest in lighting equipment is in decline. Consequently, the Company has a significant inventory risk in providing service under these rates.

Exhibit DJ-4

KENTUCKY UTILITIES COMPANY

CASE NO. 2016-00370

**Response to Lexington-Fayette Urban County
Government's First Request for Information
Dated January 11, 2017**

Question No. 50

Responding Witness: John K. Wolfe / Daniel K. Arbough / William S. Seelye

- Q-50. Please refer to the Excel workbook named "Att_KU_PSC_1-54_KULights.xlsx" that was filed in response to Item 54 of the Commission Staff's first request for information.
- a. Please identify how KU determined each of the prices for each specific item of material for each type of lighting offering. If KU relied on pricing from contractors or other third parties, identify each contractor or third party that provided pricing information and the specific information that each contractor or third party provided.
 - b. Provide all documentation in KU's possession, custody, or control that relates to the prices for materials identified in this spreadsheet.
 - c. Explain why cost for materials on fixture-only rates is higher for KU than LG&E. For example, on the High Pressure Sodium, Cobrahead Fixture, 5800 Lumens, the rates for fixture only are based on materials for the fixtures costing \$283.60 for KU and only \$204.21 for LG&E.
 - d. Please explain how KU determined each component of the labor expense for each type of lighting offering.
 - e. Please explain what a "burden rate" is.
 - f. Please explain how KU calculated that a burden rate of 32.5% should be applied to materials and 14.5% should be applied to labor.
 - g. Please identify who determined that the burden rates of 32.5% for materials and 14.5% for labor were appropriate for use in calculating KU's proposed rates.
 - h. There are references in multiple worksheets that "Burden %'s are linked to Mike Woods data spreadsheet." Please provide a copy of the "Mike Woods data spreadsheet" or identify where it has previously been produced.

- i. William Seelye stated in his testimony that the carrying charge for lighting included depreciation expenses, return on investment, income taxes and property taxes. Please provide a detailed calculation for the figure of 16.27% that KU has applied to the estimated investment per street lighting unit to include in annual rates for street lighting.
 - j. Please explain why KU believes that it is appropriate to include 16.27% of the estimated investment per street lighting unit in annual rates for street lighting.
 - k. On the worksheet entitled “KU RATE SUMMARY,” the figure of 16.27% is listed under the column heading “carry charge.” Please explain whether the 16.27% is appropriately considered a carrying charge.
 - l. Please state whether the estimated investment per unit represents average depreciated value of units in service or the cost of a new unit.
 - m. Please describe the formula for how the operation and maintenance component is calculated for rates in the LS and RLS classifications.
 - n. If the operation and maintenance component includes \$38.76 in labor costs, explain why this is a reasonable expense to include in rates when the average cost to replace a lamp by Wilhod, Inc., and Reed Utilities ranges from \$24.50 to \$30.50.
 - o. Please identify each cost component of the operation and maintenance expense that is included in the rates for the LED street lights.
- A-50.
- a. KU used current sourcing prices for ordering materials through its contracted supplier, Brownstown Electric Supply for all materials.
 - b. See attached.
 - c. The majority of the differential comes from where KU calculates the cost of brackets on an average cost basis which includes brackets not in use by LG&E in their calculation; KU uses 10’, 12’, and 15’ brackets not included in the quote for LG&E.
 - d. Labor expense is determined by the typical times experienced to install the listed material offering at the current labor rate.
 - e. Burden rates are KU’s percentage calculation of expense applied to the labor, material, and outside services to recover and spread the actual costs for engineering, general and administrative expense, and storeroom expense.

- f. Materials receive a burden rate that includes storeroom expense, general and administrative expense, and local engineering expense. Other costs on the capital projects incur a burden that includes general and administrative and local engineering costs.
- g. The Company's Forecasting and Budgeting and Regulatory Accounting departments calculate the burden rates.
- h. The "Mike Woods data spreadsheet" is wholly incorporated into the spreadsheet referenced "Att_KU_PSC_1-54_KULights.xlsx" included as an attachment to the response to PSC 1-54.
- i. See attached.
- j. The 16.27% figure represents the carrying charge for lights. Carrying charges include the depreciation expenses, return on investment, income taxes, and property taxes for the lights. These are standard elements included in revenue requirements.
- k. Yes.
- l. In the Company's class cost of service studies, the revenue requirements for the lighting rates (Rates LS and RLS) were determined based on fully depreciated costs. Therefore, the revenue increase allocated to lighting rates reflected revenue requirements based on fully depreciated costs. Exhibit WSS-4 was not used to determine the revenue requirement for the class but rather to allocate the revenue requirement for Rates LS and RLS to the individual lights. WSS-4 is calculated based on the current cost of a new light (i.e., based on marginal costs) and thus does not include accumulated depreciation in the determination of the carrying costs used to allocate the class revenue requirements to individual lighting rates. The reason this procedure was used is that accounting records are not maintained for each individual type of light; therefore, a revenue requirement reflective of fully-depreciated book costs cannot be determined for each lighting type. Thus, to establish charges that reflect the relative costs between the individual lighting types, the total revenue requirement for the lighting class (based on depreciated costs) was allocated to the individual lighting types based on marginal costs.
- m. Operation and maintenance expenses include the cost of replacing bulbs and photocells, including associated labor expenses.
- n. Typical lamp replacement on street lights are performed by KU personnel and the operation and maintenance component reflects that labor cost. Wilhod, Inc. and Reed Utilities are contracted to replace/install entire structures including

poles and underground service conductors requiring conduit and do not maintenance individual lamp replacement for KU.

- o. Operation and maintenance expenses include the cost of replacing the LED fixture and photocells, including associated labor expenses.

Num	Item	Description	UOM	Price	Supplier Item
1	384419	LUMINAIRE,CONTEMPARY,HPS,400W, AUTO REG,TYPE III,120V,P	EACH	281.78	384419
2	384427	LUMINAIRE,CONTEMPARY,HPS,250W,AUTO REG,TYPE III,120V,PI	EACH	281.78	384427
4	454278	LUMINAIRE,CONTEMPARY,HPS,400W,AUTO REG,480V,TYPE III,PI	EACH	282.88	454278
6	454535	CONNECTOR,#10-350 MCM,6 POSITION,SET SCREW,INSULATED,	EACH	10.54	PED6-350SSP
8	474735	LUMINAIRE,COLONIAL,HPS,150W,120V,16000 LUMENS,TYPE V,V	EACH	121.06	474735
12	511235	LUMINAIRE,COBRA,HPS,150W,120V,16000 LUMENS,TYPE II,NPF,	EACH	76.43	511235
14	511751	LUMINAIRE,ACORN,HPS,150W,120V,TYPE V,NPF,W/9" TRADITIO	EACH	241.64	511751
16	511794	LUMINAIRE,ACORN,HPS,100W,120V,TYPE V,NPF,W/ 9" TRADITIC	EACH	239.32	511794
18	512419	PIN,TERMINAL,COMPRESSION,1/0 CU/AL,.840 DIE,6" LONG PIN,#	EACH	3.15	X5U10-6
19	515451	PLATE,GROUNDING,POLE BUTT,7.5" DIA.,COPPER,#8-#2 WIRE,SE	EACH	4.36	GP100, UGP44
21	908443	LUMINAIRE,FLOOD,HPS,200W,120V,NPF,22000 LUMENS,DARK B	EACH	166.86	908443
22	908451	LUMINAIRE,FLOOD,HPS,100W,120V,NPF,9500 LUMENS,DARK BR	EACH	141.08	908451
24	929327	CONNECTOR,TRANSF.,URD SEC.,SET SCREW,Z BAR TYPE,#1/0 TO	EACH	34.21	ZBT4047DSC
25	929335	CONNECTOR,TRANSF.,URD SEC.,SET SCREW,Z BAR TYPE,#1/0 TO	EACH	21.98	ZBT2027DSC
30	930619	PIN,TERMINAL,COMPRESSION,#2 CU/AL,.5/8" DIE,6" LONG PIN,#	EACH	3.15	U5U2-6
33	930960	CLAMP,DEADEND,AUTO WEDGE,AL/CU,#4-4/0 AL/CU/ACSR/AA	EACH	16.51	GDW-2040
36	932078	CLEANER,CABLE,USED IN CONFINED SPACES,TANDEM PACK,1-5"	EACH	0.93	HP-P-158ID
37	934919	ELBOW,LOADBREAK,#1/0 CU/AL,175/220M,14.4KV PHASE TO PH	EACH	30.52	215LEJ45T
39	934935	ELBOW,LOADBREAK,#2 CU/AL,175/220M,14.4KV PHASE TO PHA	EACH	30.52	215LEJ43T
40	938460	CABLE,600V,UG,4/0-4/0-4/0-2/0,4/C AL,QUADRUPLEX,XLP,WAKI	FOOT	2.04	WAKEFORREST
41	938478	CABLE,600V/UG,350-350-350-4/0,4/C AAC QUADRUPLEX,XLPE,S	FOOT	3.31	SLIPPERYROCK
42	938560	PEDESTAL,UG,SECONDARY,NON-METALLIC,WITH TEMP. SERVICE	EACH	76.83	938560
44	1186143	LUMINAIRE,COBRA,HPS,150W,120V,16000 LUMENS,TYPE II,NPF,	EACH	72.74	11515SRN120R2DGOP
45	1186151	LUMINAIRE,COBRA,HPS,250W,120V,AUTO-REG,27500 LUMENS,	EACH	100.56	11525SXH120R3DGOP
49	1186494	LUMINAIRE,FLOOD,HPS,150W,120V,16000 LUMENS,6X6,NPF,PE	EACH	147.21	PF1S15S1N26X6DBLP
52	1192994	CABLE,UG,15KV,1/0 AAC,175MIL,33%JCN PARALLEL,19 STR COM	FOOT	4.39	1192994
55	1244451	SPLICE,KIT,15KV,MOLDED,#1/0 AL OR CU,175/220 MIL,JCN & CN	EACH	20.17	5411-C1-1/0
56	1251843	BELT,SAND,150 GRIT,2" X 50 YDS,ALUM OXIDE STANDARD PKG. C	EACH	37.34	1251843
58	1566794	CABLE,UG,15KV,1/0 AAC,175MIL,100%JCN,19 STR COMPRESSED	FOOT	1.96	1566794
59	7000101	CROSSARM,WOOD,FIR,3 3/4" X 4 3/4" X 8',BORED TO STANDAR	EACH	31.22	8'-LGE/KU-CROSSAR
60	7000102	CROSSARM,WOOD,FIR,3 3/4" X 4 3/4" X 10',BORED TO STANDAF	EACH	39.34	10'-LGE/KU-CROSSA
64	7000156	GAIN,BRACELESS,CROSSARM,SINGLE ARM	EACH	23.17	PX182A
66	7000172	ARRESTER,DISTRIBUTION,UG,ELBOW,10KV,MOV,POLYMER,8.4KV	EACH	57.31	215ELA10
67	7000173	ARRESTER,DISTRIBUTION,OH,9KV,HEAVY-DUTY,MOV,POLYMER,;	EACH	26.91	7000173-KU-ARREST
68	7000205	BOLT,CARRIAGE,1/2" X 6",GALV STL,W/SQ SHOULDER & SQ NUT	EACH	0.97	J8646
69	7000206	BOLT,CARRIAGE,3/8" X 4-1/2",GALV STL,W/SQ SHOULDER & SQ	EACH	0.46	8634 1/2
70	7000209	BOLT,DOUBLE ARM,5/8" X 16",ALL THREAD,GALV,W/4 SQ NUTS,S	EACH	2.3	DABOLT5816
71	7000210	BOLT,DBL ARM,5/8" X 18",ALL THREAD,GALV W/4 SQ NUTS,STD P	EACH	2.37	DABOLT5818
72	7000211	BOLT,DBL ARM,5/8" X 20",ALL THREAD,GALV W/4 SQ NUTS,STD P	EACH	2.59	DABOLT5820
73	7000212	BOLT,DBL ARM,5/8" X 22",ALL THREAD,GALV W/4 SQ NUTS,STD P	EACH	2.72	DABOLT5822
74	7000213	BOLT,DBL ARM,5/8" X 24",ALL THREAD,GALV W/4 SQ NUTS,STD P	EACH	2.91	DABOLT5824
75	7000214	BOLT,DBL ARM,5/8" X 26",ALL THREAD,GALV W/4 SQ NUTS,STD P	EACH	3.23	DABOLT5826
76	7000215	BOLT,DBL ARM,5/8" X 28",ALL THREAD,GALV W/4 SQ NUTS STD P	EACH	3.62	DABOLT5828
77	7000216	BOLT,DBL ARM,5/8" X 30",ALL THREAD,GALV W/4 SQ NUTS STD P	EACH	3.95	DABOLT5830
78	7000217	BOLT,DBL ARM,3/4" X 16",ALL THREAD,GALV W/4 SQ NUTS STD P	EACH	3.34	DABOLT3416
79	7000218	BOLT,DBL ARM,3/4" X 18",ALL THREAD,GALV W/4 SQ NUTS STD P	EACH	3.65	DABOLT3418
80	7000219	BOLT,DBL ARM,3/4" X 20",ALL THREAD,GALV W/4 SQ NUTS STD P	EACH	4.02	DABOLT3420
81	7000220	BOLT,DBL ARM,3/4" X 22",ALL THREAD,GALV W/4 SQ NUTS STD P	EACH	4.7	DABOLT3422
82	7000221	BOLT,DBL ARM,3/4" X 24",ALL THREAD,GALV W/4 SQ NUTS STD P	EACH	4.9	DABOLT3424
83	7000222	BOLT,DBL ARM,3/4" X 26",ALL THREAD,GALV W/4 SQ NUTS STD P	EACH	5.22	DABOLT3426
84	7000238	BOLT,EYE,OVAL,5/8" X 10",GALV,W/SQ NUT STD PKG = 25	EACH	2.84	EB5810
85	7000239	BOLT,EYE,OVAL,5/8" X 12",GALV,W/SQ NUT STD PKG = 25	EACH	2.97	EB5812
86	7000240	BOLT,EYE,OVAL,5/8" X 14",GALV,W/SQ NUT STD PKG = 25	EACH	3.26	EB5814
87	7000248	BOLT,MACH,SQ HD,1/2" X 6",GALV,W/SQ NUT (50 PER BOX)	EACH	0.73	MB1206
88	7000249	BOLT,MACH,SQ HD,1/2" X 7",GALV,W/SQ NUT STD PKG = 100	EACH	0.83	MB1207
89	7000250	BOLT,MACHINE,SQUARE HEAD,1/2" X 8",GALV,W/SQ NUT	EACH	0.86	MB1208
90	7000251	BOLT,MACHINE,SQ HD,1/2" X 10",GALV,W/SQ NUT STD PKG = 10	EACH	1.07	MB1210
91	7000252	BOLT,MACH,SQ HD,1/2" X 12",GALV,W/SQ NUT STD PKG = 100	EACH	1.09	MB1212
92	7000255	BOLT,MACHINE,SQ HD,5/8" X 6",GALV STL,W/SQ NUT	EACH	0.96	MB5806
93	7000257	BOLT,MACHINE,SQ HD,5/8" X 8",GALV STL,W/SQ NUT	EACH	0.98	MB5808
94	7000258	BOLT,MACHINE,SQ HD,5/8" X 10",GALV,W/SQ NUT	EACH	0.95	MB5810

