

**COMMONWEALTH OF KENTUCKY**  
**BEFORE THE PUBLIC SERVICE COMMISSION**

**IN THE MATTER OF:**

**APPLICATION OF COLUMBIA GAS )  
OF KENTUCKY, INC. FOR AN ) CASE NO. 2016-00162  
ADJUSTMENT IN RATES )**

**DIRECT TESTIMONY  
AND EXHIBITS  
OF  
LANE KOLLEN**

**ON BEHALF OF  
THE OFFICE OF THE ATTORNEY GENERAL**

**J. Kennedy and Associates, Inc.  
570 Colonial Park Drive, Suite 305  
Roswell, GA 30075**

**SEPTEMBER 2, 2016**

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**I. QUALIFICATIONS AND SUMMARY**

1

2

3 **Q. Please state your name and business address.**

4 A. My name is Lane Kollen. My business address is J. Kennedy and Associates, Inc.  
5 ("Kennedy and Associates"), 570 Colonial Park Drive, Suite 305, Roswell, Georgia  
6 30075.

7

8 **Q. What is your occupation and by whom are you employed?**

9 A. I am a utility rate and planning consultant holding the position of Vice President and  
10 Principal with the firm of Kennedy and Associates.

11

12 **Q. Please describe your education and professional experience.**

1 A. I earned both a Bachelor of Business Administration in Accounting degree and a  
2 Master of Business Administration degree from the University of Toledo. I also  
3 earned a Master of Arts degree in Theology from Luther Rice University. I am a  
4 Certified Public Accountant, with a practice license, Certified Management  
5 Accountant, and Chartered Global Management Accountant. I am a member of  
6 numerous professional organizations, including the American Institute of Certified  
7 Public Accountants and the Society of Depreciation Professionals.

8 I have been an active participant in the utility industry for more than thirty  
9 years, both as an employee and as a consultant. Since 1986, I have been a consultant  
10 with J. Kennedy and Associates, Inc., providing services to state government  
11 agencies and consumers of utility services in the ratemaking, financial, tax,  
12 accounting, and management areas. From 1983 to 1986, I was a consultant with  
13 Energy Management Associates, providing services to investor and consumer owned  
14 utility companies. From 1976 to 1983, I was employed by The Toledo Edison  
15 Company in a series of positions encompassing accounting, tax, financial, and  
16 planning functions.

17 I have appeared as an expert witness on ratemaking, accounting, tax, finance,  
18 and planning issues before regulatory commissions and courts at the federal and state  
19 levels on hundreds of occasions. I have testified in dozens of proceedings before the  
20 Kentucky Public Service Commission (“Commission”). These proceedings include

1 base, fuel adjustment clause, and environmental surcharge rate proceedings  
2 involving natural gas and electric utilities, including Atmos Energy Corporation, Big  
3 Rivers Electric Corporation, East Kentucky Power Cooperative, Kentucky Power  
4 Company, Kentucky Utilities Company, and Louisville Gas and Electric Company.<sup>1</sup>  
5

6 **Q. On whose behalf are you testifying?**

7 A. I am providing testimony on behalf of the Office of the Attorney General of the  
8 Commonwealth of Kentucky (“AG”).  
9

10 **Q. What is the purpose of your testimony?**

11 A. The purpose of my testimony is to address and make recommendations on specific  
12 issues that affect the Company’s requested base rate increase in this proceeding,  
13 quantify the effects of AG witness Mr. Richard Baudino’s return on equity  
14 recommendation, and address and make recommendations regarding the Company’s  
15 proposed changes to the Accelerated Main Replacement Program (“AMRP”) and  
16 recovery of the related costs through the AMRP rider.  
17

18 **Q. Please summarize your testimony.**

---

<sup>1</sup> My qualifications and regulatory appearances are further detailed in my Exhibit \_\_\_(LK-1).

1 A. The AG recommends a base rate increase of no more than \$7.577 million compared  
2 to the Company's request for a base rate increase of \$25.408 million. The following  
3 table provides a summary of the AG recommendations and the effects on the  
4 Company's revenue requirement.<sup>2</sup>

**Columbia Gas of Kentucky, Inc.**  
**Summary of Attorney General Recommendations**  
**Revenue Requirement**  
**KPSC Case No. 2016-00162**  
**Forecasted Test Year Ended December 31, 2017**  
**\$ Millions**

	Amount
<b>Columbia Gas Requested Increase</b>	25.408
<b>Effects on Increase of AG Operating Income Recommendations</b>	
Reduce Requested O&M Expense Increase	(7.315)
Reduce Depreciation Expense to Reject Switch from ASL to ELG Procedure	(3.558)
Reduce Depreciation Expense By Adjusting Slippage for All Capital Expenditures	(0.111)
Reduce Depreciation Expense By Removing Capital Initiatives from Gross Plant	(0.108)
Reduce Property Tax Expenses	(0.230)
<b>Effects on Increase of AG Rate Base Recommendations</b>	
Reject Change from ASL to ELG Procedure - A/D and ADIT	0.131
Adjust Slippage for All Capital Expenditures - Plant, A/D, and ADIT	(0.599)
Remove Capital Initiatives Not Budgeted - Plant, A/D, and ADIT	(0.456)
Reflect Zero Balance for Cash Working Capital	(0.687)
Remove NOL ADIT in Acct 190	(0.153)
<b>Effects on Increase of AG Rate of Return Recommendations</b>	
Reflect Adjusted Capital Structure to Reflect Dividends	(0.616)
Reduce Short Term Debt Rate	(0.096)
Reflect Return on Equity of 9.0%	(4.033)
<b>Total AG Recommendations</b>	<b>\$ (17.831)</b>
<b>AG Recommendation to Increase Base Rates</b>	<b>\$ 7.577</b>

5

6

---

<sup>2</sup> I have attached a schedule showing all adjustments to rate base recommended by the AG as my Exhibit\_\_\_(LK-2) and a schedule showing the quantification of the cost of capital and the effect on the revenue requirement of the return on equity recommended by the AG as my Exhibit\_\_\_(LK-3).

1 I address all rate base and operating income AG recommendations and the  
2 cost of capital issues on the preceding table, except for the cost of short term debt  
3 and the return on equity, which are addressed by AG witness Mr. Richard Baudino.  
4 However, I quantify the effects on the revenue requirement of the recommendations  
5 addressed by Mr. Baudino.

6 The AG also recommends that the Commission reject the Company's request  
7 to include first generation plastic pipe and replacement of failed meters in the  
8 Accelerated Main Replacement Program ("AMRP") and to recover the related costs  
9 through the AMRP rider.

10 I have structured my testimony to sequentially address these issues.

11  
12 **II. OPERATING INCOME ISSUES**  
13

14 **A. O&M Expense Is Excessive; Nearly 30% More Than Actual 2015 Expense**  
15

16 **Q. How does the O&M expense in the test year compare to the most recent actual**  
17 **historic years?**

18 A. The Company's projected O&M expense in the test year reflects excessive and  
19 unconstrained growth compared to historic expense and to the Company's  
20 projections in the last base rate proceeding, Case No. 2013-00167. The Company's  
21 projected O&M expense in the test year reflects an increase of \$9.715 million, or

1 28.2%, to \$44.170 million in the test year from \$34.455 million in 2015. In contrast,  
2 the average growth in actual O&M expense has been \$1.2 million annually since  
3 2011, according to the actual O&M expense shown on Schedule I-1 and page 9 of  
4 Mr. Noel's Direct Testimony. The average growth in budget O&M expense has  
5 been only \$0.4 million, also shown on page 9 of Mr. Noel's Direct Testimony.

6 To provide further perspective on the wildly excessive O&M expense in the  
7 test year, the Company's actual and budgeted O&M expense for the twelve months  
8 ending May 2016 is \$37.507 million, for the base year ending August 2016 is  
9 \$39.163 million, and for the test year is \$44.170 million, according to the budget  
10 information that it filed in response to FR-16(7)(d). In other words, the rapid  
11 escalation in O&M expense is due primarily to budget increases that happen to  
12 coincide with the base period and test year in this proceeding.

13 The proposed increase in the test year compared to the twelve months ending  
14 May 2016 is nearly 18%, or an annualized growth rate of 11.2%, more than 5 times  
15 the rate of inflation. The Company projects almost no growth in O&M expense in  
16 the years following the test year, forecasting \$45.072 million in 2018 and \$45.971  
17 million in 2019, an annual growth rate of 1.0%, according to the budget/forecast  
18 information that it filed in response to FR-16(7)(h)(1).

19 In addition, the projected test year O&M expense is much greater than the  
20 Company projected in its last base rate proceeding. In that proceeding, the Company



1 projected relatively flat O&M expense from 2013 through 2016. It projected  
2 \$32.955 million in 2013, \$33.286 million in 2014, \$32.175 million in 2015, and  
3 \$32.273 million in 2016.<sup>3</sup>

4 These comparisons demonstrate that the projected O&M expense in the test  
5 year is unreasonable and unjustified. There are many factors driving these increases,  
6 nearly all of which are under the control of the Company and NiSource, including  
7 rapid growth in employees, even though the number of customers is projected to  
8 decline in the test year, increases due to new and expanded programs that are not  
9 cost justified, and increases in the NiSource Service Company management fee,  
10 despite a reduction in pension expense.

11  
12 **Q. What is your overarching recommendation for the reasonable amount of O&M**  
13 **expense in the test year?**

14 A. I recommend that the Commission limit the O&M expense in the test year to \$36.855  
15 million, which still represents an increase of \$2.4 million over the actual 2015  
16 expense. This is a “top-down” adjustment because the excessive growth in the  
17 projected O&M expense is pervasive and not limited to specific issues or  
18 adjustments. This recommendation results in O&M expense that is consistent with

---

<sup>3</sup> Case No. 2013-0167 filing, FR 16(12)(h)(1), a copy of which I have attached as my Exhibit\_\_\_(LK-4).

1 the Company's actual history. This recommendation reflects a growth rate  
2 approximately two times the rate of inflation to address any actual increases in the  
3 scope of operations and maintenance necessary to respond to regulatory  
4 requirements. This recommendation also embeds the \$1.487 million actual expense  
5 variance in excess of the approved budget incurred in 2015, as shown on page 9 of  
6 Mr. Noel's Direct Testimony, and includes another \$2.4 million in growth over the  
7 two year period from 2015 to 2017, based on the Company's actual annual historic  
8 growth.

9 This overarching recommendation is a reduction of \$7.315 million from the  
10 Company's requested test year O&M expense and it is the amount of the adjustment  
11 that I reflect on the table in the Summary section of my testimony. However, I also  
12 address specific O&M expense issues, which I recommend that the Commission  
13 recognize in support of my overarching recommendation, although it may choose to  
14 address the specific issues independently.

15  
16 **B. New Incremental O&M Initiatives Are Not Required and Not Cost Justified**  
17

18 **Q. Please describe the incremental so-called "strategic O&M initiatives" included**  
19 **in the test year operating expenses and revenue requirement.**

20 A. The Company developed the O&M expense included in the test year for ratemaking  
21 purposes in two steps. First, the Company started with its approved O&M expense

1 budget for 2017. The approved budget includes significant increases in O&M  
2 expense compared to 2015 and the base year and includes numerous O&M expense  
3 initiatives without specifically identifying the related amounts. Second, it identified  
4 additional discretionary O&M expenses, not included in its approved budget, for  
5 various so-called “strategic O&M initiatives” that further increase the O&M expense  
6 and the revenue requirement in the test year.

7 The Company reflected certain of the additional strategic O&M initiatives  
8 expenses in the test year as discretionary ratemaking adjustments tied to revenue  
9 recovery. If the Commission does not include the additional discretionary O&M  
10 expense in the revenue requirement, then presumably the Company will not incur  
11 those expenses. The same likely is true for the strategic O&M initiatives expenses  
12 included in the approved budget.

13 The additional so-called strategic O&M initiatives are identified and  
14 described by Company witnesses Mr. Danny Cote and Ms. Kimra Cole as follows.<sup>4</sup>

15  
16 \$0.770 million in 2017 to accelerate the implementation of GPS technology  
17 not included in the approved O&M expense budget.

18  
19 \$0.500 million in 2017 to identify and inspect potential cross-bore locations  
20 not included in the approved O&M expense budget.

21  
22 \$0.012 million in 2017 for training center facility operating expenses not  
23 included in the approved O&M expense budget.  
24

---

<sup>4</sup>Cote Direct Testimony at 15-21.

1 **Q. Are these additional strategic O&M initiatives required for safety or reliability?**

2 A. No. If they were, then they would have been included in the approved O&M  
3 expense budget, not added as ratemaking adjustments to increase the revenue  
4 requirement. The Company has been subject to the Distribution Integrity  
5 Management requirements since 2011 and already complies with those requirements  
6 that are discussed at length by Company witness Mr. Cote.

7

8 **Q. Are these additional discretionary strategic O&M initiatives justified by**  
9 **savings?**

10 A. No.

11

12 **Q. What is your recommendation?**

13 A. I recommend that the Commission disallow the \$1.282 million in O&M expense  
14 associated with the additional “strategic O&M initiatives” not included in the  
15 approved budget if it does not adopt my overarching O&M expense  
16 recommendation. The amounts are discretionary and not necessary for safety or  
17 reliability purposes. They are not cost justified and represent an unnecessary  
18 increase in costs imposed on customers in the revenue requirement.

19

20 **C. Labor Expense Is Excessive and Driven By Increases in Staffing**

21

1 **Q. Please provide a history of the Company's staffing levels.**

2 A. The Company has significantly increased its staffing levels from 118 in January  
3 2013 to 158 at year end 2017,<sup>5</sup> despite the fact that the number of customers it serves  
4 has declined. This represents an extraordinary increase of 40 positions, or 34% in  
5 five years. The growth in the number of positions drives labor and related expenses  
6 and contributes to the excessive growth in O&M expense.

7  
8 **Q. How does the growth in the number of positions compare to the Company's**  
9 **forecast in Case No. 2013-0167?**

10 A. In Case No. 2013-0167, the Company projected that the positions would grow from  
11 119 to 131 during 2013, but would remain constant at 131 from year end 2013  
12 through year end 2016.<sup>6</sup>

13  
14 **Q. Has the Company justified these extraordinary increases in the number of**  
15 **positions and the related costs?**

16 A. No. The Company was asked to justify these increases in AG discovery. The  
17 company cited "wave" hiring in April 2015 and another projected "wave" hiring in

---

<sup>5</sup> Company's response to Staff 1-33 providing the number of positions by month and year for the most recent three calendar years, base period and test year. I have attached a copy of this response as my Exhibit\_\_(LK-5).

<sup>6</sup> Company's filing in Case No. 2013-0167 filing, FR 16(12)(h)(9), a copy of which I have attached as my Exhibit\_\_(LK-6).

1           January 2017, ostensibly to “backfill vacant positions.”<sup>7</sup> If this were correct, then  
2           the number of positions would remain relatively constant; instead, there has been  
3           extraordinary growth. The Company is creating new positions, not merely  
4           backfilling vacant positions.

5  
6   **Q.    What is your recommendation?**

7   A.    I recommend that the Commission disallow the labor and related expenses associated  
8           with the rampant growth in the number of positions compared to the 131 positions  
9           forecast in Case No. 2013-0167 if it does not adopt my overarching O&M expense  
10          recommendation. The Company operated with 130 positions as recently as January  
11          2015. The Commission should direct the Company to actively manage and constrain  
12          its expenses, including labor and related expenses. A disallowance will provide the  
13          Company an incentive to manage its operations with fewer positions. The reduction  
14          from present levels can be accomplished through attrition. The Company certainly  
15          should not be incentivized to increase positions even more as it proposes in January  
16          2017.

17  
18   **Q.    What is the effect of your recommendation?**

19   A.    The effect is a reduction in O&M expense and the revenue requirement of \$2.019

---

<sup>7</sup> Company’s response to AG 2-14, a copy of which I have attached as my Exhibit\_\_\_(LK-7).

1 million.<sup>8</sup>

2

3 **D. Meter Reading O&M Expense Is Excessive**

4

5 **Q. Please describe the Company's requested meter reading O&M expense.**

6 A. The Company requests \$0.547 million for meter reading O&M expense in the test  
7 year, according to its response to PSC 2-8.<sup>9</sup> This is an average of \$0.046 million per  
8 month.

9

10 **Q. How does the amount for this expense in the test year compare to the**  
11 **Company's actual meter reading expense?**

12 A. It is \$0.319 million more than the most recent actual meter reading expense on an  
13 annualized basis. The most recent actual meter reading expense from July 2015 (the  
14 month after the AMR installations were completed) through February 2016 (the  
15 forecast portion of the base year started in March 2016) was an average of \$0.019  
16 million per month, or \$0.228 million on an annualized basis, according to the  
17 Company's response to PSC 2-8.

18

19 **Q. What is your recommendation?**

---

<sup>8</sup> I provide the calculation of this amount on my Exhibit\_\_(LK-8).

<sup>9</sup> I have attached a copy of this response as my Exhibit\_\_(LK-9).

1 A. I recommend that the Commission reduce meter reading O&M expense and the  
2 revenue requirement by \$0.319 million if it does not adopt my overarching O&M  
3 expense recommendation.

4

5 **E. Uncollectible Accounts O&M Expense Is Excessive Due to an Error**

6

7 **Q. Please describe the uncollectible accounts expense included in the test year.**

8 A. The Company included \$1.262 million in uncollectible expense in the test year,  
9 comprised of \$1.655 million per books (shown in account 904 on Schedule C-2.2B),  
10 less a ratemaking adjustment of \$0.678 million (shown on WPD-2.4D), plus \$0.235  
11 million included through the gross revenue conversion factor applied to the operating  
12 income deficiency.<sup>10</sup>

13

14 **Q. Is the amount included by the Company in the test year correct?**

15 A. No. It should be \$0.775 million, consisting of \$0.540 million based on the test year  
16 revenues prior to the proposed increase (as shown on WPD-2.4D) plus the \$0.235  
17 million based on the Company's proposed increase, although the \$0.235 million may  
18 be less depending on the rate increase authorized by the Commission.

---

<sup>10</sup> The Company included uncollectible accounts expense of .923329% in the gross revenue conversion factor as shown on Schedule H-1 of its filing. I calculated the additional uncollectible accounts expense included in the revenue requirement through the gross revenue conversion factor by multiplying the 0.923329% times the Company's requested increase of \$25.408 million.



1           It appears that there is an error in the calculation of the ratemaking  
2 adjustment. The Company correctly calculated the uncollectible accounts expense  
3 prior to the proposed increase. However, the Company incorrectly calculated the  
4 ratemaking adjustment necessary to reduce the per books expense to the ratemaking  
5 expense. As I previously noted and sourced, the Company's per books uncollectible  
6 expense was \$1.655 million. Instead of subtracting this amount, the Company  
7 inexplicably subtracted a per books amount of \$1.219 million, which consisted of  
8 input value amounts and were not sourced to any other schedule or workpaper.

9  
10 **Q. How does the Company's uncollectible accounts expense for the test year**  
11 **compare to the base year?**

12 A. The Company's per books uncollectible accounts expense is \$0.813 million in the  
13 base year, or 1.63% of the \$50.028 million in residential gas for sales revenues in the  
14 base period. The Company proposes uncollectible accounts expense of 0.923329%  
15 on residential gas for sales revenues of \$49.634 million prior to the proposed rate  
16 increase in the test year, or \$0.540 million. These revenues amounts are shown on  
17 Schedule I-2 in the filing.

18  
19 **Q. What is your recommendation?**

20 A. I recommend that the Commission correct this error in the Company's filing and

1 reduce the uncollectible accounts expense and revenue requirement by \$0.436  
2 million if it does not adopt my overarching O&M expense recommendation. There  
3 will be an additional reduction in the uncollectible accounts expense related to the  
4 adjustments recommended by the AG. However, I have included this additional  
5 reduction in the quantifications for the various adjustments recommended by the AG  
6 and shown on the table in the Summary section of my testimony.

7  
8 **F. Advertising Expense Is Excessive**  
9

10 **Q. Please describe the Company's proposed increase in advertising expense in the**  
11 **test year.**

12 A. The Company proposes an increase of \$0.111 million in public awareness/pipeline  
13 safety and community support and other advertising, from \$0.079 million in the base  
14 year to \$0.190 million in the test year, according to Schedule F-6. This is a 141%  
15 increase in a discretionary and controllable expense. The Company provides no  
16 support for this significant increase. Although Company witnesses Ms. Croom and  
17 Mr. Noel address O&M expenses in the test year, neither witness nor any other  
18 witness addresses or supports this proposed increase in advertising expense.

19  
20 **Q. What is your recommendation?**

21 A. I recommend that the Commission reject this increase if it does not adopt my

1           overarching O&M expense recommendation. The Company offers no justification  
2           for this increase. The most recent actual/budget advertising expense reflected in the  
3           base year is better evidence of the reasonable amount of expense than an additional  
4           discretionary amount included in the test year that unnecessarily increases the  
5           revenue requirement and may or may not actually be incurred.

6  
7    **G. Professional Services Expense Is Excessive**  
8

9    **Q. Please describe the Company's proposed increase in professional services**  
10   **expenses in the test year.**

11   A. The Company proposes an increase of \$0.242 million in auditing and consulting  
12   services expense, from \$0.175 million in the base year to \$0.417 million in the test  
13   year, according to Schedule F-7. This is a 138% increase. The Company separately  
14   reflected the increase in auditing services expense from \$0.143 million in the base  
15   year to \$0.163 million in the test year and claims that it is due to fee increases.  
16   However, the Company provides no support for the proposed increase in "consulting  
17   services" from \$0.032 million to \$0.253 million, a 691% increase. Although  
18   Company witnesses Ms. Croom and Mr. Noel address O&M expenses in the test  
19   year, neither witness nor any other witness addresses or supports this proposed  
20   increase in consulting services expense.

21

1 **Q. What is your recommendation?**

2 A. I recommend that the Commission reject the increase in consulting services expense  
3 if it does not adopt my overarching O&M expense recommendation. The Company  
4 offers no justification for this increase. The most recent actual/budget consulting  
5 services expense reflected in the base year is better evidence of the reasonable  
6 amount of expense than an additional discretionary amount included in the test year  
7 that unnecessarily increases the revenue requirement and may or may not actually be  
8 incurred.

9

10 **H. NiSource Corporate Services Company Management Fee Is Excessive**

11

12 **Q. Please describe the NiSource Corporate Services Company (“NCSC”)**  
13 **management fee expense reflected in the revenue requirement.**

14 A. The Company includes \$17.442 million for the management fee in the revenue  
15 requirement. This represents an increase of \$1.541 million over the projection of  
16 \$15.901 million for the base period, a total increase of 9.7%, or a compound annual  
17 growth rate of 7.3%, more than three times the rate of inflation.

18 The NCSC charges to the Company consist of direct charges incurred to  
19 provide specific services to the Company and allocated charges for costs common to  
20 the Company and other affiliates when it is not practical or possible to direct

1 charge.<sup>11</sup>

2

3 **Q. Please describe the growth in NCSC charges to the Company since 2012.**

4 A. The growth has been significant and relentless. Total charges (expense and capital)  
5 have increased from \$13.449 million in 2012 to \$20.006 million in 2017, a total  
6 increase of \$6.557 million. This represents an increase of 49%, or a compound  
7 annual growth rate of 8.3%, an exorbitant growth rate at more than four times the  
8 rate of inflation.

9

10 **Q. Has the Company justified this level of growth?**

11 A. No. The Company has provided data that shows where the growth occurred, but has  
12 not justified its inability to control the growth in these NCSC charges.<sup>12</sup>

13

14 **Q. What is your recommendation?**

15 A. I recommend that the Commission include only \$16.326 million in the test for the  
16 NCSC management fee, or a reduction of \$1.116 million, if it does not adopt my  
17 overarching O&M expense recommendation. This represents a 2.0% annual growth  
18 rate compared to the base period and still reflects the excessive growth projected in

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<sup>11</sup> See FR 16(7)(u) filed in this proceeding for a description of the NCSC billing process, the allocation bases, and a summary of charges to the Company since 2012.

<sup>12</sup> Company responses to AG 2-16 and 2-20.

1 the base period.

2

3 **I. Third Party Damage Reimbursements Are Understated, Resulting in Excessive**  
4 **O&M Expense**

5

6 **Q. Please describe how the Company accounts for third party damage**  
7 **reimbursements.**

8 A. The Company records the reimbursements as a reduction (credit) to O&M expense,  
9 according to its response to AG 2-19.<sup>13</sup>

10

11 **Q. What was the credit to O&M expense in the test year and how does that**  
12 **compare to the credits historically?**

13 A. The Company credited \$0.099 million to O&M expense in the test year, according to  
14 its response to AG 2-19. This credit is a fraction of the credits recorded in prior  
15 years. For example, in 2015, the Company recorded a credit of \$0.378 million.

16

17 **Q. What is your recommendation?**

18 A. I recommend that the Commission reflect the same credit in the test year as the  
19 Company actually recorded in 2015, the most recent year for which actual  
20 information is available, if it does not adopt my overarching O&M expense

---

<sup>13</sup> I have attached a copy of this response as my Exhibit\_\_\_(LK-10).

1 recommendation. To the extent the Company argues that its recoveries will decline  
2 due to its initiatives to reduce such third party damages, then the O&M expense also  
3 should decline; however, the Company's filing did not reflect any such reductions.  
4 In any event, I recommend the same adjustment of whether it is viewed as an increase  
5 in the credit for third party reimbursements or a reduction in the O&M expense  
6 incurred in the first place to remedy the third party damages.

7  
8 **J. Depreciation Rates and Expense Are Excessive; Change to ELG Procedure Is**  
9 **Not Reasonable**  
10

11 **Q. Please describe the Company's request to change its depreciation rates.**

12 A. The Company proposes to change its depreciation rates effective at the beginning of  
13 the test year to reflect the results of the depreciation study performed by Mr. John  
14 Spanos with a study date of December 31, 2015. Mr. Spanos proposes a  
15 fundamental change in the determination of depreciation rates to use the Equal Life  
16 Group ("ELG") procedure instead of the Average Service Life ("ASL") procedure.  
17 The Company's approved depreciation rates reflect the ASL procedure and, to the  
18 best of my knowledge, have never reflected the ELG procedure. Although Mr.  
19 Spanos proposes a change to the ELG procedure, he also provided the depreciation  
20 rates using the ASL procedure in response to AG discovery.<sup>14</sup>

---

<sup>14</sup>Company's response to AG 1-9, a copy of which I have attached as my Exhibit\_\_\_\_(LK-11).

1

2 **Q. How do the ELG and ASL depreciation rates resulting from Mr. Spanos' study**  
3 **compare to the present depreciation rates?**

4 A. For most plant accounts, the proposed ELG and ASL depreciation rates are  
5 significantly greater than the present ASL depreciation rates. As is typically the  
6 case, the ELG depreciation rates are significantly greater than the ASL rates using  
7 the same depreciation parameters (interim retirement curves, cost of removal, gross  
8 salvage, average service lives). The Company provided a comparison of the present  
9 depreciation rates, the proposed ELG rates, and the ASL rates in response to AG  
10 discovery.<sup>15</sup>

11 Using the plant balances in the depreciation study, the present depreciation  
12 rates produce \$8.731 million in annual depreciation expense.<sup>16</sup> The proposed ELG  
13 depreciation rates produce \$14.091 million in annual depreciation expense.<sup>17</sup>  
14 Alternatively, the ASL depreciation rates produce \$10.860 million in annual  
15 depreciation expense. In other words, even if all parameters in the depreciation  
16 study are accepted, the proposed change to the ELG procedure alone increases  
17 depreciation expense by \$3.231 million compared to the ASL procedure using plant

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<sup>15</sup> *Id.*

<sup>16</sup> Company's response to AG 1-13 (Attachment A), a copy of which I have attached as my Exhibit\_\_\_(LK-12).

