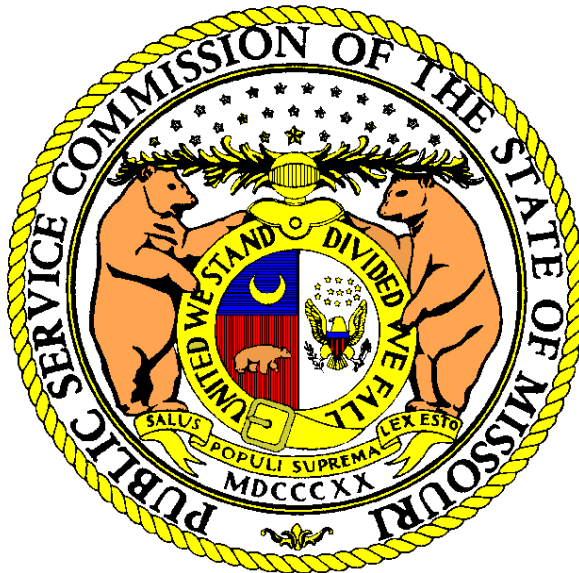


MISSOURI PUBLIC SERVICE COMMISSION

STAFF REPORT COST OF SERVICE



**LIBERTY UTILITIES (MIDSTATES NATURAL GAS) CORP.,
d/b/a LIBERTY UTILITIES**

CASE NO. GR-2018-0013

*Jefferson City, Missouri
March 2, 2018*

**** Denotes Confidential Information ****

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 LIBERTY UTILITIES (MIDSTATES NATURAL GAS) CORP.,
 d/b/a LIBERTY UTILITIES
 CASE No. GR-2018-0013**

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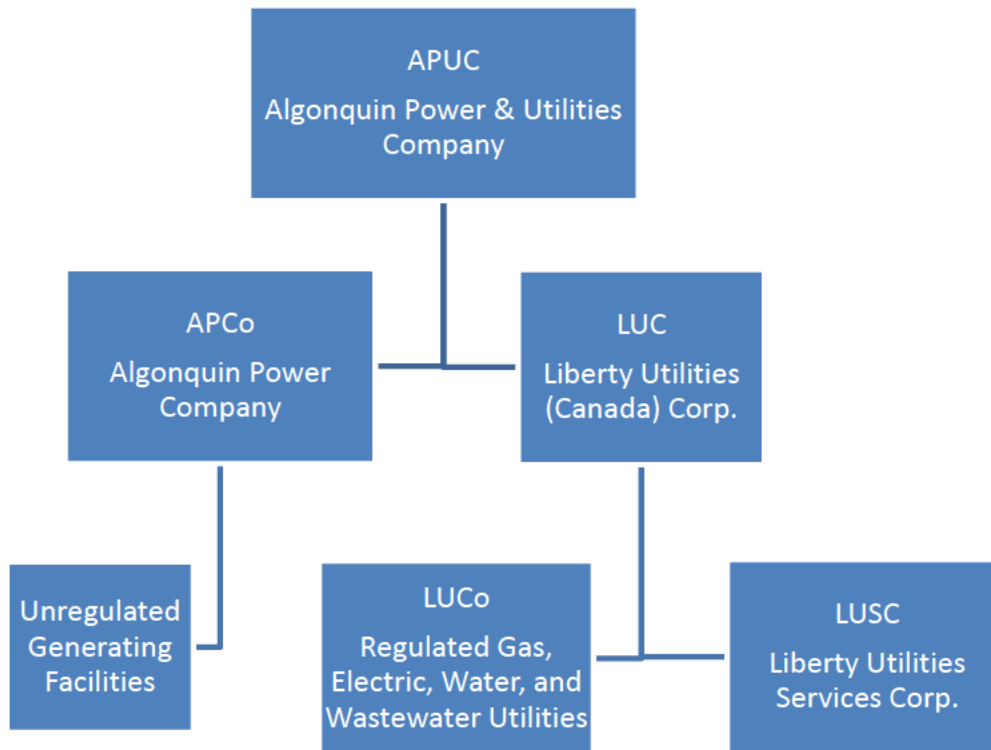
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1 service Company that has been recently formed. Below is a simplified organizational chart
2 illustrating the current structure of APUC and its affiliated companies.