95	7000259	BOLT,MACHINE,SQ HD,5/8"X 12",GALV,W/SQ NUT	EACH	1.05	MB5812
96	7000260	BOLT,MACHINE,SQ HD,5/8"X 14",GALV,W/SQ NUT	EACH	1.23	MB5814
97	7000261	BOLT,MACHINE,SQ HD,5/8"X 16",GALV,W/SQ NUT	EACH	1.45	MB5816
98	7000262	BOLT,MACHINE,SQ HD,5/8"X 18",GALV,W/SQ NUT	EACH	1.68	MB5818
99	7000263	BOLT,MACHINE,SQ HD,5/8"X 20",GALV,W/SQ NUT	EACH	2.36	MB5820
100	7000264	BOLT,MACH,SQ HD,5/8"X 22",GALV,W/SQ NUT STD PKG = 25	EACH	2.51	MB5822
101	7000267	BOLT,MACHINE,SQ HD,3/4"X 8",GALV STL,W/SQ NUT	EACH	1.95	MB3408
102	7000268	BOLT,MACHINE,SQ HD,3/4"X 10",GALV,W/SQ NUT	EACH	2.13	MB3410
103	7000269	BOLT,MACHINE,SQ HD,3/4"X 12",GALV,W/SQ NUT	EACH	2.14	MB3412
104	7000270	BOLT,MACHINE,SQ HD,3/4"X 14",GALV,W/SQ NUT	EACH	2.23	MB3414
105	7000271	BOLT,MACHINE,SQ HD,3/4"X 16",GALV,W/SQ NUT	EACH	2.54	MB3416
106	7000272	BOLT,MACHINE,SQ HD,3/4"X 18",GALV,W/SQ NUT	EACH	3.35	MB3418
107	7000273	BOLT,MACHINE,SQ HD,3/4"X 20",GALV,W/SQ NUT	EACH	3.62	MB3420
108	7000274	BOLT,MACHINE,SQ HD,3/4"X 22",GALV STL,W/SQ NUT/STD PKG	EACH	4.04	MB3422
109	7000278	BOLT,MACH,SQ HD,7/8"X 12",GALV,W/SQ NUT STD PKG = 25	EACH	5.45	MB7812
110	7000282	BOLT,MACH,SQ HD,7/8"X 20",GALV,W/SQ NUT	EACH	4.67	MB7820
111	7000283	BOLT,MACHINE,SQ HD,7/8"X 22",GALV STL,W/SQ NUT	EACH	4.77	MB7822
112	7000301	BOLT,MACHINE,3/4"X 3",GALV STL,NUT/COTTER KEY	EACH	2.96	B73D-1-3/4
113	7000302	BOLT,MACHINE,1/2",1-1/2",SS,SILICON BRONZE NUT,2 FLAT & 1	EACH	1.59	SBS000302
114	7000303	BOLT,MACHINE,1/2",2",SS,SILICON BRONZE NUT,2 FLAT & 1 BEL	EACH	1.79	SBS000303
115	7000304	BOLT,MACHINE,1/2",2-1/2",SS,SILICON BRONZE NUT,2 FLAT & 1	EACH	1.88	SBS000304
116	7000305	BOLT,MACHINE,1/2",3",SS,SILICON BRONZE NUT,2 FLAT & 1 BEL	EACH	1.96	SBS000305
117	7000308	BOLT,THIMBLE EYE,5/8",10",GALV STL,STRAIGHT,W/SQ NUT,STD	EACH	4.09	J8051
118	7000309	BOLT,THIMBLE EYE,5/8",12",GALV STL,STRAIGHT,W/SQ NUT,STD	EACH	4.33	J8052
120	7000321	NUT,BOLT,5/8",GALV STL,11	EACH	0.23	J8563
121	7000337	WASHER,FLAT,SQUARE,2-1/4" X 2-1/4" X 3/16",FOR 5/8" BOLT,C	EACH	0.24	J1075
122	7000339	WASHER,CURVED,SQUARE,3" X 3" X 1/4",GALV,FOR 5/8" BOLT,S	EACH	0.76	J6823
123	7000340	WASHER,CURVED,SQUARE,4" X 4" X 1/4",FOR 7/8" BOLT	EACH	1.44	1/2/6809
125	7000343	WASHER,BOLT,ROUND,1-3/8"OD,FOR 1/2" BOLT,12 GAUGE,GAL'	EACH	0.11	J1086
126	7000344	WASHER,BOLT,ROUND,1-3/4"OD,FOR 5/8" BOLT,10 GAUGE,GAL'	EACH	0.19	J1088
129	7000355	LOCKNUT,BOLT,SQUARE MF,1/2",GALV STL	EACH	0.23	J8582
130	7000356	LOCKNUT,BOLT,SQUARE MF,5/8",GALV STL	EACH	0.2	J8583
131	7000357	LOCKNUT,BOLT,SQUARE MF,3/4",GALV STL	EACH	0.39	J8584
132	7000358	LOCKNUT,BOLT,SQUARE MF,7/8",GALV STL	EACH	0.64	J8584-1/2
134	7000369	CONDUCTOR,OH WIRE,397,ACSR/BARE,18/1,CHICKADEE	POUND	1.42	Chickadee-NRR
137	7000377	CONDUCTOR,OH WIRE,2,ACSR/BARE,6/1,SPARROW	POUND	1.36	Sparrow-NRR
140	7000384	CONDUCTOR,OH WIRE,6,CU,BARE,SD,SOLID,25 LB SPOOL (315'),	POUND	3.48	6-SD-CU-SPL
141	7000388	CONDUCTOR,OH WIRE,1,CU-SD,XLPE INSULATION,90 DEGREES C	POUND	4.24	7000388
142	7000390	CONDUCTOR,OH WIRE,1,CU-SD/BARE,19 STRAND	POUND	3.92	7000390
143	7000392	CONDUCTOR,#4,SOLID,SD CU,XLPE INSULATED,90-DEG C RATED	POUND	3.55	
145	7000398	CONDUCTOR,OH WIRE,2/0,ACSR/BARE,6/1,QUAIL	POUND	1.38	Quail-NRR
148	7000401	CONDUCTOR,OH WIRE,500,CU-SD,XLPE,80 MIL,90-DEG C RATED,	POUND	3.9	7000401
149	7000403	CONDUCTOR,OH WIRE,300,CU-SD,XLPE INSULATION,90DEGREES	POUND	4.1	7000403
152	7000407	CABLE,OH,QUADRUPLX,2/0 AL W/ #2 ACSR NEUTRAL,XLP,500' F	FOOT	1.26	7000407
153	7000409	CABLE,OH,QUADRUPLX,397 AL W/ 266 ACSR NEUTRAL,XLP,500'	FOOT	3.25	7000409
154	7000410	CABLE,OH,TRIPLEX,#2/0 AL W/#2 ACSR NEUTRAL,XLP,500' REEL	FOOT	0.9	7000410
155	7000412	CABLE,OH,TRIPLEX,397AL,XLP,500' REEL	FOOT	2.59	7000412
156	7000414	CABLE,OH,DUPLX,#4 AL W/#4 ACSR NEUTRAL,XLP,TERRIER,500'	FOOT	0.22	Terrier-CL-XLP
157	7000416	CABLE,OH,TRIPLEX,#2 AL W/ #4 ACSR NEUTRAL,XLP,500' COIL	FOOT	0.41	Cockle-CL-XLP
158	7000417	CONNECTOR,COMPRESSION,TAP-ST LTS-1 SLOT,AL,6-4:12	EACH	0.31	WR9
159	7000418	CONNECTOR,COMPRESSION,TAP-ST LTS-2 SLOT,AL,4-2:12	EACH	0.6	WR139
160	7000420	CONNECTOR,COMPRESSION,TAP,AL,4-2:4-2A,6-4-1STR	EACH	0.37	WR159
161	7000421	CONNECTOR,COMPRESSION,TAP,AL,2:4-2A,6-4-1STR	EACH	0.37	WR189
162	7000422	CONNECTOR,COMPRESSION,TAP,AL,2/0:4-2A,6-4-1STR	EACH	0.64	WR289
163	7000423	CONNECTOR,COMPRESSION,TAP,AL,2/0:2/0A,2/0STR	EACH	0.62	WR279
164	7000424	CONNECTOR,COMPRESSION,TAP,AL,NO STD A:A,4-2:4/0STR	EACH	0.66	WR379
165	7000425	CONNECTOR,COMPRESSION,TAP,AL,NO STD A:A,2/0:4/0STR	EACH	0.77	WR399
166	7000428	CONNECTOR,COMPRESSION,TAP,AL,266-397:4A,6-4CU	EACH	3.18	WR699
167	7000429	CONNECTOR,COMPRESSION,TAP,AL,266-397:2-2/0A,1-2/0C	EACH	3.24	WR719
168	7000430	CONNECTOR,COMPRESSION,TAP,AL,266-397:2/0,2/0-4/0CU	EACH	3.18	WR739
169	7000432	CONNECTOR,COMPRESSION,TAP,AL,266-397:266-397A,300C	EACH	3.83	WR779
170	7000435	CONNECTOR,COMPRESSION,TAP,AL,397:397A,4/0-500CU,AL	EACH	3.34	WR885

171	7000438	CONNECTOR,COMPRESSION,TAP,AL,795:2/0-266A,2/0-300C	EACH	15.43	WR949
172	7000439	CONNECTOR,COMPRESSION,TAP,AL,795:397A,500CU	EACH	11.82	606-82
173	7000441	CONNECTOR,COMPRESSION,TAP,AL,795:795A,750-1000CU	EACH	11.75	607-82
174	7000449	CONNECTOR,COMPRESSION,TAP,AL,266-397:397A,500CU	EACH	2.62	489-82
175	7000455	CONNECTOR,COMPRESSION,TAP,AL,266-397:266A,300CU	EACH	3.64	WR775
176	7000462	CONNECTOR,COMPRESSION,TAP,AL,266-397:2A,1CU	EACH	3.89	491-82
177	7000470	CONNECTOR,COMPRESSION,STIRRUP,266.8-397.5 ACSR,AL	EACH	14.6	WRQ-698
178	7000471	CONNECTOR,COMPRESSION,STIRRUP,2 TO 2/0 ACSR	EACH	6.06	QCO-21
179	7000472	CONNECTOR,COMPRESSION,TPX NEU SPLICE SLEEVE,4 ACSR	EACH	1.25	TR63
180	7000473	CONNECTOR,COMPRESSION,TPX NEU SPLICE SLEEVE,2 ACSR	EACH	1.23	TR64
193	7000518	CONNECTOR,COMPRESSION,TAP,1:6-4,CU	EACH	2.19	304-82
194	7000520	CONNECTOR,COMPRESSION,TAP,2/0-4/0:2/0-4/0,CU	EACH	3.22	CF4040-1
195	7000524	CONNECTOR,COMPRESSION,TAP,2/0-4/0:6-4,CU	EACH	4.12	309-82
196	7000525	CONNECTOR,COMPRESSION,TAP,1:1,CU	EACH	1.79	CF1010-1
197	7000526	CONNECTOR,COMPRESSION,TAP,8-6-4:8-6-4,CU	EACH	1.15	301-82
198	7000531	CONNECTOR,COMPRESSION,SERVICE,INS,2A:2STR,RED:RED	EACH	0.41	ICS73-1
199	7000533	CONNECTOR,COMPRESSION,SERVICE,INS,4A:6STR,ORANGE:BLUI	EACH	0.41	ICS67-1
200	7000534	CONNECTOR,COMPRESSION,SERVICE,INS,4A:4STR,ORANGE:ORA	EACH	0.41	ICS68-1
201	7000535	CONNECTOR,COMPRESSION,SERVICE,INS,2A:4STR,RED:ORANGE	EACH	0.41	ICS72-1
202	7000536	CONNECTOR,COMPRESSION,SERVICE,INS,2A:6STR,RED:BLUE	EACH	0.41	ICS71-1
203	7000541	CONNECTOR,COMPRESSION,SERVICE,BARE,2A:2STR,RED:RED	EACH	0.31	CS73
204	7000544	CONNECTOR,COMPRESSION,SERVICE,BARE,4A:4STR,ORANGE:OF	EACH	0.31	CS68
206	7000548	CONNECTOR,COMPRESSION,2 HOLE TERMINAL,4/0,AL	EACH	2.61	ALS-12
207	7000551	CONNECTOR,COMPRESSION,2 HOLE TERMINAL,350/397A,AL	EACH	5.44	ALS-20
208	7000553	CONNECTOR,COMPRESSION,2 HOLE TERMINAL,397/500,AL	EACH	8.77	ALS-24
209	7000559	CONNECTOR,COMPRESSION,2 HOLE TERMINAL,300-350/266A	EACH	5.4	ALS-18
210	7000560	CONNECTOR,COMPRESSION,1 HOLE TERMINAL,4/0,AL	EACH	2.55	ALS-11
211	7000561	CONNECTOR,COMPRESSION,1 HOLE TERMINAL,2/0,AL	EACH	2.06	ALS-7
214	7000591	CLAMP,HOT LINE,8-2/0,CU	EACH	6.76	C1520
215	7000595	CONNECTOR,BOLTED,2 BOLT,2/0:4-2/0 CU,BRZ	EACH	6.92	2B20W
216	7000596	CONNECTOR,BOLTED,2 BOLT,2/0-4/0:4-4/0 CU,BRZ	EACH	6.51	2B40W
217	7000597	CONNECTOR,BOLTED,2 BOLT,4/0-300:4-300 CU,BRZ	EACH	11.56	2B350W
218	7000598	CONNECTOR,BOLTED,2 BOLT,4/0-500:4-500 CU,BRZ	EACH	15.71	KR5
219	7000601	CONNECTOR,BOLTED,2 BOLT,450-1000:1/0-1000,BRZ	EACH	30.61	KR7
220	7000602	CLAMP,GROUND,TRANSFORMER TANK,BRZ,#8SLD TO 2/0 STR,1/	EACH	2.62	TTC-2
221	7000612	CONNECTOR,BOLTED,TAP LUG,2-350,2-3/4 BOLT,BRZ,1	EACH	6.57	TLS-52
222	7000614	CONNECTOR,BOLTED,TAP LUG,6-250,3-1/8 BOLT,BRZ,1	EACH	5.59	TLS-42-L
229	7000660	CONDUIT,PVC,4"X10',SCH 80,LONG BELL END,GREY	FOOT	2.35	PVC-COND-4X10-80
230	7000661	CONDUIT,PVC,3"X10',SCH 80,LONG BELL END,GREY	FOOT	1.52	PVC-COND-3X10-80
231	7000662	CONDUIT,PVC,2-1/2"X10',SCH 80,LONG BELL END,GREY	FOOT	1.22	PVC-COND-2.5X10-80
232	7000663	CONDUIT,PVC,2"X10',SCH 80,LONG BELL END,GREY	FOOT	0.82	PVC-COND-2X10-80
233	7000664	CONDUIT,PVC,1-1/2"X10',SCH 80,LONG BELL END,GREY	FOOT	0.61	PVC-COND-1.5X10-80
234	7000665	CONDUIT,PVC,1"X10',SCH 80,LONG BELL END,GREY	FOOT	0.42	PVC-COND-1X10-80
235	7000666	CONDUIT,PVC,6"X10',SCH 40,LONG BELL END,GREY	FOOT	2.7	PVC-COND-6X10-40
236	7000668	CONDUIT,PVC,4"X10',SCH 40,LONG BELL END,GREY	FOOT	1.48	PVC-COND-4X10-40
237	7000669	CONDUIT,PVC,3"X10',SCH 40,LONG BELL END,GREY	FOOT	1.06	PVC-COND-3X10-40
238	7000670	CONDUIT,PVC,2-1/2"X10',SCH 40,LONG BELL END,GREY	FOOT	0.88	PVC-COND-2.5X10-40
239	7000671	CONDUIT,PVC,2"X10',SCH 40,LONG BELL END,GREY	FOOT	0.55	PVC-COND-2X10-40
240	7000672	CONDUIT,PVC,1-1/2"X10',SCH 40,LONG BELL END,GREY	FOOT	0.48	PVC-COND-1.5X10-40
241	7000673	CONDUIT,PVC,1-1/4"X10',SCH 40,LONG BELL END,GREY	FOOT	0.4	PVC-COND-1.25X10-40
242	7000674	CONDUIT,PVC,1"X10',SCH 40,LONG BELL END,GREY	FOOT	0.3	PVC-COND-1X10-40
243	7000708	FUSE,SECONDARY,TUBULAR FLAG,120/240V,30A	EACH	6.51	8320
244	7000710	FUSE,LINK,D,1A,REMOVABLE BUTTONHEAD	EACH	6.74	FL3D1
245	7000711	FUSE,LINK,D,2A,REMOVABLE BUTTONHEAD	EACH	5.25	FL3D2
246	7000712	FUSE,LINK,D,3A,REMOVABLE BUTTONHEAD	EACH	5.93	FL3D3
247	7000713	FUSE,LINK,D,5A,REMOVABLE BUTTONHEAD	EACH	5.25	FL3D5
248	7000714	FUSE,LINK,D,7A,REMOVABLE BUTTONHEAD	EACH	5.94	FL3D7
249	7000715	FUSE,LINK,D,10A,REMOVABLE BUTTONHEAD	EACH	5.73	FL3D10
250	7000716	FUSE,LINK,D,15A,REMOVABLE BUTTONHEAD	EACH	5.94	FL3D15
251	7000717	FUSE,TYPE QA,20A,BUTTON HEAD	EACH	3.22	6420-2T
252	7000718	FUSE,TYPE QA,25A,BUTTON HEAD	EACH	3.27	6421-2T
253	7000719	FUSE,TYPE QA,30A,BUTTON HEAD	EACH	3.29	6422-2T

254	7000720	FUSE,TYPE QA,40A,BUTTON HEAD	EACH	3.56	6423-2T
255	7000721	FUSE,TYPE QA,50A,BUTTON HEAD	EACH	3.43	6424-2T
256	7000722	FUSE,TYPE QA,60A,BUTTON HEAD	EACH	4.62	6425-2T
257	7000723	FUSE,TYPE QA,75A,BUTTON HEAD	EACH	5.09	6426-2T
258	7000724	FUSE,TYPE QA,100A,BUTTON HEAD	EACH	6.3	6427-2T
259	7000725	FUSE,TYPE QA,125A,1" BUTTON HEAD	EACH	10.18	6428-2T
260	7000726	FUSE,TYPE QA,150A,1" BUTTON HEAD	EACH	15.41	6429-2T
261	7000727	FUSE,TYPE QA,175A,BUTTON HEAD	EACH	22.58	6724-2T
262	7000728	FUSE,TYPE QA,200A,BUTTON HEAD	EACH	20.51	6725-2T
265	7000734	FUSE,BAY-O-NET,15A,DUAL SENSING	EACH	10.35	4000358C08B
266	7000735	FUSE,BAY-O-NET,25A,DUAL SENSING	EACH	10.35	4000358C10B
267	7000736	FUSE,BAY-O-NET,50A,DUAL SENSING	EACH	10.35	4000358C12B
268	7000737	FUSE,BAY-O-NET,65A,DUAL SENSING	EACH	16.63	4000358C14B
269	7000789	ANCHOR,EXPANSION,10",8 WAY,20000 LB,STEEL	EACH	25.77	1082-3/4
270	7000791	ANCHOR,EARTH,EXPANSION,8",10000 LB,8 WAY,STEEL,5/8" OR :	EACH	10.82	88135
271	7000792	ANCHOR,ROCK,53" ROD,EXPANDING,23000 LB,GALV	EACH	28.67	R353
272	7000793	ANCHOR,ROCK,84" ROD,EXPANDING,23000 LB,GALV	EACH	36	R384
274	7000796	INSULATOR,GUY,STRAIN,5 1/2",20,000#,GRAY,PORCELAIN,ANSI :	EACH	2.66	INSULATOR-GUY-54-3
275	7000797	WIRE,GUY,3/8",EXTRA HIGH STRENGTH,STEEL,TYPE B	FOOT	0.33	3/8-EHS-GUY
276	7000798	WIRE,GUY,7/16",EXTRA HIGH STRENGTH STEEL,TYPE B	FOOT	0.48	7/16-EHS-GUY
277	7000799	LINK\CONNECTING-T:OFFSET,EYE/EYE:1/4"X2"X9-1/2":GALV STL	EACH	3.03	3152
278	7000804	ROLLER,GUY,15/16" HOLE,STEEL	EACH	2.73	28082
280	7000808	ROD,ANCHOR,TWIN EYE,1"X8F,GALV STL	EACH	34.84	5368
281	7000811	ROD,ANCHOR,TWIN EYE,3/4"X8F,GALV STL	EACH	17.68	5358
282	7000812	ROD,ANCHOR,TRIPLE EYE,3/4"X8F,GALV STL	EACH	20.23	J7328
283	7000814	ROD,ANCHOR,TWIN EYE,3/4"X7F,GALV STL	EACH	18.56	J7527
284	7000815	ROD,ANCHOR,TRIPLE EYE,3/4"X7F,GALV STL	EACH	19.24	7557
285	7000817	ROD,ANCHOR,TWIN EYE,5/8" X 8',GALV STEEL	EACH	16.4	ANCHOR-ROD-B-D-8X58
286	7000820	ROD,ANCHOR,TWIN EYE,5/8"X7F,GALV STL	EACH	12.44	5347
288	7000823	ROD,ANCHOR,TWIN EYE,5/8"X6F,GALV STL	EACH	12.01	J7516
289	7000826	SPREADER,GUY,SIDEWALK,GUY PIPE END,2",PIPE,GALV STEEL	EACH	16.42	502
290	7000828	PROTECTOR,GUY,8FT,YELLOW,HDPE,CLAMP TYPE 3/8"-5/8" GUY	EACH	3.15	70-7Y
291	7000829	GRIP,GUY,PREFORMED,3/8",GALV STL	EACH	2.32	GDE-1107
292	7000830	GRIP,GUY,PREFORMED,7/16",GREEN,GALV STL	EACH	4.06	GDE-1108
293	7000831	ATTACHMENT,GUY,GALV,5/8"	EACH	3.66	P134AXW
294	7000833	BAND,POLE,6,000#,7.5" TO 12" POLE,4 SECTION,EACH=SET,SET=	EACH	36.66	J6644
295	7000834	BAND,POLE,4 WAY,LARGE,GALV STL	EACH	45.03	J6684
296	7000836	BAND,POLE,4 WAY,SMALL,GALV STL	EACH	37.45	J6643
297	7000848	CLAMP,SUSPENSION,2-2/0 ACSR,7#8-7#9 AW,AL,NONE	EACH	12.41	HAS-62-N
298	7000852	CLAMP,STRAIGHT LINE,6-1/0 CU,DJ,STL,NONE	EACH	10.82	MDE-40-N
299	7000855	CLAMP,STRAIGHT LINE,4-2/0 CU,DJ,STL,NONE	EACH	11.9	MDE-46-N
300	7000860	CLAMP,STRAIGHT LINE,1-4/0 CU,DJ,MI,NONE	EACH	17.33	MDE-60-N
302	7000865	CLAMP,SIDE OPENING,#4-2/0 ACSR,#4-3/0 AAC,ALUM, .19"- .57",	EACH	7.62	HDSO-57
303	7000879	BRACKET,CUTOUT/ARRESTER,X-ARM,NEMA TYPE B,FOR 8' & 10'	EACH	6.65	C206-0283
304	7000887	CLAMP,GROUND ROD,5/8",8-1/0,HEX,CU,HEAVY DUTY	EACH	1.55	HDC58R
305	7000888	ROD,GROUND,5/8"X8',BONDED COPPER,MINIMUM .010" COPPE	EACH	10.19	615880
306	7000894	BOLT,NEUTRAL SPOOL,DOUBLE UPSET,5/8",12",GALV STL	EACH	5.44	7832
307	7000899	PIN,INSULATOR,ANGLE,5/8",STEEL	EACH	15.8	J215
309	7000903	SCREW,LAG,3/8" X 3",FETTER DRIVE,DRIVE POINT,GALV STL	EACH	0.37	J8743P
311	7000905	EYENUT,OVAl,FOR 5/8" BOLT,GALV,25,000# ULT.	EACH	1.79	EN58
313	7000911	BRACKET,WIRE,1-INSULATOR,LESS INSULATOR,4" X 3-1/4",FOR A	EACH	4.08	337
314	7000912	MOULDING,GROUND,3/4"X8F,PLASTIC	EACH	3.64	96KG-3/4
315	7000913	MOULDING,GROUND,1/2"X 8F,PLASTIC	EACH	1.01	GWM-7100
316	7000924	GRIP,DEAD END,MESSENGER,1/2" ALUMOWELD,7#6,-486" DIAM	EACH	15.55	BG-4168
318	7000926	GRIP,DEAD END,DISTRIBUTION,266	EACH	7.36	DG-4548
319	7000927	GRIP,DEAD END,DISTRIBUTION,2/0,BLUE	EACH	2.78	DG-4545
320	7000928	GRIP,DEAD END,DISTRIBUTION,2,RED	EACH	1.61	DG-4542
321	7000929	GRIP,DEAD END,DISTRIBUTION,4	EACH	1.13	DG4541
323	7000936	WIREHOLDER,SERVICE,MAST BRACKET,3"-4",WITH INSULATOR	EACH	12.08	C207-0076
324	7000940	WIRE,TIE,4,AL/POLY - SD/SOLID	POUND	7	4-POLY-TIE-WIRE
325	7000941	WIRE,#4,AAC,BARE,SOLID,SD,TIE WIRE,25 LB SPOOLS (APPROX. €	POUND	1.98	TW00011
326	7000942	TIE,WRAP,SPOOL INSULATOR,2,RED	EACH	2.17	EZSP-4374