<sup>17</sup> Company's response to AG 1-1 (Attachment C), a copy of which I have attached as my Exhibit\_\_\_(LK-13).



1 balances at December 31, 2015. The test year effect is even greater due to the  
2 increases in plant balances.

3  
4 **Q. Does the Company recover the entirety of its plant balances regardless of**  
5 **whether the ELG or ASL procedure is used?**

6 A. Yes. The difference is in the timing of the recovery. Under the ELG procedure,  
7 particularly if it is adopted after the utility historically has used the ASL procedure,  
8 the capital recovery periods are accelerated and shortened, and thus, the depreciation  
9 rates are greater than if the ASL procedure is used and/or maintained. This result is  
10 borne out by the significantly greater ELG depreciation rates compared to the ASL  
11 rates resulting from the Company's depreciation study.

12  
13 **Q. Why is that?**

14 A. The ELG procedure utilizes a statistical technique that stratifies vintage year plant  
15 data into equal life groups and depreciates each equal life group over its remaining  
16 life so that the plant balance in each group is fully depreciated at the end of its life.  
17 The ASL procedure averages all plant balances in the account and depreciates the  
18 balance over the remaining life of the entire group. To illustrate this point, assume  
19 that the analyst stratifies the data so that for hypothetical account 999 1980 vintage  
20 equal life group, there is a gross plant balance of \$100 and accumulated depreciation

1 of \$80 at the study date of June 30, 2016. Assume further that the remaining life for  
2 the account is 40 years. This 1980 vintage equal life group must be fully depreciated  
3 by June 30, 2020, so the depreciation will be \$5 or 5.0% for the next four years using  
4 the ELG procedure. The depreciation expense is determined in a similar manner for  
5 each vintage equal life group and declines for the account in each subsequent vintage  
6 year due to the longer remaining life, all else equal. The resulting depreciation  
7 expense is summed and then divided by the gross plant to determine the weighted  
8 average depreciation rate. This process is repeated by the analyst in each  
9 depreciation study.

10  
11 **Q. Is the ELG procedure more accurate than the ASL procedure?**

12 A. No. First, at its very heart, the ELG procedure is simply an alternative statistical  
13 methodology to determine the timing of depreciation expense and recovery. The  
14 result of the ELG procedure is to accelerate recovery in the early years and  
15 decelerate recovery in the latter years compared to the ASL procedure on vintage  
16 year plant balances, all else equal.

17 Second, although the ELG procedure requires a more refined stratification of  
18 the data, this stratification is itself the result of judgment and assumptions, which are  
19 subject to the discretion of the analyst and easily biased, whether intentionally or  
20 unintentionally. Thus, the claimed precision is illusory at best and easily biased at

1           worst.

2                     Third, both the ELG and ASL procedures require estimates of all parameters,  
3           which inherently are subject to change based on actual results each time another  
4           depreciation study is performed. For example, the interim retirement curves  
5           frequently change from depreciation study to depreciation study, which then requires  
6           a recalibration of the equal life groups and belies the alleged accuracy of the ELG  
7           procedure.

8

9   **Q.   Should the Commission adopt the Company's proposal to change to the ELG**  
10 **procedure from the ASL procedure?**

11 A.   No. There is no compelling reason to unnecessarily increase depreciation rates and  
12   expense. The ASL procedure is fully compensatory and provides the Company full  
13   recovery of its plant costs, which includes the time value of the recovery because  
14   plant costs are included in rate base and earn a return until they are depreciated. The  
15   ASL procedure is as accurate as the ELG procedure, but smooths the data so that the  
16   depreciation rates for the group tend to remain constant, all else equal, over the  
17   service life compared to the ELG procedure, which results in greater depreciation  
18   rates initially, but then lower depreciation rates as each equal life group is assumed  
19   fully retired. The ASL procedure provides a normalized depreciation expense for  
20   ratemaking purposes, all else equal.

1

2 **Q. What is the effect of your recommendation to reject the Company's request to**  
3 **change to the ELG procedure from the ASL procedure?**

4 A. The effect is a reduction in the revenue requirement of \$3.427 million, comprised of  
5 a \$3.558 million reduction in depreciation expense, and an increase in the return on  
6 rate base of \$0.131 million.<sup>18</sup>

7

8 **K. Property Tax Expense Is Excessive**

9

10 **Q. Please describe how the Company calculated property tax expense in the test**  
11 **year.**

12 A. The Company calculated an effective property tax rate for 2015 of 1.2726% and then  
13 escalated it 1.5% annually for 2016 and 2017, according to its response to AG 1-7.  
14 The resulting property tax rate of 1.3111% was applied to the sum of the assessed  
15 value at December 31, 2014, 2015 plant additions, and 2016 plant additions, as  
16 shown on Workpaper WPD-2.4H.

17

18 **Q. Should the Commission adopt the Company's proposed property tax expense?**

19 A. No. There are two problems in the calculation. First, the valuation is overstated  
20 because the Company used gross plant additions for the increase in the assessed

---

<sup>18</sup>The calculations of these amounts are shown on my Exhibit\_\_\_\_(LK-14).

1 value; it failed to reduce the gross plant additions by the increase in accumulated  
2 depreciation in 2015 and 2016. The valuation is based on net plant, not gross plant,  
3 and the Company calculated the 2015 property tax rate based on net plant, not gross  
4 plant. The increase in accumulated depreciation in 2015 and 2016, net of  
5 retirements, is approximately \$9 million. Second, the Company assumed that the  
6 effective property tax rate would escalate 1.5% per year. No witness provided any  
7 testimony in support of this assumption.

8  
9 **Q. What is your recommendation?**

10 A. I recommend that the Commission reduce property tax expense to reflect a reduction  
11 in the assessed value at December 31, 2016 to reflect the increase in accumulated  
12 depreciation in 2015 and 2016 and reflect a reduction in the effective property tax  
13 rate to the actual rate in 2015.

14  
15 **Q. What is the effect of your recommendation?**

16 A. The effect is a reduction in the revenue requirement of \$0.230 million.<sup>19</sup>

17  
18 **III. RATE BASE ISSUES**  
19

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<sup>19</sup>The calculations are shown on my Exhibit\_\_\_(LK-15).

1 **A. Construction Cost Slippage Experience on Non-AMRP Projects Should Be**  
2 **Applied to Reduce Plant-Related Rate Base Costs and Operating Expenses, Not**  
3 **Increase Them**  
4

5 **Q. Please describe the Company's request to increase rate base for construction**  
6 **cost slippage.**

7 A. The Company included \$2.165 million in rate base and \$0.064 million in  
8 depreciation expense to reflect a so-called 5.3% slippage factor.<sup>20</sup> The Company  
9 applied this 5.3% slippage factor to all plant additions, both non-AMRP and AMRP,  
10 reflected in the capital budget from March 2016 through December 2017, and which  
11 are included in test year rate base, as shown on its WPB 2.2.<sup>21</sup>

12 The Company used this slippage factor to increase capital expenditures, plant  
13 additions, accumulated deferred income taxes, and depreciation expense.

14  
15 **Q. What is the basis for this proposed 5.3% slippage factor?**

16 A. The Company calculated the proposed 5.3% slippage factor as the average of  
17 historical experience for both non-AMRP and AMRP actual capital expenditures  
18 compared to budgeted capital expenditures for the ten years 2006-2015. The non-  
19 AMRP slippage factor is negative 6.7% (actual capital expenditures are less than  
20 budget) and the AMRP slippage factor is 21.1% (actual capital expenditures are

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<sup>20</sup> The calculations of these amounts are shown on my Exhibit\_\_\_(LK-16).

<sup>21</sup> The Company provided the electronic version of this workpaper in response to AG 1-1.

1 more than budget). In the last 3 years, the non-AMRP slippage factor averaged  
2 negative 5.6% and the AMRP averaged 25.3%.<sup>22</sup>

3  
4 **Q. Should the Commission apply a 5.3% slippage factor to the projected plant**  
5 **additions and retirements from March 2016 through December 2017?**

6 A. No. Fundamentally, it is inappropriate to apply *any* slippage factor to the AMRP  
7 plant additions. The Company recovers the entirety of the actual AMRP plant costs  
8 through the AMRP rider, whether more or less than the budgeted costs.<sup>23</sup> The  
9 AMRP rider includes a true-up provision. If the actual AMRP plant costs are more  
10 than budgeted, then the Company will recover those costs through the AMRP. In  
11 fact, the Company has an incentive to incur and include additional costs in the  
12 AMRP rider because the recovery increases the Company's earnings with almost no  
13 regulatory lag. If there was or is any forecast/budget error in the plant additions or  
14 any mismatch between actual costs and the costs subject to the roll-in, then this  
15 difference will be reflected in the AMRP rider true-up filing.

16  
17 **Q. What slippage factor should be applied in this case?**

18 A. The Commission should apply a negative 6.7% slippage factor to the non-AMRP

---

<sup>22</sup> Company response to Staff 2-4. I have attached a copy of this response as my Exhibit\_\_\_(LK-17).

<sup>23</sup> Cooper Direct Testimony at 14-15. Ms. Cooper describes the manner in which the Company recovers the AMRP costs through the AMRP Rider and the manner in which it will true-up the amount included in the base revenue requirement and its actual spend in the test year when the AMRP Rider is reset for calendar year 2018.

1 plant additions and retirements to reflect the Company's actual experience in  
2 spending less than budgeted on the non-AMRP plant. The Company is made whole  
3 on spending greater than budgeted on AMRP plant through the AMRP rider.  
4

5 **Q. What is the effect on the revenue requirement of your recommendation?**

6 A. The effect is a reduction in the revenue requirement of \$0.710 million, comprised of  
7 \$0.599 million due to the reduction in rate base and \$0.111 million due to the  
8 reduction in depreciation.<sup>24</sup> I show the revenue requirement effects of the reduction  
9 in rate base in the Rate Base section and the reduction in depreciation expense in the  
10 Operating Income section of the table in the Summary section of my testimony.  
11

12 **B. New Incremental Capital Initiatives Are Not Required or Cost Justified**  
13

14 **Q. Please describe the incremental capital costs added to the capital budget in the**  
15 **test year for ratemaking purposes by the Company.**

16 A. The Company developed the plant related costs included in the test year for

---

<sup>24</sup> The calculations are shown on my Exhibit\_\_\_(LK-18). This includes the effects on plant in service, accumulated depreciation, ADIT, and depreciation expense. The Company did not separately show the non-AMRP and AMRP capital expenditures and plant additions in its filing. Consequently, after I removed the 5.3% slippage factor applied to all (non-AMRP and AMRP) capital expenditures from March 2016 through December 2017 in the Company's workpapers, I then applied the negative 6.7% slippage factor to all capital expenditures. I recognize that this overstates the effect on the base revenue requirement, all else equal. The Company may choose to revise this calculation in its Rebuttal Testimony. If not, then the Company will be able to true up to the actual AMRP capital expenditures in its AMRP true-up filings.



1           ratemaking purposes in three steps.<sup>25</sup> First, the Company relied on its approved  
2           capital budgets for 2016 and 2017 to determine plant additions in the base year  
3           through the end of the test year. Second, it identified additional discretionary capital  
4           costs, not included in its approved capital budgets, for various so-called “capital  
5           initiatives” that increased the plant additions in the base year and through the end of  
6           the test year. Third, it applied a “slippage” factor that increased both the budgeted  
7           and additional discretionary plant additions by 5.3% in the base year and through the  
8           end of the test year.<sup>26</sup>

9           The Company reflected the additional capital costs in the base year and  
10          through the end of the test year as discretionary ratemaking adjustments tied to  
11          revenue recovery. If the Commission does not include the discretionary capital costs  
12          in the revenue requirement, then presumably the Company will not incur those costs.  
13          The so-called “capital initiatives” are identified and described by Company witness  
14          Mr. S. Mark Katko as follows.<sup>27</sup>

15                 \$0.900 million in 2016 and \$2.000 million in 2017 not included in the “age  
16                 and condition” category in the approved capital budget.

17                 \$1.882 million in 2017 for a new “training facility” not included in the  
18                 approved capital budget.  
19  
20

---

<sup>25</sup> Plant related costs start with capital expenditures and include plant additions and retirements, depreciation expense and accumulated depreciation, current and deferred income tax expense and accumulated deferred income taxes.

<sup>26</sup> Katko Direct at 4, 8.

<sup>27</sup> *Id.*, 5-6.

1           \$1.326 million in 2017 for global positioning system (“GPS”) technology not  
2 included in the approved capital budget.

3  
4           \$0.630 million in 2017 for replacement of mobile data terminals (“MDT”)  
5 not included in the approved capital budget.  
6

7           The Company simply lists, but provides no additional description or support  
8 for, the proposed increase in capital expenditures and plant additions for “age and  
9 condition.” Company witness Mr. Cote provides additional descriptions and support  
10 for the proposed new training facility and GPS technology. Company witness Mr.  
11 Cole provides additional description and support for the proposed replacement  
12 MDTs.  
13

14 **Q. Are the incremental “age and condition” discretionary capital expenditures**  
15 **consistent with the Company’s historic or post-test year “age and condition”**  
16 **capital expenditures?**

17 A. No. The Company’s “age and condition” incremental capital expenditures result in  
18 an anomalous result for 2016 and 2017 compared to the approved budgets and  
19 forecasts for this category in the twelve months ending May 2016, base period, and  
20 the forecast years 2018 and 2019. More specifically, the Company’s “age and  
21 condition” capital expenditures are shown as \$12.4 million for the twelve months  
22 ending May 2016, \$13.2 million for the base period, and \$15.2 million for the  
23 forecast years 2018 and 2019, according to the information provided in response to

1 FR-16(7)(d). In contrast to this pattern of steady budget/forecast increases in this  
2 category, the Company's proposed slippage and incremental capital expenditures  
3 increase the 2016 amount to \$16.2 million and the test year amount to \$18.2 million,  
4 adding \$1.7 million to the 2016 approved capital expenditures of \$14.5 million,  
5 which are rolled forward into the test year, and \$2.9 million to the 2017 approved  
6 capital expenditures of \$15.3 million.

7  
8 **Q. What is your conclusion regarding the "age and condition" incremental capital**  
9 **expenditures?**

10 A. The Company's proposed ratemaking adjustments appear to be nothing more than an  
11 effort to increase the test year rate base and revenue requirement for costs that it may  
12 not even incur or that it otherwise might incur in years after the test year. The  
13 Company has not justified any increase in this category for ratemaking purposes. The  
14 Company has not identified any specific projects that are required, but were not in  
15 the approved budget, or even if they are required, why it cannot reduce capital  
16 expenditures on other projects in this or other categories.

17  
18 **Q. If these capital initiatives are discretionary and are not included in the**  
19 **Company's approved capital budget, then should the Commission require**  
20 **savings sufficient to justify including the costs in the revenue requirement?**

1 A. Yes. The incremental capital expenditures should not be included in the revenue  
2 requirement unless there are savings sufficient to justify the costs. The expenditures  
3 are not required for safety or customer service. If they were required, they would  
4 have been included in the approved capital budgets for 2016 and 2017, which are  
5 subject to management scrutiny and approval in the normal course of business. The  
6 discretionary capital initiatives obviously are timed to coincide with the test year in  
7 this proceeding and increase the revenue requirement.

8           Consequently, the Commission should carefully review the need for these  
9 projects, assess them on an economic basis, and determine whether they result in  
10 savings in the test year or recurring savings that will pay back the discretionary  
11 capital costs without imposing unnecessary and uneconomic costs on the Company's  
12 customers.

13

14 **Q. Are these discretionary capital initiatives justified on an economic basis?**

15 A. No. First, the Company has provided no justification for the discretionary age and  
16 condition capital initiative. This appears to be a case where the Company simply  
17 added capital expenditures to its capital budgets to increase the test year rate base  
18 and revenue requirement. The Company has not proposed or described an actual  
19 "age and condition initiative." At best, these costs are simply incremental capital  
20 expenditures in the normal course of business, not included in the approved capital

1 budget, controllable by the Company, and avoidable. Even if the Commission  
2 includes the additional costs in rate base and the revenue requirement, the costs still  
3 are discretionary. The Company may not actually incur the costs. In that case, the  
4 Company will have successfully increased its revenues simply through a forecast  
5 assumption untethered to its actual capital expenditures.

6 Second, the Company has not justified the proposed training center on an  
7 economic basis, despite multiple discovery requests by the AG and the Commission  
8 Staff to provide this information. In AG 1-17, the AG sought a copy of “all cost  
9 benefit analyses for the proposed training center compared to the status quo.” In its  
10 response, the Company stated “refer to the Columbia Gas of Kentucky’s Application  
11 for a Declaratory Order, Case No. 2016-00181 for a complete description of the  
12 proposed training center and related costs and benefits.” The Application in Case  
13 No. 2016-00181 does not identify or quantify any savings.

14 In response to Staff 1-25 for cost benefit information, the Company referred  
15 to its Application in Case No. 2016-00181. The Application in that proceeding cites  
16 a capital cost of \$1.955 million, a service life of 30 years and incremental O&M  
17 expense of \$0.012 million. The Application also asserts that no debt will be issued  
18 for the facility. If there is no debt issued, then it necessarily will be financed with  
19 common equity in the form of retained earnings. The incremental O&M expense  
20 apparently reflects only facility operating costs and includes no cost for instructors or

1 materials, which likely would be incurred for the training facility to provide  
2 functional and useful training.

3 In its response to Staff 1-25, the Company also claimed that if the facility was  
4 not constructed, it would incur incremental travel costs of \$0.315 million to send its  
5 employees to training centers in Ohio or Pennsylvania. However, the Company does  
6 not presently incur these costs, even in the absence of the new training facility, and  
7 did not include these costs in its approved O&M expense budget for the first 10  
8 months of the test year until the proposed new facility would be operational in  
9 November 2017.

10 At a minimum, the new training facility will increase costs by \$0.433 million  
11 for an equity only return on the capital cost, income taxes on the equity return,  
12 depreciation expense, and incremental O&M expense on an annual basis, although  
13 the O&M expense included in the test year does not reflect the annualized expense  
14 and obviously is understated even for the two months the facility would be in  
15 service.

16 Third, the Company has not justified the GPS technology initiative on an  
17 economic basis. It claims that “[p]otential savings would not be realized until GPS  
18 data collection is substantially complete in a specific geographic region,” according  
19 to its response to Staff 2-29(d). Instead of savings, the Company proposes to  
20 compound the cost of the discretionary capital initiative with an incremental O&M

1 expense of \$0.770 million for the related strategic O&M initiative to “accelerate this  
2 GPS effort,”<sup>28</sup> which it also included in the revenue requirement.

3 Fourth, the Company has not justified the MDT capital initiative on an  
4 economic basis. In fact, it was unable to quantify any savings in response to Staff 2-  
5 27(c), although it appears that it included \$0.059 in maintenance expense on the  
6 MDTs in the test year, according to its response to Staff 2-27(b). If the Commission  
7 authorizes the capital cost for the MDT in the revenue requirement, then it should  
8 remove this maintenance expense.

9  
10 **Q. What is your recommendation?**

11 A. I recommend that the Commission exclude the costs of these discretionary capital  
12 initiatives from rate base and the revenue requirement. They were not included in  
13 the approved capital budget. They are discretionary. They are not necessary for  
14 safety or reliability. They are not economic and impose unnecessary costs on  
15 customers.

16  
17 **Q. What is the effect of your recommendation on the revenue requirement?**

18 A. The effect is a reduction in the revenue requirement of \$0.564 million, comprised of  
19 \$0.456 million due to the reduction in rate base and \$0.108 million due to the

---

<sup>28</sup> Cote Direct Testimony at 16.

1 reduction in depreciation.<sup>29</sup> I show the revenue requirement effects of the reduction  
2 in rate base in the Rate Base section and the reduction in depreciation expense in the  
3 Operating Income section of the table in the Summary section of my testimony.  
4

5 **C. Cash Working Capital is Excessive and Should be Reduced to \$0 in the Absence**  
6 **of A Valid Lead/Lag Study**  
7

8 **Q. Please describe the Company's request for a cash working capital allowance in**  
9 **rate base.**

10 A. The Company included a cash working capital ("CWC") allowance of \$5.637  
11 million based on the one-eighth O&M expense methodology.<sup>30</sup>  
12

13 **Q. Is this methodology reasonable?**

14 A. No. It is outdated and inaccurate. The methodology is simple, but does not reflect  
15 the leads and lags in the Company's operating cash flows. Only the lead/lag study  
16 approach measures these leads and lags and accurately determines the average  
17 investment by either the Company's customers or its investors. In fact, the Company  
18 does not support this methodology as superior to the lead/lag methodology and  
19 claims that the only basis for using this methodology in this proceeding is that it has

---

<sup>29</sup> The calculations are shown on my Exhibit\_\_(LK-19). This includes the effects on plant in service, accumulated depreciation, ADIT, and depreciation expense.

<sup>30</sup> Schedule B-5.2.



1           been accepted by the Commission in previous proceedings, according to its response  
2           to AG 1-6(a).

3  
4     **Q.    Has NiSource, the Company's parent and owner of numerous other natural gas**  
5     **and electric utilities, performed and filed lead/lag studies in other jurisdictions?**

6     A.    Yes.  Consequently, there is no need to guess at the results of a lead/lag study if one  
7           had been performed by the Company for this case.  NiSource utilities are required to  
8           use the lead/lag methodology in Ohio, Massachusetts, Virginia, and Maryland,  
9           according to the Company's response to AG 1-6(b).  The Company provided a copy  
10          of the cash working capital studies and the related direct testimony filed by NiSource  
11          natural gas utilities since 2012 in response to AG 1-6(c).

12                 These studies all result in negative cash working capital if the studies are  
13                 adjusted to remove non-cash items and balance sheet items in accordance with  
14                 standard practice for lead/lag studies and if the revenue lag days are adjusted in the  
15                 Massachusetts studies to reflect the revenue lag days consistent with the Company's  
16                 billing practices in Kentucky.  Although the Company did not perform a cash  
17                 working capital study using the lead/lag methodology in this proceeding, there is no  
18                 reason to believe that the result of a Company-specific lead/lag study would be  
19                 positive cash working capital when the results for its affiliates all are negative when  
20                 adjusted properly.

1

2 **Q. What is your recommendation?**

3 A. I recommend that the Commission set the Company's cash working capital at \$0 in  
4 the absence of a properly performed lead/lag study, even though there is little doubt  
5 that it should be negative. The one-eighth of O&M expense methodology is  
6 outdated and inaccurate. All the Company's lead/lag studies in other jurisdictions,  
7 when properly adjusted, demonstrate unequivocally that a properly performed cash  
8 working capital study results in negative cash working capital, meaning that  
9 customers provide the Company with capital to fund other rate base investments.

10

11 **Q. Have you quantified the effect of your recommendation?**

12 A. Yes. The effect is to reduce the revenue requirement by \$0.687 million. I multiplied  
13 the Company's proposed cash working capital times the Company's grossed-up rate  
14 of return.

15

16 **D. Net Operating Loss ("NOL") Accumulated Deferred Income Taxes ("ADIT") Is**  
17 **Excessive Because It Does Not Reflect Taxable Income from Rate Increase**

18

19 **Q. Please describe the NOL ADIT included by the Company in rate base.**

20 A. The Company included \$1.258 million in NOL ADIT (an asset) in rate base, as  
21 shown on WPB-6 Sheet 2 of 3. The Company calculated this amount based on

1 projected taxable income for the test year as shown on Attachment A provided in  
2 response to AG 1-20(a), although this response does not provide the calculation of  
3 taxable income in 2016 or 2017 sought in the request.  
4

5 **Q. Is the NOL ADIT included by the Company in rate base correctly calculated for**  
6 **the test year?**

7 A. No. It should be \$0. The Company's calculation assumes that there will be *no* rate  
8 increase, according to its response to AG 1-20(b). If there is a rate increase of at  
9 least \$3.514 million, an amount equal to the NOL ADIT divided by the income tax  
10 rate, then the taxable income in the test year will be sufficient to fully utilize the  
11 NOL carryforward and there will be no NOL ADIT at the end of the test year, all  
12 else equal.  
13

14 **Q. In its response to AG 1-20(d), the Company states "The NOL ADIT could be**  
15 **eliminated if the Commission grants a rate increase in this proceeding, all else**  
16 **equal. As explained in the response to AG Set 1-20(c), the consolidated group in**  
17 **which Columbia files a federal return must utilize NOL in order for the**  
18 **Columbia's NOL to be monetized." Should the Commission consider whether**  
19 **the "consolidated group" has sufficient taxable income to utilize the NOL**  
20 **carryforward?**

1 A. No. The Company calculated income tax expense and ADIT as if it filed a separate  
2 tax return on a standalone basis, consistent with Commission precedent. This  
3 methodology ignores consolidated tax savings and maximizes the income tax  
4 expense included in the revenue requirement. The Commission should not consider  
5 the NiSource consolidated income tax calculation on this single income tax issue  
6 unless it is prepared to reconsider the broader issue of whether consolidated tax  
7 savings should be reflected in the revenue requirement.

8

9 **Q. Have you quantified the effect of your recommendation?**

10 A. Yes. The effect is to reduce the revenue requirement by \$0.153 million. I multiplied  
11 the Company's proposed NOL ADIT times the Company's grossed-up rate of return.

12

#### 13 **IV. COST OF CAPITAL QUANTIFICATIONS**

14

15 **A. Common Equity Is Overstated and Short Term Debt Is Understated**

16

17 **Q. Have you reviewed the Company's calculation of the common equity**  
18 **capitalization in the test year?**

19 A. Yes. The Company's proposed capital structure and cost of capital is shown on  
20 Schedule J-1.1. It reflects 52.42% common equity, 46.32% long term debt, and  
21 1.26% short term debt. This schedule is sponsored by Company witness Mr. Paul

1 Moul.

2 Mr. Moul provides further detail on the capital structure in Attachment A  
3 PRM-5 attached to his Direct Testimony. He shows the actual capital structure at  
4 February 29, 2016, the projected capital structure at the end of the base period at  
5 August 31, 2016, the projected capital structure at the end of the test year at  
6 December 31, 2017, and the 13 month average for the test year.

7 On Attachment A PRM-5, Mr. Moul further separates the common equity  
8 into common stock, which does not change from period to period, additional paid in  
9 capital, which does not change from period to period, and retained earnings, which  
10 changes to reflect the net of the earnings (increases) and dividends (reductions) from  
11 period to period. The increase in retained earnings from August 31, 2016 to  
12 December 31, 2017 is \$17.469 million, or an average of net income less dividends of  
13 \$1.1 million per month. This reflects the Company's projected net income *after* the  
14 rate increase in this proceeding, assuming that all costs are approved and reflected in  
15 the revenue requirement. This also reflects no common dividend in the test year,  
16 according to Schedule K Sheet 3 of 4.