3



4

5

6 The Missouri gas operations are part of Liberty Midstates, whose main office is in Joplin,
7 Missouri. The Missouri gas operations of Liberty Midstates provide gas service to approximately
8 55,000 customers, spread throughout three separate rate districts in Northeast (“NEMO”),
9 Southeast (“SEMO”), and Western (“WEMO”) Missouri. Staff will present three separate sets
10 of accounting schedules and revenue requirements for each of these districts as well as a total
11 Missouri set. Liberty Utilities’ Missouri Operations (Liberty Midstates – MO) receive a variety
12 of corporate, administrative and support services from its affiliates and parent corporation, for
13 which the costs are charged to Missouri operations. This process is discussed more fully in the
14 allocation section of this report.

1 In an effort to identify the various operating divisions of Liberty Midstates and reduce the
2 potential for confusion, Staff, in its Direct filing, will refer to the operating units as follows:

3 Algonquin Power and Utilities Corp – “APUC”

4 Liberty Utilities Service Corp – “LUSC”

5 Liberty Utilities (Canada) Corp. – “LUC”

6 Liberty Utilities Co. – “LUCo”

7 Liberty Utilities (Midstates Natural Gas) Corp. – “Liberty Midstates”

8 Liberty Utilities (Missouri Water) LLC – “Liberty Utilities”

9 Liberty Midstates (Missouri only) – “Liberty Midstates – MO”

10 Liberty Midstates - MO Northeast Operations - “NEMO”

11 Liberty Midstates - MO Southeast Operations - “SEMO”

12 Liberty Midstates - MO Western operations - “WEMO”

13 ***III. Test Year/True-Up Period***

14 A test year update period reflects any material, known and measurable changes to
15 Staff’s case at a future date near the conclusion of Staff’s audit. In contrast, true-ups are
16 updates of major elements of a utility’s revenue requirement beyond the end of an ordered test
17 year and update period. True-ups are not required for every rate proceeding, and typically are
18 only ordered when it can be demonstrated that material changes to the revenue requirement will
19 likely occur after the end of the ordered update period within a period close enough to the
20 operation-of-law date in the case to allow for a review and verification of these known changes.

21 The ordered test year for this case is the twelve months ending June 30, 2017. The test
22 year update period ordered for this case is the six months ending December 31, 2017. Staff also
23 recommends at this time that a true-up audit be performed through March 31, 2018, to address all
24 significant known and measurable changes that occur with regard to Liberty Midstates’ known
25 and measurable revenues, rate base and expense items.

26 *Staff Witness/Expert: Michelle A. Bocklage*

1 **IV. Staff's Revenue Requirement Recommendation**

2 Staff recommends increases an increase of \$ 1,292,380 to Liberty Midstates - MO's base
3 rates, and that the Company's ISRS be reset to zero. Staff recommends a return on equity (ROE)
4 of 10.0%, which is the high-end of Staff's recommended ROE range of 9.5% to 10.0%. Staff's
5 recommended increase by rate district is summarized below:

6

| | |
|------|-----------|
| NEMO | \$474,990 |
| SEMO | \$635,395 |
| WEMO | \$181,995 |

7
8

9 *Staff Witness/Expert: Michelle A. Bocklage*

10 **V. Surveillance Reporting**

11 Presently Liberty Midstates - MO does not provide Staff with surveillance information.
12 As part of this rate case, Staff requests that Liberty Midstates - MO provide surveillance and
13 actual earnings information related to their natural gas operations. Staff has had discussions with
14 Company personnel regarding their allocations methodology and how requested surveillance
15 information will help Staff monitor the level of allocations that Missouri is receiving. In the
16 event that Staff cannot reach an agreement with Liberty Midstates - MO regarding the proposed
17 surveillance reporting, Staff requests that the Commission order Liberty Midstates - MO to
18 provide reporting information on a quarterly basis. Staff requests that the provision of
19 surveillance information begin for the first quarter of January 1, 2019.

20 Specifically, Staff requests that Liberty Midstates - MO provide a complete Midstates
21 level and Corporate (8850) level general ledger, and complete subledgers, as well as all
22 allocations "billing" reports with all supporting transactional detail, consistent with FERC USOA
23 requirements, that includes all income statement and balance sheet transactions by month by
24 FERC account; including all transactions occurring between Liberty Midstates' divisions and all
25 other affiliated entities, both regulated and unregulated. In addition, Staff also requests that
26 Liberty Midstates - MO provide an actual earned return on equity report, similar to the Fuel
27 Adjustment Clause (FAC) quarterly surveillance reporting that is currently required of electric
28 utilities pursuant to 4 CSR 240-3.161(6). Staff is seeking a report that is consistent with actual
29 earned ROE reporting that is provided on a quarterly basis by Union Electric Company,

1 d/b/a Ameren Missouri. This information would greatly assist Staff with monitoring actual
2 earned ROE in between Liberty Midstates - MO's rate cases and allow Staff to better inform the
3 Commission in certain circumstances where Liberty Midstates - MO's earnings may need to be
4 reviewed in more detail. Given that Liberty Midstates - MO typically has filed rate cases in
5 intervals that are three years or longer, and in light of the recent acquisition of Empire and
6 continued future acquisition activity, the surveillance data will assist Staff in monitoring Liberty
7 Midstates - MO's earnings during these intervals. In addition, this would reduce the burden of
8 providing many years of this data in the context of a rate case. Staff will endeavor to work with
9 Liberty Midstates - MO to explain exactly the surveillance information being requested.