327	7000946	TIE,WRAP,DOUBLE ARM,2,RED	EACH	9.86	DST-0152
328	7000949	TIE,WRAP,DOUBLE ARM,397,GREEN	EACH	13.13	DST-0158
329	7000950	TIE,WRAP,C NECK DESIGN,2,RED	EACH	4.87	WTC-0106
334	7000966	CLAMP,SUSPENSION,266-397 ACSR,AL,NO SOCKET	EACH	16.88	LS-2-N
340	7000986	CLAMP,SIDE OPENING,2/0-556.5 ACSR,3/0-556 AAC,ALUM,.46"-	EACH	13.13	ADEZ-88-N
341	7000987	CLAMP,SIDE OPENING,336.4-874 ACSR,397.5-1000 AAC,ALUM,.6	EACH	16.67	ADEZ-116-N
342	7001032	EYENUT,OVAl,FOR 3/4" BOLT,GALV,25,000# ULT.	EACH	1.93	EN34
343	7001046	SOCKET,EYE,30000 LB,52-3/52-5	EACH	8.95	SE-7
344	7001065	BALL,Y-CLEVIS,30000 LB,52-3/52-5	EACH	8.85	YBC-30
345	7001068	BALL,CLEVIS,30000 LB,52-3/52-5,LONG BODY	EACH	11.39	CB-55L
346	7001069	BALL,CLEVIS,30000 LB,52-3/52-5,SHOR BODY	EACH	6.32	13200
347	7001092	SHACKLE,ANCHOR,40,000 LB,2-3/4" LONG,3/4" PIN AND COTTEF	EACH	7.6	ASH-56
348	7001094	SHACKLE,ANCHOR,30,000 LB,2-3/4" LONG,5/8" PIN AND COTTEF	EACH	5.98	ASH-25
349	7001102	CLEVIS,CLEVIS,30000 LB,STRAIGHT (PINS PARALLEL)	EACH	16.43	CCC-30
350	7001135	SPLICE,KIT,15KV,MOLDED,#2/0 AL OR CU,175 MIL ONLY,JCN & CI	EACH	20.17	5411-20006
351	7001138	SPLICE,KIT,15KV,MOLDED,#2 AL OR CU,175/220 MIL,JCN & CN C.	EACH	20.17	5411-CI-2
353	7001141	TERMINATION,KIT,15KV,#2-4/0 AWG. COLD SHRINK,W/O PIN,JCI	EACH	38.68	7642-S-2
356	7001154	ENCLOSURE,UG,SECTIONALIZING,3 PHASE,200A,18" X 60" X 30",	EACH	403.15	1009000
358	7001157	ENCLOSURE,UG,SECTIONALIZING,200A,1PHASE,23" X 30" X 30",S	EACH	296.69	1007509
359	7001158	SLEEVE,UG,SECTIONALIZING ENCLOSURE,1 PHASE,FITS IIN 70011	EACH	106.47	GS312318MMDMG22X18
361	7001160	PAD,UG EQUIPMENT,1 PH TRANSFORMER,167 KVA OR SMALLER	EACH	133.38	TEPR5WHIATTCB3
362	7001163	CLEANER,CABLE,FAST DRYING,NON-FLAMMABLE,5"X 8" TOWEL	EACH	1	TR-1
363	7001164	LUBRICANT,CABLE,PULLING,5 GALLON PAIL,SUMMER GRADE	EACH	47.75	1-402823
364	7001165	LUBRICANT,UG COND,WIRE PULLING,1 GAL	EACH	12.2	J-128
365	7001166	COMPOUND,SILICON,5.3OZ TUBES FOR USE IN UNDERGROUND	EACH	7.01	SL-5
366	7001167	BRACKET,CONDUIT,STAND OFF,1/4"X1-1/2",BAR STRAP,16"X12"	EACH	12.16	CSB-16-12
371	7001196	COUPLING,CONDUIT,PVC,1"	EACH	0.17	PVC-COUPLING-1-40
372	7001197	COUPLING,CONDUIT,PVC,1-1/2"	EACH	0.92	PVC-COUPLING-1.5-40
373	7001198	COUPLING,CONDUIT,PVC,2"	EACH	0.69	PVC-COUPLING-2-40-LL
374	7001199	COUPLING,CONDUIT,PVC,2-1/2"	EACH	1.2	PVC-COUPLING-2.5-40
375	7001200	COUPLING,CONDUIT,PVC,3"	EACH	4.18	PVC-COUPLING-3-40-LL
376	7001201	COUPLING,CONDUIT,PVC,4"	EACH	5.21	PVC-COUPLING-4-40
378	7001203	COUPLING,CONDUIT,PVC,6",SCH 40/80,LOGLINE	EACH	11.37	E940R/PVC600COUP/6141634
380	7001205	COUPLING,CONDUIT,PVC,2",MALE ADAPTER	EACH	0.44	PVC-ADAPT-2-M-40
381	7001206	ELBOW,CONDUIT,PVC,2"X24",SCH 40,90 DEG,DEEP SOCKET,GRE'	EACH	5.75	PVC-ELB-2-90-24-40
382	7001207	ELBOW,CONDUIT,PVC,2-1/2"X24",SCH 40,90 DEG,DEEP SOCKET,	EACH	7.72	PVC-ELB-2.5-90-24-40
383	7001208	ELBOW,CONDUIT,PVC,3"X24",SCH 40,90 DEG,DEEP SOCKET,GRE'	EACH	7.51	PVC-ELB-3-90-24-40
384	7001210	ELBOW,CONDUIT,PVC,4"X24",SCH 40,90 DEG,DEEP SOCKET,GRE'	EACH	11.86	PVC-ELB-4-90-24-40
385	7001214	ELBOW,CONDUIT,PVC,2"X36",SCH 40,90 DEG,DEEP SOCKET,GRE'	EACH	6.18	PVC-ELB-2-90-36-40
386	7001215	ELBOW,CONDUIT,PVC,2-1/2"X36",SCH 40,90 DEG,DEEP SOCKET,	EACH	9.51	PVC-ELB-2.5-90-36-40
388	7001218	ELBOW,CONDUIT,PVC,4"X36",SCH 40,90 DEG,DEEP SOCKET,GRE'	EACH	15.64	PVC-ELB-4-90-36-40
391	7001223	ELBOW,CONDUIT,PVC,2-1/2"X24",SCH 80,90 DEG,DEEP SOCKET,	EACH	19	PVC-ELB-2.5-90-24-80
392	7001224	ELBOW,CONDUIT,PVC,3"X24",SCH 80,90 DEG,DEEP SOCKET,GRE'	EACH	15.65	PVC-ELB-3-90-24-80
393	7001241	STRAP,CONDUIT,1 HOLE,4"	EACH	2.21	HS-110
394	7001242	STRAP,CONDUIT,1 HOLE,3"	EACH	1.49	HS-108
395	7001243	STRAP,CONDUIT,2",WITH 1-5/8" MOUNTING HOLE	EACH	2.07	H-90-5/8-SPECIAL
396	7001246	STRAP,CONDUIT,1 HOLE,1"	EACH	0.28	7001246
398	7001259	INSULATOR,SECONDARY,SECTIONALIZER,FIBERGLASS,#6-3/0 SOL	EACH	22.71	GSP-51-6F
399	7001267	INSULATOR,SECONDARY,SPOOL,PORCELAIN,BROWN	EACH	0.73	5101B
400	7001268	INSULATOR,SECONDARY,SPOOL 3",PORCELAIN OR POLYETHYLEN	EACH	0.76	INSULATOR-SPL-3-53-2
401	7001269	INSULATOR,PIN TYPE,15KV,POLYMER,F-NECK,1" PIN HOLE,SKY G	EACH	4.66	HPI-15
402	7001271	INSULATOR,PORCELAIN,PIN TYPE,ANSI 55-3,GREY,C-NECK,1" PIN	EACH	2.41	INSULATOR-PIN-C-53-3
403	7001274	INSULATOR,SPACER,AERIAL CABLE,15KV,3-PHASE,RINGLESS	EACH	14.83	RTL15
404	7001280	INSULATOR,SUSPENSION,15 KV,POLYMER,12.5"-13.5" LONG,15,	EACH	8.51	9501U-SI
405	7001331	CONTROL,PHOTOELECTRIC,105/130V,GRAY COVER,ELECTRONIC,	EACH	3.04	7001331
406	7001332	CONTROL,PHOTOELECTRIC,105/285V,BLUE COVER,ELECTRONIC,	EACH	3.39	7090-VPS
407	7001357	CABLE,600V,#12,SOLID,2/C W/GROUND,TYPE UF-B,OH & UG/25I	FOOT	0.37	12-2-UF-W/GROUND
408	7001368	BRACKET,LIGHTING,DIRECTIONAL FIXTURE,GALVANIZED OR AL	EACH	31.77	P200S016C
409	7001369	ARM,MAST,LIGHTING,2" X 6",ALUM,WOOD POLE,MOUNTING,UF	EACH	69.76	85446-001
410	7001370	ARM,MAST,LIGHTING,2" X 8",ALUM,WOOD POLE,MOUNTING,UF	EACH	92.27	U200A080U
416	7001427	CABLE,600V/UG,#2-#2-#4,3/C AAC TRIPLEX,XLP,STEPHENS,NEUT	FOOT	0.65	Stephens-NRR
417	7001428	CABLE,600V/UG,2/0-2/0-#1,3/C AAC TRIPLEX,XLP,CONVERSE,NEI	FOOT	0.9	Converse-NRR

418	7001429	CABLE,600V,4/0-4/0-2/0,3/C AL,TRIPLEX,XLP,SWEETBRIAR,NEUT FOOT	1.22	Sweetbrair
419	7001430	CABLE,UG,15KV,#2 AAC,175MIL,100%JCN,7 STR COMPRESSED,S FOOT	1.4	7001430
421	7001432	CABLE,UG,15KV,#2 AAC,175MIL,33%JCN PARALLEL,7 STR COMPF FOOT	3.78	7001432
423	7001703	BRACKET,INSULATOR/ARRESTER,18",SINGLE,1-1/2",FG ROD,KEYI EACH	22.71	G1MDA318ATB
425	7001710	MOUNT,TRANSFORMER,1-PIECE,3-50KVA MAX,11-1/4" TRANSFC EACH	108.39	DT6C1
426	7001718	CAP,SHORTING,PHOTOCONTROL BASE,LOCKING TYPE EACH	3.37	FPN-1038-1
427	7001719	RECEPTACLE,PEC,REMOTE,125VAC,WITH POLE MOUNT BRACKET EACH	6.74	FPNS47671
428	7001720	ARM,MAST,LIGHTING,2" X 10',ALUM,WOOD POLE MOUNTING,U EACH	162.93	74246-001
429	7001721	ARM,MAST,LIGHTING,2" X 12',ALUM,WOOD POLE MOUNTING,U EACH	195.59	74246-002
430	7001722	ARM,MAST,LIGHTING,2" X 15',ALUM,WOOD POLE,MOUNTING,U EACH	247.74	74212
431	7001727	MOUNT,TRANSFORMER CLUSTER,3,BOLT MNT,3-167KVA,STL EACH	234.65	DT7C1
433	7001733	STRAP,CONDUIT,1 HOLE,2-1/2" EACH	1.09	HS-107
434	7001768	CONNECTOR,COMPRESSION,JUMPER SLEEVE,795 AAC,AL EACH	19.72	HR795-37ALJ
435	7001923	GUARD,WILDLIFE,BUSHING COVER,POLYMER,24/CASE CASE	10.71	21116
443	7001957	CUTOUT,FUSED,15KV,NON-LOADBREAK,W100A TUBE,110KV BIL EACH	55	C710-112L
444	7001959	CUTOUT,FUSED,15KV,LOADBREAK,W100A TUBE,110KV BIL,PORC EACH	102.01	Y11E11BM11
445	7001962	FUSEHOLDER,CUTOUT,15KV,NON-LOADBREAK,200A,12KA INTER EACH	49.14	T710143T
446	7001963	BLADE,CUTOUT,15KV,NON-LOADBREAK,300A EACH	39.95	T710133T
447	7001965	FUSEHOLDER,CUTOUT,15KV,LOADBREAK,200A,10KA INTERRUPT EACH	64.63	278C310A30
448	7001966	BLADE,CUTOUT,15KV,LOADBREAK,300A EACH	54.49	278C310A14
451	7002154	FUSEHOLDER,CUTOUT,15KV,NON-LOADBREAK,100A,10KA INTER EACH	24.59	T710112T
452	7002155	FUSEHOLDER,CUTOUT,15KV,LOADBREAK,100A,10KA INTERRUPT EACH	63.85	278C310A03
458	7002174	PLATE,DOUBLE INSULATOR,AERIAL CABLE,GALV,W/5/8" X 2" CAI EACH	14.29	D-1041
461	7002177	BRACKET,AERIAL CABLE,ANGLE,C-TYPE,18",GALV EACH	61.59	BA3-15
462	7002178	BRACKET,AERIAL CABLE,TANGENT,MESSENGER,GALV,14" SPACIN EACH	37.75	BM-14
464	7002180	BRACKET,SPACER CABLE,ANTI-SWAY,FRONT MOUNT,14" EACH	14.54	BAS-14F
466	7002182	BRACKET,AERIAL CABLE,VERTICAL TAP,E-TYPE,LONG,GALV,14" P EACH	119.03	BV-35
467	7002215	CLAMP,WEDGE,SERVICE,#2- #6 ACSR,RIGID SS BAIL,FOR SERVICE EACH	1.05	7195
468	7002218	CONDUCTOR,OH WIRE,4,CU-SD/BARE,SOLID, (50LB COIL) POUND	3.19	4-SD-CU-COIL
469	7002235	LINK\CONNECTING-T:OFFSET,EYE/EYE:1/4" X 3" X 9-1/2":GALV S EACH	4.32	3151
471	7002244	LINK,EXTENSION,EYE/CLEVIS,3/8"X1-1/4"X14",GALV STL EACH	6.35	J6658
472	7002245	LINK,EXTENSION,EYE/CLEVIS,3/8"X1-1/4"X20",GALV STL EACH	11.39	J6659
473	7002246	TIE,WRAP,SPOOL INSULATOR,4,ORANGE EACH	1.98	EZSP-4372
474	7002248	GRIP,DEAD END,SERVICE,4,ORANGE EACH	0.56	SG-4502
475	7002249	GRIP,DEAD END,SERVICE,2,RED EACH	0.73	SG-4504
476	7002252	STAPLE,MOULDING,ROLLED POINT,FOR 1/2" MOULDING,STL EACH	0.11	C2050209
478	7002254	STAPLE,WIRE,CUT POINT,1-1/2"X1/4"X.148",GALV STL,50# TO B POUND	2.15	J1672
482	7002323	BOLT,CARRIAGE,3/8"X 8",GALV STL,W/SQ SHOULDER & SQ NUT EACH	1.74	J8638
483	7002324	BOLT,CARRIAGE,1/2"X 7",GALV STL,W/SQ SHOULDER & SQ NUT EACH	1.3	8647
491	7002434	COUPLING,CONDUIT,PVC,2",FEMALE ADAPTER EACH	0.46	PVC-ADAPT-2-F-40
493	7002436	COUPLING,CONDUIT,PVC,2-1/2",MALE ADAPTER EACH	0.82	PVC-ADAPT-2.5-M-40
496	7002439	COUPLING,CONDUIT,PVC,4",FEMALE ADAPTER EACH	2.04	PVC-ADAPT-4-F-40
498	7002452	ELBOW,CONDUIT,PVC,2"X36",SCH 80,90 DEG,DEEP SOCKET,GRE EACH	10.95	PVC-ELB-2-90-36-80
501	7002475	ELBOW,CONDUIT,PVC,1-1/4"X24",SCH 40,90 DEG,DEEP SOCKET, EACH	4.36	PVC-ELB-1.25-90-24-40
505	7002516	CONDUCTOR,OH WIRE,4/0,CU-SD/BARE,7 STRAND POUND	3.53	7002516
506	7002524	CONDUCTOR,OH WIRE,4/0,CU-SD,XLPE INSULATION,90 DEGREE POUND	3.68	7002524
507	7002525	CONDUCTOR,OH WIRE,3/0,CU-SD,XLPE INSULATION,90 DEGREE POUND	5.65	7002525
508	7002541	SEALANT,HIGH VOLTAGE,RED,2"X15"X.03" EACH	5.25	S-1085-3-380
511	7002578	BOLT,MACHINE,1/2",2",STAINLESS STEEL EACH	1.15	1/2SSBLT-2
512	7002587	ADAPTER,PIN INSULATOR,1",5/8",5-1/4" EACH	6.08	J2840
515	7003002	SCREW,LAG,1/2" X 4",TWIST DRIVE,DRIVE POINT,GALV STL EACH	0.63	J8754TP
517	7003192	TAPE,VINYL,ELECTRICAL MARKING,BLUE,FLAME RETARDANT,3/4" EACH	3.35	35-BLUE
518	7003193	TAPE,VINYL,ELECTRICAL MARKING,RED,FLAME RETARDANT,3/4" EACH	3.35	35-RED
519	7003194	TAPE,VINYL,ELECTRICAL MARKING,WHITE,FLAME RETARDANT,3/4" EACH	3.35	35-WHITE
520	7003195	TAPE,VINYL,MARKING,3/4",GREEN EACH	3.35	35-GREEN
521	7003199	INSULATOR,GUY,STRAIN,60",FIBERGLASS,36000 LBS EACH	39.65	GCC36-60R
523	7003239	CONNECTOR,COMPRESSION,TAP,AL,4/0-477:6-2/0 EACH	2.8	WR815
524	7003278	LUBRICANT,UG COND,WIRE PULLING,1 QUART SQUEEZE BTL EACH	5.39	1-402813
528	7003298	INSULATOR LINK,GUY STRAIN,12" FIBERGLASS,21,000# MINIMUM EACH	10.95	GCTE21-12
529	7003304	CLAMP,TRUNION,3/0-556 ACSR,AL,NONE EACH	6.28	ACTS-118
534	7003369	CEMENT,PVC CONDUIT,PINT SIZE WITH BRUSH TOP PINT	4.46	VC-9963
535	7003377	CONNECTOR,COMPRESSION,SERVICE,INS,4/0 STR:4/0 STR,PINK:1 EACH	2.52	IKL69