17

18 **Q. Is the Company's assumption that it will pay no common dividend in the test**  
19 **year reasonable?**

20 A. No. It has paid a common dividend since 2008, according to the financial metrics

1 shown on Schedule K Sheet 3 of 4. It paid a common dividend of \$8.0 million in  
2 2015 and projects a dividend of \$4.0 million in the base period. It just simply  
3 assumed that it would not pay a dividend at all in the test year, although no witness  
4 provided any support for that assumption, including Mr. Moul, who sponsors the  
5 capital structure and costs of each component for the test year.

6  
7 **Q. What is your recommendation?**

8 A. I recommend that the Commission assume that the Company will pay a common  
9 dividend of \$4.0 million in the test year, the same dividend it assumed in the base  
10 period. This assumption is consistent with the Company's history. The Company's  
11 assumption is not. This recommendation will reduce common equity and increase  
12 short term debt.

13  
14 **Q. Have you quantified the effect of your recommendation for less equity and more**  
15 **debt in the capital structure?**

16 A. Yes. This recommendation reduces the revenue requirement by \$0.616 million. The  
17 calculations are detailed on my Exhibit\_\_\_\_(LK-3).<sup>31</sup>

18  

---

<sup>31</sup> In Section I of that exhibit, I replicate the Company's proposed capital structure and calculated the grossed-up cost of capital. In Section II, I modify the capital structure to reflect this recommendation. I calculate the difference in the grossed up cost of capital and multiply it times the rate base, as adjusted by the AG recommendations.

1 **B. Quantification of AG's Recommendation for Cost of Short Term Debt**  
2

3 **Q. Have you quantified the effect of the AG's recommendation for the cost of**  
4 **short-term debt?**

5 A. Yes. Mr. Baudino recommends a reduction in the cost of short term debt to 1.0%  
6 from 2.50%. This recommendation reduces the revenue requirement by \$0.096  
7 million.<sup>32</sup>  
8

9 **C. Quantification of AG's Recommendation for Return on Equity**  
10

11 **Q. Have you quantified the effect of the AG's recommendation for the return on**  
12 **common equity?**

13 A. Yes. Mr. Baudino recommends a return on equity of 9.0%. This recommendation  
14 reduces the Company's revenue requirement by \$4.033 million. Each 10 basis  
15 points in the return on equity in either direction affects the revenue requirement by  
16 \$0.202 million. This amount is incremental to the reductions in the revenue  
17 requirement for the AG recommendations on the capital structure and cost of short  
18 term debt.  
19

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<sup>32</sup> The calculations are detailed in Section III on my Exhibit\_\_(LK-3). I calculate the difference in the grossed up cost of capital in Section III compared to Section II and multiply it times the rate base, as adjusted by the AG recommendations.

1           **V. ACCELERATED MAIN REPLACEMENT PROGRAM AND RIDER**  
2

3    **A. Commission Should Reject Proposal to Expand Scope of AMRP**

4    **Q. Please describe the Company's proposal to expand the scope of the AMRP and**  
5    **recovery of costs through the AMRP rider.**

6    A. The Company proposes to include the replacement of Aldyl-A and various other  
7    types of plastic pipe in the AMRP and AMRP rider. The Company presently  
8    replaces segments of first generation plastic pipe when leaks are found or when the  
9    Optimain risk score indicates it should be replaced.<sup>33</sup> The Company does not  
10   propose any change to this process. The Company does not propose a specific or  
11   comprehensive replacement plan.

12           The Company also proposes to include the replacement of meter families that  
13   fail its statistical meter sampling program in the AMRP and AMRP rider. The  
14   Company presently replaces these meters when they fail.<sup>34</sup> The Company does not  
15   propose any change to this process.

16  
17   **Q. What revisions does the Company propose to the AMRP tariff and the**  
18   **calculation of the revenue requirements?**

19   A. The company proposes no change to the AMRP rider tariff language or the

---

<sup>33</sup> Belle Direct Testimony at 14-15.

<sup>34</sup> Cooper Direct Testimony at 11-12.



1 calculation of the revenue requirements to include the cost of replacement plastic  
2 pipe. The Company proposes a change to the AMRP rider tariff language and the  
3 calculation to include the cost of failed meters and the “associated operation and  
4 maintenance expense.” The “ongoing cost of the meter sampling program and the  
5 associated meter changeouts” will not be included in the AMRP rider and will  
6 continue to be included in base rates.<sup>35</sup> The Company provided clean and redlined  
7 versions of the proposed changes to the AMRP rider as Eleventh Revised Sheet No.  
8 58.

9  
10 **B. Expansion of AMRP to Include First Generation Plastic Pipe Is Not Necessary**  
11 **or Appropriate**  
12

13 **Q. Does the Company propose a “plan” to systematically replace its plastic pipe?**

14 A. No. It plans no changes in its present practice of replacing plastic pipe when it  
15 identifies leaks or when its Optimain risk score indicates that it should be replaced.  
16 In response to AG discovery, the Company states that “The only element of the  
17 process that would change would be that Columbia would code the associated job  
18 order as eligible for the AMRP rider.”<sup>36</sup>

19  

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<sup>35</sup> *Id.*

<sup>36</sup> Company’s response to AG 1-4 (attachment excluded), a copy of which I have attached as my Exhibit\_\_\_(LK-20).

1 **Q. How does the Company presently account for the replacement of plastic pipe?**

2 A. The Company presently expenses the cost of replacing a segment of 50 feet or less.  
3 It presently capitalizes to plant the cost of replacing a segment of more than 50  
4 feet.<sup>37</sup>

5  
6 **Q. Does the Company propose any changes in accounting in conjunction with the  
7 proposed AMRP recovery?**

8 A. The Company did not specifically identify any proposed changes in accounting,  
9 although its response to AG 2-8 can be read to indicate that it intends to account for  
10 the present O&M expense as capital expenditures in the future if its proposal is  
11 adopted. The Company states in that response “These shorter replacement projects  
12 have historically been included in Columbia’s O&M expenses based on company  
13 asset accounting practices. Moving forward, these costs would be included as part of  
14 Columbia’s AMRP as an expenditure attributable to the replacement of eligible  
15 pipe.”

16 Neither the present nor the proposed AMRP rider tariff language include a  
17 provision for recovering O&M expense. The AMRP rider tariff language includes a  
18 provision for “Reduction for savings in Account No. 887 -Maintenance of Mains.”  
19 The proposed AMRP rider tariff language suggests that there would be a change in

---

<sup>37</sup> *Id.*

1 accounting if the Commission adopts the Company's proposal to include the costs of  
2 plastic pipe in the AMRP and to recover the costs through the AMRP rider.

3  
4 **Q. What is the significance of the accounting and tariff language?**

5 A. As I previously explained, it is not clear whether the Company proposes to continue  
6 to recover replacement costs presently expensed through base rates or change its  
7 accounting to capitalize these costs and recover them through the AMRP Rider. If  
8 the Commission approves the expansion of the AMRP to include plastic pipe and  
9 recovery of the costs through the AMRP rider, then the Commission should make it  
10 clear that recovery through the AMRP rider does not include the maintenance  
11 expense for replacing segments of 50 feet or less. Otherwise, the Company may  
12 recover these costs twice, once through base rates as "maintenance" expense, and  
13 again through the AMRP rider in some manner.

14  
15 **Q. Should the Commission adopt the Company's proposal to expand the scope of**  
16 **the AMRP to include plastic pipe and include the costs in the AMRP rider?**

17 A. No. There is no compelling reason to do so. The Company recovers the entirety of  
18 the ongoing maintenance expense in the base revenue requirement. The Company  
19 also recovers the cost of capital expenditures in the base revenue requirement  
20 through a return on rate base and recovery of the related operating expenses,

1 primarily depreciation and property tax expense.

2 On the other hand, there are compelling reasons not to do so. First, the  
3 Company offers no specific or comprehensive plan to replace plastic pipe, nor does  
4 there appear to be a pressing requirement to develop and adopt such a plan or to  
5 modify its present practices. Nevertheless, if the Commission provides recovery  
6 contemporaneous with the incurrence of costs, the Company will be incentivized to  
7 greatly expand the replacement of plastic pipe and increase its earnings through  
8 AMRP recoveries. Second, this will create an open-ended form of recovery with  
9 escalating rate increases. Third, there will be almost no controls, reporting, or  
10 approvals required to constrain or balance this likely expansion of scope and cost.

11  
12 **C. Expansion of AMRP to Include Failed Meters Is Not Necessary or Appropriate**  
13

14 **Q. What is the present scope and cost of replacing failed meters?**

15 A. It is relatively insignificant. No meters were replaced in 2012 or 2013 and there was  
16 no cost in those years. The Company replaced 925 meters in 2014 at a cost of  
17 \$0.125 million, which presumably was capitalized to plant and not expensed. The  
18 Company replaced 798 meters in 2015 at a cost of \$0.109 million. The Company  
19 estimates that it will replace 1,746 meters in the base period at a cost of \$0.237  
20 million. It is not clear how the Company could estimate the cost for the base period  
21 given the uncertainty regarding the number of meters that will fail and its claim that

1 it could not do so for the test year.

2 Assuming that these costs are capitalized, the revenue requirement effect  
3 each year is minimal, or approximately \$0.020 to \$0.030 million, and will be  
4 recovered, net of the savings from retirements of the old meters, in the next base rate  
5 proceeding.

6

7 **Q. Despite the Company's assertions that it cannot forecast the number of**  
8 **replacement meters or the cost in the test year and that it included no**  
9 **replacement meter costs in the revenue requirement, did the Company actually**  
10 **include replacement meter costs in the revenue requirement?**

11 A. Yes. The Company included \$0.182 million in capital expenditures and plant  
12 additions for replacement meter costs in the test year, according to its response to  
13 AG discovery.<sup>38</sup>

14

15 **Q. Should the Commission expand the scope of the AMRP and allow recovery of**  
16 **these costs through the AMRP rider?**

17 A. No. This is a solution in search of a problem. There is no compelling need to  
18 accelerate the Company's recovery of these costs through the AMRP rider. The

---

<sup>38</sup> Company's response to AG 2-6, which provides a history of the capital expenditures and plant additions for meters separated into "new" meters and "replacement" meters, including the amounts for the base period and test year. I have attached a copy of this response as my Exhibit\_\_(LK-21).

1 costs of replacement meters presently are recovered through the base ratemaking  
2 process and should continue to be recovered through this process. The cost is  
3 relatively minor and the effects of regulatory lag through the base ratemaking  
4 process are minimal. In any event, the cost of new replacement meters is offset by  
5 savings from retired failed meters, including reductions in O&M expense and fewer  
6 bill complaints, as well as the cessation of depreciation, and may result in increased  
7 revenues due to improved accuracy and billing.

8

9 **Q. Does this complete your testimony?**

10 A. Yes.

**COMMONWEALTH OF KENTUCKY**  
**BEFORE THE PUBLIC SERVICE COMMISSION**

**IN THE MATTER OF:**

**APPLICATION OF COLUMBIA GAS )  
OF KENTUCKY, INC. FOR AN ) CASE NO. 2016-00162  
ADJUSTMENT IN RATES )**

**EXHIBITS**  
**OF**  
**LANE KOLLEN**

**ON BEHALF OF**  
**THE OFFICE OF THE ATTORNEY GENERAL**

**J. Kennedy and Associates, Inc.**  
**570 Colonial Park Drive, Suite 305**  
**Roswell, GA 30075**

**SEPTEMBER 2, 2016**

**EXHIBIT \_\_\_\_ (LK-1)**



## **RESUME OF LANE KOLLEN, VICE PRESIDENT**

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### **EDUCATION**

**University of Toledo, BBA**  
Accounting

**University of Toledo, MBA**

**Luther Rice University, MA**

### **PROFESSIONAL CERTIFICATIONS**

**Certified Public Accountant (CPA)**

**Certified Management Accountant (CMA)**

### **PROFESSIONAL AFFILIATIONS**

**American Institute of Certified Public Accountants**

**Georgia Society of Certified Public Accountants**

**Institute of Management Accountants**

Mr. Kollen has more than thirty years of utility industry experience in the financial, rate, tax, and planning areas. He specializes in revenue requirements analyses, taxes, evaluation of rate and financial impacts of traditional and nontraditional ratemaking, utility mergers/acquisition and diversification. Mr. Kollen has expertise in proprietary and nonproprietary software systems used by utilities for budgeting, rate case support and strategic and financial planning.

## RESUME OF LANE KOLLEN, VICE PRESIDENT

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### EXPERIENCE

**1986 to**

**Present:**

**J. Kennedy and Associates, Inc.:** Vice President and Principal. Responsible for utility stranded cost analysis, revenue requirements analysis, cash flow projections and solvency, financial and cash effects of traditional and nontraditional ratemaking, and research, speaking and writing on the effects of tax law changes. Testimony before Connecticut, Florida, Georgia, Indiana, Louisiana, Kentucky, Maine, Maryland, Minnesota, New York, North Carolina, Ohio, Pennsylvania, Tennessee, Texas, West Virginia and Wisconsin state regulatory commissions and the Federal Energy Regulatory Commission.

**1983 to**

**1986:**

**Energy Management Associates:** Lead Consultant.

Consulting in the areas of strategic and financial planning, traditional and nontraditional ratemaking, rate case support and testimony, diversification and generation expansion planning. Directed consulting and software development projects utilizing PROSCREEN II and ACUMEN proprietary software products. Utilized ACUMEN detailed corporate simulation system, PROSCREEN II strategic planning system and other custom developed software to support utility rate case filings including test year revenue requirements, rate base, operating income and pro-forma adjustments. Also utilized these software products for revenue simulation, budget preparation and cost-of-service analyses.

**1976 to**

**1983:**

**The Toledo Edison Company:** Planning Supervisor.

Responsible for financial planning activities including generation expansion planning, capital and expense budgeting, evaluation of tax law changes, rate case strategy and support and computerized financial modeling using proprietary and nonproprietary software products. Directed the modeling and evaluation of planning alternatives including:

Rate phase-ins.

Construction project cancellations and write-offs.

Construction project delays.

Capacity swaps.

Financing alternatives.

Competitive pricing for off-system sales.

Sale/leasebacks.

## RESUME OF LANE KOLLEN, VICE PRESIDENT

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### CLIENTS SERVED

#### Industrial Companies and Groups

Air Products and Chemicals, Inc.	Lehigh Valley Power Committee
Airco Industrial Gases	Maryland Industrial Group
Alcan Aluminum	Multiple Intervenors (New York)
Armco Advanced Materials Co.	National Southwire
Armco Steel	North Carolina Industrial
Bethlehem Steel	Energy Consumers
CF&I Steel, L.P.	Occidental Chemical Corporation
Climax Molybdenum Company	Ohio Energy Group
Connecticut Industrial Energy Consumers	Ohio Industrial Energy Consumers
ELCON	Ohio Manufacturers Association
Enron Gas Pipeline Company	Philadelphia Area Industrial Energy
Florida Industrial Power Users Group	Users Group
Gallatin Steel	PSI Industrial Group
General Electric Company	Smith Cogeneration
GPU Industrial Intervenors	Taconite Intervenors (Minnesota)
Indiana Industrial Group	West Penn Power Industrial Intervenors
Industrial Consumers for	West Virginia Energy Users Group
Fair Utility Rates - Indiana	Westvaco Corporation
Industrial Energy Consumers - Ohio	
Kentucky Industrial Utility Customers, Inc.	
Kimberly-Clark Company	

#### Regulatory Commissions and Government Agencies

Cities in Texas-New Mexico Power Company's Service Territory  
Cities in AEP Texas Central Company's Service Territory  
Cities in AEP Texas North Company's Service Territory  
Georgia Public Service Commission Staff  
Kentucky Attorney General's Office, Division of Consumer Protection  
Louisiana Public Service Commission Staff  
Maine Office of Public Advocate  
New York State Energy Office  
Office of Public Utility Counsel (Texas)

**RESUME OF LANE KOLLEN, VICE PRESIDENT**

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**Utilities**

Allegheny Power System  
Atlantic City Electric Company  
Carolina Power & Light Company  
Cleveland Electric Illuminating Company  
Delmarva Power & Light Company  
Duquesne Light Company  
General Public Utilities  
Georgia Power Company  
Middle South Services  
Nevada Power Company  
Niagara Mohawk Power Corporation

Otter Tail Power Company  
Pacific Gas & Electric Company  
Public Service Electric & Gas  
Public Service of Oklahoma  
Rochester Gas and Electric  
Savannah Electric & Power Company  
Seminole Electric Cooperative  
Southern California Edison  
Talquin Electric Cooperative  
Tampa Electric  
Texas Utilities  
Toledo Edison Company

**Expert Testimony Appearances  
of  
Lane Kollen  
as of August 2016**

<b>Date</b>	<b>Case</b>	<b>Jurisdct.</b>	<b>Party</b>	<b>Utility</b>	<b>Subject</b>
10/86	U-17282 Interim	LA	Louisiana Public Service Commission Staff	Gulf States Utilities	Cash revenue requirements financial solvency.
11/86	U-17282 Interim Rebuttal	LA	Louisiana Public Service Commission Staff	Gulf States Utilities	Cash revenue requirements financial solvency.
12/86	9613	KY	Attorney General Div. of Consumer Protection	Big Rivers Electric Corp.	Revenue requirements accounting adjustments financial workout plan.
1/87	U-17282 Interim	LA 19th Judicial District Ct.	Louisiana Public Service Commission Staff	Gulf States Utilities	Cash revenue requirements, financial solvency.
3/87	General Order 236	WV	West Virginia Energy Users' Group	Monongahela Power Co.	Tax Reform Act of 1986.
4/87	U-17282 Prudence	LA	Louisiana Public Service Commission Staff	Gulf States Utilities	Prudence of River Bend 1, economic analyses, cancellation studies.
4/87	M-100 Sub 113	NC	North Carolina Industrial Energy Consumers	Duke Power Co.	Tax Reform Act of 1986.
5/87	86-524-E-SC	WV	West Virginia Energy Users' Group	Monongahela Power Co.	Revenue requirements, Tax Reform Act of 1986.
5/87	U-17282 Case In Chief	LA	Louisiana Public Service Commission Staff	Gulf States Utilities	Revenue requirements, River Bend 1 phase-in plan, financial solvency.
7/87	U-17282 Case In Chief Surrebuttal	LA	Louisiana Public Service Commission Staff	Gulf States Utilities	Revenue requirements, River Bend 1 phase-in plan, financial solvency.
7/87	U-17282 Prudence Surrebuttal	LA	Louisiana Public Service Commission Staff	Gulf States Utilities	Prudence of River Bend 1, economic analyses, cancellation studies.
7/87	86-524 E-SC Rebuttal	WV	West Virginia Energy Users' Group	Monongahela Power Co.	Revenue requirements, Tax Reform Act of 1986.
8/87	9885	KY	Attorney General Div. of Consumer Protection	Big Rivers Electric Corp.	Financial workout plan.
8/87	E-015/GR-87-223	MN	Taconite Intervenor	Minnesota Power & Light Co.	Revenue requirements, O&M expense, Tax Reform Act of 1986.
10/87	870220-EI	FL	Occidental Chemical Corp.	Florida Power Corp.	Revenue requirements, O&M expense, Tax Reform Act of 1986.
11/87	87-07-01	CT	Connecticut Industrial Energy Consumers	Connecticut Light & Power Co.	Tax Reform Act of 1986.
1/88	U-17282	LA 19th Judicial District Ct.	Louisiana Public Service Commission	Gulf States Utilities	Revenue requirements, River Bend 1 phase-in plan, rate of return.
2/88	9934	KY	Kentucky Industrial Utility Customers	Louisville Gas & Electric Co.	Economics of Trimble County, completion.
2/88	10064	KY	Kentucky Industrial Utility Customers	Louisville Gas & Electric Co.	Revenue requirements, O&M expense, capital structure, excess deferred income taxes.

**Expert Testimony Appearances  
of  
Lane Kollen  
as of August 2016**

<b>Date</b>	<b>Case</b>	<b>Jurisdct.</b>	<b>Party</b>	<b>Utility</b>	<b>Subject</b>
5/88	10217	KY	Alcan Aluminum National Southwire	Big Rivers Electric Corp.	Financial workout plan.
5/88	M-87017-1C001	PA	GPU Industrial Intervenors	Metropolitan Edison Co.	Nonutility generator deferred cost recovery.
5/88	M-87017-2C005	PA	GPU Industrial Intervenors	Pennsylvania Electric Co.	Nonutility generator deferred cost recovery.
6/88	U-17282	LA 19th Judicial District Ct.	Louisiana Public Service Commission	Gulf States Utilities	Prudence of River Bend 1 economic analyses, cancellation studies, financial modeling.
7/88	M-87017-1C001 Rebuttal	PA	GPU Industrial Intervenors	Metropolitan Edison Co.	Nonutility generator deferred cost recovery, SFAS No. 92.
7/88	M-87017-2C005 Rebuttal	PA	GPU Industrial Intervenors	Pennsylvania Electric Co.	Nonutility generator deferred cost recovery, SFAS No. 92.
9/88	88-05-25	CT	Connecticut Industrial Energy Consumers	Connecticut Light & Power Co.	Excess deferred taxes, O&M expenses.
9/88	10064 Rehearing	KY	Kentucky Industrial Utility Customers	Louisville Gas & Electric Co.	Premature retirements, interest expense.
10/88	88-170-EL-AIR	OH	Ohio Industrial Energy Consumers	Cleveland Electric Illuminating Co.	Revenue requirements, phase-in, excess deferred taxes, O&M expenses, financial considerations, working capital.
10/88	88-171-EL-AIR	OH	Ohio Industrial Energy Consumers	Toledo Edison Co.	Revenue requirements, phase-in, excess deferred taxes, O&M expenses, financial considerations, working capital.
10/88	8800-355-EI	FL	Florida Industrial Power Users' Group	Florida Power & Light Co.	Tax Reform Act of 1986, tax expenses, O&M expenses, pension expense (SFAS No. 87).
10/88	3780-U	GA	Georgia Public Service Commission Staff	Atlanta Gas Light Co.	Pension expense (SFAS No. 87).
11/88	U-17282 Remand	LA	Louisiana Public Service Commission Staff	Gulf States Utilities	Rate base exclusion plan (SFAS No. 71).
12/88	U-17970	LA	Louisiana Public Service Commission Staff	AT&T Communications of South Central States	Pension expense (SFAS No. 87).
12/88	U-17949 Rebuttal	LA	Louisiana Public Service Commission Staff	South Central Bell	Compensated absences (SFAS No. 43), pension expense (SFAS No. 87), Part 32, income tax normalization.
2/89	U-17282 Phase II	LA	Louisiana Public Service Commission Staff	Gulf States Utilities	Revenue requirements, phase-in of River Bend 1, recovery of canceled plant.
6/89	881602-EU 890326-EU	FL	Talquin Electric Cooperative	Talquin/City of Tallahassee	Economic analyses, incremental cost-of-service, average customer rates.
7/89	U-17970	LA	Louisiana Public Service Commission Staff	AT&T Communications of South Central States	Pension expense (SFAS No. 87), compensated absences (SFAS No. 43), Part 32.
8/89	8555	TX	Occidental Chemical Corp.	Houston Lighting & Power Co.	Cancellation cost recovery, tax expense, revenue requirements.

**Expert Testimony Appearances  
of  
Lane Kollen  
as of August 2016**

<b>Date</b>	<b>Case</b>	<b>Jurisdiction</b>	<b>Party</b>	<b>Utility</b>	<b>Subject</b>
8/89	3840-U	GA	Georgia Public Service Commission Staff	Georgia Power Co.	Promotional practices, advertising, economic development.
9/89	U-17282 Phase II Detailed	LA	Louisiana Public Service Commission Staff	Gulf States Utilities	Revenue requirements, detailed investigation.
10/89	8880	TX	Enron Gas Pipeline	Texas-New Mexico Power Co.	Deferred accounting treatment, sale/leaseback.
10/89	8928	TX	Enron Gas Pipeline	Texas-New Mexico Power Co.	Revenue requirements, imputed capital structure, cash working capital.
10/89	R-891364	PA	Philadelphia Area Industrial Energy Users Group	Philadelphia Electric Co.	Revenue requirements.
11/89 12/89	R-891364 Surrebuttal (2 Filings)	PA	Philadelphia Area Industrial Energy Users Group	Philadelphia Electric Co.	Revenue requirements, sale/leaseback.
1/90	U-17282 Phase II Detailed Rebuttal	LA	Louisiana Public Service Commission Staff	Gulf States Utilities	Revenue requirements, detailed investigation.
1/90	U-17282 Phase III	LA	Louisiana Public Service Commission Staff	Gulf States Utilities	Phase-in of River Bend 1, deregulated asset plan.
3/90	890319-EI	FL	Florida Industrial Power Users Group	Florida Power & Light Co.	O&M expenses, Tax Reform Act of 1986.
4/90	890319-EI Rebuttal	FL	Florida Industrial Power Users Group	Florida Power & Light Co.	O&M expenses, Tax Reform Act of 1986.
4/90	U-17282	LA 19 <sup>th</sup> Judicial District Ct.	Louisiana Public Service Commission	Gulf States Utilities	Fuel clause, gain on sale of utility assets.
9/90	90-158	KY	Kentucky Industrial Utility Customers	Louisville Gas & Electric Co.	Revenue requirements, post-test year additions, forecasted test year.
12/90	U-17282 Phase IV	LA	Louisiana Public Service Commission Staff	Gulf States Utilities	Revenue requirements.
3/91	29327, et. al.	NY	Multiple Intervenors	Niagara Mohawk Power Corp.	Incentive regulation.
5/91	9945	TX	Office of Public Utility Counsel of Texas	El Paso Electric Co.	Financial modeling, economic analyses, prudence of Palo Verde 3.
9/91	P-910511 P-910512	PA	Allegheny Ludlum Corp., Armco Advanced Materials Co., The West Penn Power Industrial Users' Group	West Penn Power Co.	Recovery of CAAA costs, least cost financing.
9/91	91-231-E-NC	WV	West Virginia Energy Users Group	Monongahela Power Co.	Recovery of CAAA costs, least cost financing.
11/91	U-17282	LA	Louisiana Public Service Commission Staff	Gulf States Utilities	Asset impairment, deregulated asset plan, revenue requirements.

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12/91	91-410-EL-AIR	OH	Air Products and Chemicals, Inc., Armco Steel Co., General Electric Co., Industrial Energy Consumers	Cincinnati Gas & Electric Co.	Revenue requirements, phase-in plan.
12/91	PUC Docket 10200	TX	Office of Public Utility Counsel of Texas	Texas-New Mexico Power Co.	Financial integrity, strategic planning, declined business affiliations.
5/92	910890-EI	FL	Occidental Chemical Corp.	Florida Power Corp.	Revenue requirements, O&M expense, pension expense, OPEB expense, fossil dismantling, nuclear decommissioning.
8/92	R-00922314	PA	GPU Industrial Intervenors	Metropolitan Edison Co.	Incentive regulation, performance rewards, purchased power risk, OPEB expense.
9/92	92-043	KY	Kentucky Industrial Utility Consumers	Generic Proceeding	OPEB expense.
9/92	920324-EI	FL	Florida Industrial Power Users' Group	Tampa Electric Co.	OPEB expense.
9/92	39348	IN	Indiana Industrial Group	Generic Proceeding	OPEB expense.
9/92	910840-PU	FL	Florida Industrial Power Users' Group	Generic Proceeding	OPEB expense.
9/92	39314	IN	Industrial Consumers for Fair Utility Rates	Indiana Michigan Power Co.	OPEB expense.
11/92	U-19904	LA	Louisiana Public Service Commission Staff	Gulf States Utilities /Entergy Corp.	Merger.
11/92	8649	MD	Westvaco Corp., Eastalco Aluminum Co.	Potomac Edison Co.	OPEB expense.
11/92	92-1715-AU-COI	OH	Ohio Manufacturers Association	Generic Proceeding	OPEB expense.
12/92	R-00922378	PA	Armco Advanced Materials Co., The WPP Industrial Intervenors	West Penn Power Co.	Incentive regulation, performance rewards, purchased power risk, OPEB expense.
12/92	U-19949	LA	Louisiana Public Service Commission Staff	South Central Bell	Affiliate transactions, cost allocations, merger.
12/92	R-00922479	PA	Philadelphia Area Industrial Energy Users' Group	Philadelphia Electric Co.	OPEB expense.
1/93	8487	MD	Maryland Industrial Group	Baltimore Gas & Electric Co., Bethlehem Steel Corp.	OPEB expense, deferred fuel, CWIP in rate base.
1/93	39498	IN	PSI Industrial Group	PSI Energy, Inc.	Refunds due to over-collection of taxes on Marble Hill cancellation.
3/93	92-11-11	CT	Connecticut Industrial Energy Consumers	Connecticut Light & Power Co	OPEB expense.
3/93	U-19904 (Surrebuttal)	LA	Louisiana Public Service Commission Staff	Gulf States Utilities /Entergy Corp.	Merger.