10 *Staff Witness/Expert: Lisa M. Ferguson*

11 **VI. Rate of Return (ROE, Cost of Capital, Capital Structure)**

12 **A. Staff's Positions**

13 **1. Return on Equity (ROE)**

14 Based on my rate-of-return analyses and consideration of the Commission's recent
15 decision in the Spire Missouri Inc. rate cases, I recommend that the Commission set the
16 Company's return on equity ("ROE") at 10% (based on a range of 9.5% to 10%), resulting in an
17 overall rate of return ("ROR") of 6.76% (range of 6.56% to 6.76%). My recommended ROE
18 provides the Company with a fair and reasonable opportunity to earn at least its cost of common
19 equity ("COE") in view of the fact that my analyses show that the COE for gas utilities is most
20 likely in the range of 6% to 7%.

21 **2. Capital Structure**

22 I also recommend that the Commission use LUCo's adjusted actual capital structure of
23 40.43% equity and 59.57% debt for purposes of setting Liberty Midstates' allowed ROR because
24 this capital structure is that which is used to finance LUCo's United States' regulated utility
25 assets, including that of Liberty Midstates.¹ Staff considered several other different capital
26 structures, which I will discuss in much more detail in my Detailed Direct Testimony attached as
27 Appendix 2 to this Report.

¹ Calculated with short-term debt removed.

1 **3. Cost of Debt**

2 Consistent with my capital structure recommendation, I also recommend that the
3 Commission use LUCo’s embedded cost of debt, 4.51%, which includes debt transferred to
4 intermediate holding companies, but which debt is still used for investment in LUCo’s assets,
5 resulting in an overall ROR of 6.76%.

6 **B. Analytical Principles:**

7 **1. The Cost of Equity vs. the Authorized ROE**

8 I will intentionally differentiate between the market-determined cost of equity (“COE”) and the allowed ROE because it is clear from my continuous and regular review of utility stock investment analyses that equity analysts use a COE, i.e. discount rate, to value utility stocks that is much lower than average ROEs allowed by state utility regulatory commissions.²

12 **2. Benchmarking**

13 The Commission recently awarded an ROE of 9.8% to Spire Missouri in its rate cases. However, because of differences in the capital structure of Liberty Midstates intermediate parent company, LUCo, and that of Spire Missouri, 9.8% is **not** an appropriate ROE for Liberty Midstates. Instead, the ROE allowed for Liberty Midstates should be increased by 20 basis points to 10%. If the Commission chooses to adopt a capital structure for Liberty Midstates that is similar to the one it recently adopted for Spire Missouri, however, then 9.8% would be an appropriate allowed ROE for Liberty Midstates.

20 **3. A Comparative Analysis is Required**

21 The comparative nature of the applicable constitutional parameters requires that Staff’s recommendation regarding Liberty Midstates’ allowed ROE be based on Staff’s analysis of a proxy group of natural gas utility companies of similar business and financial risk characteristics to Liberty Midstates. I have used the same proxy group used in the Spire Missouri rate cases. To develop my recommendation, I have analyzed macroeconomic environment changes, broader debt and equity capital market changes, and changes in valuation levels and cost of equity

² The cost of common equity is the return required by investors, determined by expert analysis of market data relating to a carefully-constructed group of proxy companies. The allowed ROE, on the other hand, is the value selected by the Commission for use in calculating a utility’s forward-looking rates for implementation at the end of the rate case.

1 estimates for this proxy group. For specific cost-of-equity estimates for the proxy group, I relied
2 upon the Discounted Cash Flow (“DCF”) and the Capital Asset Pricing Model (“CAPM”),
3 two well-recognized and widely-used tools of financial analysis.