536	7003379	CLEVIS,THIMBLE,5/8" PIN DIA,GALV STL	EACH	6.82	CT-88
537	7003412	ASSEMBLY,DEAD END,APITONG WOOD,5-3/8"X5-1/2"X10',BRAC	EACH	574.12	HD-2DEA-108EB-3GA
539	7003416	CONDUCTOR,OH WIRE,2/0,CU-SD,XLPE INSULATION,90 DEGREE	POUND	3.77	7003416
541	7003425	CABLE,600V/UG,350-350-4/0,3/C AAC TRIPLEX,XLPE,WESLEYAN,	FOOT	2.02	Wesleyan-NRR
548	7003462	HOOK,DRIVE,7/16",4-3/4",GALV STL	EACH	0.75	J3316P
553	7003481	INSERT,BUSHING WELL,FEED THRU,15KV,200A,LOADBREAK,FOR	EACH	141.02	1602A3R
554	7003486	CONNECTOR,COMPRESSION,PIGTAIL SLEEVE,1-2STR/2A	EACH	1.59	PCS71
555	7003487	PIN,TERMINAL,COMPRESSION,2/0 CU/AL,.840 DIE,6" LONG PIN,†	EACH	3.43	X5U2-6
556	7003492	MOUNT,TRANS CLUSTER,3,BLT MT,3-167,AL,12" SPACING	EACH	173.52	11MW-24-L-12
558	7003507	CONNECTOR,BOLTED WEDGE,STIRRUP,795 AAC/AL ONLY	EACH	40.56	795500
559	7003512	SPLICE,TENSION,AUTO,#2 STR ACSR, AAAC, AAC	EACH	5.58	GL-404A
560	7003513	CONNECTOR,AUTOMATIC,TENSION SPLICE,2/0-6/1 ACSR	EACH	13.09	GL-407
561	7003514	SPLICE,TENSION,AUTO,397.5KCM 18/1-STR ACSR	EACH	19.37	7659
562	7003515	SPLICE,TENSION,AUTO,795KCM STR AAC	EACH	46.91	AL55795
563	7003516	CONNECTOR,COMPRESSION,STIRRUP,4-6 ACSR,AL	EACH	5.89	QCO-02
564	7003521	CONNECTOR,COMPRESSION,SERVICE,INS,6A:6STR,BLUE:BLUE	EACH	0.41	ICS64-1
565	7003522	SHAFT,HELIX ANCHOR EXTENSION,SQUARE,7F	EACH	68.07	12657
566	7003523	ADAPTER,GUY ANCHOR,SQUARE SHAFT,1-1/2" DIA X 11" (MIN) L	EACH	25.95	C102-0024
568	7003538	SPLICE,TENSION,AUTO,266.8KCM 18/1-ACSR,336.4KCM AAC	EACH	14.85	GL-410
569	7003554	CONNECTOR,BOLTED,C STYLE WEDGE,397 ACSR OR SPACER:397	EACH	16.55	336718
573	7003575	JUNCTION,UG PRI,FEED THRU,2 POSITION,L/B,15KV,200A	EACH	82.47	164J2-5
574	7003577	JUNCTION,UG PRI,FEED THRU,3 POSITION,L/B,15KV,200A	EACH	98.06	164J3-5
575	7003578	JUNCTION,UG PRI,FEED THRU,4 POSITION,L/B,15KV,200A	EACH	109.84	164J4-5
576	7003579	LINE,PULL,POLY,6500F IN 5 GALLON BUCKET	BUCKET	41.99	BL200BKT
577	7003587	COVER,BUSHING,OVERHEAD EQUIP,POLYETHYLENE,4.75"X9"	EACH	4.69	70380330
578	7003590	CAP,INSERT,INSULATED,15KV,200A,LOADBREAK,WITH COPPER C	EACH	19.05	2151C1
580	7003627	GRIP,DEAD END,AERIAL CABLE,397	EACH	23.36	ND-0121
581	7003628	CONNECTOR,COMPRESSION,1 HOLE TERMINAL,4-7STR/SOL	EACH	2.24	104761-1
582	7003631	BRACKET,CUTOUT/ARRESTER,X-ARM,COMBINATION CUTOUT &	EACH	12.22	PSC2060674
584	7003708	CONNECTOR,COMPRESSION,TAP,AL,4/0:4/0A,4/0 STR	EACH	1.19	507-82
585	7003714	BOX,SPLICE,13" X 24" X 15" DEEP,NON-TRAFFIC,HD POLYETHELE	EACH	60.69	13241011
586	7003718	TAPE,VINYL,ELECTRICAL MARKING,YELLOW,FLAME RETARDANT,	EACH	3.35	35-YELLOW
587	7003720	TUBING,HEAT SHRINK,HEAVY WALL,1000V,.70"-1.96",48"	EACH	31.47	WCSM-51/16-1200-S
589	7003740	PIN,INSULATOR,SHORT SHANK,3/4"X2-3/8"	EACH	16.18	SSP-2
593	7003757	GRIP,DEADEND,COATED,795 AERIAL CABLE AND POLY,RANGE 1.:	EACH	31.81	ND-0125
599	7003768	LINE-DUC,SPACER CABLE,STANDARD/CLIP-ON,15KV,WITH META	EACH	30.07	LINE-DUC
600	7003769	CONNECTOR,COMPRESSION,TAP,AL,NO STD A:A,4/0:4/0STR	EACH	0.73	WR419
601	7003770	PIN,INSULATOR,SCREW,2-1/4"" STEEL	EACH	7.5	J025
602	7003774	BRACKET,CONDUIT,STAND OFF,4-WAY T-BAR,6" DEEP,24" WIDE	EACH	28.73	6-CSO-C-24
604	7003776	STRAP KIT,CONDUIT,2 HOLE,2-1/2",STAND OFF BRACKET	EACH	4.3	STK-2.5
605	7003777	STRAP KIT,CONDUIT,2 HOLE,3",STAND OFF BRACKET	EACH	4.38	STK-3
607	7003785	CONNECTOR,COMPRESSION,1 HOLE TERMINAL,1/0,AL	EACH	2.54	104761-3
608	7003828	CONNECTOR,BOLTED WEDGE,STIRRUP,397 SPACER ONLY	EACH	20.25	336915-1
610	7003833	SPLICE,TENSION,AUTO,#4 STR ACSR, AAAC, AAC	EACH	5.17	GL-402A
614	7003854	TAPE,VINYL CLOTH,DUCT,2" X 60 YD,SILVER	EACH	8.73	3939
615	7003878	ROLLER,GUY,2.4" DIAMETER,13/16" HOLE,STL	EACH	3.57	R-24-6
616	7003882	JUNCTION,UG PRI,FEED THRU,2-POSITION,PORTABLE,LOADBREA	EACH	76.42	164FT
618	7003913	GRIP,DEAD END,SECONDARY,2/0 POLY	EACH	7.39	ND-0112
622	7003937	SPLICE,TENSION,AUTO,#8 SOL CU	EACH	4.82	GL-110
623	7003938	SPLICE,TENSION,AUTO,#6 SOL CU,9-1/2D CW-CU	EACH	3.2	GL-111
624	7003939	SPLICE,TENSION,AUTO,#4 SOL CU,#6 3&7-STR CU	EACH	3.36	GL-112
625	7003940	SPLICE,TENSION,AUTO,#4 7-STR CU,6A CW-CU	EACH	3.92	GL-113
626	7003941	SPLICE,TENSION,AUTO,#2 7-STR CU,4A CW-CU	EACH	5.97	GL-115
627	7003967	CONNECTOR,SPLIT-BOLT,#4 SOL-#4 SOL COPPER	EACH	1.25	4H
628	7003982	ELBOW,CONDUIT,PVC,1-1/2"XSTD,SCH 40,90 DEG,DEEP SOCKET,	EACH	1.68	PVC-ELB-1.5-90-9.540
635	7004028	COVER,SPLICE,SUBMERSIBLE,14-1/0,L - 2-1/4"	EACH	2.1	FSS20
636	7004088	PIN,INSULATOR,STRAIGHT,5/8"X6",STEEL,NYLON THREADED HE/	EACH	3.7	J203Z
637	7004097	TAPE,VINYL,ELECTRICAL MARKING,ORANGE,FLAME RETARDANT,	EACH	3.35	35-ORANGE
638	7004108	SPLICE,TENSION,AUTO,3/0 SOL CU,2/0 7-STR	EACH	11.47	GL-118
649	7004466	WIREHOLDER,SERVICE,HOUSE KNOBS,NYLON	EACH	3.27	J089Z
650	7004467	WIREHOLDER,SERVICE,MAST BRACKET,1-1/4" - 3",NYLON	EACH	5.03	C202-0144
651	7004484	SEALER,CONDUIT,DUCT,5 LB PACKAGE,(5-1 LB BAGS)	PACK	19.48	DX-5

653	7004509	CONNECTOR,COMPRESSION,SERVICE,INS,2/0:2,GRAY:RED	EACH	2.52	IKL45
655	7004572	BRACKET,CONDUIT,STAND OFF,ADJUSTABLE,6" CHANNEL AND P	EACH	14.22	NWA-6-2X
656	7004573	BRACKET,CONDUIT,STAND OFF,ADJUSTABLE,6" CHANNEL AND P	EACH	14.35	NWA-6-2.5X
657	7004574	BRACKET,CONDUIT,STAND OFF,ADJUSTABLE,7" CHANNEL AND P	EACH	14.81	NWA-7-3X
660	7004891	ARRESTER,DISTRIBUTION,UG,ELBOW,18KV,MOV,POLYMER,15.3F	EACH	78.29	215ELA18
661	7004932	MARKER,BURIED CABLE,RED,W/"POWER CABLE" ON MARKER	EACH	2.58	600-RED
667	7005143	CLAMP,WEDGE,SERVICE,#1/0 - #4 ACSR,RIGID SS BAIL,FOR SERVI	EACH	1.72	7187
668	7005154	ASSEMBLY,OUTDOOR TERMINATOR BRACKET	EACH	9.24	16TB-2
669	7005412	ROPE,POLY,MULETAPE,FLAT	FOOT	0.11	1-400331
670	7005415	KIT,IN-LINE FUSE/DISCONNECT,STR #10-4,SOL #12-4	EACH	13.81	SLK-M
675	7005755	BRACKET,CONDUIT,STANDOFF,ADJUSTABLE,8" CHANNEL AND P	EACH	15.38	NWA-8-4X
678	7005817	CONDUCTOR,OH WIRE,4,CU,BARE,SD,SOLID,25 LB. SPOOL (198')	POUND	2.96	4-SD-CU-SPL
679	7005825	DISPENSER,GUY WIRE,SAFETY,STANDARD	EACH	6.05	SGD-0700
680	7005832	SEAL,METER,PADLOCK,BLUE,SUSPECT TAMPERING,SELF LOCKING	EACH	0.18	6170000-3
681	7005833	SEAL,METER,PADLOCK,GREEN,ACTIVE ACCOUNT,SELF LOCKING,	EACH	0.1	6170000-2
682	7005834	SEAL,METER,PADLOCK,RED,NON PAY DISCONNECT,SELF LOCKING	EACH	0.11	6170000-1
683	7005835	SEAL,METER,PADLOCK,YELLOW,VACANT,SELF LOCKING,PLASTIC,	EACH	0.1	6170000-6
684	7005836	SEAL,METER,DEMAND,BLACK,ALL DEPARTMENTS,SELF LOCKING,	EACH	0.08	6302000-8
685	7005837	SEAL,METER,DEMAND,BROWN,ALL DEPARTMENTS,SELF LOCKING	EACH	0.08	6302000-18
688	7005846	SEAL,METER,DEMAND,WHITE,ALL DEPARTMENTS,SELF LOCKING	EACH	0.08	6302000-10
689	7005860	LINK\CONNECTING-T:OFFSET,EYE/EYE:3/8"X2"X9-1/2":	EACH	3.93	3154
690	7005876	KIT,HUB,1-1/4"	EACH	3.44	A7515
691	7005877	KIT,HUB,2"	EACH	2.39	A7517
692	7005878	KIT,HUB,2-1/2"	EACH	2.53	A7518
693	7005879	KIT,HUB,3"	EACH	16.1	56856-2
694	7005884	LUG,SOCKET,SINGLE,UP TO 350MCM,HEX HEAD	EACH	2.8	55890-1
695	7005885	LUG,SOCKET,SINGLE,UP TO 500MCM,HEX HEAD	EACH	25.08	K1540
696	7005886	LUG,SOCKET,TWIN,UP TO 350MCM,HEX HEAD	EACH	7.46	56732-1
698	7005888	PLATE,COVER,HUB OPENING,LARGE	EACH	4	56933
700	7005891	PLATE,COVER,BLANKOUT,4-BLADED,PLASTIC,CLEAR	EACH	1.45	Jan-02
701	7005892	SOCKET\METER-T:1 PH:OHUG:100A:4T:HORN BYPASS:HO/CP	EACH	24.91	U7487-XL-TG-KK
702	7005893	SOCKET\METER-T:1 PH:OHUG:200A:4T:HORN BYPASS:HO/CP	EACH	31.22	U7040-XL-TG-KK
703	7005897	SOCKET\METER-T:3 PH:OHUG:200A:7T:LEVER BYPASS,HO/CP	EACH	116.95	UT-H7213U
705	7005939	TESTSWITCH\INSTRUMENT-T:::10 POLE:4 RED POTENTIAL/6 BLAC	EACH	91.72	110-54583-T
707	7005954	RING,SEALING,METER,SCREW TYPE,ALUMINUM	EACH	3.88	MR-4
708	7005955	SLEEVE,SOCKET METER,DISCONNECT,MYLAR, 1 GROSS EQUALS 1	GROSS	30.21	M5-144
711	7005959	JUMPER,METER,INSULATED,FLAT COPPER,200 AMP	EACH	3.8	9A-1730-2
714	7006003	DISCONNECT,METER,45 DEGREE ROTATION	EACH	1.16	MDD-45
715	7006033	SOCKET\METER-T:1 PH:OHUG:320A:4T:LEVER BYPASS,HO/CP	EACH	100.6	47604-02
722	7006358	PIN,INSULATOR,STRAIGHT,5/8"X8",STEEL,NYLON THREADS	EACH	5.58	J2802Z
723	7006359	PIN,INSLR,POLE TOP,1" THREAD,20" HIGH,(2) 11/16" MOUNTING	EACH	6.72	J1220Z
725	7006439	WASHER,CAST DUCTILE,CURVED,3" X 3" X 3/8",GALV,FOR 3/4" B	EACH	1.4	CW-33-6
726	7006448	FUSEHOLDR,CUTOUT,NON-LDBRK,7.8/13.8KV,100A,KEARNEY	EACH	60.66	184501-00056
727	7006487	CABLE,600V/UG,#6-#6,2/C AAC DUPLEX,XLP,CLAFLIN,NEUTRAL N	FOOT	0.23	CLAFLIN-2500
728	7006516	TAPE,VINYL,CAUTION,6",BLACK ON RED,1000 FT ROLL	EACH	17.57	STRE-61
729	7006533	CLAMP,DEADEND,AUTO WEDGE,AL/CU,#4-#2/0 AL/CU/ACSR/AA	EACH	12.85	GDW-2010
731	7006610	CLAMP,SUSPENSION,2-2/0 ACSR,7#8-7#9 AW,AL,SOCKET	EACH	19.05	HAS-62-S
739	7006706	CLAMP,SUSPENSION,266-397 ACSR,AL,SOCKET	EACH	18.8	HAS-104-S
740	7006708	CLAMP,SUSPENSION,556-954 ACSR,AL,SOCKET	EACH	18.92	HAS-118-S
741	7006732	PAD,UG EQUIPMENT,1 PH,42"X52"X3",COMPOSITE	EACH	102.7	F4252-32CL1325
742	7010045	CLAMP,UNIVERSAL,4 CU,MALEABLE IRON,NONE	EACH	16.23	80500-2000
743	7010059	ELBOW,CONDUIT,PVC,2"XSTD,SCH 40,90 DEG,DEEP SOCKET,GRE	EACH	2.37	PVC-ELB-2-90-9.5-40
750	7010086	ELBOW,CONDUIT,PVC,1"XSTD(5-3/4"),SCH 40,90 DEG,DEEP SOCI	EACH	0.67	PVC-ELB-1-90-9.5-40
754	7010106	CEMENT,PVC CONDUIT,QUART SIZE WITH BRUSH TOP	QUART	7.67	VC-9962
755	7010137	ELBOW,CONDUIT,PVC,2"XSTD,SCH 40,45 DEG,DEEP SOCKET,GRE	EACH	2.16	PVC-ELB-2-45-9.5-40
756	7010141	ANCHOR,HELIX,12",8000 FOOT POUNDS/TORQUE,SOCKET DRIVE	EACH	44.58	7010141-ANCHOR
757	7010142	ANCHOR,HELIX,8",8000 FOOT POUNDS/TORQUE,SOCKET DRIVE,	EACH	26.22	7010142-ANCHOR
758	7010144	ANCHOR,HELIX,TWIN,SQUARE SHAFT,8"/10",5F ROD	EACH	83.41	012642AE
759	7010166	SWITCH,REGULATOR BYPASS,15KV,600A	EACH	1055.75	125821-20
760	7010199	BUSHING,PARKING STAND,INSULATING,SINGLE,15KV,200A,LOAC	EACH	30.06	161SOP
762	7010208	INHIBITOR,CONNECTOR,CASE OF 25 - 8 OZ. BOTTLES	CASE	8.38	30584-50
763	7010214	BRACKET,3-PHASE ARRESTOR/CUTOUT,ZERO DEGREES,W/DUCTI	EACH	113.33	3SBM3618CTB