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<b>Date</b>	<b>Case</b>	<b>Jurisdict.</b>	<b>Party</b>	<b>Utility</b>	<b>Subject</b>
3/93	93-01-EL-EFC	OH	Ohio Industrial Energy Consumers	Ohio Power Co.	Affiliate transactions, fuel.
3/93	EC92-21000 ER92-806-000	FERC	Louisiana Public Service Commission Staff	Gulf States Utilities /Entergy Corp.	Merger.
4/93	92-1464-EL-AIR	OH	Air Products Armco Steel Industrial Energy Consumers	Cincinnati Gas & Electric Co.	Revenue requirements, phase-in plan.
4/93	EC92-21000 ER92-806-000 (Rebuttal)	FERC	Louisiana Public Service Commission	Gulf States Utilities /Entergy Corp.	Merger.
9/93	93-113	KY	Kentucky Industrial Utility Customers	Kentucky Utilities	Fuel clause and coal contract refund.
9/93	92-490, 92-490A, 90-360-C	KY	Kentucky Industrial Utility Customers and Kentucky Attorney General	Big Rivers Electric Corp.	Disallowances and restitution for excessive fuel costs, illegal and improper payments, recovery of mine closure costs.
10/93	U-17735	LA	Louisiana Public Service Commission Staff	Cajun Electric Power Cooperative	Revenue requirements, debt restructuring agreement, River Bend cost recovery.
1/94	U-20647	LA	Louisiana Public Service Commission Staff	Gulf States Utilities Co.	Audit and investigation into fuel clause costs.
4/94	U-20647 (Surrebuttal)	LA	Louisiana Public Service Commission Staff	Gulf States Utilities Co.	Nuclear and fossil unit performance, fuel costs, fuel clause principles and guidelines.
4/94	U-20647 (Supplemental Surrebuttal)	LA	Louisiana Public Service Commission Staff	Gulf States Utilities Co.	Audit and investigation into fuel clause costs.
5/94	U-20178	LA	Louisiana Public Service Commission Staff	Louisiana Power & Light Co.	Planning and quantification issues of least cost integrated resource plan.
9/94	U-19904 Initial Post-Merger Earnings Review	LA	Louisiana Public Service Commission Staff	Gulf States Utilities Co.	River Bend phase-in plan, deregulated asset plan, capital structure, other revenue requirement issues.
9/94	U-17735	LA	Louisiana Public Service Commission Staff	Cajun Electric Power Cooperative	G&T cooperative ratemaking policies, exclusion of River Bend, other revenue requirement issues.
10/94	3905-U	GA	Georgia Public Service Commission Staff	Southern Bell Telephone Co.	Incentive rate plan, earnings review.
10/94	5258-U	GA	Georgia Public Service Commission Staff	Southern Bell Telephone Co.	Alternative regulation, cost allocation.
11/94	U-19904 Initial Post-Merger Earnings Review (Surrebuttal)	LA	Louisiana Public Service Commission Staff	Gulf States Utilities Co.	River Bend phase-in plan, deregulated asset plan, capital structure, other revenue requirement issues.
11/94	U-17735 (Rebuttal)	LA	Louisiana Public Service Commission Staff	Cajun Electric Power Cooperative	G&T cooperative ratemaking policy, exclusion of River Bend, other revenue requirement issues.
4/95	R-00943271	PA	PP&L Industrial Customer Alliance	Pennsylvania Power & Light Co.	Revenue requirements. Fossil dismantling, nuclear decommissioning.

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6/95	3905-U Rebuttal	GA	Georgia Public Service Commission	Southern Bell Telephone Co.	Incentive regulation, affiliate transactions, revenue requirements, rate refund.
6/95	U-19904 (Direct)	LA	Louisiana Public Service Commission Staff	Gulf States Utilities Co.	Gas, coal, nuclear fuel costs, contract prudence, base/fuel realignment.
10/95	95-02614	TN	Tennessee Office of the Attorney General Consumer Advocate	BellSouth Telecommunications, Inc.	Affiliate transactions.
10/95	U-21485 (Direct)	LA	Louisiana Public Service Commission Staff	Gulf States Utilities Co.	Nuclear O&M, River Bend phase-in plan, base/fuel realignment, NOL and AltMin asset deferred taxes, other revenue requirement issues.
11/95	U-19904 (Surrebuttal)	LA	Louisiana Public Service Commission Staff	Gulf States Utilities Co. Division	Gas, coal, nuclear fuel costs, contract prudence, base/fuel realignment.
11/95	U-21485 (Supplemental Direct)	LA	Louisiana Public Service Commission Staff	Gulf States Utilities Co.	Nuclear O&M, River Bend phase-in plan, base/fuel realignment, NOL and AltMin asset deferred taxes, other revenue requirement issues.
12/95	U-21485 (Surrebuttal)				
1/96	95-299-EL-AIR 95-300-EL-AIR	OH	Industrial Energy Consumers	The Toledo Edison Co., The Cleveland Electric Illuminating Co.	Competition, asset write-offs and revaluation, O&M expense, other revenue requirement issues.
2/96	PUC Docket 14965	TX	Office of Public Utility Counsel	Central Power & Light	Nuclear decommissioning.
5/96	95-485-LCS	NM	City of Las Cruces	El Paso Electric Co.	Stranded cost recovery, municipalization.
7/96	8725	MD	The Maryland Industrial Group and Redland Genstar, Inc.	Baltimore Gas & Electric Co., Potomac Electric Power Co., and Constellation Energy Corp.	Merger savings, tracking mechanism, earnings sharing plan, revenue requirement issues.
9/96 11/96	U-22092 U-22092 (Surrebuttal)	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	River Bend phase-in plan, base/fuel realignment, NOL and AltMin asset deferred taxes, other revenue requirement issues, allocation of regulated/nonregulated costs.
10/96	96-327	KY	Kentucky Industrial Utility Customers, Inc.	Big Rivers Electric Corp.	Environmental surcharge recoverable costs.
2/97	R-00973877	PA	Philadelphia Area Industrial Energy Users Group	PECO Energy Co.	Stranded cost recovery, regulatory assets and liabilities, intangible transition charge, revenue requirements.
3/97	96-489	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Power Co.	Environmental surcharge recoverable costs, system agreements, allowance inventory, jurisdictional allocation.
6/97	TO-97-397	MO	MCI Telecommunications Corp., inc., MCI metro Access Transmission Services, Inc.	Southwestern Bell Telephone Co.	Price cap regulation, revenue requirements, rate of return.

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6/97	R-00973953	PA	Philadelphia Area Industrial Energy Users Group	PECO Energy Co.	Restructuring, deregulation, stranded costs, regulatory assets, liabilities, nuclear and fossil decommissioning.
7/97	R-00973954	PA	PP&L Industrial Customer Alliance	Pennsylvania Power & Light Co.	Restructuring, deregulation, stranded costs, regulatory assets, liabilities, nuclear and fossil decommissioning.
7/97	U-22092	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Depreciation rates and methodologies, River Bend phase-in plan.
8/97	97-300	KY	Kentucky Industrial Utility Customers, Inc.	Louisville Gas & Electric Co., Kentucky Utilities Co.	Merger policy, cost savings, surcredit sharing mechanism, revenue requirements, rate of return.
8/97	R-00973954 (Surrebuttal)	PA	PP&L Industrial Customer Alliance	Pennsylvania Power & Light Co.	Restructuring, deregulation, stranded costs, regulatory assets, liabilities, nuclear and fossil decommissioning.
10/97	97-204	KY	Alcan Aluminum Corp. Southwire Co.	Big Rivers Electric Corp.	Restructuring, revenue requirements, reasonableness.
10/97	R-974008	PA	Metropolitan Edison Industrial Users Group	Metropolitan Edison Co.	Restructuring, deregulation, stranded costs, regulatory assets, liabilities, nuclear and fossil decommissioning, revenue requirements.
10/97	R-974009	PA	Penelec Industrial Customer Alliance	Pennsylvania Electric Co.	Restructuring, deregulation, stranded costs, regulatory assets, liabilities, nuclear and fossil decommissioning, revenue requirements.
11/97	97-204 (Rebuttal)	KY	Alcan Aluminum Corp. Southwire Co.	Big Rivers Electric Corp.	Restructuring, revenue requirements, reasonableness of rates, cost allocation.
11/97	U-22491	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Allocation of regulated and nonregulated costs, other revenue requirement issues.
11/97	R-00973953 (Surrebuttal)	PA	Philadelphia Area Industrial Energy Users Group	PECO Energy Co.	Restructuring, deregulation, stranded costs, regulatory assets, liabilities, nuclear and fossil decommissioning.
11/97	R-973981	PA	West Penn Power Industrial Intervenor	West Penn Power Co.	Restructuring, deregulation, stranded costs, regulatory assets, liabilities, fossil decommissioning, revenue requirements, securitization.
11/97	R-974104	PA	Duquesne Industrial Intervenor	Duquesne Light Co.	Restructuring, deregulation, stranded costs, regulatory assets, liabilities, nuclear and fossil decommissioning, revenue requirements, securitization.
12/97	R-973981 (Surrebuttal)	PA	West Penn Power industrial Intervenor	West Penn Power Co.	Restructuring, deregulation, stranded costs, regulatory assets, liabilities, fossil decommissioning, revenue requirements.
12/97	R-974104 (Surrebuttal)	PA	Duquesne Industrial Intervenor	Duquesne Light Co.	Restructuring, deregulation, stranded costs, regulatory assets, liabilities, nuclear and fossil decommissioning, revenue requirements, securitization.
1/98	U-22491 (Surrebuttal)	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Allocation of regulated and nonregulated costs, other revenue requirement issues.

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2/98	8774	MD	Westvaco	Potomac Edison Co.	Merger of Duquesne, AE, customer safeguards, savings sharing.
3/98	U-22092 (Allocated Stranded Cost Issues)	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Restructuring, stranded costs, regulatory assets, securitization, regulatory mitigation.
3/98	8390-U	GA	Georgia Natural Gas Group, Georgia Textile Manufacturers Assoc.	Atlanta Gas Light Co.	Restructuring, unbundling, stranded costs, incentive regulation, revenue requirements.
3/98	U-22092 (Allocated Stranded Cost Issues) (Surrebuttal)	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Restructuring, stranded costs, regulatory assets, securitization, regulatory mitigation.
3/98	U-22491 (Supplemental Surrebuttal)	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Allocation of regulated and nonregulated costs, other revenue requirement issues.
10/98	97-596	ME	Maine Office of the Public Advocate	Bangor Hydro-Electric Co.	Restructuring, unbundling, stranded costs, T&D revenue requirements.
10/98	9355-U	GA	Georgia Public Service Commission Adversary Staff	Georgia Power Co.	Affiliate transactions.
10/98	U-17735	LA	Louisiana Public Service Commission Staff	Cajun Electric Power Cooperative	G&T cooperative ratemaking policy, other revenue requirement issues.
11/98	U-23327	LA	Louisiana Public Service Commission Staff	SWEPCO, CSW and AEP	Merger policy, savings sharing mechanism, affiliate transaction conditions.
12/98	U-23358 (Direct)	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Allocation of regulated and nonregulated costs, tax issues, and other revenue requirement issues.
12/98	98-577	ME	Maine Office of Public Advocate	Maine Public Service Co.	Restructuring, unbundling, stranded cost, T&D revenue requirements.
1/99	98-10-07	CT	Connecticut Industrial Energy Consumers	United Illuminating Co.	Stranded costs, investment tax credits, accumulated deferred income taxes, excess deferred income taxes.
3/99	U-23358 (Surrebuttal)	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Allocation of regulated and nonregulated costs, tax issues, and other revenue requirement issues.
3/99	98-474	KY	Kentucky Industrial Utility Customers, Inc.	Louisville Gas and Electric Co.	Revenue requirements, alternative forms of regulation.
3/99	98-426	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Utilities Co.	Revenue requirements, alternative forms of regulation.
3/99	99-082	KY	Kentucky Industrial Utility Customers, Inc.	Louisville Gas and Electric Co.	Revenue requirements.
3/99	99-083	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Utilities Co.	Revenue requirements.

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4/99	U-23358 (Supplemental Surrebuttal)	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Allocation of regulated and nonregulated costs, tax issues, and other revenue requirement issues.
4/99	99-03-04	CT	Connecticut Industrial Energy Consumers	United Illuminating Co.	Regulatory assets and liabilities, stranded costs, recovery mechanisms.
4/99	99-02-05	Ct	Connecticut Industrial Utility Customers	Connecticut Light and Power Co.	Regulatory assets and liabilities, stranded costs, recovery mechanisms.
5/99	98-426 99-082 (Additional Direct)	KY	Kentucky Industrial Utility Customers, Inc.	Louisville Gas and Electric Co.	Revenue requirements.
5/99	98-474 99-083 (Additional Direct)	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Utilities Co.	Revenue requirements.
5/99	98-426 98-474 (Response to Amended Applications)	KY	Kentucky Industrial Utility Customers, Inc.	Louisville Gas and Electric Co., Kentucky Utilities Co.	Alternative regulation.
6/99	97-596	ME	Maine Office of Public Advocate	Bangor Hydro- Electric Co.	Request for accounting order regarding electric industry restructuring costs.
6/99	U-23358	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Affiliate transactions, cost allocations.
7/99	99-03-35	CT	Connecticut Industrial Energy Consumers	United Illuminating Co.	Stranded costs, regulatory assets, tax effects of asset divestiture.
7/99	U-23327	LA	Louisiana Public Service Commission Staff	Southwestern Electric Power Co., Central and South West Corp, American Electric Power Co.	Merger Settlement and Stipulation.
7/99	97-596 Surrebuttal	ME	Maine Office of Public Advocate	Bangor Hydro- Electric Co.	Restructuring, unbundling, stranded cost, T&D revenue requirements.
7/99	98-0452-E-GI	WV	West Virginia Energy Users Group	Monongahela Power, Potomac Edison, Appalachian Power, Wheeling Power	Regulatory assets and liabilities.
8/99	98-577 Surrebuttal	ME	Maine Office of Public Advocate	Maine Public Service Co.	Restructuring, unbundling, stranded costs, T&D revenue requirements.
8/99	98-426 99-082 Rebuttal	KY	Kentucky Industrial Utility Customers, Inc.	Louisville Gas and Electric Co.	Revenue requirements.
8/99	98-474 98-083 Rebuttal	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Utilities Co.	Revenue requirements.

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8/99	98-0452-E-GI Rebuttal	WV	West Virginia Energy Users Group	Monongahela Power, Potomac Edison, Appalachian Power, Wheeling Power	Regulatory assets and liabilities.
10/99	U-24182 Direct	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Allocation of regulated and nonregulated costs, affiliate transactions, tax issues, and other revenue requirement issues.
11/99	PUC Docket 21527	TX	The Dallas-Fort Worth Hospital Council and Coalition of Independent Colleges and Universities	TXU Electric	Restructuring, stranded costs, taxes, securitization.
11/99	U-23358 Surrebuttal Affiliate Transactions Review	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Service company affiliate transaction costs.
01/00	U-24182 Surrebuttal	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Allocation of regulated and nonregulated costs, affiliate transactions, tax issues, and other revenue requirement issues.
04/00	99-1212-EL-ETP 99-1213-EL-ATA 99-1214-EL-AAM	OH	Greater Cleveland Growth Association	First Energy (Cleveland Electric Illuminating, Toledo Edison)	Historical review, stranded costs, regulatory assets, liabilities.
05/00	2000-107	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Power Co.	ECR surcharge roll-in to base rates.
05/00	U-24182 Supplemental Direct	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Affiliate expense proforma adjustments.
05/00	A-110550F0147	PA	Philadelphia Area Industrial Energy Users Group	PECO Energy	Merger between PECO and Unicom.
05/00	99-1658-EL-ETP	OH	AK Steel Corp.	Cincinnati Gas & Electric Co.	Regulatory transition costs, including regulatory assets and liabilities, SFAS 109, ADIT, EDIT, ITC.
07/00	PUC Docket 22344	TX	The Dallas-Fort Worth Hospital Council and The Coalition of Independent Colleges and Universities	Statewide Generic Proceeding	Escalation of O&M expenses for unbundled T&D revenue requirements in projected test year.
07/00	U-21453	LA	Louisiana Public Service Commission	SWEPCO	Stranded costs, regulatory assets and liabilities.
08/00	U-24064	LA	Louisiana Public Service Commission Staff	CLECO	Affiliate transaction pricing ratemaking principles, subsidization of nonregulated affiliates, ratemaking adjustments.
10/00	SOAH Docket 473-00-1015 PUC Docket 22350	TX	The Dallas-Fort Worth Hospital Council and The Coalition of Independent Colleges and Universities	TXU Electric Co.	Restructuring, T&D revenue requirements, mitigation, regulatory assets and liabilities.

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10/00	R-00974104 Affidavit	PA	Duquesne Industrial Intervenors	Duquesne Light Co.	Final accounting for stranded costs, including treatment of auction proceeds, taxes, capital costs, switchback costs, and excess pension funding.
11/00	P-00001837 R-00974008 P-00001838 R-00974009	PA	Metropolitan Edison Industrial Users Group Penelec Industrial Customer Alliance	Metropolitan Edison Co., Pennsylvania Electric Co.	Final accounting for stranded costs, including treatment of auction proceeds, taxes, regulatory assets and liabilities, transaction costs.
12/00	U-21453, U-20925, U-22092 (Subdocket C) Surrebuttal	LA	Louisiana Public Service Commission Staff	SWEPCO	Stranded costs, regulatory assets.
01/01	U-24993 Direct	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Allocation of regulated and nonregulated costs, tax issues, and other revenue requirement issues.
01/01	U-21453, U-20925, U-22092 (Subdocket B) Surrebuttal	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Industry restructuring, business separation plan, organization structure, hold harmless conditions, financing.
01/01	Case No. 2000-386	KY	Kentucky Industrial Utility Customers, Inc.	Louisville Gas & Electric Co.	Recovery of environmental costs, surcharge mechanism.
01/01	Case No. 2000-439	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Utilities Co.	Recovery of environmental costs, surcharge mechanism.
02/01	A-110300F0095 A-110400F0040	PA	Met-Ed Industrial Users Group, Penelec Industrial Customer Alliance	GPU, Inc. FirstEnergy Corp.	Merger, savings, reliability.
03/01	P-00001860 P-00001861	PA	Met-Ed Industrial Users Group, Penelec Industrial Customer Alliance	Metropolitan Edison Co., Pennsylvania Electric Co.	Recovery of costs due to provider of last resort obligation.
04/01	U-21453, U-20925, U-22092 (Subdocket B) Settlement Term Sheet	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Business separation plan: settlement agreement on overall plan structure.
04/01	U-21453, U-20925, U-22092 (Subdocket B) Contested Issues	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Business separation plan: agreements, hold harmless conditions, separations methodology.
05/01	U-21453, U-20925, U-22092 (Subdocket B) Contested Issues Transmission and Distribution Rebuttal	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Business separation plan: agreements, hold harmless conditions, separations methodology.

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07/01	U-21453, U-20925, U-22092 (Subdocket B) Transmission and Distribution Term Sheet	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Business separation plan: settlement agreement on T&D issues, agreements necessary to implement T&D separations, hold harmless conditions, separations methodology.
10/01	14000-U	GA	Georgia Public Service Commission Adversary Staff	Georgia Power Company	Revenue requirements, Rate Plan, fuel clause recovery.
11/01	14311-U Direct Panel with Bolin Killings	GA	Georgia Public Service Commission Adversary Staff	Atlanta Gas Light Co	Revenue requirements, revenue forecast, O&M expense, depreciation, plant additions, cash working capital.
11/01	U-25687 Direct	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Revenue requirements, capital structure, allocation of regulated and nonregulated costs, River Bend uprate.
02/02	PUC Docket 25230	TX	The Dallas-Fort Worth Hospital Council and the Coalition of Independent Colleges and Universities	TXU Electric	Stipulation. Regulatory assets, securitization financing.
02/02	U-25687 Surrebuttal	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Revenue requirements, corporate franchise tax, conversion to LLC, River Bend uprate.
03/02	14311-U Rebuttal Panel with Bolin Killings	GA	Georgia Public Service Commission Adversary Staff	Atlanta Gas Light Co.	Revenue requirements, earnings sharing plan, service quality standards.
03/02	14311-U Rebuttal Panel with Michelle L. Thebert	GA	Georgia Public Service Commission Adversary Staff	Atlanta Gas Light Co.	Revenue requirements, revenue forecast, O&M expense, depreciation, plant additions, cash working capital.
03/02	001148-EI	FL	South Florida Hospital and Healthcare Assoc.	Florida Power & Light Co.	Revenue requirements. Nuclear life extension, storm damage accruals and reserve, capital structure, O&M expense.
04/02	U-25687 (Suppl. Surrebuttal)	LA	Louisiana Public Service Commission	Entergy Gulf States, Inc.	Revenue requirements, corporate franchise tax, conversion to LLC, River Bend uprate.
04/02	U-21453, U-20925 U-22092 (Subdocket C)	LA	Louisiana Public Service Commission	SWEPCO	Business separation plan, T&D Term Sheet, separations methodologies, hold harmless conditions.
08/02	EL01-88-000	FERC	Louisiana Public Service Commission	Entergy Services, Inc. and the Entergy Operating Companies	System Agreement, production cost equalization, tariffs.
08/02	U-25888	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc. and Entergy Louisiana, Inc.	System Agreement, production cost disparities, prudence.
09/02	2002-00224 2002-00225	KY	Kentucky Industrial Utilities Customers, Inc.	Kentucky Utilities Co., Louisville Gas & Electric Co.	Line losses and fuel clause recovery associated with off-system sales.



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11/02	2002-00146 2002-00147	KY	Kentucky Industrial Utilities Customers, Inc.	Kentucky Utilities Co., Louisville Gas & Electric Co.	Environmental compliance costs and surcharge recovery.
01/03	2002-00169	KY	Kentucky Industrial Utilities Customers, Inc.	Kentucky Power Co.	Environmental compliance costs and surcharge recovery.
04/03	2002-00429 2002-00430	KY	Kentucky Industrial Utilities Customers, Inc.	Kentucky Utilities Co., Louisville Gas & Electric Co.	Extension of merger surcredit, flaws in Companies' studies.
04/03	U-26527	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Revenue requirements, corporate franchise tax, conversion to LLC, capital structure, post-test year adjustments.
06/03	EL01-88-000 Rebuttal	FERC	Louisiana Public Service Commission	Entergy Services, Inc. and the Entergy Operating Companies	System Agreement, production cost equalization, tariffs.
06/03	2003-00068	KY	Kentucky Industrial Utility Customers	Kentucky Utilities Co.	Environmental cost recovery, correction of base rate error.
11/03	ER03-753-000	FERC	Louisiana Public Service Commission	Entergy Services, Inc. and the Entergy Operating Companies	Unit power purchases and sale cost-based tariff pursuant to System Agreement.
11/03	ER03-583-000, ER03-583-001, ER03-583-002  ER03-681-000, ER03-681-001  ER03-682-000, ER03-682-001, ER03-682-002  ER03-744-000, ER03-744-001 (Consolidated)	FERC	Louisiana Public Service Commission	Entergy Services, Inc., the Entergy Operating Companies, EWO Marketing, L.P, and Entergy Power, Inc.	Unit power purchases and sale agreements, contractual provisions, projected costs, levelized rates, and formula rates.
12/03	U-26527 Surrebuttal	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Revenue requirements, corporate franchise tax, conversion to LLC, capital structure, post-test year adjustments.
12/03	2003-0334 2003-0335	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Utilities Co., Louisville Gas & Electric Co.	Earnings Sharing Mechanism.
12/03	U-27136	LA	Louisiana Public Service Commission Staff	Entergy Louisiana, Inc.	Purchased power contracts between affiliates, terms and conditions.
03/04	U-26527 Supplemental Surrebuttal	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Revenue requirements, corporate franchise tax, conversion to LLC, capital structure, post-test year adjustments.
03/04	2003-00433	KY	Kentucky Industrial Utility Customers, Inc.	Louisville Gas & Electric Co.	Revenue requirements, depreciation rates, O&M expense, deferrals and amortization, earnings sharing mechanism, merger surcredit, VDT surcredit.

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<b>Date</b>	<b>Case</b>	<b>Jurisdiction</b>	<b>Party</b>	<b>Utility</b>	<b>Subject</b>
03/04	2003-00434	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Utilities Co.	Revenue requirements, depreciation rates, O&M expense, deferrals and amortization, earnings sharing mechanism, merger surcredit, VDT surcredit.
03/04	SOAH Docket 473-04-2459 PUC Docket 29206	TX	Cities Served by Texas-New Mexico Power Co.	Texas-New Mexico Power Co.	Stranded costs true-up, including valuation issues, ITC, ADIT, excess earnings.
05/04	04-169-EL-UNC	OH	Ohio Energy Group, Inc.	Columbus Southern Power Co. & Ohio Power Co.	Rate stabilization plan, deferrals, T&D rate increases, earnings.
06/04	SOAH Docket 473-04-4555 PUC Docket 29526	TX	Houston Council for Health and Education	CenterPoint Energy Houston Electric	Stranded costs true-up, including valuation issues, ITC, EDIT, excess mitigation credits, capacity auction true-up revenues, interest.
08/04	SOAH Docket 473-04-4555 PUC Docket 29526 (Suppl Direct)	TX	Houston Council for Health and Education	CenterPoint Energy Houston Electric	Interest on stranded cost pursuant to Texas Supreme Court remand.
09/04	U-23327 Subdocket B	LA	Louisiana Public Service Commission Staff	SWEPCO	Fuel and purchased power expenses recoverable through fuel adjustment clause, trading activities, compliance with terms of various LPSC Orders.
10/04	U-23327 Subdocket A	LA	Louisiana Public Service Commission Staff	SWEPCO	Revenue requirements.
12/04	Case Nos. 2004-00321, 2004-00372	KY	Gallatin Steel Co.	East Kentucky Power Cooperative, Inc., Big Sandy Recc, et al.	Environmental cost recovery, qualified costs, TIER requirements, cost allocation.
01/05	30485	TX	Houston Council for Health and Education	CenterPoint Energy Houston Electric, LLC	Stranded cost true-up including regulatory Central Co. assets and liabilities, ITC, EDIT, capacity auction, proceeds, excess mitigation credits, retrospective and prospective ADIT.
02/05	18638-U	GA	Georgia Public Service Commission Adversary Staff	Atlanta Gas Light Co.	Revenue requirements.
02/05	18638-U Panel with Tony Wackerly	GA	Georgia Public Service Commission Adversary Staff	Atlanta Gas Light Co.	Comprehensive rate plan, pipeline replacement program surcharge, performance based rate plan.
02/05	18638-U Panel with Michelle Thebert	GA	Georgia Public Service Commission Adversary Staff	Atlanta Gas Light Co.	Energy conservation, economic development, and tariff issues.
03/05	Case Nos. 2004-00426, 2004-00421	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Utilities Co., Louisville Gas & Electric	Environmental cost recovery, Jobs Creation Act of 2004 and §199 deduction, excess common equity ratio, deferral and amortization of nonrecurring O&M expense.
06/05	2005-00068	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Power Co.	Environmental cost recovery, Jobs Creation Act of 2004 and §199 deduction, margins on allowances used for AEP system sales.