4 **C. Economic and Market Conditions:**

5 **1. Gross Domestic Product and the Debt Market**

6 In setting utility rates, the Commission should be mindful of the condition of the
7 economy and the markets. Real Gross Domestic Product (“GDP”) increased by 2.3% for the
8 2017 calendar year. 10-Year Treasury rates increased by approximately 40 basis points in
9 January 2018, to level not reached since April 2014. It is not yet clear whether this increase will
10 be sustained or whether rates will return to their previous levels or lower. Utility bond yields
11 have not increased in similar fashion. The average utility bond yield based on the Moody’s
12 public utility bond index for January 2018 was 3.88%, compared to 4.29% a year ago.
13 As compared to 2014, when average allowed ROEs for gas utilities were 9.6%, utility bond
14 yields are 35-45 basis points lower. In summary, while US Treasury yields increased during
15 January 2018, utility debt markets imply there has not been much of a change in utility capital
16 costs over the last few months. If anything, the cost of equity may be slightly higher now.

17 **2. The Stock Market**

18 Until recently, utility stocks had been outperforming the S&P 500, due to several years of
19 sustained low interest rates. However, the broader markets significantly outperformed the utility
20 markets during January 2018. While the contraction of utility stocks during the last couple of
21 months is due to an increase in utility cost of equity, nonetheless, it is widely recognized that
22 utility stocks were trading at or near all-time highs in the fall of 2017, meaning that the cost of
23 equity to utilities was at all-time lows. The actual cost of equity capital to utility companies has
24 been in the 6% to 7% range. While utility equity analysts certainly didn’t expect commissions to
25 reduce allowed ROEs to a point where they would be at parity with the cost of equity, they do
26 expect the spread to eventually compress either due to an increase in the cost of equity,
27 a reduction in allowed ROEs, or a combination of both. Even with the recent contraction in
28 stock prices, utility stocks are still trading at higher p/e ratios than they were for much of 2014,
29 which implies that the Commission should not allow an ROE for Liberty Midstates that is any
30 higher than that which it authorized Spire Missouri in its recent rate cases. In summary,

1 observable trends in the utility equity markets indicate that the Commission should not increase
2 allowed ROEs above recent levels, assuming similar levels of financial risk.

3 **D. Capital Structure**

4 **1. Credit Rating**

5 In determining the appropriate capital structure to use, the Commission must be mindful
6 that Liberty Midstates is part of a large and complex corporate family. Liberty Midstates does
7 not independently issue debt to investors. APUC has indicated in several investor presentations
8 that its intent on a going-forward basis is to issue debt for its regulated United States'
9 subsidiaries through LUF, with this debt being guaranteed by LUCo. APUC, the ultimate owner
10 of Liberty Midstates, is rated by both S&P and DBRS (a Canadian-based rating agency).
11 LUCo is indirectly rated by S&P and DBRS via its financing subsidiary, LUF. LUF is assigned
12 the credit rating because it directly issues the debt on behalf of LUCo, but the rating is based on
13 S&P's and DBRS' assessment of LUCo's credit profile because LUCo guarantees all of the debt
14 issued by LUF. S&P rates APUC's family of companies, which includes Liberty Power, based
15 on APUC's consolidated credit profile.

16 Consistent with this approach, all of APUC's companies' corporate credit ratings are the
17 same, which is currently a 'BBB' rating. S&P's ratings on APUC are based on its assignment of
18 a "strong" business risk profile and a "significant" financial risk profile. DBRS, which the
19 Commission isn't familiar with other than through previous rate cases involving LUCo, such as
20 Liberty Midstates' last rate case in 2014, approaches the ratings it assigns to APUC and LUCo
21 much the same way as Moody's. DBRS does give consideration to LUCo's stand-alone
22 business risk and financial risk when it assigns LUCo's financing subsidiary, LUF, a credit rating
23 of BBB (high).

24 **2. Capital Structure**

25 Staff recommends using LUCo's adjusted actual capital structure because this reflects the
26 financial risk APUC has determined is reasonable for purposes of financing its regulated utility
27 assets in the United States. APUC's financing strategy for LUCo has changed since the 2014
28 rate case, which is why it is no longer appropriate to accept LUCo's unadjusted per books capital
29 structure as being representative of how LUCo's regulated utilities are actually capitalized.
30 Staff's examination of LUCo's notes to financial statements, rating agency reports and data

1 request responses revealed that LUCo's per books balance sheet as of September 30, 2017,
2 **understates** the amount of leverage used to support LUCo's investments. Approximately
3 \$395 million of debt is held at intermediate subsidiaries between APUC and LUCo for purposes
4 of making equity infusions in LUCo. This debt is guaranteed by LUCo.