764	7010217 SWITCH,DISC,UA,15KV,900 AMP,110KVBIL,40KA MOM,WITH 4-1 EACH	167.57	M3D-96BC
765	7010259 WEATHERHEAD,CONDUIT,3",ALUMINUM EACH	23.21	7010259
767	7010268 CONNECTOR,COMPRESSION,TAP,4-2:4-2,CU EACH	1.43	302-82
772	7010291 SPLICE,UG COND,#2/0,600V EACH	8.02	FSK- 2/0
773	7010292 SPLICE,UG COND,#4/0,600V EACH	9.27	FSK -4/0
775	7010296 WEATHERHEAD,CONDUIT,2-1/2",ALUMINUM EACH	17.68	SH-107
777	7010314 CONNECTOR,COMPRESSION,1 HOLE TERMINAL,6 STR,AL EACH	3.91	30426-2
779	7010316 SCREW,LAG,1/4" X 2",GIMLET POINT,GALV STL EACH	0.21	J8722
781	7010324 SEALER,CONNECTION,UNDERGROUND,3-3/4"X1/8"X10F ROLL EACH	15.88	104742
790	7010443 CLEVIS,THIMBLE,3/4" PIN DIA,GALV STL EACH	9.41	CT-88-H
791	7010444 BRACE,CROSSARM,60" SPAN,30" DROP PAIR	12.12	BAF-6030
794	7010572 COVER,COMPRESSION CONNECTOR,"D" DIE,2-1/2" EACH	0.42	C7
795	7010604 CONNECTOR,COMPRESSION,SERVICE,INS,2/0:2/0,GRAY:GRAY EACH	2.52	IKL47
799	7010691 SOCKET\METER-T:ITR:OHUG:20A:13T:::PREWIRED W/10POLE TE EACH	174.07	STS13-1C386
801	7010693 SOCKET\METER-T:ITR:OHUG:20A:6T:::PREWIRED W/6POLE TEST EACH	118.74	STS6-1C386
802	7010697 SOCKET\METER-T:3 PH:OHUG:320A:7T:LEVER BYPASS::W/ HUB (EACH	201.52	UT-H733OU
804	1187901 SPLICE,CMPSN,1/0 STR CU,NON-TENSION, TINNED CU,USES KEAL EACH	2.38	PC-1/0
805	7003506 CONNECTOR,BOLTED WEDGE,STIRRUP,397-18/1 ACSR,AL, ONLY EACH	41.85	336875
807	7001311 LUMINAIRE,COBRA,HPS,200W,120V,22000 LUMENS,TYPE III,AUT EACH	99.94	M2RR20S1N2GMS4
809	7001307 LUMINAIRE,COLONIAL,HPS,100W,120V,9500 LUMENS,TYPE III,NI EACH	119.83	T10R10S1N2AMS3BLLT
810	7001312 LUMINAIRE,COBRA,HPS,100W,120V,9500 LUMENS,TYPE II,NPF,P EACH	71.52	M2RR10S1N2AMS2
811	7001328 LUMINAIRE,FLOOD,HPS,400W,120/208/240/277V,50000 LUMEN EACH	164.59	CFB40S1N2AMS58
818	7001916 REFRACTOR,LIGHTING,COBRA,SMALL,ACRYLIC EACH	23.26	35-130707R03
819	7003307 LUMINAIRE,OPEN BOTTOM,HPS,100W,120V,TYPE V,NPF,HEAD C EACH	33.74	SAH10S1N24
820	7001326 LUMINAIRE,OPEN BOTTOM,HPS,100W,120V,9500 LUMENS,TYPE EACH	66.59	SAM10S1N54LV5ALC185
824	7001339 OPTICAL ASSEMBLY,OPEN BOTTOM,TYPE V,PLASTIC ***FOR MA EACH	11.92	SA-V5AL
825	7001319 LUMINAIRE,COMTEMPARY,HPS,70W,120V,5800 LUMENS,NPF,TY EACH	303.88	DSMRO7S1A2GMC3BL
826	7001320 LUMINAIRE,CONTEMPARY,HPS,100W,120V,NPF,TYPE III,9500 LU EACH	303.88	7001320
827	7001321 LUMINAIRE,CONTEMPORARY,HPS,22000L,200W,NPF,TYPE III,12I EACH	303.88	DSMR20S1A2GMC3BL
828	7001322 LUMINAIRE,CONTEMPARY,HPS,400W,120V,HPF,TYPE III,50000 LI EACH	309.4	DSMR40S1A2GMC3BL
829	7003896 LUMINAIRE,CONTEMPARY,HPS,400W,277V,HPF,TYPE III,50000L, EACH	309.4	DSMR40S4A2GMC3BL
836	7001324 LUMINAIRE,ACORN,HPS,70W,120V,TYPE V,NPF,W/9" TRADITION EACH	284.19	AM9X07S1N21CASBLCK
837	7001325 LUMINAIRE,ACORN,HPS,100W,120V,TYPE V,NPF,W/9" TRADITIO EACH	234.67	AM9X10S1N21CASBLCK
840	7006280 LUMINAIRE,FLOOD,MH,1000W,120/208/240/277V,107800 LUM EACH	300.34	7006280
841	7001309 LUMINAIRE,COLONIAL,HPS,50W,120V,4000 LUMENS,TYPE III,NP EACH	158.46	T10R05S1N2AMS3BLLT
842	7001308 LUMINAIRE,COLONIAL,HPS,70W,120V,5800 LUMENS,TYPE III,NP EACH	118.6	T10R07S1N2AMS3BLLT
843	7010325 LUMINAIRE,COBRA,HPS,200W,240V,22000 LUMENS,TYPE III,NPF EACH	99.94	M2RR20S3N2GMS3
844	7001310 LUMINAIRE,COBRA,HPS,400W,120V,50000 LUMENS,TYPE III,AUT EACH	145.5	MSRL40S1A22RMS3
845	7001313 LUMINAIRE,COBRA,HPS,70W,120V,5800 LUMENS,TYPE II,NPF,AC EACH	69.86	M2RR07S1N2AMS3
847	7001314 LUMINAIRE,COBRA,HPS,50W,120V,4000 LUMENS,TYPE II,ACRYLI EACH	104.36	M2RR05S1N2AMS2
848	943101 SWITCH,GRP OP,15KV,900A,LB,HORZ MT,UPRIGHT,SIDE OPENIN EACH	3116.29	AR113F5HLP
849	7001304 LUMINAIRE,COLONIAL,HPS,100W,120V,NPF,TYPE V,VERTICAL LA EACH	114.92	T10C10S1N2AMS5BLLT
850	475294 ROD,ANCHOR,3/4" X 7',GALVANIZED,THREADED 1" ON BOTH EN EACH	18.72	ANCHOR-ROD-SC-D-7X34
853	943086 ARM,DEADEND,ASSEMBLY,FG,8FT,3750 LBS WORKING,7500 LBS EACH	172.93	0943086-KU-DEADEND
854	943260 CLIP,GROUND WIRE,#4,COPPER,WITH LOCKING TAB,FOR ATTACH EACH	0.56	5730-1
856	1163986 INSULATOR,GUY STRAIN,24",FIBERGLASS,21,000# MINIMUM BR EACH	13.43	GS21024CP
857	7002483 INSULATOR,GUY,STRAIN,78",FIBERGLASS,21,000# MINIMUM BR EACH	21.45	GS21078CP
858	7010711 ARM,DEADEND ASSEMBLY,FG,8FT,5000 LBS WORKING,10000 LB EACH	197.52	7010711-KU-DEADEND
861	7001285 INSULATOR,SUSPENSION,10",PORCELAIN,30,000# ULT.,5-3/4"X 1 EACH	18.97	5960A-70
864	7001726 ADAPTER,LIGHTING,SLIP FITTER EACH	20.49	SFADB-001
865	7006156 TAPE,VINYL,ELECTRICAL MARKING,BROWN,FLAME RETARDANT,: EACH	3.35	35-BROWN
866	7006551 BAND,POLE,10,000#,7" TO 10" POLE,4 SECTION,EACH=SET,SET=(EACH	61.25	3105.5
867	7006552 BAND,POLE,10,000#,9" TO 12" POLE,4 SECTION,EACH=SET,SET=(EACH	66.4	3105.6
868	7006553 BAND,POLE,10,000#,11" TO 14" POLE,4 SECTION,EACH=SET,SET- EACH	70.27	3105.7
869	7010125 BRACKET,LIGHTING,SINGLE DIR. FIX. ORN POLE,24",AL,4-1/2" DIA EACH	139.23	FLA12-1
870	7010173 INSERT,BUSHING WELL,15KV,200A,LOADBREAK,COPPER CONTACT EACH	21.41	1601A4
871	7010269 STARTER,LIGHTING,HPS,50W-400W,PLUG-IN TYPE,GE EACH	21.54	35-216710R01
873	931486 CONNECTOR,#12-350KCM,6 POSITION,SET SCREW,NON-SUBMEI EACH	6.67	931486
874	931494 CONNECTOR,#12-350KCM,4 POSITION,SET SCREW,NON-SUBMEI EACH	4.65	931494
875	1243827 BOX,SPLICE,12"X 20"X 12",NON-TRAFFIC,HD POLYETHELENE,W/I EACH	40.42	12201010
876	7010251 INSULATOR,SUSPENSION,10",PORCELAIN,CHOCOLATE/BROWN,:2 EACH	16	8200
877	7000827 SPREADER,GUY,SIDEWALK,GUY POLE END,2",PIPE,GALV STEEL EACH	14.24	501

878	3000607	PAD,FIBERGLASS,TRANSFORMER,LARGE,42" X 48" X 16" HEIGHT, EACH	267.82	GS424816AB2MG-26X12
900	7000502	CONNECTOR,COMPRESSION,SERVICE,BARE,2/0 STR:2/0 STR,GRA EACH	2.19	36711
901	3001889	CONNECTOR\COMPRESSION-T.SERVICE.1/0 STR-4 STR.INSULATE EACH	0.41	ICS76-1
902	3001891	CONNECTOR\COMPRESSION-T.SERVICE.1/0 STR-2 STR.INSULATE EACH	0.41	ICS77-1
903	3001885	CONNECTOR\COMPRESSION-T.SERVICE.1/0 STR-4 STR.BARE.YELI EACH	0.31	CS76
904	3001890	CONNECTOR\COMPRESSION-T.SERVICE.1/0 STR-2 STR.BARE.YELI EACH	0.31	CS77
908	7000501	CONNECTOR,COMPRESSION,SERVICE,BARE,4/0 STR:4/0 STR,PINI EACH	1.34	KL69-1
910	7003695	CONNECTOR,COMPRESSION,SERVICE,INS,6A:8SOL,BLUE:BROWN EACH	0.41	ICS62-1
911	1156927	CAPACITOR,50KVAR,2400V,60HZBIL,75KVBIL,10KA FAULT DUTY,; EACH	373.49	CEP120B1F9
912	7004765	CAPACITOR,100KVAR,2400V,60HZ,75KVBIL,10KA FAULT DUTY,1- EACH	417.69	CEP131B1FB
913	7004766	CAPACITOR,150KVAR,2400V,60HZ,75KVBIL,10KA FAULT DUTY,1- EACH	446.42	CEP132B1FB
914	7004760	CAPACITOR,100KVAR,7200V,60HZ,95KVBIL,10KA FAULT DUTY,1- EACH	405.54	CEP131B6FB
915	7004761	CAPACITOR,150KVAR,7200V,60HZ,95KVBIL,10KA FAULT DUTY,1- EACH	458.58	CEP132B6FB
916	7004762	CAPACITOR,200KVAR,7200V,60HZ,95KVBIL,10KA FAULT DUTY,1- EACH	499.46	CEP140B6FB
917	7004763	CAPACITOR,300KVAR,7200V,60HZ,95KVBIL,10KA FAULT DUTY,1- EACH	618.8	CEP160B6FB
918	7004764	CAPACITOR,400KVAR,7200V,60HZ,95KVBIL,10KA FAULT DUTY,1- EACH	687.31	CEP170B6FB
919	1157035	CAPACITOR,100KVAR,7960V,60HZ,95KVBIL,10KA FAULT DUTY,2- EACH	458.58	CEP131A8FB
920	1157043	CAPACITOR,200KVAR,7960V,60HZ,95KVBIL,10KA FAULT DUTY,2- EACH	563.55	CEP140A8FB
921	1157051	CAPACITOR,300KVAR,7960V,60HZ,95KVBIL,10KA FAULT DUTY,2- EACH	637.59	CEP160A8FB
922	1157060	CAPACITOR,400KVAR,7960V,60HZ,95KVBIL,10KA FAULT DUTY,2- EACH	720.46	CEP170A8FB
924	1156686	BOX,JUNCTION,CAPACITOR,WITH LEADS OF 3'-4'-6' CABLE EACH	386.75	CJB3777N-NN-NN-AN
925	7006210	SENSOR,CURRENT,15KV,LINE POST,60A:1V RATIO,FOR CURRENT EACH	463.16	1301-17A-45142
933	7010131	ARRESTER,DISTRIBUTION,UG,PARKING STAND,10KV,MOV,POLYM EACH	123.98	167PSA-10
934	7001812	CONDUCTOR,OH WIRE,4,CW,BARE,SOLID,40% CONDUCTIVITY,5C POUND	3.59	4-SOLID-CW-COIL-50
935	3002382	GUARD,WILDLIFE,BUSHING SHIELD,POLYMER,DIAMETER - 10.25' EACH	9.62	W-1525R
936	7001095	SHACKLE,ANCHOR,25,000 LB,2-3/16" LONG,5/8" PIN AND COTTE EACH	5.22	ASH-45
939	3002375	DEADEND,TENSION,AUTO,FLEXIBLE BAIL#4 SOL CU,#6 3&7-STR C EACH	8.17	GD-112
940	3002376	DEADEBD,TENSION,AUTO,FLEXIBLE BAIL,#4 & #2 STR ACSR,AAAC EACH	8.54	GD-4042A
941	7000143	BRACE,CROSSARM,72" SPAN,36" DROP PAIR	24.54	PSCRA7236
942	7001155	SLEEVE,UG,SECTIONALIZING ENCLOSURE,3 PHASE,FITS IIN 70011 EACH	149.23	GS611818MMDMG55X10
943	7006668	SPLICE,TENSION,AUTO,#2 SOL CU,ALSO #4 CU (3-STR ONLY) SEE EACH	5.85	GL-114
944	1164451	TAPE,ELECTRICAL,VINYL,1-1/2"X 8.5 MIL X 66",BLACK,ALL WEATH EACH	2.98	37-08180
945	3002934	CONDUCTOR,OH WIRE,4,CW,BARE,SOLID,40% CONDUCTIVITY,25 POUND	3.93	4-SOLID-CW-SPOOL
946	3000021	CONNECTOR,#4-#14,3 POSITION,SET SCREW,NON-SUBMERSIBLE EACH	4.57	SLC3-0C-P
948	1163678	CLEVIS,INSULATOR,SWINGING,#1 WIRE HOLDER 3/8" PIN DIA,CL EACH	1.83	1948C
949	1163686	CLEVIS,SWINGING,BRACKET,SINGLE SPOOL, LESS INSULATOR EACH	3.13	352
950	7000241	BOLT,EYE,OVAL,5/8",.16",GALV,W/SQ NUT,STD PKG = 25 EACH	3.7	29966
952	3003216	CLAMP,TAP,HOT LINE,4/0-#4 MAIN,2-8 TAP,DUAL RATED,W/INH EACH	8.41	SCH-40-P
953	3003217	CLAMP,TAP,HOT LINE,795-336KCM MAIN,1/0-8 TAP,DUAL RATEI EACH	15.16	SCH-6362-P
955	3003856	CONTROL,CAPACITOR,MULTI-FUNCTION EACH	2236.96	238160-J63M7N1P0
956	1244260	JUNCTION,LOADBREAK,15KV,4-WAY,4 POSITION 14.4 KV PHASE EACH	170.53	164J4
957	434035	SPLICE,HEAT SHRINK,500-600 MCM,15KV 1/C CABLE,FOR JACKET EACH	224.6	HVS-1543S-LGE
958	7005839	SEAL,METER,PADLOCK,ORANGE,ALL DEPARTMENTS,METER DEP' EACH	0.11	6170000-4
959	7005843	SEAL,METER,DEMAND,ORANGE,ALL DEPARTMENTS,SELF LOCKIN EACH	0.08	6302000-4
960	3004214	LABEL,KU LOGO,RED LETTERS ON WHITE MYLAR,250 PER ROLL,F ROLL	57.64	3004214
961	531843	LABEL,LG&E LOGO,.3/4" X 1-1/2",GREEN LETTERS ON WHITE MY ROLL	50.02	Y1453310
962	3004354	LABEL\SELF-ADHESVE.480 VOLTS.RED LETTERS ON WHITE MYLAI ROLL	52.91	3004354
963	1243443	DEADEND,ANCHOR,AUTOMATIC,12.5M AW & 3/8" EHS GALV,SH EACH	13.53	5202
964	7002338	CONNECTOR,COMPRESSION,PARTIAL TENSION SPLICE,795 AERI# EACH	20.76	HR556-267AJ
965	3004216	CABLE,UG,15KV,1000KCM AAC,175MIL,17%JCN,PARALLEL,61 STI FOOT	17.13	3004216
966	3004220	CABLE,UG,15KV,350KCM CU,220MIL,JCN(6@#14),PARALLEL,37 S FOOT	19.52	3004220
967	1185901	BRACKET,FLOODLIGHT,DOUBLE-UP OR DOUBLE DOWN,AL,W/DC EACH	102.71	DUDD-16-A
968	7001713	WIRE,AERIAL SPACER CABLE,15KV,795,AL,POLY,19 STRAND,COM FOOT	2.32	7001713
969	7000394	CONDUCTOR,OH WIRE,795,ALL AL/BARE,37,ARBUTUS POUND	1.59	
973	3004218	CABLE,UG,15KV,1/0 CU,220MIL,JCN(6@#14),PARALLEL,19 STR CI FOOT	7.81	3004218
974	3004219	CABLE,UG,15KV,4/0 CU,220MIL,JCN(6@#14),PARALLEL,19 STR CI FOOT	11.79	3004219
975	3004221	CABLE,UG,15KV,500KCM CU,220MIL,JCN(6@#14),PARALLEL,37 S FOOT	25.47	3004221
981	3005447	LUMINAIRE,FLOOD,PULSE START MH,350W,120/208/240/277V,; EACH	195.36	3005447
982	3005448	LUMINAIRE,FLOOD,PULSE START MH,150W,120/208/240/277V,; EACH	186.49	3005448
983	3005449	LAMP,PULSE START,MH,150W EACH	19.78	MP150/U/3K
984	3005450	LAMP,PULSE START,MH,MOGUL BASE,350W EACH	23.21	M350X/U/PS/BT28
985	3005451	LUMINAIRE,CONTEMPARY,MH,PULSE START 350W,HPF,TYPE III,; EACH	314.93	3005451