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06/05	050045-EI	FL	South Florida Hospital and Healthcare Assoc.	Florida Power & Light Co.	Storm damage expense and reserve, RTO costs, O&M expense projections, return on equity performance incentive, capital structure, selective second phase post-test year rate increase.
08/05	31056	TX	Alliance for Valley Healthcare	AEP Texas Central Co.	Stranded cost true-up including regulatory assets and liabilities, ITC, EDIT, capacity auction, proceeds, excess mitigation credits, retrospective and prospective ADIT.
09/05	20298-U	GA	Georgia Public Service Commission Adversary Staff	Atmos Energy Corp.	Revenue requirements, roll-in of surcharges, cost recovery through surcharge, reporting requirements.
09/05	20298-U Panel with Victoria Taylor	GA	Georgia Public Service Commission Adversary Staff	Atmos Energy Corp.	Affiliate transactions, cost allocations, capitalization, cost of debt.
10/05	04-42	DE	Delaware Public Service Commission Staff	Artesian Water Co.	Allocation of tax net operating losses between regulated and unregulated.
11/05	2005-00351 2005-00352	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Utilities Co., Louisville Gas & Electric	Workforce Separation Program cost recovery and shared savings through VDT surcredit.
01/06	2005-00341	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Power Co.	System Sales Clause Rider, Environmental Cost Recovery Rider. Net Congestion Rider, Storm damage, vegetation management program, depreciation, off-system sales, maintenance normalization, pension and OPEB.
03/06	PUC Docket 31994	TX	Cities	Texas-New Mexico Power Co.	Stranded cost recovery through competition transition or change.
05/06	31994 Supplemental	TX	Cities	Texas-New Mexico Power Co.	Retrospective ADFIT, prospective ADFIT.
03/06	U-21453, U-20925, U-22092	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Jurisdictional separation plan.
03/06	NOPR Reg 104385-OR	IRS	Alliance for Valley Health Care and Houston Council for Health Education	AEP Texas Central Company and CenterPoint Energy Houston Electric	Proposed Regulations affecting flow-through to ratepayers of excess deferred income taxes and investment tax credits on generation plant that is sold or deregulated.
04/06	U-25116	LA	Louisiana Public Service Commission Staff	Entergy Louisiana, Inc.	2002-2004 Audit of Fuel Adjustment Clause Filings. Affiliate transactions.
07/06	R-00061366, Et. al.	PA	Met-Ed Ind. Users Group Pennsylvania Ind. Customer Alliance	Metropolitan Edison Co., Pennsylvania Electric Co.	Recovery of NUG-related stranded costs, government mandated program costs, storm damage costs.
07/06	U-23327	LA	Louisiana Public Service Commission Staff	Southwestern Electric Power Co.	Revenue requirements, formula rate plan, banking proposal.
08/06	U-21453, U-20925, U-22092 (Subdocket J)	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc.	Jurisdictional separation plan.

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11/06	05CVH03-3375 Franklin County Court Affidavit	OH	Various Taxing Authorities (Non-Utility Proceeding)	State of Ohio Department of Revenue	Accounting for nuclear fuel assemblies as manufactured equipment and capitalized plant.
12/06	U-23327 Subdocket A Reply Testimony	LA	Louisiana Public Service Commission Staff	Southwestern Electric Power Co.	Revenue requirements, formula rate plan, banking proposal.
03/07	U-29764	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc., Entergy Louisiana, LLC	Jurisdictional allocation of Entergy System Agreement equalization remedy receipts.
03/07	PUC Docket 33309	TX	Cities	AEP Texas Central Co.	Revenue requirements, including functionalization of transmission and distribution costs.
03/07	PUC Docket 33310	TX	Cities	AEP Texas North Co.	Revenue requirements, including functionalization of transmission and distribution costs.
03/07	2006-00472	KY	Kentucky Industrial Utility Customers, Inc.	East Kentucky Power Cooperative	Interim rate increase, RUS loan covenants, credit facility requirements, financial condition.
03/07	U-29157	LA	Louisiana Public Service Commission Staff	Cleco Power, LLC	Permanent (Phase II) storm damage cost recovery.
04/07	U-29764 Supplemental and Rebuttal	LA	Louisiana Public Service Commission Staff	Entergy Gulf States, Inc., Entergy Louisiana, LLC	Jurisdictional allocation of Entergy System Agreement equalization remedy receipts.
04/07	ER07-682-000 Affidavit	FERC	Louisiana Public Service Commission	Entergy Services, Inc. and the Entergy Operating Companies	Allocation of intangible and general plant and A&G expenses to production and state income tax effects on equalization remedy receipts.
04/07	ER07-684-000 Affidavit	FERC	Louisiana Public Service Commission	Entergy Services, Inc. and the Entergy Operating Companies	Fuel hedging costs and compliance with FERC USOA.
05/07	ER07-682-000 Affidavit	FERC	Louisiana Public Service Commission	Entergy Services, Inc. and the Entergy Operating Companies	Allocation of intangible and general plant and A&G expenses to production and account 924 effects on MSS-3 equalization remedy payments and receipts.
06/07	U-29764	LA	Louisiana Public Service Commission Staff	Entergy Louisiana, LLC, Entergy Gulf States, Inc.	Show cause for violating LPSC Order on fuel hedging costs.
07/07	2006-00472	KY	Kentucky Industrial Utility Customers, Inc.	East Kentucky Power Cooperative	Revenue requirements, post-test year adjustments, TIER, surcharge revenues and costs, financial need.
07/07	ER07-956-000 Affidavit	FERC	Louisiana Public Service Commission	Entergy Services, Inc.	Storm damage costs related to Hurricanes Katrina and Rita and effects of MSS-3 equalization payments and receipts.
10/07	05-UR-103 Direct	WI	Wisconsin Industrial Energy Group	Wisconsin Electric Power Company, Wisconsin Gas, LLC	Revenue requirements, carrying charges on CWIP, amortization and return on regulatory assets, working capital, incentive compensation, use of rate base in lieu of capitalization, quantification and use of Point Beach sale proceeds.

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10/07	05-UR-103 Surrebuttal	WI	Wisconsin Industrial Energy Group	Wisconsin Electric Power Company, Wisconsin Gas, LLC	Revenue requirements, carrying charges on CWIP, amortization and return on regulatory assets, working capital, incentive compensation, use of rate base in lieu of capitalization, quantification and use of Point Beach sale proceeds.
10/07	25060-U Direct	GA	Georgia Public Service Commission Public Interest Adversary Staff	Georgia Power Company	Affiliate costs, incentive compensation, consolidated income taxes, §199 deduction.
11/07	06-0033-E-CN Direct	WV	West Virginia Energy Users Group	Appalachian Power Company	IGCC surcharge during construction period and post-in-service date.
11/07	ER07-682-000 Direct	FERC	Louisiana Public Service Commission	Entergy Services, Inc. and the Entergy Operating Companies	Functionalization and allocation of intangible and general plant and A&G expenses.
01/08	ER07-682-000 Cross-Answering	FERC	Louisiana Public Service Commission	Entergy Services, Inc. and the Entergy Operating Companies	Functionalization and allocation of intangible and general plant and A&G expenses.
01/08	07-551-EL-AIR Direct	OH	Ohio Energy Group, Inc.	Ohio Edison Company, Cleveland Electric Illuminating Company, Toledo Edison Company	Revenue requirements.
02/08	ER07-956-000 Direct	FERC	Louisiana Public Service Commission	Entergy Services, Inc. and the Entergy Operating Companies	Functionalization of expenses, storm damage expense and reserves, tax NOL carrybacks in accounts, ADIT, nuclear service lives and effects on depreciation and decommissioning.
03/08	ER07-956-000 Cross-Answering	FERC	Louisiana Public Service Commission	Entergy Services, Inc. and the Entergy Operating Companies	Functionalization of expenses, storm damage expense and reserves, tax NOL carrybacks in accounts, ADIT, nuclear service lives and effects on depreciation and decommissioning.
04/08	2007-00562, 2007-00563	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Utilities Co., Louisville Gas and Electric Co.	Merger surcredit.
04/08	26837 Direct Bond, Johnson, Thebert, Kollen Panel	GA	Georgia Public Service Commission Staff	SCANA Energy Marketing, Inc.	Rule Nisi complaint.
05/08	26837 Rebuttal Bond, Johnson, Thebert, Kollen Panel	GA	Georgia Public Service Commission Staff	SCANA Energy Marketing, Inc.	Rule Nisi complaint.
05/08	26837 Suppl Rebuttal Bond, Johnson, Thebert, Kollen Panel	GA	Georgia Public Service Commission Staff	SCANA Energy Marketing, Inc.	Rule Nisi complaint.

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06/08	2008-00115	KY	Kentucky Industrial Utility Customers, Inc.	East Kentucky Power Cooperative, Inc.	Environmental surcharge recoveries, including costs recovered in existing rates, TIER.
07/08	27163 Direct	GA	Georgia Public Service Commission Public Interest Advocacy Staff	Atmos Energy Corp.	Revenue requirements, including projected test year rate base and expenses.
07/08	27163 Taylor, Kollen Panel	GA	Georgia Public Service Commission Public Interest Advocacy Staff	Atmos Energy Corp.	Affiliate transactions and division cost allocations, capital structure, cost of debt.
08/08	6680-CE-170 Direct	WI	Wisconsin Industrial Energy Group, Inc.	Wisconsin Power and Light Company	Nelson Dewey 3 or Colombia 3 fixed financial parameters.
08/08	6680-UR-116 Direct	WI	Wisconsin Industrial Energy Group, Inc.	Wisconsin Power and Light Company	CWIP in rate base, labor expenses, pension expense, financing, capital structure, decoupling.
08/08	6680-UR-116 Rebuttal	WI	Wisconsin Industrial Energy Group, Inc.	Wisconsin Power and Light Company	Capital structure.
08/08	6690-UR-119 Direct	WI	Wisconsin Industrial Energy Group, Inc.	Wisconsin Public Service Corp.	Prudence of Weston 3 outage, incentive compensation, Crane Creek Wind Farm incremental revenue requirement, capital structure.
09/08	6690-UR-119 Surrebuttal	WI	Wisconsin Industrial Energy Group, Inc.	Wisconsin Public Service Corp.	Prudence of Weston 3 outage, Section 199 deduction.
09/08	08-935-EL-SSO, 08-918-EL-SSO	OH	Ohio Energy Group, Inc.	First Energy	Standard service offer rates pursuant to electric security plan, significantly excessive earnings test.
10/08	08-917-EL-SSO	OH	Ohio Energy Group, Inc.	AEP	Standard service offer rates pursuant to electric security plan, significantly excessive earnings test.
10/08	2007-00564, 2007-00565, 2008-00251 2008-00252	KY	Kentucky Industrial Utility Customers, Inc.	Louisville Gas and Electric Co., Kentucky Utilities Company	Revenue forecast, affiliate costs, depreciation expenses, federal and state income tax expense, capitalization, cost of debt.
11/08	EL08-51	FERC	Louisiana Public Service Commission	Entergy Services, Inc.	Spindletop gas storage facilities, regulatory asset and bandwidth remedy.
11/08	35717	TX	Cities Served by Oncor Delivery Company	Oncor Delivery Company	Recovery of old meter costs, asset ADFIT, cash working capital, recovery of prior year restructuring costs, levelized recovery of storm damage costs, prospective storm damage accrual, consolidated tax savings adjustment.
12/08	27800	GA	Georgia Public Service Commission	Georgia Power Company	AFUDC versus CWIP in rate base, mirror CWIP, certification cost, use of short term debt and trust preferred financing, CWIP recovery, regulatory incentive.
01/09	ER08-1056	FERC	Louisiana Public Service Commission	Entergy Services, Inc.	Entergy System Agreement bandwidth remedy calculations, including depreciation expense, ADIT, capital structure.
01/09	ER08-1056 Supplemental Direct	FERC	Louisiana Public Service Commission	Entergy Services, Inc.	Blytheville leased turbines; accumulated depreciation.

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02/09	EL08-51 Rebuttal	FERC	Louisiana Public Service Commission	Entergy Services, Inc.	Spindletop gas storage facilities regulatory asset and bandwidth remedy.
02/09	2008-00409 Direct	KY	Kentucky Industrial Utility Customers, Inc.	East Kentucky Power Cooperative, Inc.	Revenue requirements.
03/09	ER08-1056 Answering	FERC	Louisiana Public Service Commission	Entergy Services, Inc.	Entergy System Agreement bandwidth remedy calculations, including depreciation expense, ADIT, capital structure.
03/09	U-21453, U-20925 U-22092 (Sub J) Direct Rebuttal	LA	Louisiana Public Service Commission Staff	Entergy Gulf States Louisiana, LLC	Violation of EGSI separation order, ETI and EGSL separation accounting, Spindletop regulatory asset.
04/09	2009-00040 Direct-Interim (Oral)	KY	Kentucky Industrial Utility Customers, Inc.	Big Rivers Electric Corp.	Emergency interim rate increase; cash requirements.
04/09	PUC Docket 36530	TX	State Office of Administrative Hearings	Oncor Electric Delivery Company, LLC	Rate case expenses.
05/09	ER08-1056 Rebuttal	FERC	Louisiana Public Service Commission	Entergy Services, Inc.	Entergy System Agreement bandwidth remedy calculations, including depreciation expense, ADIT, capital structure.
06/09	2009-00040 Direct- Permanent	KY	Kentucky Industrial Utility Customers, Inc.	Big Rivers Electric Corp.	Revenue requirements, TIER, cash flow.
07/09	080677-EI	FL	South Florida Hospital and Healthcare Association	Florida Power & Light Company	Multiple test years, GBRA rider, forecast assumptions, revenue requirement, O&M expense, depreciation expense, Economic Stimulus Bill, capital structure.
08/09	U-21453, U- 20925, U-22092 (Subdocket J) Supplemental Rebuttal	LA	Louisiana Public Service Commission	Entergy Gulf States Louisiana, LLC	Violation of EGSI separation order, ETI and EGSL separation accounting, Spindletop regulatory asset.
08/09	8516 and 29950	GA	Georgia Public Service Commission Staff	Atlanta Gas Light Company	Modification of PRP surcharge to include infrastructure costs.
09/09	05-UR-104 Direct and Surrebuttal	WI	Wisconsin Industrial Energy Group	Wisconsin Electric Power Company	Revenue requirements, incentive compensation, depreciation, deferral mitigation, capital structure, cost of debt.
09/09	09AL-299E	CO	CF&I Steel, Rocky Mountain Steel Mills LP, Climax Molybdenum Company	Public Service Company of Colorado	Forecasted test year, historic test year, proforma adjustments for major plant additions, tax depreciation.
09/09	6680-UR-117 Direct and Surrebuttal	WI	Wisconsin Industrial Energy Group	Wisconsin Power and Light Company	Revenue requirements, CWIP in rate base, deferral mitigation, payroll, capacity shutdowns, regulatory assets, rate of return.

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10/09	09A-415E Answer	CO	Cripple Creek & Victor Gold Mining Company, et al.	Black Hills/CO Electric Utility Company	Cost prudence, cost sharing mechanism.
10/09	EL09-50 Direct	FERC	Louisiana Public Service Commission	Entergy Services, Inc.	Waterford 3 sale/leaseback accumulated deferred income taxes, Entergy System Agreement bandwidth remedy calculations.
10/09	2009-00329	KY	Kentucky Industrial Utility Customers, Inc.	Louisville Gas and Electric Company, Kentucky Utilities Company	Trimble County 2 depreciation rates.
12/09	PUE-2009-00030	VA	Old Dominion Committee for Fair Utility Rates	Appalachian Power Company	Return on equity incentive.
12/09	ER09-1224 Direct	FERC	Louisiana Public Service Commission	Entergy Services, Inc.	Hypothetical versus actual costs, out of period costs, Spindletop deferred capital costs, Waterford 3 sale/leaseback ADIT.
01/10	ER09-1224 Cross-Answering	FERC	Louisiana Public Service Commission	Entergy Services, Inc.	Hypothetical versus actual costs, out of period costs, Spindletop deferred capital costs, Waterford 3 sale/leaseback ADIT.
01/10	EL09-50 Rebuttal  Supplemental Rebuttal	FERC	Louisiana Public Service Commission	Entergy Services, Inc.	Waterford 3 sale/leaseback accumulated deferred income taxes, Entergy System Agreement bandwidth remedy calculations.
02/10	ER09-1224 Final	FERC	Louisiana Public Service Commission	Entergy Services, Inc.	Hypothetical versus actual costs, out of period costs, Spindletop deferred capital costs, Waterford 3 sale/leaseback ADIT.
02/10	30442 Wackerly-Kollen Panel	GA	Georgia Public Service Commission Staff	Atmos Energy Corporation	Revenue requirement issues.
02/10	30442 McBride-Kollen Panel	GA	Georgia Public Service Commission Staff	Atmos Energy Corporation	Affiliate/division transactions, cost allocation, capital structure.
02/10	2009-00353	KY	Kentucky Industrial Utility Customers, Inc.,  Attorney General	Louisville Gas and Electric Company, Kentucky Utilities Company	Ratemaking recovery of wind power purchased power agreements.
03/10	2009-00545	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Power Company	Ratemaking recovery of wind power purchased power agreement.
03/10	E015/GR-09-1151	MN	Large Power Interveners	Minnesota Power	Revenue requirement issues, cost overruns on environmental retrofit project.
03/10	EL10-55	FERC	Louisiana Public Service Commission	Entergy Services, Inc., Entergy Operating Cos	Depreciation expense and effects on System Agreement tariffs.
04/10	2009-00459	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Power Company	Revenue requirement issues.



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04/10	2009-00458, 2009-00459	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Utilities Company, Louisville Gas and Electric Company	Revenue requirement issues.
08/10	31647	GA	Georgia Public Service Commission Staff	Atlanta Gas Light Company	Revenue requirement and synergy savings issues.
08/10	31647 Wackerly-Kollen Panel	GA	Georgia Public Service Commission Staff	Atlanta Gas Light Company	Affiliate transaction and Customer First program issues.
08/10	2010-00204	KY	Kentucky Industrial Utility Customers, Inc.	Louisville Gas and Electric Company, Kentucky Utilities Company	PPL acquisition of E.ON U.S. (LG&E and KU) conditions, acquisition savings, sharing deferral mechanism.
09/10	38339 Direct and Cross-Rebuttal	TX	Gulf Coast Coalition of Cities	CenterPoint Energy Houston Electric	Revenue requirement issues, including consolidated tax savings adjustment, incentive compensation FIN 48; AMS surcharge including roll-in to base rates; rate case expenses.
09/10	EL10-55	FERC	Louisiana Public Service Commission	Entergy Services, Inc., Entergy Operating Cos	Depreciation rates and expense input effects on System Agreement tariffs.
09/10	2010-00167	KY	Gallatin Steel	East Kentucky Power Cooperative, Inc.	Revenue requirements.
09/10	U-23327 Subdocket E Direct	LA	Louisiana Public Service Commission	SWEPCO	Fuel audit: SO2 allowance expense, variable O&M expense, off-system sales margin sharing.
11/10	U-23327 Rebuttal	LA	Louisiana Public Service Commission	SWEPCO	Fuel audit: SO2 allowance expense, variable O&M expense, off-system sales margin sharing.
09/10	U-31351	LA	Louisiana Public Service Commission Staff	SWEPCO and Valley Electric Membership Cooperative	Sale of Valley assets to SWEPCO and dissolution of Valley.
10/10	10-1261-EL-UNC	OH	Ohio OCC, Ohio Manufacturers Association, Ohio Energy Group, Ohio Hospital Association, Appalachian Peace and Justice Network	Columbus Southern Power Company	Significantly excessive earnings test.
10/10	10-0713-E-PC	WV	West Virginia Energy Users Group	Monongahela Power Company, Potomac Edison Power Company	Merger of First Energy and Allegheny Energy.
10/10	U-23327 Subdocket F Direct	LA	Louisiana Public Service Commission Staff	SWEPCO	AFUDC adjustments in Formula Rate Plan.
11/10	EL10-55 Rebuttal	FERC	Louisiana Public Service Commission	Entergy Services, Inc., Entergy Operating Cos	Depreciation rates and expense input effects on System Agreement tariffs.

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12/10	ER10-1350 Direct	FERC	Louisiana Public Service Commission	Entergy Services, Inc. Entergy Operating Cos	Waterford 3 lease amortization, ADIT, and fuel inventory effects on System Agreement tariffs.
01/11	ER10-1350 Cross-Answering	FERC	Louisiana Public Service Commission	Entergy Services, Inc., Entergy Operating Cos	Waterford 3 lease amortization, ADIT, and fuel inventory effects on System Agreement tariffs.
03/11	ER10-2001 Direct	FERC	Louisiana Public Service Commission	Entergy Services, Inc., Entergy Arkansas, Inc.	EAI depreciation rates.
04/11	Cross-Answering				
04/11	U-23327 Subdocket E	LA	Louisiana Public Service Commission Staff	SWEPCO	Settlement, incl resolution of SO2 allowance expense, var O&M expense, sharing of OSS margins.
04/11	38306 Direct	TX	Cities Served by Texas- New Mexico Power Company	Texas-New Mexico Power Company	AMS deployment plan, AMS Surcharge, rate case expenses.
05/11	Suppl Direct				
05/11	11-0274-E-GI	WV	West Virginia Energy Users Group	Appalachian Power Company, Wheeling Power Company	Deferral recovery phase-in, construction surcharge.
05/11	2011-00036	KY	Kentucky Industrial Utility Customers, Inc.	Big Rivers Electric Corp.	Revenue requirements.
06/11	29849	GA	Georgia Public Service Commission Staff	Georgia Power Company	Accounting issues related to Vogtle risk-sharing mechanism.
07/11	ER11-2161 Direct and Answering	FERC	Louisiana Public Service Commission	Entergy Services, Inc. and Entergy Texas, Inc.	ETI depreciation rates; accounting issues.
07/11	PUE-2011-00027	VA	Virginia Committee for Fair Utility Rates	Virginia Electric and Power Company	Return on equity performance incentive.
07/11	11-346-EL-SSO 11-348-EL-SSO 11-349-EL-AAM 11-350-EL-AAM	OH	Ohio Energy Group	AEP-OH	Equity Stabilization Incentive Plan; actual earned returns; ADIT offsets in riders.
08/11	U-23327 Subdocket F Rebuttal	LA	Louisiana Public Service Commission Staff	SWEPCO	Depreciation rates and service lives; AFUDC adjustments.
08/11	05-UR-105	WI	Wisconsin Industrial Energy Group	WE Energies, Inc.	Suspended amortization expenses; revenue requirements.
08/11	ER11-2161 Cross-Answering	FERC	Louisiana Public Service Commission	Entergy Services, Inc. and Entergy Texas, Inc.	ETI depreciation rates; accounting issues.
09/11	PUC Docket 39504	TX	Gulf Coast Coalition of Cities	CenterPoint Energy Houston Electric	Investment tax credit, excess deferred income taxes; normalization.
09/11	2011-00161 2011-00162	KY	Kentucky Industrial Utility Consumers, Inc.	Louisville Gas & Electric Company, Kentucky Utilities Company	Environmental requirements and financing.

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10/11	11-4571-EL-UNC 11-4572-EL-UNC	OH	Ohio Energy Group	Columbus Southern Power Company, Ohio Power Company	Significantly excessive earnings.
10/11	4220-UR-117 Direct	WI	Wisconsin Industrial Energy Group	Northern States Power-Wisconsin	Nuclear O&M, depreciation.
11/11	4220-UR-117 Surrebuttal	WI	Wisconsin Industrial Energy Group	Northern States Power-Wisconsin	Nuclear O&M, depreciation.
11/11	PUC Docket 39722	TX	Cities Served by AEP Texas Central Company	AEP Texas Central Company	Investment tax credit, excess deferred income taxes; normalization.
02/12	PUC Docket 40020	TX	Cities Served by Oncor	Lone Star Transmission, LLC	Temporary rates.
03/12	11AL-947E Answer	CO	Climax Molybdenum Company and CF&I Steel, L.P. d/b/a Evraz Rocky Mountain Steel	Public Service Company of Colorado	Revenue requirements, including historic test year, future test year, CACJA CWIP, contra-AFUDC.
03/12	2011-00401	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Power Company	Big Sandy 2 environmental retrofits and environmental surcharge recovery.
4/12	2011-00036 Direct Rehearing Supplemental Direct Rehearing	KY	Kentucky Industrial Utility Customers, Inc.	Big Rivers Electric Corp.	Rate case expenses, depreciation rates and expense.
04/12	10-2929-EL-UNC	OH	Ohio Energy Group	AEP Ohio Power	State compensation mechanism, CRES capacity charges, Equity Stabilization Mechanism
05/12	11-346-EL-SSO 11-348-EL-SSO	OH	Ohio Energy Group	AEP Ohio Power	State compensation mechanism, Equity Stabilization Mechanism, Retail Stability Rider.
05/12	11-4393-EL-RDR	OH	Ohio Energy Group	Duke Energy Ohio, Inc.	Incentives for over-compliance on EE/PDR mandates.
06/12	40020	TX	Cities Served by Oncor	Lone Star Transmission, LLC	Revenue requirements, including ADIT, bonus depreciation and NOL, working capital, self insurance, depreciation rates, federal income tax expense.
07/12	120015-EI	FL	South Florida Hospital and Healthcare Association	Florida Power & Light Company	Revenue requirements, including vegetation management, nuclear outage expense, cash working capital, CWIP in rate base.
07/12	2012-00063	KY	Kentucky Industrial Utility Customers, Inc.	Big Rivers Electric Corp.	Environmental retrofits, including environmental surcharge recovery.
09/12	05-UR-106	WI	Wisconsin Industrial Energy Group, Inc.	Wisconsin Electric Power Company	Section 1603 grants, new solar facility, payroll expenses, cost of debt.
10/12	2012-00221 2012-00222	KY	Kentucky Industrial Utility Customers, Inc.	Louisville Gas and Electric Company, Kentucky Utilities Company	Revenue requirements, including off-system sales, outage maintenance, storm damage, injuries and damages, depreciation rates and expense.