5 After making various adjustments to LUCo's capital structure, LUCo's September 30,
6 2017, capital structure (including short-term debt) was as follows: 39.25% common equity,
7 57.83% long-term debt and 2.92% short-term debt. If short-term debt is removed from the
8 capital structure then the common equity ratio would be 40.43% with the remaining 59.57%
9 being long-term debt. Staff does not recommend adopting APUC's capital structure and
10 associated capital costs for purposes of setting the allowed ROR for Liberty Midstates' Missouri
11 assets. APUC's per books capital structure had been more leveraged recently than
12 LUCo's unadjusted per books capital structure because of financing activities related to the
13 Empire transaction. However, as of September 30, 2017, APUC's balance sheet reflected
14 approximately 45% equity.

15 **3. Embedded Cost of Debt**

16 I recommend that the Commission match LUCo's consolidated embedded cost of debt to
17 that of LUCo's adjusted actual capital structure. LUCo's consolidated embedded cost of
18 long-term debt was 4.51% as of September 30, 2017. In comparison, Spire Missouri's embedded
19 cost of debt was approximately 4.12%.

20 **E. Cost of Equity**

21 **1. Start with the recent Spire Missouri decision**

22 The Commission can benchmark its decision in this case based on its decision in the
23 recently concluded Spire Missouri rate case. The Commission decided an allowed ROE of 9.8%
24 was fair and reasonable for purposes of setting Spire Missouri's allowed ROR. However,
25 Spire Missouri's stand-alone credit profile ("SACP") is consistent with an 'A' rating as specified
26 by S&P if it were to rate Spire Missouri based purely on its business and financial risk.³
27 Liberty Midstates does not issue its own debt and it is not rated. Therefore, there is no rating
28 agency assessment as to what its SACP may be. In such situations, it is best to evaluate the

³ "Summary: Laclede Gas Company," S&P RatingsDirect, July 19, 2017.

1 SACP of the subsidiary that is responsible for the debt financing for the utility operations. In this
2 case, that company is LUCo. LUCo has a SACP of 'BBB' (high) as specified by DBRS.
3 This SACP is based on DBRS' assessment of both LUCo's business risk (its regulated utility
4 assets) and its financial risk (its capital structure that is more aggressive in its use of leverage).
5 Recent spreads between 'A' rated and 'Baa' rated utility bonds have been approximately 30 basis
6 points. Because this is a tangible and objective measure of a cost-of-capital spread, Staff suggest
7 that 2/3 of this spread be added to the Commission's recent allowed ROE of 9.8% for
8 Spire Missouri in order to adjust for LUCo's higher SACP that is due mainly to its more
9 leveraged capital structure.

10 **2. The Proxy Group**

11 I estimated Liberty Midstates' COE by applying COE methodologies to the same proxy
12 group recently used in the Spire Missouri rate cases. While I continue to estimate a much lower
13 cost of common equity than average allowed ROEs around the country, my recommended
14 allowed ROE is based on my assessment of a fair and reasonable allowed ROE based on the
15 Commission's most recent decision, changes in the capital markets since that decision, and
16 whether the potential allowed ROE spread over the cost of equity spread is consistent with
17 market expectations.

18 **3. DCF Analysis**

19 In the DCF method, the cost of equity is the sum of the dividend yield and a perpetual
20 growth rate that is intended to replicate the projected capital appreciation of the stock.
21 The projected average dividend yield for the proxy group of five comparable companies is
22 approximately 2.70%. Investors invest in utility companies for yield and not growth.
23 Companies in the S&P 500 in recent years have retained approximately 65% of their earnings for
24 reinvestment, while natural gas utilities' retention ratio has been approximately 35% over the
25 same period. It follows that utilities will grow at a rate less than that of nominal GDP growth.
26 Consequently, a projected long-term, steady-state nominal GDP growth rate should be
27 considered as an upper constraint when testing the reasonableness of growth rates used to
28 estimate the cost of equity for a regulated gas utility. Most economists do not project nominal
29 GDP to grow much higher than 4.5% per year over the long-term, so serious doubt must attach to
30 a constant growth rate for the gas utility industry that is above the upper constraint.

1 Equity analysts project a compound annual growth rate in earnings per share over the next
2 five years of approximately 5%. However, based on actual historical growth over the long-term,
3 this growth rate is not sustainable over a longer period, let alone for infinity as assumed in the
4 constant-growth DCF.