986	3005453	LUMINAIRE,CONTEMPORARY,MH,PULSE START,350W,HPF,TYPE	EACH	314.93	3005453
989	7006519	ARRESTER,STATION,15KV,12.7KV MCOV,POLYMER.6.3 KJ/KV MC	EACH	375.7	3EL1 015-1PC21-4YH5
990	7006035	ARRESTER,STATION,54KV,42KV MCOV,POLYMER	EACH	544.77	3EL2 054-2PF31-4NH5
991	7004751	ARRESTER,STATION,60KV,48KV MCOV,POLYMER	EACH	563.55	3EL2 060-2PF31-4NH5
992	7006504	ARRESTER,STATION,108KV,84/88KV MCOV,POLYMER	EACH	1042.02	3EL2 108-2PM31-4NH5
993	7006216	ARRESTER,STATION,120KV,98KV MCOV,POLYMER	EACH	1179.04	3EL2 120-2PM31-4NH5
994	3005665	ARRESTER,STATION,258KV,209KV MCOV,POLYMER	EACH	2873	3EL2 258-2PM32-4NH5
999	3005862	KU SERVICE STORM KIT	EACH	224.67	
1000	3005698	LUMINAIRE,FLOOD,MH,1000W,480V,107800 LUMENS,7X7,AUTC	EACH	270.73	
1004	7010727	KIT,STORM,FOR KU OVERHEAD,TO BE ISSUED DURING A LEVEL 3	EACH	47994.2	KU STORM KIT
1005	3006388	SPLICE.TENSION.AUTO.REDUCING.BI-METAL.#4 STR CU & #6 CW	EACH	11.77	GL4042A13
1006	7004102	INSULATOR,LINE POST,69KV,HORIZ. EYE,2 HOLE,POLYMER	EACH	185.85	P250024S0020
1007	3002008	BACKFILL,FORM,2-PART KIT,FOR BACKFILL TO STRAIGHTEN AND	KIT	45.9	PS215W
1008	7001248	INSULATOR,LINE POST,69KV,HORIZ. CLAMP,POLYMER	EACH	197.04	P250024S1020
1009	7006174	ARRESTER,INTER,30KV,24.4 MCOV,POLY,TRIPOD BASE/TOP	EACH	329.27	303024-3001
1011	7010761	ASSEMBLY.CROSS ANGLE.3" X 3 1/2" X 5/16".STEEL.13' LONG.10	EACH	215.48	C4432.3B
1012	7000146	BRACE,X,COMPLETE,9',WOOD,9' POLE SPACING.10' CROSSARM I	PAIR	563.55	2094-9-0-CPT
1013	7001744	BRACE\KNEE-T:2-3/4"X3-3/4"X10'-6-1/16":WOOD:10'POLE SPAC	EACH	245.59	C3901.1C-126
1014	7000155	BRACE\KNEE-T:2-3/4"X3-3/4"X13'-4":WOOD:21' POLE SPACING.	EACH	313.1	C3901.1C-160
1015	7000151	BRACE\KNEE-T:2-3/4"X3-3/4"X7'-10":WOOD:10'6" POLE SPACIN	EACH	185.42	C3901.1C-94
1016	7001743	BRACE\KNEE-T:2-3/4"X3-3/4"X9'3-1/2":WOOD:14'6" POLE SPAC	EACH	149.06	C3901.1C-111.5
1017	7000147	BRACE\X COMPLETE-T:3-3/4"X5-3/4":WOOD:10'6" POLE SPACIN	PAIR	651.95	2094-10-6-CPT
1018	7000148	BRACE\X COMPLETE-T:3-3/4"X5-3/4":WOOD:14'6" POLE SPACIN	PAIR	656.37	2094-14-6-CPT
1019	7004514	BRACE\X COMPLETE-T:3-3/4"X5-3/4":WOOD:20'0" POLE SPACIN	PAIR	958.04	2094-20-CPT
1020	7006674	BRACKET,BAY,STAT,7FL,2-1/2"X2-1/2"X1/4",GV ST,2PC	EACH	309.4	AS2613-F4
1021	7001021	BRACKET\STATIC,-T:12"	EACH	23.5	PSC2060820
1022	7001020	BRACKET\STATIC-T:3/4"X14"	EACH	25.12	PSC2060821
1023	7000885	CABLE,GROUND,69KV,INSULATED,#2 SOLID CU,28'-8" LONG,550	EACH	88.09	GW02CU550B-00
1024	7000170	CLAMP,ARM,4-3/4"X5-3/4"	EACH	50.83	B2351.1B
1025	7000169	CLAMP,ARM,5-1/2"X7-1/2"	EACH	47.91	D6351.1
1026	7006705	CLAMP,STRAIN,266 TO 397 ACSR,QUADRANT,4-BOLTS,AL,W/SOC	EACH	42.83	SD-86-S
1027	7010156	CLAMP,STRAIN,4-4/0,3/8"-7/16" EHS,7 STRAND,CU,DE,MAL IROI	EACH	39.25	SWDE-55-N
1028	7006707	CLAMP,STRAIN,556-954 ACSR,DE,AL,SOCKET	EACH	63.56	SD-112-S
1029	7003877	CLAMP,SUSPENSION,3/8",7/16" HS STEEL,7 STRAND,DUCTILE IRC	EACH	32.73	MS-70-S
1030	7010705	CLAMP,SUSPENSION,ALUMINUM SOCKET,TO BE USED ON 266.8	EACH	24.87	HAS-139-S
1031	7001815	CONDUCTOR,OH WIRE,2,CW,BARE,SOLID,40% CONDUCTIVITY,5C	POUND	3.6	2-SOLID-CW-COIL-50
1032	7000114	CROSSARM,WOOD,5-1/2"X7-1/2"X22F,A-3-10.0	EACH	300.39	22'-CROSSARM
1033	7000122	CROSSARM,WOOD,5-1/2"X7-1/2"X30F,A-3-10.5	EACH	405.48	30'-CROSSARM
1034	7000687	FRAME SET,1 POLE STRUCTURE,Z-1-C-4.5-5.3-6.5-FG	EACH	983.45	C4432-L
1036	7003144	INSULATOR,LINE POST,138KV,HORIZ,2.5"ROD,2 HOLE,GAIN	BASE	246.38	P250048S0020
1039	7006259	INSULATOR,SUSP,161KV DE,POLY,25K LB,Y-CLEVIS/BALL	EACH	102.02	S025066S2010
1040	7004562	INSULATOR,SUSP,69KV DE,POLY,25K LB,Y-CLEVIS/BALL	EACH	67.53	S025032S2010
1041	7001266	INSULATOR,SUSP,69KV SUSP,POLY,25K LB,Y-CLEVIS/BALL	EACH	66.52	S025027S2010
1042	7006475	PLATE,DBL ARM,DA,4"X1/2"X23"	EACH	44.2	D3601.2B
1043	7006725	ROD,ARMOR,PREFORMED,266	EACH	9.4	AR-0127
1044	7010009	ROD,ARMOR,PREFORMED,3/8",GALV	EACH	4.87	AR-1130
1045	7010010	ROD,ARMOR,PREFORMED,397.5 ACSR 26/7,DIA MIN .783 MAX .	EACH	19.54	AR-0132
1046	7010130	ROD,ARMOR,PREFORMED,556	EACH	22.92	AR-1035
1047	7005153	ROD,ARMOR,PREFORMED,7/16,GALVANIZED	EACH	7.13	AR-1133
1048	7010688	ROD\ARMOR-T:PREFORMED:795 ASCR 26/7:DIA,1.099 MAX. 1.1:	EACH	40.1	AR-0141
1049	7002070	WEIGHT,FLANGE,50 LBS	EACH	83.7	
1051	7001806	WIRE,STATIC,7-#8,ALWD	FOOT	0.41	
1052	7001807	WIRE,STATIC,7-#9,ALWD	FOOT	0.32	
1054	940751	INSULATOR,GUY STRAIN,78",FIBERGLASS,21,000# MINIMUM	BR	25.71	GS30078CC1
1055	1197560	WIRE,#6,7STR,BARE CU,HD,315' PER SPOOL,SEE WIRE SPECIFICA	FOOT	0.3	6-7STR-HD-CU-SPL
1057	3006978	CAP,END SEALING,CABLE OD RANGE .65"-1.25",HEAT SHRINK,FO	EACH	2.77	ESC-3/A
1058	3006979	CAP,END SEALING,CABLE OD RANGE 1.08"-1.94",HEAT SHRINK,F	EACH	4.11	ESC-4/A
1059	3006980	CAP,END SEALING,CABLE OD RANGE 1.38"-2.58",HEAT SHRINK,F	EACH	6.91	ESC-5/A
1060	3007400	LUMINAIRE,CONTEMPORARY,MH,PULSE START 150W,HPF,TYPE	EACH	248.63	3007400
1062	7001924	GUARD,WILDLIFE,STINGER COVER,POLYMER,3/8",50' COIL	ROLL	176.69	R-38-50SC
1063	3007348	FUSE\POWER.REFILL.SMU-20,10A,E-SPD,STD 153-2.14.4KV.S&C	EACH	122.32	612010
1064	3007349	FUSE\POWER.REFILL.SMU-20,15A,E-SPD,STD 153-2.14.4KV.S&C	EACH	122.32	612015

1065	3007350	FUSE\POWER.REFILL.SMU-20,20A,E-SPD,STD 153-2.14.4KV.S&C I EACH	122.32	612020
1066	3007351	FUSE\POWER.REFILL.SMU-20,25A,E-SPD,STD 153-2.14.4KV.S&C I EACH	122.32	612025
1067	3007352	FUSE\POWER.REFILL.SMU-20,30A,E-SPD,STD 153-2.14.4KV.S&C I EACH	122.32	612030
1068	3007353	FUSE\POWER.REFILL.SMU-20,40A,E-SPD,STD 153-2.14.4KV.S&C I EACH	122.32	612040
1069	3007354	FUSE\POWER.REFILL.SMU-20,50A,E-SPD,STD 153-2.14.4KV.S&C I EACH	122.32	612050
1070	3007355	FUSE\POWER.REFILL.SMU-20,65A,E-SPD,STD 153-2.14.4KV.S&C I EACH	122.32	612065
1071	3007356	FUSE\POWER.REFILL.SMU-20,80A,E-SPD,STD 153-2.14.4KV.S&C I EACH	122.32	612080
1072	3007357	FUSE\POWER.REFILL.SMU-20,100A,E-SPD,STD 153-2.14.4KV.S&C EACH	122.32	612100
1073	3007358	FUSE\POWER.REFILL.SMU-20,125A,E-SPD,STD 153-2.14.4KV.S&C EACH	122.32	612125
1074	3007359	FUSE\POWER.REFILL.SMU-20,150A,E-SPD,STD 153-2.14.4KV.S&C EACH	122.32	612150
1075	3007360	FUSE\POWER.REFILL.SMU-20,175A,E-SPD,STD 153-2.14.4KV.S&C EACH	122.32	612175
1076	3007339	FUSE\POWER.REFILL.SMU-20,30A,E-SPD,SLOW 119-2.14.4KV.S&C EACH	122.32	
1077	3007340	FUSE\POWER.REFILL.SMU-20,50A,E-SPD,SLOW 119-2.14.4KV.S&C EACH	122.32	
1078	3007341	FUSE\POWER.REFILL.SMU-20,65A,E-SPD,SLOW 119-2.14.4KV.S&C EACH	122.32	
1079	3007342	FUSE\POWER.REFILL.SMU-20,80A,E-SPD,SLOW 119-2.14.4KV.S&C EACH	122.32	
1080	3007343	FUSE\POWER.REFILL.SMU-20,100A,E-SPD,SLOW 119-2.14.4KV.S&C EACH	122.32	
1081	3007344	FUSE\POWER.REFILL.SMU-20,125A,E-SPD,SLOW 119-2.14.4KV.S&C EACH	122.32	
1082	3007345	FUSE\POWER.REFILL.SMU-20,150A,E-SPD,SLOW 119-2.14.4KV.S&C EACH	122.32	
1083	3007346	FUSE\POWER.REFILL.SMU-20,175A,E-SPD,SLOW 119-2.14.4KV.S&C EACH	122.32	
1084	3007347	FUSE\POWER.REFILL.SMU-20,200A,E-SPD,SLOW 119-2.14.4KV.S&C EACH	122.32	
1085	938578	CABLE,600V/UG,500-500-500-350,4/C AAC QUADRUPLX,XLPE,V FOOT	5.19	WOODFORD
1086	3007840	PIN,POLE TOP,1-3/8" THREAD,20" HIGH,GALVANIZED	8.78	2195
1087	7002537	PLUG,CONNECTOR,MODULAR SPLICE,W/O STUD	46.32	K650CP
1088	7003868	ROD,ANCHOR,EXTENSION,3/4"X24",GALV STL,W/U-BOLT	30.59	SFAE246TN2
1090	7001343	LAMP,HPS,4000L,50W	7.58	LU50/H/ECO
1091	7001344	LAMP,HIGH PRESSURE SODIUM,70W,55V,CLEAR,MOGUL BASE,5	7.07	LU70/H/ECO
1092	7001345	LAMP,HIGH PRESSURE SODIUM,100W,50V,CLEAR MOGUL BASE,	7.58	LU100/H/ECO
1093	7001346	LAMP, HPS, #S66MN-200	9.08	LU200/H/ECO
1095	7001355	LAMP,INCAND MULT,2500L,205W,125V	3.07	205PS25/12
1096	7001354	LAMP,INCAND MULT,4000L,327W,125V	3.72	327PS35
1100	7005978	LAMP,MH,14000L V - 12000L H,175W	10.27	MH175/U/TU
1101	7005979	LAMP,MH,36000L V - 32000L H,400W	11.16	MVR400/U
1102	7005980	LAMP,MH,110000L V - 107800L H,1000W	22.98	MVR1000/U
1103	7006353	PIN,INSULATOR,SHORT SHANK,5/8"X1-1/2",STEEL,NYLON	4.71	J222Z
1104	7003420	BRACE,WOOD,ALLEY ARM,76"REVERSIBLE AT POLE UNDERARM	66.54	RAAB-76
1105	3010452	ANCHOR,ROCK,EXPANDING,1" DIA ROD,53" LONG,NEEDS HOLE	47.43	R153L
1115	3011340	TAG,NUMBER 0(ZERO),HORIZONTAL,1",BLACK CHARACTER ON Y	0.13	UE-TH000
1116	3011341	TAG,NUMBER 1(ONE),HORIZONTAL,1",BLACK CHARACTER ON YE	0.13	UE-TH001
1117	3011342	TAG,NUMBER 2(TWO),HORIZONTAL,1",BLACK CHARACTER ON Y	0.13	UE-TH002
1118	3011343	TAG,NUMBER 3(THREE),HORIZONTAL,1",BLACK CHARACTER ON	0.13	UE-TH003
1119	3011344	TAG,NUMBER 4(FOUR),HORIZONTAL,1",BLACK CHARACTER ON Y	0.13	UE-TH004
1120	3011345	TAG,NUMBER 5(FIVE),HORIZONTAL,1",BLACK CHARACTER ON YE	0.13	UE-TH005
1121	3011346	TAG,NUMBER 6(SIX) OR 9(NINE),HORIZONTAL,1",BLACK CHARAC	0.13	UE-TH006
1122	3011347	TAG,NUMBER 7(SEVEN),HORIZONTAL,1",BLACK CHARACTER ON	0.13	UE-TH007
1123	3011348	TAG,NUMBER 8(EIGHT),HORIZONTAL,1",BLACK CHARACTER ON	0.13	UE-TH008
1124	3011349	TAG,CUSTOM KU,HORIZONTAL,1",BLACK CHARACTER ON YELLO	0.13	UE-TH1493
1125	3011350	TAG,NUMBER 0(ZERO),3",BLACK CHARACTER ON YELLOW BACKF	1.04	UE-TR300-.125
1126	3011351	TAG,NUMBER 1(ONE),3",BLACK CHARACTER ON YELLOW BACKR	1.04	UE-TR301-.125
1127	3011352	TAG,NUMBER 2(TWO),3",BLACK CHARACTER ON YELLOW BACKR	1.04	UE-TR302-.125
1128	3011353	TAG,NUMBER 3(THREE),3",BLACK CHARACTER ON YELLOW BACK	1.04	UE-TR303-.125
1129	3011354	TAG,NUMBER 4(FOUR),3",BLACK CHARACTER ON YELLOW BACKI	1.04	UE-TR304-.125
1130	3011355	TAG,NUMBER 5(FIVE),3",BLACK CHARACTER ON YELLOW BACKR	1.04	UE-TR305-.125
1131	3011356	TAG,NUMBER 6(SIX) OR 9(NINE),3",BLACK CHARACTER ON YELL	1.04	UE-TR306-.125
1132	3011357	TAG,NUMBER 7(SEVEN),3",BLACK CHARACTER ON YELLOW BACK	1.04	UE-TR307-.125
1133	3011358	TAG,NUMBER 8(EIGHT),3",BLACK CHARACTER ON YELLOW BACK	1.04	UE-TR308-.125
1134	3011359	HOLDER,TAG,HORIZONTAL,POLYETHYLENE TYPE,FOR 7-3" NUME	6.74	PH307HP
1135	3011360	HOLDER,TAG,VERTICAL,POLYETHYLENE TYPE,FOR 7-3" NUMBER	6.05	PH307VP
1136	3011361	HOLDER,TAG,HORIZONTAL,POLYETHYLENE TYPE,FOR 5-1" NUME	0.27	TH-05P
1137	3011362	HOLDER,TAG,HORIZONTAL,POLYETHYLENE TYPE,FOR 11-1" NUM	0.34	TH-11P
1138	3011363	TAG,CUSTOM LG&E,HORIZONTAL,1",BLACK CHARACTER ON YELI	0.14	UE-TH1492
1139	3011364	TAG,CUSTOM ODP,HORIZONTAL,1",BLACK CHARACTER ON YELL	0.14	UE-TH1495
1140	3011365	TAG,CUSTOM TEL,HORIZONTAL,1",BLACK CHARACTER ON YELLO	0.14	UE-TH1494