**Expert Testimony Appearances  
of  
Lane Kollen  
as of August 2016**

<b>Date</b>	<b>Case</b>	<b>Jurisdiction</b>	<b>Party</b>	<b>Utility</b>	<b>Subject</b>
10/12	120015-EI Direct	FL	South Florida Hospital and Healthcare Association	Florida Power & Light Company	Settlement issues.
11/12	120015-EI Rebuttal	FL	South Florida Hospital and Healthcare Association	Florida Power & Light Company	Settlement issues.
10/12	40604	TX	Steering Committee of Cities Served by Oncor	Cross Texas Transmission, LLC	Policy and procedural issues, revenue requirements, including AFUDC, ADIT – bonus depreciation & NOL, incentive compensation, staffing, self-insurance, net salvage, depreciation rates and expense, income tax expense.
11/12	40627 Direct	TX	City of Austin d/b/a Austin Energy	City of Austin d/b/a Austin Energy	Rate case expenses.
12/12	40443	TX	Cities Served by SWEPCO	Southwestern Electric Power Company	Revenue requirements, including depreciation rates and service lives, O&M expenses, consolidated tax savings, CWIP in rate base, Turk plant costs.
12/12	U-29764	LA	Louisiana Public Service Commission Staff	Entergy Gulf States Louisiana, LLC and Entergy Louisiana, LLC	Termination of purchased power contracts between EGSL and ETI, Spindletop regulatory asset.
01/13	ER12-1384 Rebuttal	FERC	Louisiana Public Service Commission	Entergy Gulf States Louisiana, LLC and Entergy Louisiana, LLC	Little Gypsy 3 cancellation costs.
02/13	40627 Rebuttal	TX	City of Austin d/b/a Austin Energy	City of Austin d/b/a Austin Energy	Rate case expenses.
03/13	12-426-EL-SSO	OH	The Ohio Energy Group	The Dayton Power and Light Company	Capacity charges under state compensation mechanism, Service Stability Rider, Switching Tracker.
04/13	12-2400-EL-UNC	OH	The Ohio Energy Group	Duke Energy Ohio, Inc.	Capacity charges under state compensation mechanism, deferrals, rider to recover deferrals.
04/13	2012-00578	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Power Company	Resource plan, including acquisition of interest in Mitchell plant.
05/13	2012-00535	KY	Kentucky Industrial Utility Customers, Inc.	Big Rivers Electric Corporation	Revenue requirements, excess capacity, restructuring.
06/13	12-3254-EL-UNC	OH	The Ohio Energy Group, Inc.,  Office of the Ohio Consumers' Counsel	Ohio Power Company	Energy auctions under CBP, including reserve prices.
07/13	2013-00144	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Power Company	Biomass renewable energy purchase agreement.
07/13	2013-00221	KY	Kentucky Industrial Utility Customers, Inc.	Big Rivers Electric Corporation	Agreements to provide Century Hawesville Smelter market access.
10/13	2013-00199	KY	Kentucky Industrial Utility Customers, Inc.	Big Rivers Electric Corporation	Revenue requirements, excess capacity, restructuring.

**Expert Testimony Appearances  
of  
Lane Kollen  
as of August 2016**

<b>Date</b>	<b>Case</b>	<b>Jurisdct.</b>	<b>Party</b>	<b>Utility</b>	<b>Subject</b>
12/13	2013-00413	KY	Kentucky Industrial Utility Customers, Inc.	Big Rivers Electric Corporation	Agreements to provide Century Sebree Smelter market access.
01/14	ER10-1350	FERC	Louisiana Public Service Commission	Entergy Services, Inc.	Waterford 3 lease accounting and treatment in annual bandwidth filings.
04/14	ER13-432 Direct	FERC	Louisiana Public Service Commission	Entergy Gulf States Louisiana, LLC and Entergy Louisiana, LLC	UP Settlement benefits and damages.
05/14	PUE-2013-00132	VA	HP Hood LLC	Shenandoah Valley Electric Cooperative	Market based rate; load control tariffs.
07/14	PUE-2014-00033	VA	Virginia Committee for Fair Utility Rates	Virginia Electric and Power Company	Fuel and purchased power hedge accounting, change in FAC Definitional Framework.
08/14	ER13-432 Rebuttal	FERC	Louisiana Public Service Commission	Entergy Gulf States Louisiana, LLC and Entergy Louisiana, LLC	UP Settlement benefits and damages.
08/14	2014-00134	KY	Kentucky Industrial Utility Customers, Inc.	Big Rivers Electric Corporation	Requirements power sales agreements with Nebraska entities.
09/14	E-015/CN-12-1163 Direct	MN	Large Power Intervenors	Minnesota Power	Great Northern Transmission Line; cost cap; AFUDC v. current recovery; rider v. base recovery; class cost allocation.
10/14	2014-00225	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Power Company	Allocation of fuel costs to off-system sales.
10/14	ER13-1508	FERC	Louisiana Public Service Commission	Entergy Services, Inc.	Entergy service agreements and tariffs for affiliate power purchases and sales; return on equity.
10/14	14-0702-E-42T 14-0701-E-D	WV	West Virginia Energy Users Group	First Energy-Monongahela Power, Potomac Edison	Consolidated tax savings; payroll; pension, OPEB, amortization; depreciation; environmental surcharge.
11/14	E-015/CN-12-1163 Surrebuttal	MN	Large Power Intervenors	Minnesota Power	Great Northern Transmission Line; cost cap; AFUDC v. current recovery; rider v. base recovery; class allocation.
11/14	05-376-EL-UNC	OH	Ohio Energy Group	Ohio Power Company	Refund of IGCC CWIP financing cost recoveries.
11/14	14AL-0660E	CO	Climax, CF&I Steel	Public Service Company of Colorado	Historic test year v. future test year; AFUDC v. current return; CACJA rider, transmission rider; equivalent availability rider; ADIT; depreciation; royalty income; amortization.
12/14	EL14-026	SD	Black Hills Industrial Intervenors	Black Hills Power Company	Revenue requirement issues, including depreciation expense and affiliate charges.
12/14	14-1152-E-42T	WV	West Virginia Energy Users Group	AEP-Appalachian Power Company	Income taxes, payroll, pension, OPEB, deferred costs and write offs, depreciation rates, environmental projects surcharge.
01/15	9400-YO-100 Direct	WI	Wisconsin Industrial Energy Group	Wisconsin Energy Corporation	WEC acquisition of Integrys Energy Group, Inc.

**Expert Testimony Appearances  
of  
Lane Kollen  
as of August 2016**

<b>Date</b>	<b>Case</b>	<b>Jurisdict.</b>	<b>Party</b>	<b>Utility</b>	<b>Subject</b>
01/15	14F-0336EG 14F-0404EG	CO	Development Recovery Company LLC	Public Service Company of Colorado	Line extension policies and refunds.
02/15	9400-YO-100 Rebuttal	WI	Wisconsin Industrial Energy Group	Wisconsin Energy Corporation	WEC acquisition of Integrys Energy Group, Inc.
03/15	2014-00396	KY	Kentucky Industrial Utility Customers, Inc.	AEP-Kentucky Power Company	Base, Big Sandy 2 retirement rider, environmental surcharge, and Big Sandy 1 operation rider revenue requirements, depreciation rates, financing, deferrals.
03/15	2014-00371 2014-00372	KY	Kentucky Industrial Utility Customers, Inc.	Kentucky Utilities Company and Louisville Gas and Electric Company	Revenue requirements, staffing and payroll, depreciation rates.
04/15	2014-00450	KY	Kentucky Industrial Utility Customers, Inc. and the Attorney General of the Commonwealth of Kentucky	AEP-Kentucky Power Company	Allocation of fuel costs between native load and off- system sales.
04/15	2014-00455	KY	Kentucky Industrial Utility Customers, Inc. and the Attorney General of the Commonwealth of Kentucky	Big Rivers Electric Corporation	Allocation of fuel costs between native load and off- system sales.
04/15	ER2014-0370	MO	Midwest Energy Consumers' Group	Kansas City Power & Light Company	Affiliate transactions, operation and maintenance expense, management audit.
05/15	PUE-2015-00022	VA	Virginia Committee for Fair Utility Rates	Virginia Electric and Power Company	Fuel and purchased power hedge accounting; change in FAC Definitional Framework.
05/15 09/15	EL10-65 Direct, Rebuttal Complaint	FERC	Louisiana Public Service Commission	Entergy Services, Inc.	Accounting for AFUDC Debt, related ADIT.
07/15	EL10-65 Direct and Answering Consolidated Bandwidth Dockets	FERC	Louisiana Public Service Commission	Entergy Services, Inc.	Waterford 3 sale/leaseback ADIT, Bandwidth Formula.
09/15	14-1693-EL-RDR	OH	Public Utilities Commission of Ohio	Ohio Energy Group	PPA rider for charges or credits for physical hedges against market.
12/15	45188	TX	Cities Served by Oncor Electric Delivery Company	Oncor Electric Delivery Company	Hunt family acquisition of Oncor; transaction structure; income tax savings from real estate investment trust (REIT) structure; conditions.
12/15 01/16	6680-CE-176 Direct, Surrebuttal, Supplemental Rebuttal	WI	Wisconsin Industrial Energy Group, Inc.	Wisconsin Power and Light Company	Need for capacity and economics of proposed Riverside Energy Center Expansion project; ratemaking conditions.

**Expert Testimony Appearances  
of  
Lane Kollen  
as of August 2016**

<b>Date</b>	<b>Case</b>	<b>Jurisdiction</b>	<b>Party</b>	<b>Utility</b>	<b>Subject</b>
03/16 04/16 05/16 06/16	EL01-88 Remand Direct Answering Cross-Answering Rebuttal	FERC	Louisiana Public Service Commission	Entergy Services, Inc.	Bandwidth Formula: Capital structure, fuel inventory, Waterford 3 sale/leaseback, Vidalia purchased power, ADIT, Blythesville, Spindletop, River Bend AFUDC, property insurance reserve, nuclear depreciation expense.
03/16	15-1673-E-T	WV	West Virginia Energy Users Group	Appalachian Power Company	Terms and conditions of utility service for commercial and industrial customers, including security deposits.
04/16	39971 Panel Direct	GA	Georgia Public Service Commission Staff	Southern Company, AGL Resources, Georgia Power Company, Atlanta Gas Light Company	Southern Company acquisition of AGL Resources, risks, opportunities, quantification of savings, ratemaking implications, conditions, settlement.
04/16	2015-00343	KY	Office of the Attorney General	Atmos Energy Corporation	Revenue requirements, including NOL ADIT, affiliate transactions.
04/16	2016-00070	KY	Office of the Attorney General	Atmos Energy Corporation	R & D Rider.
05/16	16-G-0058 16-G-0059	NY	New York City	Keyspan Gas East Corp., Brooklyn Union Gas Company	Depreciation, including excess reserves, leak prone pipe.
06/16	160088-EI	FL	South Florida Hospital and Healthcare Association	Florida Power and Light Company	Fuel Adjustment Clause Incentive Mechanism re: economy sales and purchases, asset optimization.
07/16	160021-EI	FL	South Florida Hospital and Healthcare Association	Florida Power and Light Company	Revenue requirements, including capital recovery, depreciation, ADIT.
08/16	15-1022-EL-UNC 16-1105-EL-UNC	OH	Ohio Energy Group	AEP Ohio Power Company	SEET earnings, effects of other pending proceedings.

**EXHIBIT \_\_\_\_ (LK-2)**



**Columbia Gas of Kentucky, Inc.**  
**Summary of Attorney General Recommendations**  
**Rate Base**  
**KPSC Case No. 2016-00162**  
**Forecasted Test Year Ended December 31, 2017**  
**\$ Millions**

	<u>Amount</u>
Rate Base per Columbia Gas	\$ 253.361
Adjustments:	
Reject Change from ASL to ELG Procedure - A/D and ADIT	1.074
Adjust Slippage for All Capital Expenditures - Plant, A/D, and ADIT	(4.910)
Remove Capital Initiatives Not Budgeted - Plant, A/D, and ADIT	(3.737)
Reflect Zero Balance for Cash Working Capital	(5.637)
Remove NOL ADIT in Acct 190	<u>(1.258)</u>
Net Change in Rate Base AG Recommendation	<u>(14.468)</u>
Adjusted Rate Base AG Recommendation	<u><u>238.893</u></u>

**EXHIBIT \_\_\_\_ (LK-3)**



**III. Columbia Gas Cost of Capital Adjusted to Reflect Lower Short Term Debt Rate**

	Capital Amount	Capital Ratio	Component Costs	Weighted Avg Cost	Grossed Up Cost
Short Term Debt	7.114	2.87%	1.00%	0.03%	0.03%
Long Term Debt	114.699	46.33%	5.64%	2.61%	2.61%
Common Equity	125.778	50.80%	11.00%	5.59%	9.25%
<b>Total Capital</b>	<b>247.591</b>	<b>100.00%</b>		<b>8.23%</b>	<b>11.89%</b>
Change in Grossed Up Weighted Avg Cost of Capital					-0.04%
Rate Base Recommended by AG					238.893
Revenue Requirement Effect of Adjustment					(0.096)

**IV. Columbia Gas Cost of Capital Adjusted to Include AG Recommended ROE of 9.0%**

	Capital Amount	Capital Ratio	Component Costs	Weighted Avg Cost	Grossed Up Cost
Short Term Debt	7.114	2.87%	1.00%	0.03%	0.03%
Long Term Debt	114.699	46.33%	5.64%	2.61%	2.61%
Common Equity	125.778	50.80%	9.00%	4.57%	7.56%
<b>Total Capital</b>	<b>247.591</b>	<b>100.00%</b>		<b>7.21%</b>	<b>10.20%</b>
Change in Grossed Up Weighted Avg Cost of Capital					-1.69%
Rate Base Recommended by AG					238.893
Revenue Requirement Effect of Adjustment					(4.033)
Every 1% ROE Change					(2.016)

**EXHIBIT \_\_\_\_ (LK-4)**

Columbia Gas of Kentucky, Inc.  
Case No. 2013-00167  
Forecasted Income Statement Summary  
Calendar Years 2013 - 2016

Line No.	<u>Description</u>	<u>2013</u> (000)	<u>2014</u> (000)	<u>2015</u> (000)	<u>2016</u> (000)
1	Gas Revenue	\$ 113,570	\$ 120,384	\$ 119,740	\$ 121,741
2	Gas Purchase Expense	54,428	61,177	61,130	63,467
3	Plant Revenue	59,142	59,207	58,610	58,274
4	O&M Expenses	32,955	33,286	32,175	32,273
5	Depreciation	7,126	7,689	8,202	8,648
6	Other Taxes	3,165	3,476	3,851	4,131
7	Plant Expenses	43,246	44,451	44,228	45,052
8	Operating Income Before Taxes	15,896	14,756	14,382	13,222
9	Income Taxes	5,120	4,604	4,381	3,791
10	Net Operating Income	10,776	10,152	10,001	9,431
11	Other Income	2,672	2,695	2,631	2,697
12	Income Before Interest	13,448	12,847	12,632	12,128
13	Interest Expense	5,143	5,405	5,553	6,015
14	Net Income from Subsidiaries	8	-	-	-
15	Net Income	\$ 8,313	\$ 7,442	\$ 7,079	\$ 6,113

**EXHIBIT \_\_\_\_ (LK-5)**

KY PSC Case No. 2016-00162  
Response to Staff's Data Request Set One No. 033  
Respondents: Jana T. Croom and Brian J. Noel

**COLUMBIA GAS OF KENTUCKY, INC.  
RESPONSE TO STAFF'S FIRST REQUEST FOR INFORMATION  
DATED MAY 11, 2016**

33. List separately the budgeted and actual numbers of full- and part-time employees by employee group, by month and by year, for the three most recent calendar years, the base period, and the forecasted test period.

**Response:**

Please refer to Attachment A for this response.







Columbia Gas of Kentucky, Inc.  
 Case No. 2016-00162  
 Employee Headcount  
 Base Period: For the Twelve Months Ended August 31, 2016  
 Forecasted Period: For the Twelve Months Ended December 31, 2017

Line No.	Employee Group	Sep 2015	Oct 2015	Nov 2015	Dec 2016	Jan 2016	Feb 2016	Mar 2016	Apr 2016	May 2016	Jun 2016	Jul 2016	Aug 2016	Total Base Period
1	<b>Exempt Employees</b>													
2	Base Period	26	26	26	26	27	26	25	29	29	29	29	29	27
3	Original Budget	25	25	25	25	27	27	25	29	29	29	29	29	27
4	<b>Manual</b>													
5	Base Period	101	101	101	101	96	108	108	106	104	102	102	102	103
6	Original Budget	101	101	101	101	98	98	108	106	104	102	102	102	102
7	<b>Admin/Tech</b>													
8	Base Period	17	17	17	17	19	19	19	20	20	20	20	20	19
9	Original Budget	16	16	16	16	20	20	19	20	20	20	20	20	19
10	<b>Regular Employees</b>													
11	Base Period	144	144	144	144	142	153	152	155	153	151	151	151	149
12	Original Budget	142	142	142	142	145	145	152	155	153	151	151	151	148
13	<b>Part Time</b>													
14	Base Period	3	3	3	3	3	3	3	3	3	3	3	3	3
15	Original Budget	1	1	1	1	3	3	3	3	3	3	3	3	2
16	<b>TOTAL EMPLOYEES</b>													
17	Base Period	147	147	147	147	145	156	155	158	156	154	154	154	152
18	Original Budget	143	143	143	143	148	148	155	158	156	154	154	164	150
19	<b>Exempt Employees</b>													
20	Forecasted Period	31	32	33	33	33	33	33	33	33	33	33	33	33
21	<b>Manual</b>													
22	Forecasted Period	102	102	102	102	102	102	102	102	102	102	102	102	102
23	<b>Admin/Tech</b>													
24	Forecasted Period	20	20	20	20	20	20	20	20	20	20	20	20	20
25	<b>Regular Employees</b>													
26	Forecasted Period	153	154	155	155	155	155	155	155	155	155	155	155	155
27	<b>Part Time</b>													
28	Forecasted Period	3	3	3	3	3	3	3	3	3	3	3	3	3
29	<b>TOTAL EMPLOYEES</b>													
30	Forecasted Period	156	157	158	158	158	168	168	168	168	158	158	158	158

**EXHIBIT \_\_\_\_ (LK-6)**

**Columbia Gas of Kentucky, Inc.**  
**CASE NO. 2013-00167**  
**Forecasted Test Period Filing Requirements**  
**Filing Requirement 12-h-9**

**Description of Filing Requirement:**

Employee level;

**Response:**

Please refer to the attached.

**Responsible Witness:**

S. Mark Katko

FR 16(12)(h)(9)

Columbia Gas of Kentucky, Inc.  
Filing Requirement 12-h-9  
Employee Level

<u>Line No.</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>
1 Year End	131	131	131	131
2 Average	128	131	131	131

**EXHIBIT \_\_\_\_ (LK-7)**

**COLUMBIA GAS OF KENTUCKY, INC.  
RESPONSE TO ATTORNEY GENERAL'S SUPPLEMENTAL  
REQUEST FOR INFORMATION  
DATED AUGUST 5, 2016**

14. Refer to Attachment A to the Company's response to Staff 1-33.
- a. Explain the step up in the number of employees in April 2015 compared to March 2015.
  - b. Explain the step up in the number of employees in January 2017 compared to January 2016. Identify each additional position and the relationship to any or all of the Company's proposed strategic O&M initiatives.

**Response:**

- a. The increase in the number of employees in April 2015 was due to Columbia's "wave" hiring of field employees. Columbia added 13 employees to its gas operations to fill the current vacancies and anticipated vacancies.
- b. Columbia is projecting another "wave" hire for gas operations in January 2017, or earlier, to backfill vacant positions due to employees retiring or moving to the construction and engineering organization or other like areas of the company. Per union contract requirements, Columbia will fill the positions as



Utility B. Advanced workforce training, enhanced operator qualifications (OQ), training center and curriculum development, and the third party damage prevention program will all be impacted by the anticipated “wave” hire. In an effort to be fiscally conservative and have greater impact, Columbia hires employees in waves, allowing them to be trained at the same time, thus creating greater efficiencies and cost savings. Once employees are trained they can backfill employees who are receiving enhanced OQ training or are migrating to damage prevention roles within Columbia.

**EXHIBIT \_\_\_\_ (LK-8)**

**Columbia Gas of Kentucky, Inc.**  
**Attorney General Recommendation to Reduce Labor and Related Expenses**  
**KPSC Case No. 2016-00162**  
**Forecasted Test Year Ended December 31, 2017**  
**\$ Millions**

Sources: Schedule G-2

Total O&M Labor Dollars Included in Test Year	9.359
Total O&M Benefits Included in Test Year	1.782
Total O&M Related Payroll Tax Expense Included in Test Year	<u>0.672</u>
Total Labor Related Expenses Included in Test Year	11.813
Total Employees Forecasted For Test Year	<u>158</u>
Total Labor Related Expenses Per Employee	0.075
Reduction in Employees from 158 to 131	<u>-27</u>
AG Recommended Reduction to Labor and Related Expenses	<u><u>(2.019)</u></u>

**EXHIBIT \_\_\_\_ (LK-9)**

**COLUMBIA GAS OF KENTUCKY, INC.**  
**RESPONSE TO STAFF'S SECOND REQUEST FOR INFORMATION**  
**DATED JULY 8, 2016**

8. Refer to the Miller Testimony. page 24, lines 13-17, where Columbia discusses its deployment of automated meter reading ("AMR") and the savings for meter reading expenses.

a. Provide the monthly meter reading expense for Columbia beginning with the first month of fiscal year 2014 through the most recent month available. This should be considered an ongoing request to be updated through the conclusion of this proceeding.

b. Provide the amount of meter reading expense Columbia has included in the base period and forecasted test year, and explain how those amounts were determined.

**Response:**

- a. Please see Staff 2-8 Attachment A for the response.
- b. Please see Staff 2-8 Attachment B for the response. The amounts shown in the base and forecasted test period include total meter reading costs

(outside services which represents contract labor, labor and other items).

This amount differs from the amount presented for the AMR program which only includes outside services. These amounts were determined using historical information to project what future costs might be.

Meter Reading Expense

2014

January	\$127,005.99
February	\$124,491.92
March	\$126,530.44
April	\$115,660.96
May	\$134,999.49
June	\$130,102.04
July	\$129,403.09
August	\$125,511.21
September	\$120,431.41
October	\$88,125.62
November	\$78,141.39
December	\$91,792.73
	<hr/>
	\$1,392,196.29

2015

January	\$12,932.76
February	\$47,341.25
March	\$79,024.42
April	\$71,291.37
May	\$44,768.58
June	\$43,185.91
July	\$20,773.03
August	\$26,310.06
September	\$21,034.11
October	(\$4,898.10)
November	\$25,565.14
December	\$14,532.47
	<hr/>
	\$401,861.00

2016

January	\$15,622.73
February	\$32,333.87
March	\$23,735.24
April	\$27,426.03
May	\$23,870.62
June	\$25,895.10
	<hr/>
	\$148,883.59

Meter Reading Expense

Test Period (Sep. 2015 - Aug. 2016)

September	21,034.11
October	(4,898.10)
November	25,565.14
December	14,532.47
January	15,622.73
February	32,333.87
March	37,274.00
April	42,189.00
May	44,335.00
June	45,692.00
July	44,621.00
August	49,641.00
	<hr/>
	\$367,942.22

Forecast Period (Calendar Year 2017)

January	38,481.00
February	35,160.00
March	39,603.00
April	42,923.00
May	49,535.00
June	49,394.00
July	47,682.00
August	54,440.00
September	50,995.00
October	47,390.00
November	45,019.00
December	46,508.00
	<hr/>
	\$547,130.00



**EXHIBIT \_\_\_\_ (LK-10)**

**COLUMBIA GAS OF KENTUCKY, INC.  
RESPONSE TO ATTORNEY GENERAL'S SUPPLEMENTAL  
REQUEST FOR INFORMATION  
DATED AUGUST 5, 2016**

19. Refer to the Company's response to Staff 2-21.
- a. Provide the actual costs of third party damage by FERC account for each year 2012 through 2015, and the costs included by FERC account in the base year and test year.
- b. Provide the revenues recovered for third party damage by FERC account for each year 2012 through 2015, and the revenues by FERC account in the base year and test year.

**Response:**

- a. Please see AG 2-19 Attachment A for the response.
- b. Please see AG 2-19 Attachment A for the response. Columbia does not record revenues when it recovers expense associated with third party damages, except in the Other Gas Revenue 495 account where it records the recovery of lost gas related to third party damage. Instead, Columbia

records a credit to the O&M expense accounts that were originally charged when the damage occurred.

**Third Party Damages by FERC Account**

<u>Account</u>	<u>Description</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>Base Period*</u>	<u>Test Period*</u>
495	Other Gas Revenues	(50,071.37)	(40,673.19)	(19,592.99)	(10,372.10)	(2,655.46)	-
878	Meter and House Regulator Expense	-	-	(9,787.08)	(33,286.33)	(11,636.00)	(8,568.00)
879	Customer Installations Expenses	-	-	(2,777.75)	(2,057.25)	(1,183.00)	(591.00)
887	Maintenance of Mains	(67,133.35)	(123,714.82)	(44,573.82)	(129,891.18)	(33,078.00)	(37,444.00)
892	Maintenance of Services	(148,893.31)	(116,480.95)	(147,564.08)	(200,151.49)	(110,464.00)	(51,457.00)
903	Customer Records and Collection Expenses	-	-	(1,149.50)	(2,024.00)	(1,936.00)	(595.00)
<b>Total</b>		<b>(266,098.03)</b>	<b>(280,868.96)</b>	<b>(225,445.22)</b>	<b>(377,782.35)</b>	<b>(160,952.46)</b>	<b>(98,655.00)</b>

\* 495 Forecasted Other Gas Revenue is based off a historical seven year average, therefore direct allocation attributed to Third Party Damages can not be ascertained.

**EXHIBIT \_\_\_\_ (LK-11)**

**COLUMBIA GAS OF KENTUCKY, INC.  
RESPONSE TO ATTORNEY GENERAL'S INITIAL  
REQUEST FOR INFORMATION  
DATED JULY 8, 2016**

9. Refer to page 13, lines 17-18 of Mr. Spanos' Direct Testimony wherein he states:

I have conducted depreciation calculations using both the average service life and equal life group procedures.

Provide the depreciation rates using the ALG procedure. Provide all schedules, data, assumptions, workpapers, including all electronic spreadsheets with formulas intact.

**Response:**

The attached schedule, Attachment A to AG 1-9 -, sets forth the depreciation rates utilizing the Average Service Life procedure. All other schedules, data, assumptions, workpapers and spreadsheets are the same.

COLUMBIA GAS OF KENTUCKY, INC.