5 **4. The Growth Rate**

6 An analysis of growth in the natural gas distribution industry since 1968 revealed that the
7 actual realized growth has averaged in the 4% to 4.5% range, or about 66% of average GDP
8 growth of around 6.5% over the same period. Additionally, the growth in the natural gas
9 distribution industry was not highly correlated with GDP growth over this period. In fact,
10 empirical evidence shows that natural gas distribution utility growth has had very little
11 correlation to that of GDP. With respect to future growth, energy consumption has been
12 declining. The other factors that often determine potential growth for the regulated gas
13 distribution industry are investment and demand/customer growth. Because most regulated
14 natural gas distribution companies have moved to largely decoupled rate designs in which the
15 recovery of the revenue requirement is not a function of usage, but number of customers, the
16 other major factor should be limited to expansion of the system to serve additional customers.
17 There is a higher correlation between capital spending and industry growth than there is between
18 GDP and industry growth. The current rise in capital expenditures is not driven by expected
19 growth in the economy, but in the perceived need to accelerate capital expenditures for
20 infrastructure replacement.

21 **5. Staff's DCF Results**

22 Historically, the gas distribution industry only achieved growth in the low 4.2% to 4.6%
23 even during a period of high capital investment and higher average economic growth of 6.54%.
24 Therefore, a constant-growth rate closer to 4% is more logical considering that projected growth
25 rates for the U.S. economy are much lower in the future as compared to the period I analyzed
26 (1968-2016). In order to give some consideration to some of the higher near-term expected
27 growth rates, especially in DPS rather than EPS, I used a growth rate range of 4.2% to 5.0%.
28 This results in a cost of equity estimate of 6.90% to 7.70%, which is equivalent to Staff's
29 estimate in the Spire Missouri rate case. While I understand that my COE estimate is much
30 lower than the average allowed ROEs for gas utility companies in the country, it is quite

1 consistent, if not on the high side, compared to COE estimates used by equity analysts that
2 follow APUC. Being that APUC has more business risk than LUCo's regulated utility
3 operations, the cost of equity assigned to APUC is higher than what would be appropriate for
4 LUCo's regulated utility assets, including Liberty Midstates.

5 **F. Tests of Reasonableness**

6 **1. The Capital Asset Pricing Model (CAPM)**

7 Staff used the CAPM to test the reasonableness of its recommendation. The average beta
8 for the proxy group was 0.69 as compared to 0.71 in the Spire Missouri rate case.⁴ For the
9 market risk premium ($R_m - R_f$) estimates, I relied on the historical difference between earned
10 returns on stocks and earned returns on bonds. The first risk premium was based on the long
11 term arithmetic average of historical return differences from 1926-2016 (6.00%). The second risk
12 premium was based on the long-term geometric average of historical return differences from
13 1926 to 2016 (4.50%). The results using the long-term arithmetic average risk premium and the
14 long-term geometric risk premium are 6.91% and 5.89%, respectively. This compares to CAPM
15 results for arithmetic and geometric averages of 7.14% and 6.08%, respectively in the recent
16 Spire Missouri rate cases. Although this implies a decline in utilities' COE, Staff used the same
17 equity risk premium as in the last case. Considering the recent volatility in broader markets
18 since the end of January, the equity risk premium has increased. The fact that the betas declined
19 since Staff did its analysis for the Spire Missouri case is explained by the fact that broader
20 markets have experienced much greater volatility in the past month.

21 **2. Average Authorized Returns**

22 In the past, the Commission has applied a test of reasonableness using average authorized
23 returns published by Regulatory Research Associates (RRA) to test the reasonableness of its
24 allowed ROE. According to RRA, the average authorized return on equity for gas utilities for
25 2017 was 9.72% (based on 24 ROE determinations), compared to 2016's calendar year average
26 of 9.54% (based on 26 ROE determinations). The average allowed ROE for fully-litigated cases
27 for 2017 was 9.89% (7 decisions). Allowed ROEs for fully-litigated cases were 9.61% for the
28 2016 calendar year.

⁴ Same proxy group; betas had declined.

1 **G. Conclusion**

2 A just and reasonable rate is one that is fair to the investors and fair to the ratepayers.
3 Fairness to the ratepayers means rates that are not one penny more than is necessary to be fair to
4 the shareholders. Fairness to the shareholders means rates that will produce revenues, on an
5 annual basis, sufficient to cover the Companies' prudent cost of service, which includes an
6 allowed ROR. Using widely-accepted methods of financial analysis and reviewing Wall Street
7 equity analysts' research shows that the COE for gas distribution companies is conservatively
8 around 7%. However, since I have provided this information in past rate cases, including the
9 recent Spire Missouri rate case in which the Commission decided an allowed ROE of 9.8% was
10 fair and reasonable, I recommend the Commission focus on whether LUCo's more leveraged
11 capital structure justifies a different authorized ROE.⁵ I suggest that the more leveraged capital
12 structure justifies an increase to the allowed ROE of 20 basis points.