1142	3010215	POLE,ALUMINUM,28' MTH,33' LONG,BLACK,HANDHOLE,2EA 1-3, EACH	896.16	B19262
1143	3011389	BASE,ALUMINUM,ORNAMENTAL COVER,CHESAPEAKE/FRANKLIN EACH	207.74	A82340-002
1144	3011391	BASE,ORNAMENTAL COVER,NORFOLK/ESSEX/GRAND SERIES,BL F EACH	409.96	A19270
1145	3011390	POLE,ALUMINUM,12' MTH,15' LONG,BLACK,HANDHOLE,2EA 1-3, EACH	204.43	B19263-012
1146	3011392	POLE,AL,4" SQ,20' LONG,16' MTH,DK BRZ,HANDHOLE,2EA 1-3/4" EACH	448.63	B19672
1147	3010216	POLE,ALUMINUM,11' LONG,8' MTH,BLACK,HANDHOLE,2EA 1-3/4" EACH	180.12	B19263-008
1148	3010220	POLE,ALUMINUM,BLACK,STRAIGHT SMOOTH,10' MOUNTING HE EACH	195.59	B19266
1149	3010222	POLE,ALUMINUM,10' MTH,13' LONG,BLACK,WITH HANDHOLE,2I EACH	216.58	B19263-010
1150	3010218	POLE,ALUMINUM,29',BRONZE,ANCHOR BASE,3" TENON FOR SIN EACH	729.3	B19261
1151	3010217	POLE,ALUMINUM,30' MTH,35' OVERALL,HANDHOLE,2EA 1-3/4" . EACH	665.21	B19260
1152	3010223	ARM,ALUMINUM,8',PAINTED BLACK, W/MOUNTING HARDWARE EACH	137.02	A19259
1153	933235	ARM,MAST,DOUBLE,42",BRONZE,5 DEGREE RISE,ALUMINUM,2" EACH	247.52	A19258
1154	933227	ARM,MAST,SINGLE,42",BRONZE,5 DEGREE RISE,ALUMINUM,2" N EACH	201.11	A19257
1155	3010219	POLE,ALUMINUM,18' BLACK,14' MTH, WITH HANDHOLE,2EA 1-3, EACH	239.79	B19264-014
1156	3010221	POLE,ALUMINUM,BLACK,STRAIGHT FLUTED,10 FT MOUNTING H EACH	223.21	B19265
1157	3010212	POLE,AL,20',BRZ,16' MTH DIR EMBEDDED,HANDHOLE,2EA 1-3/4" EACH	247.52	B19264-016
1158	3010224	BASE,ORNAMENTAL COVER,HOMEWOOD LARGE,BLACK,14" DIA EACH	459.68	25114-002P1
1159	3000799	INSULATOR,SUSPENSION,35KV,POLYMER,23" LONG,7500# WOR EACH	67.43	405004-1400
1160	3011456	SWITCH,GRP OP,15KV,900A,LB,HORZ MT,UPRIGHT,SIDE OPENIN EACH	2484.21	AR113FHHL
1162	3011912	BRACKET.ARRESTER.TRANSFORMER TANK MOUNTING.WITH BOI EACH	8.69	U-35935
1163	3011791	CAP,INSERT,INSULATED,25KV,200A,LOADBREAK,WITH COPPER C EACH	27.58	273DRG
1164	3011750	ARRESTER,DISTRIBUTION,UG,ELBOW,25KV INTERFACE,18KV,MO EACH	106.53	273ESA-18
1166	7006147	CONDUIT,FLEXIBLE,1",LIQUID TIGHT,NON-METALLIC FOOT	1.52	15008-100
1167	7002169	STIRRUP,TANGENT BRACKET EACH	8.63	TS-1
1168	3009123	ARM,DEADEND,ASSEMBLY,FG,10FT,5000 LBS WORKING,10000 L EACH	280.12	DA3000-120E4-B92
1169	7001036	SOCKET,Y-CLEVIS,30000 LB,52-5 EACH	15.19	syc-56
1170	7003213	OPTIC ASSY\LIGHTING-T.COLONIAL FIXTURE.ACRYLIC-CLEAR TOV EACH	29.08	35-963160-01
1172	3012003	CABLE.CONTROL.2/C #6 AWG.CU..045" PE/.025" PVC INSUL.600\ FOOT	2.43	3012003
1173	3011994	CABLE.CONTROL.2/C #8 AWG.CU..045" PE/.015" PVC INSUL.600\ FOOT	1.77	3011994
1175	3012004	CABLE.CONTROL.4/C #10 AWG.(7X) CU..020" PE/.010" PVC INSU FOOT	2.11	3012004
1176	3011997	CABLE.CONTROL.9/C #10 AWG.(7X) CU..020" PE/.010" PVC INSU FOOT	3.26	3011997
1177	3012005	CABLE.CONTROL.12/C #10 AWG.(7X) CU..020" PE/.010" PVC INSI FOOT	4.49	3012005
1178	3011999	CABLE.CONTROL.9/C #12 AWG.(7X) CU..020" PE/.010" PVC INSU FOOT	3.15	3011999
1179	3012000	CABLE.CONTROL.9/C #16 AWG.(7X) CU..015" PE/.010" PVC INSU FOOT	1.9	3012000
1180	3012001	CABLE.CONTROL.19/C #10 AWG.(7X) CU..020" PE/.010" PVC INSI FOOT	6	3012001
1181	3012002	CABLE.CONTROL.19/C #12 AWG.(7X) CU..020" PE/.010" PVC INSI FOOT	4.8	3012002
1182	1200394	CONNECTOR,SPLIT BOLT,1STR TO 8SOL,PLATED EACH	2.64	1HPS
1183	3012804	ASSEMBLY,CROSS ANGLE,6" X 4" X 5/16",STEEL,17" LONG,14'-6" EACH	581.23	D7-64.516.170
1185	3011995	CABLE.CONTROL.2/C #9 AWG.(19X)CU.020" PE/.010" PVC INSUL. FOOT	1.83	3011995
1186	7001969	DISCONNECT,IN-LINE,NON-LOADBREAK,25KV,600A EACH	182.33	127.1
1187	3013204	CABLE.CONTROL.4/C #6 AWG CU..045" PE/.010" PVC INSUL.600\ FOOT	3.96	3013204
1188	7006609	CLAMP,STRAIN,2-2/0 ACSR,7#9-7#8 AW,DE,AL,SOCKET EACH	36.33	SD-57-S
1189	3006888	ROD\ARMOR-T.PREFORMED.7#8 EACH	11.76	AR-2128
1190	7003680	TERMINAL,RING,NONINSULATED,R 12-10,#10 STUD EACH	0.19	322455
1191	7003679	TERMINAL,RING,NONINSULATED,R 14-12,#10 STUD EACH	0.15	321828
1192	3011743	LABEL,ODP LOGO,3/4" X 1-1/2",RED LETTERS ON WHITE MYLAR, ROLL	45	3011743
1194	3013267	BRACKET,LIGHTING.SINGLE DIRECTIONAL FIXTURE.BLACK,24",AL EACH	171.28	70837-001P1
1195	3013268	BRACKET\LIGHTING.SINGLE DIRECTIONAL FIXTURE.SMOOTH BRG EACH	171.28	70837-P171
1196	3013330	ADAPTER,LIGHTING,SLIP FITTER,BLACK EACH	29.06	SFABL-001
1197	3013942	REPAIR KIT,FIBERGLASS,CORNER,MUNSELL GREEN EACH	49.92	NRK3MG
1198	3013941	REPAIR KIT,FIBERGLASS EACH	79.28	NRK2
1199	7006229	ARRESTER,STATION,10KV,8.4KV MCOV,POLYMER EACH	258.57	3EL-010-1PC214YH5
1200	3013318	WIRE,SWITCHBOARD,SIS,1C,12 AWG,7/20T,600V,90C,.030 XLPE FOOT	0.24	3013318
1201	3013940	PATCH,REPAIR,SELF-ADHESIVE,FIBERGLASS,12" X 12" EACH	89.26	PATC100-1212HP
1202	1159186	RACK,CAPACITOR ASSY,3 UNIT,400KVAR MAX,POLE MOUNTING, EACH	613.28	CER156M1
1203	7000171	ARRESTER,SECONDARY,175/350V EACH	33.99	Z2-175-OA
1204	7003436	SWITCH,VACUUM,15KV,200A EACH	1000.31	VSV-1X3BA2X00060
1205	7005759	SOCKET,METER,6 TERMINAL,CAPACITOR CONTROL,POLE MOUN' EACH	100.61	2101BSA
1207	395251	SOCKET,EYE,AGS,1.006"-1.557"DIA. CONDUCTORS,3/4" EYE,GAL' EACH	9.84	SE-5154
1208	3001789	ADHESIVE\EPOXY-T.CONDUIT.HDPE/PVC/METAL/FG.2-PART RES KIT	66.18	BONDUIT-BT-KIT
1209	3011744	CONTROL,CAPACITOR,MICROPROCESSOR,MULTI-FUNCTIONAL,LI EACH	1044.23	40-057871-029
1210	3013166	CLIP\SAFETY.3/4" BOLT TO ATTACH SAFETY HARNESS ON LATTIC EACH	5.91	TVA75NHAPG

1211	3013171	CLIP\SAFETY.FOR 7/8" BOLT TO ATTACH SAFETY HARNESS ON LA	EACH	5.91	TVA87NHAPG
1212	7001080	SHACKLE,ANCHOR,72000 LB,BOLT/NUT/COTTER KEY	EACH	35.43	AS-60-BNK
1213	7001086	SHACKLE,ANCHOR,25000 LB,BOLT/NUT/COTTER KEY	EACH	8.98	AS-25L-BNK
1214	7001096	CLEVIS,EYE,25000 LB,Y-STRAIGHT (PINS 90 DEG)	EACH	23.64	YCS-06-90
1215	7001098	CLEVIS,EYE,30000 LB,Y-STRAIGHT (PINS 90 DEG)	EACH	19.07	YCS-05-90-30
1216	7001099	CLEVIS,EYE,30000 LB,Y-TWISTED (PINS PARALLEL)	EACH	19.86	YCS-07
1217	7003640	WASHER,CURVED,4" X 4" X 1/4",GALV,FOR 7/8" BOLT	EACH	2.28	CW80
1218	7005747	YOKE,STRAIN,30000 LB	EACH	53.68	YPD-30-23883
1219	7005804	CONTROL,CAPACITOR,TIME,TEMPERATURE & VOLTAGE,WITH D/	EACH	1004.19	238010-J40
1220	7006394	SOCKET,EYE,30000 LB	EACH	13.17	SA-10
1221	7006539	CONTROL,CAPACITOR,ADAPTIVE	EACH	1618.55	4410N-PTE-SJ71A
1222	7010762	ANCHOR\HELIX-T.7" ROD:TRIPLE SQUARE SHAFT 8"/10"/12"	EACH	121.03	012642AEJ
1223	7010152	CLAMP,STRAIN,397-1272 ACSR (WIDE RANGE),DE,AL,NONE	EACH	89.33	SD-130-S
1224	7010257	CLAMP,SUSPENSION,1-300 CU,MAL IRON,NONE	EACH	18.93	MS-70-N
1225	7010704	CLAMP,SUSPENSION,ALUMINUM SOCKET,TO BE USED ON 556.5	EACH	28.65	HAS-182-S
1226	7010699	CLAMP\SUSPENSION-T:4-4/0 CU:MAL IRON:0.20"- 0.60":SOCKET	EACH	21.8	MS-60-S
1227	7002487	CONDUCTOR,OH WIRE,2,CU-SD/BARE,SOLID (200LB REELS)	POUND	5.27	7002487
1228	938601	ROD,ARMOR,2/0 ACSR	EACH	7.08	AR-0120
1229	1197701	ROD,ARMOR,3/0 ACSR 6/1,195.7 ACAR 4/3,DIA. MIN .491 MAX ..	EACH	8.81	AR-0122
1230	1159551	SWITCH,OIL,NR REMOTE CONTROL,14.4KV,200A W/O COUNTER,	EACH	483.34	
1231	3000031	CAPACITOR,ASSY,12.47KV,FIXED,450KVAR,GROUNDED WYE,CON	EACH	2307.71	
1232	7004767	CAPACITOR,ASSY,12.47KV,FIXED,300KVAR,GROUNDED WYE,CON	EACH	2148.59	
1233	7004770	CAPACITOR,ASSY,12.47KV,FIXED,600KVAR,GROUNDED WYE,CON	EACH	2430.35	
1234	7004772	CAPACITOR,ASSY,12.47KV,SWITCHED,600KVAR,GROUNDED WYE	EACH	6547.7	
1235	7004775	CAPACITOR,ASSY,12.47KV,SWITCHED,900KVAR,GROUNDED WYE	EACH	7061.3	
1236	7004782	CAPACITOR,ASSY,12.47KV,SWITCHED,1200KVAR,GROUNDED WY	EACH	7111.25	
1237	3014577	CABLE,CONTROL,4/C #4 AWG CU,7 STR BARE SD CU,HEAT AND N	FOOT	7.14	382787
1238	7000488	CONNECTOR,COMPRESSION,TENSION SLEEVE,4 SOL,CU,2-3/4" L	EACH	2.33	OH4C
1239	7010343	DUCT,SPLIT,PVC,2"X 10',SCH 40	FOOT	2.34	49011SD-010
1240	1192419	DUCT,SPLIT,PVC,4"X 10',SCH 40	FOOT	6.25	49015SD-010
1241	438427	COVER,TERMINAL,TRANSFORMER SPADE,MAX OF 8 SERVICE CAI	EACH	17.51	LK-XL
1242	7000493	CONNECTOR,COMPRESSION,TENSION SLEEVE,397A 26/7,AL	EACH	42.16	CJ096
1243	7000617	CONNECTOR,BOLTED,TAP LUG,2/0 SOL-1000,1/4 BLT,BZ,2	EACH	20.9	TLD89
1244	7001061	BALL,EYE,30000 LB,52-5	EACH	6.6	BE30
1245	7003829	CONNECTOR,BOLTED WEDGE,STIRRUP,795 SPACER ONLY	EACH	42.11	636556
1246	7003879	SOCKET,EYE,20000 LB,52-3/52-5	EACH	7.27	SA04
1247	7004034	CONNECTOR,COM,SERVICE,BARE,2/OSTR:2/OSTR,GRAY,GRAY	EACH	0.31	CS85
1248	399627	TIE,CABLE,BLACK,.35"X17-3/4",175# TENSIL ST.,WEATHER RESI	EACH	0.84	PLT5H-LO
1249	3001797	BOLT.SHOULDER EYE.ROD END 3/4"X12-1/2".13/16" PUNCHED E	EACH	48.62	C3901.2C
1250	3013682	BOLT,HOOK,HOLD DOWN WEIGHT,1-4,12",MAX NUMBER OF WF	EACH	32.05	HDWH504
1253	7000223	BOLT,DBL ARM,3/4"X28",ALL THREAD,GALV W/4 SQ NUTS STD P	EACH	6.57	DABOLT3428
1254	7000227	BOLT,DOUBLE ARM,7/8"X22",ALL THREAD,GALV,W/4 SQ NUTS,S	EACH	9.08	DABOLT7822
1255	7000228	BOLT,DOUBLE ARM,7/8"X24",ALL THREAD,GALV,W/4 SQ NUTS,S	EACH	10.08	DABOLT7824
1256	7000229	BOLT,DBL ARM,7/8"X26",ALL THREAD,GALV W/4 SQ NUTS STD P	EACH	9.77	DABOLT7826
1257	7000230	BOLT,DOUBLE ARM,7/8"X28",ALL THREAD,GALV,W/4 SQ NUTS,S	EACH	10.52	DABOLT7828
1258	7000231	BOLT,DOUBLE ARM,7/8"X30",ALL THREAD,GALV,W/4 SQ NUTS,S	EACH	11.27	DABOLT7830
1259	7000243	BOLT,SHOULDER EYE,3/4",10-1/2",GALV STL,W/COT KEY	EACH	42.5	D6730.3-10-1/2
1260	7000275	BOLT,MACHINE,SQ HD,3/4" X24",GALV,W/SQ NUT	EACH	4.92	MB3424
1261	7000279	BOLT,MACH,SQ HD,7/8"X 14",GALV,W/SQ NUT STD PKG = 25	EACH	3.48	MB7814
1262	7000280	BOLT,MACH,SQ HD,7/8"X 16",GALV,W/SQ NUT STD PKG = 25	EACH	4.24	MB7816
1263	7000281	BOLT,MACH,SQ HD,7/8"X 18",GALV,W/SQ NUT	EACH	4.77	MB7818
1264	7000284	BOLT,MACHINE,7/8"X 24",GALV STL,W/SQ NUT	EACH	6.36	MB7824
1265	7000322	NUT,BOLT,3/4",GALV STL,10	EACH	0.45	J8564
1266	7000323	NUT,BOLT,7/8",GALV STL,9	EACH	1.39	J8564-1/2
1267	7000477	CONNECTOR,COMPRESSION,TENSION SLEEVE,3/8 STR,STL	EACH	23.78	4918.386
1268	7000478	CONNECTOR,COMPRESSION,TENSION SLEEVE,7/16 STR,STL	EACH	33.62	4916.453
1269	7000492	CONNECTOR,COMPRESSION,TENSION SLEEVE,795A 26/7,AL,USI	EACH	47.5	CJ126
1270	7000506	CONNECTOR,COMPRESSION,JUMPER SLEEVE,795A 26/7,AL,USE	EACH	27.14	JC12
1271	7000545	CONNECTOR,COMPRESSION,2 HOLE TERMINAL,1-2,AL	EACH	4.19	ALS-4
1272	7000603	PLATE,TRANSITION,4 HOLE,3"X3"	EACH	4.72	TP-C
1273	7000604	PLATE,TRANSITION,2 HOLE,1-1/2"X3"	EACH	3.57	TP-B
1274	7000806	THIMBLE,GUY,WIRE,1/2",OPEN PATTERN,GALV STD PKG = 250	EACH	1.18	J1058