ESTIMATED SURVIVOR CURVES, NET SALVAGE, ORIGINAL COST, BOOK RESERVE AND  
CALCULATED ANNUAL DEPRECIATION ACCRUALS RELATED TO GAS PLANT AS OF DECEMBER 31, 2015

DEPRECIABLE GROUP (1)	SURVIVOR CURVE (2)	NET SALVAGE (3)	ORIGINAL COST AS OF DECEMBER 31, 2015 (4)	BOOK RESERVE (5)	FUTURE BOOK ACCRUALS (6)	CALCULATED ANNUAL ACCRUAL (7)		COMPOSITE REMAINING LIFE (9)=(6)/(7)
						AMOUNT	RATE (8)=(7)/(4)	
DEPRECIABLE PLANT								
DISTRIBUTION PLANT								
	LAND AND LAND RIGHTS							
374.4	70-R2	0	661,305.66	168,767	492,539	9,266	1.40	53.2
374.5	75-S4	0	2,666,575.55	901,108	1,765,468	32,709	1.23	54.0
	TOTAL ACCOUNT 374							
			3,327,881.21	1,069,875	2,258,007	41,975	1.26	
STRUCTURES AND IMPROVEMENTS								
375.34	52-R1.5	(20)	1,868,813.92	487,435	1,755,142	40,589	2.17	43.2
375.7	OTHER DISTRIBUTION SYSTEM							
	Square	0	7,807,297.57	3,119,082	4,688,215	165,874	2.12	28.3
	37-S2	0	162,502.60	74,524	87,979	4,079	2.51	21.6
	TOTAL ACCOUNT 375.7							
			7,969,800.17	3,193,606	4,776,194	169,953	2.13	
	TOTAL ACCOUNT 375							
			9,838,614.09	3,681,041	6,531,336	210,542	2.14	
376	MAINS							
	70-R1.5	*	222,637.37	213,724	53,441	3,014	1.35	17.7
	70-R1.5	*	17,458,363.07	16,341,933	4,608,103	252,501	1.45	18.2
	70-R1.5	(20)	62,001,629.58	16,608,049	57,793,906	1,027,902	1.66	56.2
	70-R1.5	(20)	118,726,602.05	23,167,366	119,304,556	1,987,830	1.67	60.0
	TOTAL ACCOUNT 376							
			198,409,232.07	56,331,072	181,760,006	3,271,247	1.65	
378	41-S0	(15)	9,992,551.53	3,572,331	7,919,103	219,546	2.20	36.1
379.1	40-R1.5	(15)	254,900.59	267,731	25,405	1,324	0.52	19.2
380	40-R1.5	(65)	115,258,005.47	57,280,572	132,895,137	4,377,717	3.80	30.4
381	37-R2	4	13,270,915.01	4,679,195	8,060,883	347,552	2.62	23.2
381.1	15-S2.5	0	8,705,079.06	335,815	8,369,264	627,908	7.21	13.3
382	42-S2	(5)	8,991,831.33	4,450,213	4,991,210	187,105	2.08	26.7
383	45-S1.5	(5)	5,504,717.40	1,447,854	4,332,099	123,594	2.25	35.1
384	45-S1.5	0	2,257,522.00	1,744,500	513,022	18,755	0.83	27.4
385	32-R0.5	(10)	3,047,363.19	855,577	2,496,523	110,970	3.64	22.5
387.4	33-R2.5	(5)	4,461,168.45	1,535,314	3,148,913	139,528	3.13	22.6
TOTAL DISTRIBUTION PLANT			383,319,781.40	137,251,090	363,300,908	9,677,763	2.52	
GENERAL PLANT								
OFFICE FURNITURE AND EQUIPMENT								
391.1	20-SQ	0	713,480.71	182,802	530,679	35,683	5.00	14.9
391.11	15-SQ	0	18,815.57	13,169	5,647	1,255	6.67	4.5
391.12	5-SQ	0	668,137.98	480,697	187,441	133,649	20.00	1.4
392.2	16-L4	10	120,240.20	24,303	83,913	9,949	8.27	8.4
394	25-SQ	0	2,945,416.95	1,195,493	1,749,924	117,696	4.00	14.9
395	20-SQ	0	9,257.77	7,106	2,152	463	5.00	4.6
396	18-S0.5	10	258,254.72	182,667	49,762	5,440	2.11	9.1

## COLUMBIA GAS OF KENTUCKY, INC.

ESTIMATED SURVIVOR CURVES, NET SALVAGE, ORIGINAL COST, BOOK RESERVE AND  
CALCULATED ANNUAL DEPRECIATION ACCRUALS RELATED TO GAS PLANT AS OF DECEMBER 31, 2015

DEPRECIABLE GROUP (1)	SURVIVOR CURVE (2)	NET SALVAGE (3)	ORIGINAL COST AS OF DECEMBER 31, 2015 (4)	BOOK RESERVE (5)	FUTURE BOOK ACCRUALS (6)	CALCULATED ANNUAL ACCRUAL		COMPOSITE REMAINING LIFE (9)=(6)/(7)
						AMOUNT (7)	RATE (8)=(7)/(4)	
398 MISCELLANEOUS EQUIPMENT								
FULLY ACCRUED	FULLY ACCRUED		3,290.19	3,290	0	0	-	-
AMORTIZED	15-SQ	0	87,786.75	32,535	55,252	5,857	6.67	9.4
TOTAL ACCOUNT 398			<u>91,076.94</u>	<u>35,825</u>	<u>55,252</u>	<u>5,857</u>	6.43	
TOTAL GENERAL PLANT			<u>4,824,680.84</u>	<u>2,122,062</u>	<u>2,664,770</u>	<u>309,992</u>	6.43	
TOTAL DEPRECIABLE PLANT			388,144,462.24	139,373,152	365,965,678	9,987,755	2.57	
UNRECOVERED RESERVE TO BE AMORTIZED								
391.1 FURNITURE				(269,654)		89,885	***	
391.11 EQUIPMENT				(26,413)		8,804	***	
391.12 INFORMATION SYSTEMS				39,733		(13,244)	***	
394 EQUIPMENT				58,023		(19,341)	***	
395 LABORATORY EQUIPMENT				(44)		15	***	
398 MISCELLANEOUS EQUIPMENT				<u>(16,625)</u>		<u>5,542</u>	***	
TOTAL UNRECOVERED RESERVE TO BE AMORTIZED				(214,980)		71,660		
AMORTIZABLE PLANT								
303 MISCELLANEOUS INTANGIBLE PLANT			5,340,619.47	2,072,601	3,268,018	767,437	**	
375.71 STRUCTURES AND IMPROVEMENTS - LEASEHOLDS			259,808.94	145,132	114,677	58,686	**	
378.21 MEASURING AND REGULATING STATION EQUIPMENT - FMV			<u>(777,092.00)</u>		<u>(777,092)</u>	<u>(25,903)</u>	****	
TOTAL AMORTIZABLE PLANT			4,823,336.41	2,217,733	2,605,603	800,220		
NONDEPRECIABLE AND NOT STUDIED PLANT								
301 ORGANIZATION			521.20					
374.1 LAND			206.00					
374.2 LAND			877,756.18	(523)				
376.02 MAINS - ARO			814,307.71	267,592				
376.03 MAINS - ARO			<u>124,320.94</u>	<u>10,384</u>				
TOTAL NONDEPRECIABLE PLANT			1,817,112.03	277,453				
TOTAL GAS PLANT			<u>394,784,910.68</u>	<u>141,653,358</u>	<u>368,571,281</u>	<u>10,859,635</u>		

\* Indicates the use of an interim survivor curve. Each asset class has a probable retirement date.

\*\* Accrual rate based on individual asset amortization.

\*\*\* 3-Year amortization of unrecovered reserve related to implementation of amortization accounting.



**EXHIBIT \_\_\_\_ (LK-12)**

**COLUMBIA GAS OF KENTUCKY, INC.  
RESPONSE TO ATTORNEY GENERAL'S INITIAL  
REQUEST FOR INFORMATION  
DATED JULY 8, 2016**

13. Refer to pages VI-3, VI-4, and VI-5 of the depreciation study. Provide similar schedules for the present depreciation rates.

**Response:**

Page VI-3 represents text and not a schedule. Additionally, the information on pages VI-4 and VI-5 are calculated based on the parameters such as life, net salvage, depreciation procedure and surviving plant. Therefore, it is not possible to provide a similar schedule for present depreciation rates, however, the attached schedule, Attachment A to AG 1-13, sets forth the proforma expense using the present depreciation rates.

## COLUMBIA GAS OF KENTUCKY, INC.

CALCULATION OF PRO FORMA EXPENSE USING CURRENT ANNUAL ACCRUAL RATES  
RELATED TO GAS PLANT AS OF DECEMBER 31, 2015

DEPRECIABLE GROUP (1)		ORIGINAL COST AS OF DECEMBER 31, 2015 (2)	CURRENT ANNUAL ACCRUAL RATE (3)	PRO FORMA EXPENSE (4)=(2)*(3)
<b>DEPRECIABLE PLANT</b>				
<b>DISTRIBUTION PLANT</b>				
374.4	LAND AND LAND RIGHTS LAND RIGHTS	661,305.66	1.53	10,118
374.5	RIGHTS-OF-WAY	2,666,575.55	1.22	32,532
	<i>TOTAL ACCOUNT 374</i>	<u>3,327,881.21</u>		<u>42,650</u>
	STRUCTURES AND IMPROVEMENTS			
375.34	MEASURING AND REGULATING	1,868,813.92	1.96	36,629
375.7	OTHER DISTRIBUTION SYSTEM STRUCTURES			
	DISTRIBUTION SYSTEM STRUCTURES	7,807,297.57	1.99	155,365
	OTHER BUILDINGS	162,502.60	1.99	3,234
	<i>TOTAL ACCOUNT 375.7</i>	<u>7,969,800.17</u>		<u>158,599</u>
	<i>TOTAL ACCOUNT 375</i>	9,838,614.09		195,228
376	MAINS			
	CAST IRON	222,637.37	1.57	3,495
	BARE STEEL	17,458,363.07	1.57	274,096
	COATED STEEL	62,001,629.58	1.57	973,426
	PLASTIC	118,726,602.05	1.57	1,864,008
	<i>TOTAL ACCOUNT 376</i>	198,409,232.07		3,115,025
378	MEASURING AND REGULATING STATION EQUIPMENT - GENERAL	9,992,551.53	2.35	234,825
379.1	MEASURING AND REGULATING STATION EQUIPMENT - CITY GATE	254,900.59	2.27	5,786
380	SERVICES	115,258,005.47	2.59	2,985,182
381	METERS	13,270,915.01	2.59	343,717
381.1	METERS - AMI	8,705,079.06	2.59	225,462
382	METER INSTALLATIONS	8,991,831.33	2.39	214,905
383	HOUSE REGULATORS	5,504,717.40	1.39	76,516
384	HOUSE REGULATOR INSTALLATIONS	2,257,522.00	1.10	24,833
385	INDUSTRIAL MEASURING AND REGULATING STATION EQUIPMENT	3,047,363.19	2.09	63,690
387.4	OTHER EQUIPMENT - CUSTOMER INFORMATION SERVICES	4,461,168.45	2.34	104,391
	<b>TOTAL DISTRIBUTION PLANT</b>	<b>383,319,781.40</b>		<b>7,632,210</b>
<b>GENERAL PLANT</b>				
	OFFICE FURNITURE AND EQUIPMENT			
391.1	FURNITURE	713,480.71	5.00	35,674
391.11	EQUIPMENT	18,815.57	6.67	1,255
391.12	INFORMATION SYSTEMS	668,137.98	20.00	133,628
	<i>TOTAL ACCOUNT 391</i>	1,400,434.26		170,557
392.2	TRANSPORTATION EQUIPMENT - TRAILERS	120,240.20	2.94	3,535
394	TOOLS, SHOP AND GARAGE EQUIPMENT	2,945,416.95	4.00	117,817
395	LABORATORY EQUIPMENT	9,257.77	5.00	463
396	POWER OPERATED EQUIPMENT	258,254.72	-	0
398	MISCELLANEOUS EQUIPMENT			
	FULLY ACCRUED	3,290.19	-	0
	AMORTIZED	87,786.75	6.67	5,855
	<i>TOTAL ACCOUNT 398</i>	<u>91,076.94</u>		<u>5,855</u>
	<b>TOTAL GENERAL PLANT</b>	<b>4,824,680.84</b>		<b>298,227</b>
	<b>TOTAL DEPRECIABLE PLANT</b>	<b>388,144,462.24</b>		<b>7,930,437</b>
<b>AMORTIZABLE PLANT</b>				
303	MISCELLANEOUS INTANGIBLE PLANT	5,340,619.47	*	767,437
375.71	STRUCTURES AND IMPROVEMENTS - LEASEHOLDS	259,808.94	*	58,686
378.21	MEASURING AND REGULATING STATION EQUIPMENT - FMV	(777,092.00)	**	(25,903)
	<b>TOTAL AMORTIZABLE PLANT</b>	<b>4,823,336.41</b>		<b>800,220</b>
	<b>TOTAL GAS PLANT</b>	<b>392,967,798.65</b>		<b>8,730,657</b>

COLUMBIA GAS OF KENTUCKY, INC.

CALCULATION OF PRO FORMA EXPENSE USING CURRENT ANNUAL ACCRUAL RATES  
RELATED TO GAS PLANT AS OF DECEMBER 31, 2015

<u>DEPRECIABLE GROUP</u> (1)	<u>ORIGINAL COST AS OF DECEMBER 31, 2015</u> (2)	<u>CURRENT ANNUAL ACCRUAL RATE</u> (3)	<u>PRO FORMA EXPENSE</u> (4)=(2)*(3)
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\* Expense calculated individually for each asset.

\*\* Expense calculated using 30 year amortization period.

**EXHIBIT \_\_\_\_ (LK-13)**

KY PSC Case No. 2016-00162  
Response to Attorney General's Data Request Set One No. 1  
Respondents: Jana Croom, Melissa Bell, Chad Notestone, Mark Balmert, Mark Katko,  
John Spanos, and Paul Moul

**COLUMBIA GAS OF KENTUCKY, INC.  
RESPONSE TO ATTORNEY GENERAL'S INITIAL  
REQUEST FOR INFORMATION  
DATED JULY 8, 2016**

1. Provide all schedules and workpapers, including all electronic spreadsheets in live format with all formulas intact. This includes, but is not limited to, all schedules and workpapers in support of Mr. Moul's testimony and exhibits and Mr. Spanos' testimony, exhibits, and depreciation study.

**Response:**

Please see the following attachments to this response:

- AG 1-1 Attachment A - Schedules A through K, filed in this docket as CKY\_R\_AGDR1\_NUM1\_Attachment\_A\_072216.
- AG 1-1 Attachment B – Workpapers supporting the ratemaking adjustments for Schedule D-2.4, filed in this docket as CKY\_R\_AGDR1\_NUM1\_Attachment\_B\_072216.
- AG 1-1 Attachment C – Depreciation Study - Depreciation Rates, filed in this docket as CKY\_R\_AGDR1\_NUM1\_Attachment\_C\_072216.
- AG 1-1 Attachment D – Depreciation Study - Life Analysis.

COLUMBIA GAS OF KENTUCKY, INC.

**TABLE 1. ESTIMATED SURVIVOR CURVES, NET SALVAGE, ORIGINAL COST, BOOK RESERVE AND CALCULATED ANNUAL DEPRECIATION ACCRUALS RELATED TO GAS PLANT AS OF DECEMBER 31, 2015**

DEPRECIABLE GROUP		SURVIVOR CURVE	NET SALVAGE	ORIGINAL COST AS OF DECEMBER 31, 2015	BOOK RESERVE	FUTURE BOOK ACCRUALS	CALCULATED ANNUAL ACCRUAL AMOUNT	CALCULATED ANNUAL ACCRUAL RATE (8)=(7)/(4)	COMPOSITE REMAINING LIFE (9)=(6)/(7)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
<b>DEPRECIABLE PLANT</b>									
<b>DISTRIBUTION PLANT</b>									
	LAND AND LAND RIGHTS								
374.4	LAND RIGHTS	70-R2	0	661,305.66	168,767	492,539	11,507	1.74	42.8
374.5	RIGHTS-OF-WAY	75-S4	0	2,666,575.55	901,108	1,765,468	34,398	1.29	51.3
	<b>TOTAL ACCOUNT 374</b>			<b>3,327,881.21</b>	<b>1,069,875</b>	<b>2,258,007</b>	<b>45,905</b>	<b>1.38</b>	
	STRUCTURES AND IMPROVEMENTS								
375.34	MEASURING AND REGULATING	52-R1.5	(20)	1,868,813.92	487,435	1,755,142	59,475	3.18	29.5
375.7	OTHER DISTRIBUTION SYSTEM STRUCTURES								
	DISTRIBUTION SYSTEM STRUCTURES	Square *	0	7,807,297.57	3,112,927	4,694,370	166,092	2.13	28.3
	OTHER BUILDINGS	37-S2	0	162,502.60	80,679	81,824	3,891	2.39	21.0
	<b>TOTAL ACCOUNT 375.7</b>			<b>7,969,800.17</b>	<b>3,193,606</b>	<b>4,776,194</b>	<b>169,983</b>	<b>2.13</b>	
	<b>TOTAL ACCOUNT 375</b>			<b>9,838,614.09</b>	<b>3,681,041</b>	<b>6,531,336</b>	<b>229,458</b>	<b>2.33</b>	
376	MAINS								
	CAST IRON	70-R1.5 *	(20)	222,637.37	176,826	90,339	5,305	2.38	17.0
	BARE STEEL	70-R1.5 *	(20)	17,458,363.07	13,500,531	7,449,505	425,249	2.44	17.5
	COATED STEEL	70-R1.5	(20)	62,001,629.58	17,588,017	56,813,938	1,348,670	2.18	42.1
	PLASTIC	70-R1.5	(20)	118,726,602.05	25,065,698	117,406,224	2,782,677	2.34	42.2
	<b>TOTAL ACCOUNT 376</b>			<b>198,409,232.07</b>	<b>56,331,072</b>	<b>181,760,006</b>	<b>4,561,901</b>	<b>2.30</b>	
378	MEASURING AND REGULATING STATION EQUIPMENT - GENERAL	41-S0	(15)	9,992,551.53	3,572,331	7,919,103	331,538	3.32	23.9
379.1	MEASURING AND REGULATING STATION EQUIPMENT - CITY GATE	40-R1.5	(15)	254,900.59	267,731	25,405	1,530	0.60	16.6
380	SERVICES	40-R1.5	(65)	115,258,005.47	57,280,572	132,895,137	5,882,086	5.10	22.6
381	METERS	37-R2	4	13,270,915.01	4,679,195	8,060,883	437,690	3.30	18.4
381.1	METERS - AMI	15-S2.5	0	8,705,079.06	335,815	8,369,264	702,040	8.06	11.9
382	METER INSTALLATIONS	42-S2	(5)	8,991,831.33	4,450,213	4,991,210	219,448	2.44	22.7
383	HOUSE REGULATORS	45-S1.5	(5)	5,504,717.40	1,447,854	4,332,099	150,511	2.73	28.8
384	HOUSE REGULATOR INSTALLATIONS	45-S1.5	0	2,257,522.00	1,744,500	513,022	22,741	1.01	22.6
385	INDUSTRIAL MEASURING AND REGULATING STATION EQUIPMENT	32-R0.5	(10)	3,047,363.19	855,577	2,496,523	154,798	5.08	16.1
387.4	OTHER EQUIPMENT - CUSTOMER INFORMATION SERVICES	33-R2.5	(5)	4,461,168.45	1,535,314	3,148,913	166,840	3.74	18.9
	<b>TOTAL DISTRIBUTION PLANT</b>			<b>383,319,781.40</b>	<b>137,251,090</b>	<b>363,300,908</b>	<b>12,906,486</b>	<b>3.37</b>	
<b>GENERAL PLANT</b>									
	OFFICE FURNITURE AND EQUIPMENT								
391.1	FURNITURE	20-SQ	0	713,480.71	182,802	530,679	35,683	5.00	14.9
391.11	EQUIPMENT	15-SQ	0	18,815.57	13,169	5,647	1,255	6.67	4.5
391.12	INFORMATION SYSTEMS	5-SQ	0	668,137.98	480,697	187,441	133,649	20.00	1.4
	<b>TOTAL ACCOUNT 391</b>			<b>1,400,434.26</b>	<b>676,668</b>	<b>723,767</b>	<b>170,587</b>	<b>12.18</b>	
392.2	TRANSPORTATION EQUIPMENT - TRAILERS	16-L4	10	120,240.20	24,303	83,913	10,996	9.15	7.6
394	TOOLS, SHOP AND GARAGE EQUIPMENT	25-SQ	0	2,945,416.95	1,195,493	1,749,924	117,696	4.00	14.9
395	LABORATORY EQUIPMENT	20-SQ	0	9,257.77	7,106	2,152	463	5.00	4.6
396	POWER OPERATED EQUIPMENT	18-S0.5	10	258,254.72	182,667	49,762	6,693	2.59	7.4

**COLUMBIA GAS OF KENTUCKY, INC.**

**TABLE 1. ESTIMATED SURVIVOR CURVES, NET SALVAGE, ORIGINAL COST, BOOK RESERVE AND CALCULATED ANNUAL DEPRECIATION ACCRUALS RELATED TO GAS PLANT AS OF DECEMBER 31, 2015**

<u>DEPRECIABLE GROUP</u>		<u>SURVIVOR CURVE</u>	<u>NET SALVAGE</u>	<u>ORIGINAL COST AS OF DECEMBER 31, 2015</u>	<u>BOOK RESERVE</u>	<u>FUTURE BOOK ACCRUALS</u>	<u>CALCULATED ANNUAL ACCRUAL AMOUNT</u>	<u>(8)=(7)/(4)</u>	<u>COMPOSITE REMAINING LIFE</u>	<u>(9)=(6)/(7)</u>
(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
398	MISCELLANEOUS EQUIPMENT									
	FULLY ACCRUED	FULLY ACCRUED		3,290.19	3,290	0	0	-	-	
	AMORTIZED	15-SQ	0	87,786.75	32,535	55,252	5,857	6.67	9.4	
	TOTAL ACCOUNT 398			91,076.94	35,825	55,252	5,857	6.43		
<b>TOTAL GENERAL PLANT</b>				<b>4,824,680.84</b>	<b>2,122,062</b>	<b>2,664,770</b>	<b>312,292</b>	<b>6.47</b>		
<b>TOTAL DEPRECIABLE PLANT</b>				<b>388,144,462.24</b>	<b>139,373,152</b>	<b>365,965,678</b>	<b>13,218,778</b>	<b>3.41</b>		
<b>UNRECOVERED RESERVE TO BE AMORTIZED</b>										
391.1	FURNITURE				(269,654)		89,885 **			
391.11	EQUIPMENT				(26,413)		8,804 **			
391.12	INFORMATION SYSTEMS				39,733		(13,244) **			
394	EQUIPMENT				58,023		(19,341) **			
395	LABORATORY EQUIPMENT				(44)		15 **			
398	MISCELLANEOUS EQUIPMENT				(16,625)		5,542 **			
<b>TOTAL UNRECOVERED RESERVE TO BE AMORTIZED</b>					<b>(214,980)</b>		<b>71,660</b>			
<b>AMORTIZABLE PLANT</b>										
303	MISCELLANEOUS INTANGIBLE PLANT			5,340,619.47	2,072,601	3,268,018	767,437		***	
375.71	STRUCTURES AND IMPROVEMENTS - LEASEHOLDS			259,808.94	145,132	114,677	58,686		***	
378.21	MEASURING AND REGULATING STATION EQUIPMENT - FMV			(777,092.00)		(777,092)	(25,903)		****	
<b>TOTAL AMORTIZABLE PLANT</b>				<b>4,823,336.41</b>	<b>2,217,733</b>	<b>2,605,603</b>	<b>800,220</b>			
<b>NONDEPRECIABLE AND NOT STUDIED PLANT</b>										
301	ORGANIZATION			521.20						
374.1	LAND			206.00						
374.2	LAND			877,756.18	(523)					
376.02	MAINS - ARO			814,307.71	267,592					
376.03	MAINS - ARO			124,320.94	10,384					
<b>TOTAL NONDEPRECIABLE PLANT</b>				<b>1,817,112.03</b>	<b>277,453</b>					
<b>TOTAL GAS PLANT</b>				<b>394,784,910.68</b>	<b>141,653,358</b>	<b>368,571,281</b>	<b>14,090,658</b>			

\* Indicates the use of an interim survivor curve. Each asset class has a probable retirement date.  
 \*\* 3-Year amortization of unrecovered reserve related to implementation of amortization accounting.  
 \*\*\* Accrual rate based on individual asset amortization.  
 \*\*\*\* Fair Market Value recovered over 30 years.



**EXHIBIT \_\_\_\_ (LK-14)**

**Columbia Gas of Kentucky, Inc.**  
**Attorney General Recommendations To Adjust Depreciation Expense and Related Rate Base**  
**To Reject Company's Switch from ASL to ELG Methodology**  
**KPSC Case No. 2016-00162**  
**Forecasted Test Year Ended December 31, 2017**  
**\$ Millions**

**Depreciation Expense****Adjustment 1**

Depreciation Expense as Filed by Company	15.940
Depreciation Expense to Reflect Change from ELG to ASL Methodology	12.381
Reduction in Depreciation Expense to Reflect Change from ELG to ASL Methodology	<u>(3.558)</u>

**Rate Base Changes - Reject Company's Switch from ASL to ELG**

Gross Plant 13 Month Avg as Filed	437.890
Gross Plant 13 Month Avg after Adjustment 1	<u>437.890</u>
Change in Gross Plant	-

A/D 13 Month Avg as Filed	(151.710)
A/D 13 Month Avg after Adjustment 1	<u>(149.952)</u>
Change in A/D	1.758

Composite Tax Rate	38.90%	
Change in ADIT		<u>(0.684)</u>

Total Change in Rate Base		<u>1.074</u>
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Grossed-Up Rate of Return	12.19%	
Total Change in Return on Rate Base		<u>0.131</u>

Reduction in Revenue Requirement		<u>(3.428)</u>
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**EXHIBIT \_\_\_\_ (LK-15)**

**Columbia Gas of Kentucky, Inc.**  
**Attorney General Recommendation to Reduce Property Tax Expenses**  
**KPSC Case No. 2016-00162**  
**Forecasted Test Year Ended December 31, 2017**  
**\$ Millions**

Sources: WPD-2.4H and Response to AG 1-7

As-Filed Estimated Assessed Value at December 31, 2016	300.859	
As-Filed Estimated Effective Property Tax Rate	<u>1.3110%</u>	
As-Filed Property Tax Expense Included in Test Year		3.944
As-Filed Estimated Assessed Value at December 31, 2016	300.859	
Adjust Estimated Assessed Value To Reduce for Additional Accum. Depreciation, Net of Retirements, during 2015 and 2016	<u>(9.000)</u>	
As-Filed Estimated Assessed Value at December 31, 2016	291.859	
Effective Property Tax Rate Based on Actual 2015 Effective Tax Rate	<u>1.2726%</u>	
As-Filed Property Tax Expense Included in Test Year		<u>3.714</u>
AG Recommended Reduction to Property Tax Expenses		<u><u>(0.230)</u></u>

**EXHIBIT \_\_\_\_ (LK-16)**

**Columbia Gas of Kentucky, Inc.**  
**Effects of Company's Adjustments to Include a Slippage Factor of 5.3%**  
**KPSC Case No. 2016-00162**  
**Forecasted Test Year Ended December 31, 2017**  
**\$ Millions**

**Depreciation Expense**

Depreciation Expense As Filed By Company	15.940
Depreciation Expense to Reflect Slippage Factor of 0%	15.875
Increase in Depreciation Expense to Reflect Slippage Factor of 0%	<u>0.064</u>

**Rate Base Changes**

Gross Plant 13 Month Avg As Filed By Company	437.890
Gross Plant 13 Month Avg to Reflect Slippage Factor of 0%	435.892
Change in Gross Plant	<u>1.998</u>

A/D 13 Month Avg As Filed By Company	(151.710)
A/D 13 Month Avg to Reflect Slippage Factor of 0%	(151.984)
Change in A/D	<u>0.273</u>

Composite Tax Rate	38.90%
Change in ADIT	<u>(0.106)</u>

Total Change in Rate Base - Slippage Factor of 0%	<u>2.165</u>
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Grossed-Up Rate of Return	12.19%
Total Change in Return on Rate Base	<u>0.264</u>

Revenue Requirement to Include Slippage Factor of 5.3%	<u>0.328</u>
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**EXHIBIT \_\_\_\_ (LK-17)**

**COLUMBIA GAS OF KENTUCKY, INC.**  
**RESPONSE TO STAFF'S SECOND REQUEST FOR INFORMATION**  
**DATED JULY 8, 2016**

4. Refer to the Miller Testimony, page 13, line 1, where Columbia's proposal to seek recognition and recovery in the forecasted test period of the positive 5.3 percent slippage factor which it experienced over the past ten years for capital expenditures is discussed. Also refer to the Direct Testimony of Eric T. Belle ("Belle Testimony") and the Direct Testimony of S. Mark Katko ("Katko Testimony").

a. Provide a breakdown of Columbia's budgeted and actual capital expenditures for the ten years mentioned in the Miller Testimony. Where applicable, separate the capital expenditures broken down by Accelerated Main Replacement Program ("AMRP") and non-AMRP capital investments.

b. Explain what steps Columbia has taken to mitigate the positive slippage factor over this ten-year period.

c. Explain why Columbia believes that using the prior ten years' positive slippage factor is a better indicator of capital investment than its own internal planning processes.



d. For the three most recent historical fiscal years, 2013, 2014, and 2015, provide side-by-side monthly comparisons of budgeted additions to gross plant and actual additions to gross plant broken down by AMRP and non-AMRP capital expenditures.

e. For the available months of fiscal year 2016, provide a side-by-side monthly comparison of budgeted and actual additions to gross plant broken down by AMRP and non-AMRP capital investments. This should be considered an ongoing request to be updated monthly.

f. The forecasted test year in Columbia's most recent general rate case, Case No. 2013-00167, was the 12 months ended December 31, 2014. The 13-month average of total utility plant included in the net investment rate base filed by Columbia in that proceeding was \$356,161,789. Provide Columbia's actual 13-month average of total utility plant for that period. Include the actual monthly amounts and the calculation of the 13-month average balance in the response.