13 Based on all the foregoing, it is my considered professional opinion that an authorized
14 ROE for Liberty Midstates of 10% (range of 9.5% to 10%) would be reasonable if it is applied to
15 LUCo's lower actual equity ratio. Given that the cost of capital is as real a cost as any other cost
16 of service, reducing this cost in the ratemaking formula to a value closer to its actual cost is
17 consistent with the principles of cost-of-service ratemaking. Using my recommended allowed
18 ROE results in an allowed ROR for Liberty Midstates of 6.76% (range of 6.56% to 6.76%).
19 This rate was calculated by applying an embedded cost of long-term debt of 4.51% and an
20 allowed ROE of 10% to a capital structure consisting of 40.43% common equity.

21 *Staff Witness/Expert: David Murray, CFA*

22 **VII. Rate Base**

23 **A. Plant in Service and Depreciation Reserve**

24 Staff's plant-in-service reflects by account Liberty Midstates - MO's plant-in-service
25 balances for Missouri gas operations at December 31, 2017. In addition, Staff has also reflected
26 corporate allocated plant-in-service which includes items such as billing software, furniture, and
27 other corporate investment related overhead.

⁵ "More leveraged" means that it includes more debt and, consequently, more financial risk since debt is paid before equity.

1 Staff has reflected depreciation reserve balances by account through December 31, 2017
2 in its cost of service calculation. These depreciation reserve balances also include all
3 corporate allocated depreciation reserve balances associated with corporate investment that is
4 appropriately allocated to Liberty Midstates - MO. Staff made no adjustment to these corporate
5 allocated amounts.

6 *Staff Witness/Expert: Christopher D. Caldwell*

7 **1. Erroneous Plant-In-Service Postings**

8 During Staff's review of plant-in-service balances, it was discovered that several
9 erroneous postings to Liberty Midstates – MO's property records that existed in the prior rate
10 case were never removed from their property records. Staff has posted adjustments to remove
11 these erroneous postings from the cost of service calculation. Staff also recommends that the
12 Commission require Liberty Midstates – MO to record correcting entries to remove these
13 erroneous plant amounts from its property records.

14 *Staff Witness/Expert: Lisa M. Ferguson*

15 **2. Erroneous Depreciation Reserve Postings**

16 During Staff's review of Liberty Midstates – MO's depreciation reserve balances, it was
17 discovered that several erroneous postings to Liberty Midstates – MO's property records that
18 existed in the prior rate case were never removed from their property records. Staff has posted
19 adjustments to remove these erroneous postings from the cost of service calculation in this case.
20 Staff also recommends that the Commission require Liberty Midstates – MO to record correcting
21 entries to remove these erroneous depreciation reserve amounts from its property records.

22 *Staff Witness/Expert: Lisa M. Ferguson*

23 **B. Automated Meter Read (AMR) Devices**

24 Liberty Midstates - MO plans to install approximately 48,000 AMR devices on the
25 meters in its service territory by March 31, 2018, the end of the ordered true-up period for this
26 case. These installations are part of a greater corporate initiative to install AMR and AMI meter
27 technology in its service territory. The Company would like to leverage this new technology to
28 reduce internal costs. As of Staff's direct filing, Liberty Midstates – MO has installed 18 AMR
29 devices on meters in its southeast Missouri (SEMO) territory and 5,356 AMR devices on meters

1 in its northeast Missouri (NEMO) territory, which includes the approximately 5,000 AMR
2 devices that had been installed about a year to a year and a half ago near Canton, MO. As of
3 December, 31, 2017, Liberty Midstates - MO has not installed the remaining meters in its
4 NEMO, SEMO, and WEMO territories. Staff will continue to monitor the Company's activity
5 and will address this issue as part of its true up audit.

6 *Staff Witness/Expert: Lisa M. Ferguson*

7 **C. Capital Reliability Tracking Mechanism Proposal**

8 In his direct testimony, Liberty Midstates - MO's witness Timothy S. Lyons proposes a
9 capital reliability tracking mechanism that would establish a regulatory asset designed to capture
10 a deferral of all carrying costs associated with incremental capital spending that is not included
11 in base rates in a rate case. Staff does not support Mr. Lyons' proposed capital reliability
12 tracking mechanism and will fully address this proposed tracker as part of rebuttal testimony that
13 will be filed on April 13, 2018.

14 *Staff Witness/Expert: John P. Cassidy*

15 **D. Cash Working Capital (CWC)**

16 Cash Working Capital (CWC) is the amount of funding necessary for a utility to pay day-
17 to-day expenses incurred in providing utility services to its customers. Cash inflows from
18 payments received by the utility and cash outflows for expenses incurred by the utility are
19 analyzed using a lead/lag study.