1276	1164401	TAPE,ELECTRICAL,VINYL,3/4" X 8.5 MIL X 66',BLACK,ALL WEATHE	EACH	1.49	37-09180
1277	7001005	LINK,CHAIN,30000 LB	EACH	4	LK30
1278	7001016	PIN,INSULATOR,POST INS,3/4"X7-1/2",STEEL	EACH	4.13	10187A
1279	7001024	CLIP,BONDING,7/8",BOLT	EACH	1.25	D6727.4
1280	7001025	CLIP,BONDING,3/4",BOLT	EACH	1.05	D6727.3
1281	7001031	EYENUT,OVAL,FOR 7/8" BOLT,GALV,25,000# ULT.	EACH	15.91	EN80
1282	7001077	SHACKLE,HOLD-DOWN,10000 LB	EACH	34.79	88017-2000
1283	7001082	SHACKLE,ANCHOR,50000 LB,BOLT/NUT/COTTER KEY	EACH	17.34	AS-50W-BNK
1284	7001731	GRIP,GUY,PREFORMED,1/2",BLUE,GALV STL	EACH	9.58	BG-2115
1285	7003343	CONNECTOR,COMPRESSION,TENSION SLEEVE,556A,26/7,ALO	EACH	43.16	CJ106
1286	7003582	GAIN,GRID,CURVED,CROSSARM,6-3/4"X4",15/16" HOLE	EACH	11.2	GCA747
1287	7003723	CONNECTOR,COMPRESSION,2 HOLE TERMINAL,15 DEG,397 ACS	EACH	27.23	TF09
1290	7003889	CONNECTOR,BOLTED,TAP LUG,6-250,2-5/8 BOLT,BRZ,1	EACH	5.14	TLS-42
1291	7003924	CONNECTOR,COMPRESSION,2 HOLE TERMINAL,15 DEG,266ACSF	EACH	25.5	TF07
1292	7003959	WASHER,FLAT,SQUARE,4" X 4" X 1/4",FOR 7/8" BOLT,GALV STL.	EACH	1.59	6819
1293	7003993	ROD,ANCHOR EXTENSION,1"X18",CLEVIS,GALV STEEL	EACH	46.33	D-1099-0006
1294	7004010	SHAFT,HELIX ANCHOR EXTENSION,SQUARE,3-1/2F	EACH	44.69	ANCHOR-EXT-BAR-3-1.5
1295	7004123	CONNECTOR,COMPRESSION,TENSION SLEEVE,7 #9,AW	EACH	22.28	4912.359
1296	7004125	CONNECTOR,COMPRESSION,TENSION SLEEVE,7 #8,AW	EACH	22.83	4914.406
1297	7004306	BOLT,MACH,SQ HD,3/4"X 26" GALV,W/SQ NUT	EACH	4.87	MB3426
1298	7004309	CONNECTOR,COMPRESSION,JUMPER SLEEVE,556.5 ACSR.26/7.U	EACH	21.32	JC10
1299	7004313	CONNECTOR,COMPRESSION,JUMPER SLEEVE,954A 45/7,AL	EACH	29.85	JC13
1300	7005083	GAIN,GRID,CURVED,CROSSARM,4"X4",15/16" HOLE	EACH	3.89	PG44
1301	7005778	ASSEMBLY,DEAD END,795A 26/7,VERT EYE,DOUBLE TONGUE	EACH	145.89	VED126
1302	7006153	CONNECTOR,COMPRESSION,2 HOLE TERMINAL,750MCM	EACH	20.24	AL44P
1303	7006266	ATTACHMENT,GUY,BOLT-ON VANG,STATIC WIRE AND GUY	EACH	22.19	2817-15
1304	7006267	ATTACHMENT,GUY,BOLT-ON VANG,CONDUCTOR ATTACHMENT:	EACH	66.3	A2132-E
1305	7006268	ATTACHMENT,GUY,BOLT-ON VANG,CONDUCTOR GUYING	EACH	87.3	A2132-D
1306	7006510	BOLT\MACHINE-T:7/8":3":GALV STL:NUT/COTTER KEY	EACH	3.8	B83D-2/WMF80
1307	7006577	PIN,INSULATOR,POST INS,3/4"X2-3/16",STEEL	EACH	3.36	J25249.1
1308	7006696	SPACER,TWIN ARM,PIPE,STANDARD,1"X7-1/2"	EACH	10.09	D6100.7-1/2
1309	7010030	ASSEMBLY,DEAD END,397A 26/7,VERT EYE,DOUBLE TONGUE	EACH	108.27	VED096
1310	7010032	ASSEMBLY,DEAD END,556A 26/7,VERT EYE,DOUBLE TONGUE	EACH	117.95	VED106
1311	7010036	ASSEMBLY,DEAD END,954A 45/7,VERT EYE,DOUBLE TONGUE	EACH	156.57	VED133
1312	7010654	WASHER\BOLT-T:SQUARE CURVED:6"X6"X1/2":1-1/16":	EACH	19.71	D6612.C-1
1313	7010170	CROSSARM,WOOD,4-3/4"X5-3/4"X16F	EACH	112.49	7010170
1314	7000103	CROSSARM,WOOD,4-3/4"X5-3/4"X8F,A-3-9.0	EACH	55.36	7000103
1315	7000105	CROSSARM,WOOD,4-3/4"X5-3/4"X10F,A-3-9.0	EACH	69.06	7000105
1316	1164286	TAPE,FIRE & ARC PROOF,3"X .030"X 20 FT USED FOR FIRE PROOF	EACH	11.5	77W-3X20F
1317	7000320	NUT,BOLT,1/2",GALV STL,13	EACH	0.21	J8562
1318	7001347	LAMP,HIGH PRESSURE SODIUM,400W,100V,CLEAR,MOGUL BASE	EACH	8.42	LU400/H/ECO
1319	7001348	LAMP,MERCURY VAPOR,175W,DELUXE WHITE,MOGUL BASE,24,	EACH	5.51	HR175DX39
1320	7001349	LAMP,MERCURY VAPOR,250W,DELUXE WHITE,MOGUL BASE,24,	EACH	6.39	HR250DX37
1321	7001350	LAMP,MERCURY,400W,DELUXE WHITE,MOGUL BASE,24,000 HO	EACH	7.32	HR400DX33
1322	3014861	SPLICE,TENSION,AUTO,3/8" EHS GUY WIRE, RATED TO HOLD MII	EACH	21.29	GLS-5042
1323	3014862	SPLICE,TENSION,AUTO,7/16" EHS GUY WIRE, RATED TO HOLD M	EACH	25.57	GLS-5043
1324	933343	SPLICE,REPAIR,KIT,15KV,MOLDED,#2 AL OR CU,175/220 MIL,JCN	EACH	89.34	5411R-CIR-21
1325	3014901	SWITCH,RECLOSER BYPASS,14.4KV,900A,110KVBIL,3 PULL OPER/	EACH	2071.6	BP3R5CLY
1326	3000397	COVER,SPLICE,SUBMERSIBLE,14-350,4-7/16"L	EACH	2.45	FSS-350
1327	7000884	STRAP,CABLE,HENDRIX GROUND,1"	EACH	0.19	513
1328	3015303	CROSSARM,FG,TANGENT,3-5/8"X4-5/8"X8",CENTER MOUNT,640	EACH	106.61	TB200009603X2
1329	3015304	CROSSARM,FG,TANGENT,3-5/8"X4-5/8"X10",CENTER MOUNT,60	EACH	142.55	TB250012005X2
1330	3016399	LUMINAIRE.FLOOD.PULSE START MH.150W.120/208/240/277V.(EACH	244.33	PF4S15P0A26X6DB446
1331	3006959	RING,9",GE ACORN GLOBE	EACH	13.75	805340
1332	3016731	CABLE GRIP AND PLUG ASSEMBLY.FOR COOPER JUNCTION BOX.I	EACH	7.46	CCR190M5
1333	3016732	CABLE GRIP AND PLUG ASSEMBLY.FOR COOPER JUNCTION BOX.I	EACH	7.46	CCR190M3
1334	3016733	CABLE GRIP AND PLUG ASSEMBLY.FOR COOPER JUNCTION BOX.I	EACH	8.01	CCR190M2
1335	7010608	ELBOW,CONDUIT,PVC,3"XSTD,SCH 40,90 DEG,DEEP SOCKET,GRE	EACH	6.13	5233830
1336	3016896	CABLE,OH,TRIPLEX,#2 AL W/ #4 ACSR NEUTRAL,XLP,1000' REEL	EACH	0.66	cockle 1000
1337	3018110	ARRESTER\STATION-T.15KV.12.7KV MCOV.POLYMER.10 KJ/KV M	EACH	382.57	3EL2 015-2PC31-4NH5
1338	3016576	LUMINAIRE,FLOOD,PULSE START MH,350W,120/208/240/277V,;	EACH	227.01	PF4S35E0A26X5DB445
1339	7002432	COUPLING,CONDUIT,PVC,1",MALE ADAPTER	EACH	0.25	E943F

1340	3005683	LUMINAIRE,CONTEMPORARY,MH,PULSE START 350W,AUTO REG EACH	264.1	DSME35E0A2GMC3DB341
1341	1197678	CABLE,OH,TRIPLEX,#4/0,7STR,XLP,1000' REEL	1.71	
1342	3015377	LUG.TERMINAL.BRONZE.BOLTED.#4-600.2-9/16" HOLES ON 1-3/4" EACH	49.76	
1343	3010225	BASE,ORNAMENTAL COVER,AMERICAN CLAM SHELL SERIES,BLA	255.26	74158-002P1
1344	1197694	CABLE,OH,QUADRUPLEX,4/0,AL,19-STRAND,XLPE,90 DEGREE C,V FOOT	1.89	Appaloosa
1345	3020373	PAD,FIBERGLASS,TRANSFORMER,LARGE,42" X 52" X 16" HEIGHT, EACH	371.5	GS-42-52-16-AB-2-MG-26X12
1346	3021076	ANCHOR,EXTENSION,SQUARE SHAFT,1-1/2" DIA X 37" (MIN) LONG EACH	43.19	TAE-150-42
1347	3021077	ANCHOR,EXTENSION,SQUARE SHAFT,1-1/2" DIA X 42" (MIN) LONG EACH	70.21	TAE-150-42-14
1348	3021078	ANCHOR,EXTENSION,SQUARE SHAFT,1-1/2" DIA X 80" (MIN) LONG EACH	68.23	TAE-150-84
1349	3021079	ANCHOR,SQUARE SHAFT,1-1/2" DIA X 30" (MIN) LONG,WITH DO EACH	64.69	TAF-150-36-8-10
1350	3021080	ANCHOR,SQUARE SHAFT,1-1/2" DIA X 57" (MIN) LONG,WITH TRI EACH	99.39	TAF-150-66-8-10-12
1351	3021081	ANCHOR,SQUARE SHAFT,1-1/2" DIA X 120" (MIN) LONG,WITH Q EACH	170.17	TAF-150-126-8-10-12-14
1352	3022316	TERMINATION KIT,COLD SHRINK,INDOOR,15KV,750-1000KCMIL,I EACH	60.33	7645-T-110-LGE
1353	3022317	TERMINATION KIT,COLD SHRINK,INDOOR,15KV,350-500KCMIL,FI EACH	53.26	7642-T-110-LGE
1354	3022318	TERMINATION KIT,COLD SHRINK,INDOOR,15KV,#2-1/0,FOR JACK EACH	37.9	7642-T-110-LGE
1357	7003158	PLATE,DBL ARM,DA,4"X1/2"X30",A572 GR. 50 STEEL,A-3-10.7 FR EACH	34.81	C3901.9A
1358	3005451	LUMINAIRE,CONTEMPARY,MH,PULSE START 350W,HPF,TYPE III,- EACH	314.93	TRU35PWW3FBKHPTT4
1359	3005453	LUMINAIRE,CONTEMPORARY,MH,PULSE START,350W,HPF,TYPE EACH	314.93	TRU35PW23FBKHPTT4
1360	7001319	LUMINAIRE,COMTEMPARY,HPS,70W,120V,5800 LUMENS,NPF,T\ EACH	303.88	TRU70SW23FBKHPTT4
1361	7001320	LUMINAIRE,CONTEMPARY,HPS,100W,120V,NPF,TYPE III,9500 LU EACH	303.88	TRU10SW23FBKHPTT4
1362	7001321	LUMINAIRE,CONTEMPORARY,HPS,22000L,200W,NPF,TYPE III,12(EACH	303.88	TRU20SW23FBKHPTT4
1363	7001322	LUMINAIRE,CONTEMPARY,HPS,400W,120V,HPF,TYPE III,50000 LI EACH	309.4	TRU40SW23FBKHPTT4
1364	7003896	LUMINAIRE,CONTEMPARY,HPS,400W,277V,HPF,TYPE III,50000L, I EACH	309.9	TRU40SWW3FBKHPTT4
1365	3005698	LUMINAIRE,FLOOD,MH,1000W,480V,107800 LUMENS,7X7,AUTC EACH	270.73	TRU40SW23FBKHPTT4
1366	7006280	LUMINAIRE,FLOOD,MH,1000W,120/208/240/277V,107800 LUM EACH	300.34	TRU40SWW3FBKHPTT4
1367	3023034	LOCKNUT\BOLT-T.FASTENER.1/4"-20.SS	0.06	25CNNE3
1368	3023033	WASHER\FLAT.FASTENER.1/4" BOLT.SS.....	0.02	25NWF3
1369	3021076	ANCHOR,EXTENSION,SQUARE SHAFT,1-1/2" DIA X 37" (MIN) LONG EACH	43.19	C1100388
1370	3021077	ANCHOR,EXTENSION,SQUARE SHAFT,1-1/2" DIA X 42" (MIN) LONG EACH	70.21	C1100471
1371	3023032	BOLT\~.FASTENER.1/4"X1" ..SS....	0.08	25100HC3
1372	3021078	ANCHOR,EXTENSION,SQUARE SHAFT,1-1/2" DIA X 80" (MIN) LONG EACH	68.23	C1100389
1373	3023430	LINK\EXTENSION-T.EYE/CLEVIS.30".GALV STL..	93.93	1906-30
1374	3016577	LUG.TERMINAL.ALUMINUM.BOLTED.TEE CONNECTOR.250-1000 EACH	41.85	A7MT-100-2N

Weighted Average Cost of Capital (WACC)

	Capitalization Ratio	Annual R.O.E.	Annual Cost	Weighted Cost
Common	53.27%	10.23%		5.450%
Total Equity	53.27%			
Short Term Debt	2.46%		0.74%	0.018%
Long Term Debt	44.26%		4.12%	1.824%
Total Debt	46.72%			
Total WACC	100.00%			7.291%

Overall Cost of Capital

Carrying Charge Income Tax Calculation

Corporate Tax Rate: 38.9000%
 Carrying Charge: (5.45% / (1 - 38.9000%)) x 38.9000% = 3.469%

Calculation of Annual Carrying Charge for LED fixtures (based on 2016 Rate Case)

Overall Rate of Return	7.291%
Straight Line Depreciation	4.000%
25 year useful life	3.469%
Income Taxes	1.514%
Property Tax	1.514%
TOTAL CARRYING CHARGE	16.27%

Exhibit DJ-5

KENTUCKY UTILITIES COMPANY

CASE NO. 2016-00370

**Response to Lexington-Fayette Urban County
Government's First Request for Information
Dated January 11, 2017**

Question No. 31

Responding Witness: John K. Wolfe / William S. Seelye

Q-31. Does KU maintain separate accounting records for each type of street light. If so, when did KU start keeping records?

A-31. No.

Exhibit DJ-6

KENTUCKY UTILITIES COMPANY

CASE NO. 2016-00370

**Response to Second Request for Information of Lexington-Fayette Urban County
Government
Dated February 7, 2017**

Question No. 19

Responding Witness: John K. Wolfe

- Q-19. Please refer to KU's response to LFUCG 1-50(o). KU states that, "Operation and maintenance expenses include the cost of replacing the LED fixture and photocells, including associated labor expenses." Does this mean that when an LED fixture fails and is replaced, neither the purchase nor installation labor of the fixture is capitalized? If they are capitalized, what costs are treated as expenses and allocated as operation and maintenance expenses?
- A-19. Should an LED lamp fail and only the lamp is replaced, the labor and the materials are considered operation and maintenance expenses. When the photocell and starter/controller for that light are replaced along with the fixture, then all labor and all materials are capitalized.

Exhibit DJ-7

KENTUCKY UTILITIES COMPANY

CASE NO. 2016-00370

**Response to Second Request for Information of Lexington-Fayette Urban County
Government**

Dated February 7, 2017

Question No. 55

Responding Witness: John K. Wolfe

- Q-55. For each lighting technology offered by KU, including HPS, metal halide, MV, and LED and any variants of each for which there is a material difference, identify each of the operations and maintenance activities that KU anticipates performing on such street lights, whether the activity is performed on a scheduled (periodic) basis or as-needed, the anticipated frequency of the activity with respect to an individual light, the cost elements associated with that activity, and whether or in what circumstances each such cost element is covered by warranty.
- A-55. All lights will have the same operations and maintenance activities performed including replacing failed fixtures, bulbs, photocells, starters, and repairs to damaged service conductors. All operations and maintenance activities are performed upon failure of operability of the light as needed. The anticipated lifespans of each light can vary by wattage but in general are as follows: HPS, metal halide, and MV lights have an expected lifespan of 6 years; LED lights have an expected lifespan of 13 years. At the end of lifespan for HPS, the expected cost elements are the photocell, starter and bulb; for metal halide and MV, the expected cost elements are the photocell and bulb; none of these are tracked for warranty coverage. For LED the entire fixture will be replaced; all vendors under consideration for the LED fixture have a standard 5-year warranty coverage.

Exhibit DJ-8

Filed with a Petition for Confidential Treatment