**Response:**

- a. Please see Staff 2-4 Attachment A.
- b. Columbia's Capital Planning Group develops a tactical plan that identifies the number of crews required to meet the budgeted spend and conducts quarterly meetings to discuss potential revisions to that plan based on actual costs.

Monthly progress on the plan is reported by Financial Planning and monitored by several groups including Capital Planning and Engineering. Engineering conducts a monthly grass roots budget review of each individual job order and blanket job type that comprise the five budget categories and considers project deferrals or additions based on the most current cost projections. Additionally, Engineering may make recommendations to move dollars from one budget category to another based on actual and projected expenditures and required project completion dates. These actions are intended to meet Columbia's budget by year end.

- c. Columbia has relied on Commission precedent to recognize both positive and negative slippage. *See, In the Matter of: Application of Kentucky American Water Company for an Adjustment of Rates Supported by a Fully Forecasted Test Year, Case No. 2012-00520, 2013 Ky. PUC LEXIS 936, Order (October 25, 2013).* Columbia believes that disciplined capital planning and execution are optimal goals. However, year-to-year adjustments due to differences in weather, unexpected construction costs, permitting and scheduling demands of state and municipal officials, and the like, can result in investment changes that are not on a predictable projection.
- d. Please see Staff 2-4 Attachment B.
- e. Please see Staff 2-4 Attachment C.

f. Please see Staff 2-4 Attachment D.

Columbia Gas of Kentucky, Inc.  
Capital Expenditures  
2006 - 2015 Budget v. Actual  
(\$000)

Year	Budget			Actual			Increase (Decrease)			Increase (Decrease) %		
	Non-AMRP	AMRP	Total	Non-AMRP	AMRP	Total	Non-AMRP	AMRP	Total	Non-AMRP	AMRP	Total
2006	9,000	-	9,000	8,159	-	8,159	(841)	-	(841)	-9.3%	N/A	-9.3%
2007	12,403	-	12,403	9,494	-	9,494	(2,909)	-	(2,909)	-23.5%	N/A	-23.5%
2008	9,571	5,140	14,711	8,891	4,690	13,581	(680)	(450)	(1,130)	-7.1%	-8.8%	-7.7%
2009	5,756	7,100	12,856	3,858	9,140	12,998	(1,898)	2,040	142	-33.0%	28.7%	1.1%
2010	5,254	5,000	10,254	5,301	4,824	10,125	47	(176)	(129)	0.9%	-3.5%	-1.3%
2011	4,809	7,350	12,159	5,129	9,219	14,348	320	1,869	2,189	6.7%	25.4%	18.0%
2012	5,530	9,120	14,650	7,546	11,358	18,904	2,016	2,238	4,254	36.5%	24.5%	29.0%
2013	9,135	12,200	21,335	8,849	15,898	24,747	(286)	3,698	3,412	-3.1%	30.3%	16.0%
2014	17,558	12,200	29,758	16,984	15,206	32,190	(574)	3,006	2,432	-3.3%	24.6%	8.2%
2015	15,905	14,200	30,105	14,359	17,255	31,614	(1,546)	3,055	1,509	-9.7%	21.5%	5.0%
Cumulative Total	94,921	72,310	167,231	88,570	87,590	176,160	(6,351)	15,280	8,929	-6.7%	21.1%	5.3%

Columbia Gas of Kentucky, Inc.  
Capital Expenditures  
2013 - 2015 Budget v. Actual by Month  
(\$000)

	2013								
	AMRP			Non-AMRP			Total		
	Budget	Actual	Inc (Dec)	Budget	Actual	Inc (Dec)	Budget	Actual	Inc (Dec)
January	675	455	(220)	790	(86)	(876)	1,465	369	(1,096)
February	593	656	63	950	485	(465)	1,543	1,141	(402)
March	685	1,084	399	934	934	(0)	1,619	2,017	399
April	1,184	910	(274)	735	787	52	1,919	1,697	(222)
May	1,255	1,053	(202)	879	610	(269)	2,134	1,663	(471)
June	1,224	906	(318)	779	605	(174)	2,003	1,511	(492)
July	1,431	1,716	286	627	152	(475)	2,058	1,868	(190)
August	1,215	2,375	1,159	625	843	218	1,840	3,218	1,378
September	981	1,927	946	739	850	111	1,720	2,777	1,057
October	1,010	2,925	1,915	680	1,253	573	1,690	4,178	2,488
November	1,001	1,743	743	499	1,181	682	1,500	2,925	1,425
December	946	149	(797)	898	1,234	336	1,844	1,384	(461)
Total	12,200	15,898	3,698	9,135	8,849	(286)	21,335	24,747	3,412

	2014								
	AMRP			Non-AMRP			Total		
	Budget	Actual	Inc (Dec)	Budget	Actual	Inc (Dec)	Budget	Actual	Inc (Dec)
January	1,033	529	(503)	555	686	131	1,588	1,215	(373)
February	951	791	(160)	542	506	(37)	1,494	1,297	(196)
March	1,043	1,282	240	3,448	1,293	(2,155)	4,491	2,576	(1,915)
April	1,112	1,273	160	1,103	2,030	927	2,215	3,303	1,088
May	926	1,717	792	1,718	1,910	193	2,643	3,628	984
June	1,152	1,924	772	1,813	2,286	473	2,965	4,210	1,246
July	1,015	1,718	703	1,965	1,537	(429)	2,980	3,255	275
August	886	1,977	1,091	1,940	1,152	(788)	2,826	3,129	303
September	910	2,456	1,546	1,783	1,886	103	2,693	4,341	1,649
October	939	1,896	958	1,547	1,430	(117)	2,486	3,327	841
November	929	585	(344)	819	1,163	343	1,748	1,748	(1)
December	1,305	(945)	(2,249)	324	1,105	782	1,629	161	(1,468)
Total	12,200	15,206	3,006	17,558	16,984	(574)	29,758	32,190	2,432

	2015								
	AMRP			Non-AMRP			Total		
	Budget	Actual	Inc (Dec)	Budget	Actual	Inc (Dec)	Budget	Actual	Inc (Dec)
January	542	479	(63)	757	434	(324)	1,300	913	(387)
February	686	728	43	772	777	6	1,457	1,505	48
March	1,257	693	(564)	1,192	655	(537)	2,449	1,348	(1,101)
April	1,417	1,219	(198)	1,185	883	(302)	2,603	2,103	(500)
May	1,342	1,769	427	1,722	1,048	(674)	3,064	2,817	(247)
June	1,574	1,263	(311)	1,466	1,828	362	3,040	3,091	51
July	1,349	1,667	318	1,896	1,303	(593)	3,245	2,970	(275)
August	1,528	1,785	257	1,659	1,091	(568)	3,187	2,876	(311)
September	1,572	2,049	476	1,541	1,410	(130)	3,113	3,459	346
October	1,451	1,747	296	1,474	1,131	(344)	2,926	2,877	(48)
November	971	2,371	1,400	1,420	1,996	577	2,391	4,368	1,977
December	510	1,484	974	821	1,803	982	1,331	3,287	1,956
Total	14,200	17,255	3,055	15,905	14,359	(1,546)	30,105	31,614	1,509

Columbia Gas of Kentucky, Inc.  
 Capital Expenditures  
 2016 Budget v. Actual by Month  
 (\$000)

	2016								
	AMRP			Non-AMRP			Total		
	Budget	Actual	Inc (Dec)	Budget	Actual	Inc (Dec)	Budget	Actual	Inc (Dec)
January	588	994	406	453	975	522	1,041	1,968	928
February	300	908	608	826	1,132	306	1,126	2,040	914
March	350	1,367	1,017	1,128	1,556	428	1,478	2,922	1,445
April	550	2,374	1,824	1,175	1,821	645	1,725	4,194	2,469
May	950	2,039	1,089	990	1,295	305	1,940	3,334	1,394
June	1,300	2,183	883	1,521	726	(795)	2,821	2,909	88
Total Year-to-Date	4,038	9,864	5,826	6,094	7,504	1,410	10,132	17,369	7,236

**COLUMBIA GAS OF KENTUCKY, INC.**  
**PLANT IN SERVICE BY GAS PLANT ACCOUNT**  
**ACTUAL PERIOD 12/31/2013 to 12/31/2014**

Line No.	Account No.	12/31/2013	1/31/2014	2/28/2014	3/31/2014	4/30/2014	5/31/2014	6/30/2014	7/31/2014	8/31/2014	9/30/2014	10/31/2014	11/30/2014	12/31/2014	13 MONTH AVERAGE
		\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
1	<b>Intangible Plant, Gas</b>	<b>2,935,063</b>	<b>2,963,558</b>	<b>2,987,346</b>	<b>3,010,402</b>	<b>4,821,109</b>	<b>4,847,585</b>	<b>4,902,300</b>	<b>4,537,704</b>	<b>4,576,431</b>	<b>4,599,493</b>	<b>4,621,392</b>	<b>4,592,484</b>	<b>4,671,567</b>	<b>4,158,956</b>
2	301.00	521	521	521	521	521	521	521	521	521	521	521	521	521	521
3	303.00	74,348	74,348	74,348	74,348	74,348	74,348	74,348	74,348	74,348	74,348	74,348	74,348	74,348	74,348
4	303.10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	303.20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	303.30	2,860,194	2,888,690	2,912,477	2,935,533	4,746,240	4,772,717	4,827,431	4,462,835	4,501,562	4,524,624	4,546,524	4,517,615	4,596,698	4,084,088
7	<b>Distribution Plant, Gas</b>	<b>327,919,377</b>	<b>328,757,300</b>	<b>329,499,750</b>	<b>330,745,326</b>	<b>335,162,064</b>	<b>337,080,178</b>	<b>339,529,585</b>	<b>340,582,952</b>	<b>342,481,436</b>	<b>344,454,149</b>	<b>347,326,595</b>	<b>352,117,346</b>	<b>354,917,088</b>	<b>339,274,857</b>
8	374.10	206	206	206	206	206	206	206	206	206	206	206	206	206	206
9	374.20	878,505	878,505	878,505	878,505	878,505	878,505	878,505	878,402	878,402	878,402	878,402	878,402	878,402	878,449
10	374.40	644,620	644,620	644,620	644,620	644,620	644,620	644,620	644,342	644,342	644,342	644,342	644,342	644,342	648,174
11	374.50	2,666,572	2,666,572	2,666,572	2,666,572	2,666,572	2,666,572	2,666,572	2,666,572	2,666,572	2,666,572	2,666,572	2,666,572	2,666,572	2,666,572
12	375.20	2,125	2,125	2,125	2,125	2,125	2,125	2,125	2,125	2,125	2,125	2,125	2,125	2,125	2,125
13	375.30	10,848	10,848	10,848	10,848	10,848	10,848	10,848	10,848	10,848	10,848	10,848	10,848	10,848	10,848
14	375.40	1,226,493	1,219,295	1,220,272	1,223,325	1,224,487	1,224,487	1,221,746	1,221,746	1,249,519	1,244,895	1,244,895	1,247,072	1,246,874	1,231,931
15	375.60	88,210	88,210	88,210	88,210	88,210	88,210	88,210	88,210	88,210	88,210	88,210	88,210	88,210	88,210
16	375.70	7,271,205	7,460,615	7,460,615	7,460,615	7,460,615	7,460,615	7,460,615	7,460,615	7,460,615	7,460,615	7,359,806	7,359,806	7,359,806	7,422,781
17	375.71	156,050	156,050	156,050	156,050	156,050	156,050	156,050	156,050	156,050	156,050	256,845	256,845	256,845	179,310
18	375.80	33,261	33,261	33,261	33,261	33,261	33,261	33,261	33,261	33,261	33,261	33,261	33,261	33,261	33,261
19	376.00	172,290,053	172,655,802	172,704,927	173,229,735	175,367,796	176,543,264	177,834,883	178,488,258	178,921,680	179,978,133	180,939,736	185,034,573	183,904,139	177,530,229
20	378.10	247,320	247,320	247,320	247,320	247,320	247,320	247,320	247,320	247,320	247,320	240,322	240,322	240,322	245,705
21	378.20	5,145,802	5,202,951	5,537,550	5,536,605	5,590,407	5,606,986	5,584,021	5,597,339	5,654,755	5,667,179	5,748,315	5,722,263	5,881,368	5,575,042
22	378.30	45,443	45,443	45,443	45,443	45,443	45,443	45,443	45,443	45,443	45,443	45,443	45,443	45,443	45,443
23	379.10	254,901	254,901	254,901	254,901	254,901	254,901	254,901	254,901	254,901	254,901	254,901	254,901	254,901	254,901
24	380.00	101,350,003	101,550,810	101,695,817	102,306,896	102,828,659	103,338,620	104,158,918	104,576,597	105,696,978	106,503,611	107,386,711	107,886,198	108,042,402	104,409,401
25	381.00	12,378,038	12,374,327	12,397,420	12,518,634	12,560,671	12,579,909	12,597,258	12,577,058	12,634,543	12,630,528	12,606,772	12,619,303	12,620,683	12,545,780
26	381.10	1,057,236	1,057,236	1,057,236	1,057,236	2,692,554	2,888,362	3,211,809	3,142,440	3,156,463	3,208,042	4,117,785	4,193,699	7,758,802	2,969,146
27	382.00	8,372,512	8,380,074	8,390,137	8,393,913	8,396,099	8,396,862	8,399,269	8,403,938	8,415,639	8,444,488	8,473,153	8,500,497	8,514,077	8,421,589
28	383.00	5,121,129	5,148,274	5,166,624	5,172,842	5,182,057	5,192,212	5,202,382	5,212,666	5,224,921	5,239,225	5,262,421	5,298,410	5,311,104	5,210,336
29	384.00	2,282,264	2,282,264	2,282,264	2,282,264	2,282,264	2,282,264	2,282,264	2,282,264	2,282,264	2,282,264	2,282,264	2,282,264	2,282,264	2,282,264
30	385.00	2,919,762	2,920,619	2,918,929	2,911,095	2,924,389	2,914,640	2,924,635	2,968,245	2,981,621	2,992,733	2,992,151	2,991,199	2,955,907	2,947,379
31	387.20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	387.41	711,152	711,152	711,152	711,152	711,152	711,152	711,152	711,152	711,152	711,152	711,152	711,152	711,152	711,152
33	387.42	773,834	773,834	773,834	773,834	773,834	773,834	773,834	773,834	773,834	773,834	773,834	773,834	772,914	773,763
34	387.44	165,500	165,500	165,500	165,500	165,500	165,500	165,500	165,500	165,500	165,500	165,500	165,500	165,500	165,500
35	387.45	1,712,691	1,712,842	1,875,768	1,859,876	1,859,876	1,859,767	1,859,976	1,859,976	2,010,627	2,010,627	2,010,933	2,080,408	2,138,929	1,911,715
36	387.46	113,644	113,644	113,644	113,644	113,644	113,644	113,644	113,644	113,644	113,644	113,644	113,644	113,644	113,644
37	<b>General Plant, Gas</b>	<b>5,201,381</b>	<b>5,208,597</b>	<b>5,208,770</b>	<b>5,283,751</b>	<b>5,334,139</b>	<b>5,344,013</b>	<b>5,373,568</b>	<b>5,361,296</b>	<b>5,361,530</b>	<b>5,367,061</b>	<b>4,490,594</b>	<b>4,438,688</b>	<b>4,433,692</b>	<b>5,108,237</b>
38	391.10	1,124,078	1,124,078	1,124,078	1,122,277	1,122,277	1,122,064	1,119,099	1,115,163	1,113,483	1,113,483	245,438	245,206	224,371	916,546
39	391.11	18,816	18,816	18,816	18,816	18,816	18,816	18,816	18,816	18,816	18,816	18,816	18,816	18,816	18,816
40	391.12	607,839	607,839	607,839	604,764	604,764	604,764	604,764	604,764	604,764	604,764	604,764	604,764	609,140	605,810
41	392.20	99,946	99,946	99,946	99,946	99,946	99,946	99,946	99,946	99,946	99,946	99,946	99,946	95,778	99,625
42	392.21	24,462	24,462	24,462	24,462	24,462	24,462	24,462	24,462	24,462	24,462	24,462	24,462	24,462	24,462
43	393.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	394.10	24,241	24,241	24,241	24,241	24,241	24,241	24,241	24,241	24,241	24,241	24,241	24,241	24,241	24,241
45	394.11	335,308	335,308	335,308	335,308	335,308	335,308	335,308	335,308	335,308	335,308	335,308	335,308	335,308	335,308
46	394.20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	394.30	2,576,213	2,583,429	2,583,602	2,675,049	2,725,437	2,735,524	2,768,044	2,759,707	2,761,622	2,761,019	2,760,300	2,708,626	2,724,256	2,701,756
48	395.00	9,258	9,258	9,258	9,258	9,258	9,258	9,258	9,258	9,258	9,258	9,258	9,258	9,258	9,258
49	396.00	258,255	258,255	258,255	258,255	258,255	258,255	258,255	258,255	258,255	258,255	258,255	258,255	258,255	258,255
50	398.00	122,966	122,966	122,966	111,376	111,376	111,376	111,376	111,376	111,376	117,510	109,807	109,807	109,807	114,161
51	<b>Grand Total</b>	<b>336,055,821</b>	<b>336,929,455</b>	<b>337,695,866</b>	<b>339,039,478</b>	<b>345,317,312</b>	<b>347,271,777</b>	<b>349,805,463</b>	<b>350,481,951</b>	<b>352,419,396</b>	<b>354,420,703</b>	<b>356,438,581</b>	<b>361,148,518</b>	<b>364,022,347</b>	<b>348,542,051</b>

**EXHIBIT \_\_\_\_ (LK-18)**



**Columbia Gas of Kentucky, Inc.**  
**Attorney General Recommendations To Adjust Depreciation Expense and Related Rate Base**  
**To Adjust Slippage Factor**  
**KPSC Case No. 2016-00162**  
**Forecasted Test Year Ended December 31, 2017**  
**\$ Millions**

**Depreciation Expense**  
**Adjustment 2**

Depreciation Expense After Adjustment 1 - ELG to ASL	12.381
Depreciation Expense to Reflect Slippage Factor of -6.70%	12.270
Reduction in Depreciation Expense to Reflect Slippage Factor of -6.70%	<u>(0.111)</u>

**Rate Base Changes - Adjustment 2**

Gross Plant 13 Month Avg after Adjustment 1 - ELG to ASL	437.890
Gross Plant 13 Month Avg after Adjustment 2 - Adjust Slippage Factor	<u>433.367</u>
Change in Gross Plant	(4.523)

A/D 13 Month Avg after Adjustment 1 - ELG to ASL	(149.952)
A/D 13 Month Avg after Adjustment 2 - Adjust Slippage Factor	<u>(150.586)</u>
Change in A/D	(0.633)

Composite Tax Rate	38.90%	
Change in ADIT		<u>0.246</u>

Total Change in Rate Base - Adjustment 2 - Adjust Slippage Factor		<u>(4.910)</u>
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Grossed-Up Rate of Return	12.19%	
Total Change in Return on Rate Base		<u>(0.599)</u>

Reduction in Revenue Requirement		<u>(0.710)</u>
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**EXHIBIT \_\_\_\_ (LK-19)**

**Columbia Gas of Kentucky, Inc.**  
**Attorney General Recommendations To Adjust Depreciation Expense and Related Rate Base**  
**To Remove Capital Initiatives Included in the Test Year**  
**KPSC Case No. 2016-00162**  
**Forecasted Test Year Ended December 31, 2017**  
**\$ Millions**

**Depreciation Expense  
Adjustment 3**

Depreciation Expense After Adjustment 2 - Adjust Slippage		12.270
Gross Plant After Adjustment 2	433.367	
13 month Avg Depr Rate	2.83%	
Reduction in Gross Plant - Capital Initiatives	<u>(3.819)</u>	
Reduction in Depreciation Expense to Reflect Removal of Capital Initiatives		<u>(0.108)</u>

**Rate Base Changes - Adjustment 3**

Change in Gross Plant - Remove Capital Initiatives		(3.819)
Change in A/D		0.134
Composite Tax Rate	38.90%	
Change in ADIT		<u>(0.052)</u>
Total Change in Rate Base - Adjustment 3		<u>(3.737)</u>
Grossed-Up Rate of Return	12.19%	
Total Change in Return on Rate Base		<u>(0.456)</u>
Reduction in Revenue Requirement		<u>(0.564)</u>

Capital Initiatives Not Budgeted	2016	2017	Test Year Adds 2017
Age and Condition	0.900	2.000	1.900
New Training Facility		1.882	0.941
Global Positioning System ("GPS")		1.326	0.663
Mobile Data Terminals ("MDT")		0.630	<u>0.315</u>
Total Test Year Adds for Capital Initiatives			<u>3.819</u>

**EXHIBIT \_\_\_\_ (LK-20)**

**COLUMBIA GAS OF KENTUCKY, INC.  
RESPONSE TO ATTORNEY GENERAL'S INITIAL  
REQUEST FOR INFORMATION  
DATED JULY 8, 2016**

4. Refer to page 15, lines 1-4 of Mr. Belle's Direct Testimony wherein he states: "However, given the safety concerns that arise when this pipe is subjected to stress intensification, the safest course of action is for Columbia to replace first-generation pipe when it is encountered within the scope of an AMRP project."

a. Provide an expanded description of the process presently used by the Company to identify the first-generation pipe that is leaking or otherwise subject to safety concerns and how the process will change if replacement costs are included in the AMRP and recovered through the rider.

b. Describe how the Company presently recovers the replacement costs for first-generation pipe and explain, in detail, why the Company believes that form of recovery is inadequate.

**Response:**

a. Columbia does not identify small sections of first generation pipe that are included within the scope of a larger bare steel or cast iron replacement

project. However, when any leak is found on such pipe outside of an AMRP project, personnel trained in leak classification and response will conduct an investigation into the severity of the leak and classify it as Grade 1, 2+, 2, or 3 depending on whether the leak is hazardous or non-hazardous, the susceptibility for gas migration and the timeliness of the required repair. In such cases, the pipe is not identified as a first generation material until excavation occurs for the leak repair. Columbia's *DPI/FFR Field Reference Guide*<sup>1</sup> requires the responsible personnel to identify the color of the pipe which can then be used to identify whether it consists of first generation materials. Any evidence of cracking precludes repair and requires replacement. However, the data associated with an authorized repair on first generation materials would be imported into Columbia's Optimain program where the relative risk of the pipe segment would be calculated and prioritized with other pipeline segments for consideration as a future AMRP project.

The only element of the process that would change would be that Columbia would code the associated job order as eligible for the AMRP rider.

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<sup>1</sup> This guide is included in its entirety in AG 1-4 Attachment A.

b. Currently, replacement of small individual segments of Aldyl-A pipe 50 feet or less are considered an O&M expense and may be recovered in a future rate case depending on timing. Currently, replacement of such sections greater than 50 feet are capitalized, but not currently included in Columbia's AMRP rider. Those costs would be recovered in a future rate case as well. Columbia's request to include the replacement of first generation plastic as part of the AMRP rider is due to its susceptibility of future leaks or safety related concerns. Should the first generation plastic in Columbia's system begin to leak or exhibit safety related concerns in an accelerated fashion, Columbia would like to be positioned to accelerate the replacement and recovery of this pipe similar to its priority pipe.

**EXHIBIT \_\_\_\_ (LK-21)**



KY PSC Case No. 2016-00162  
Response to Attorney General's Supplemental Data Request Set Two No. 6  
Respondents: Eric Belle, Matt Ruth and Mark Katko

**COLUMBIA GAS OF KENTUCKY, INC.  
RESPONSE TO ATTORNEY GENERAL'S SUPPLEMENTAL  
REQUEST FOR INFORMATION  
DATED AUGUST 5, 2016**

6. Provide the capital expenditures and plant additions for new meters in each calendar year 2012 through 2015, the base year, and the test year separated into new service meter installations and replacement meter installations.

**Response:**

Please see AG 2-6 Attachment A.

**Summary of CKY Meters and Meter Installations**

	Calendar Year	Calendar Year	Calendar Year	Calendar Year	Base Period	Forecasted Test Period
	2012	2013	2014	2015	September 2015 - August 2016	January - December 2017
<b>Capital Expenditures (107 CWIP)</b>						
Meters - 567	451,072	435,558	487,737	525,676	431,515	599,000
New Service Meter Installations -569	94,874	77,281	105,718	193,952	195,929	212,000
Replacement Meter Installations - 579	66,183	63,297	109,828	128,669	123,012	182,000
	<u>612,129</u>	<u>576,136</u>	<u>703,283</u>	<u>848,297</u>	<u>750,456</u>	<u>993,000</u>
<b>Plant Additions (101/106)</b>						
Meters - 567 (GPA 381)	457,516	417,035	456,087	509,424	509,076	599,000
New Service Meter Installations -569 (GPA 382)	76,871	79,692	62,538	360,489	477,758	212,000
Replacement Meter Installations - 579 (GPA 382)	103,060	85,185	104,095	146,906	92,305	182,000
	<u>637,447</u>	<u>581,912</u>	<u>622,719</u>	<u>1,016,818</u>	<u>1,079,140</u>	<u>993,000</u>