20 When a utility expends funds to pay expenses necessary for the provision of service
21 before receiving payment from its customers, the utility's shareholders are the source of the
22 funds. The funding from shareholders represents a portion of each shareholder's total investment
23 in the utility. To compensate shareholders for this funding, an amount for CWC is included in
24 rate base. Alternatively, customers supply funds to the utility when they pay for services before
25 the utility expenses are incurred in providing that service. Utility customers are compensated for
26 the funds they provide by a reduction to the utility's rate base.

27 Staff typically performs a lead/lag study to determine the amount of cash working capital
28 provided by ratepayers and by shareholders. The CWC requirement can be negative or positive.
29 If the requirement is negative, it indicates that the utility's customers are providing the CWC for

1 the test year, which indicates customers paid for the utility’s expenses before the Company
2 incurred them. Under this circumstance, CWC would represent a reduction to rate base.
3 A positive CWC requirement indicates that the utility pays its expenses before receiving
4 payment from the customers, which means that the shareholders are providing the funds. In this
5 instance, CWC would represent a rate base addition.

6 As part of a stipulation and agreement in its previous rate case, Case No. GR-2014-0152,
7 Liberty Midstates - MO agreed to perform a lead/lag study in its next general rate case and
8 provide the results as part of its next rate case filing.. In the course of completing its lead/lag
9 study, Staff reviewed the lags calculated by Liberty Midstates - MO witness Timothy S. Lyons
10 for accuracy and reasonableness. Staff adopted many of the lags calculated by Mr. Lyons,
11 but recommends using different lags for the collection lag and cash voucher lag, as discussed in
12 more detail below. Additionally, as part of its true-up audit, Staff anticipates that an adjustment
13 to the billing lag will be necessary, following the installation of AMR devices throughout Liberty
14 Midstates’ Missouri service territory. Staff is also proposing separate expense lags for incentive
15 compensation and 401k expenses, as noted below. Liberty Midstates - MO did not include
16 separate lags for incentive compensation or 401k expenses in its lead/lag study.

17 The test year accounts receivable data used in the calculation of the collection lag
18 for the WEMO district contained an abnormally large receivable ** _____ **.
19 This abnormality inflates the collection lag while using the accounts receivable turnover ratio⁶
20 to calculate the lag. Staff has made an adjustment to remove the abnormality from the
21 calculation of the collection lag for the WEMO district.

22 Additionally, because at any given time a utility’s accounts receivable will contain some
23 customer billings that will at some later time be written off as uncollectible or “bad debt,”
24 Staff made an adjustment to remove bad debt from the calculation of collection lag. As bad debt
25 expense is treated as a separate annualized expense, Staff’s position is that bad debt should not
26 be included in the calculation of collection lag. Therefore, Staff made an adjustment to remove
27 an average of the monthly bad debt that was included in the monthly accounts receivable
28 balance. Finally, the SEMO, WEMO, and NEMO districts are separate rate districts with

⁶ The accounts receivable turnover is the number of times per year that a business collects its average accounts receivable.

1 different demographics and payment practices; therefore Staff has calculated separate collection
2 lags for each of the three rate districts.

3 While reviewing the data Liberty Midstates - MO used to calculate the cash voucher lag,
4 Staff determined that several of the invoices were for payments for the Iowa and Illinois districts
5 of Liberty Midstates. Staff performed its own calculation of cash voucher lag, using a stratified
6 sample approach utilizing 200 invoices of a total of 5904 invoices paid during the test year.
7 The overall expense lag was then calculated using a weighted approach similar to that used by
8 Liberty Midstates - MO witness Timothy S. Lyons.

9 Liberty Midstates - MO is in the process of installing automatic meter readers (“AMRs”)
10 which could reduce the actual lag time associated with meter reading. However, the vast
11 majority of the AMR devices are not currently installed. Currently, only approximately 5,000
12 AMR devices have been installed in the NEMO rate district. Liberty Midstates - MO has
13 indicated that it will install nearly all of the AMR devices by the March 31, 2018, true-up cutoff
14 in this rate proceeding. Upon completion of the installation of these AMR devices, Staff would
15 anticipate that Liberty Midstates - MO will experience significant reduction in time related to the
16 billing lag. Staff has not reflected an adjustment to the billing lag as part of its direct filing, since
17 the vast majority of AMR devices have not been installed. However, if these devices are
18 installed by the March 31, 2018, true-up cutoff date, Staff will include an adjustment to reduce
19 the billing lag in order to take into account the benefit of this metering technology.

20 Staff calculated a separate lag for the incentive compensation/bonus payments using the
21 time elapsed between the midpoint of the service date and the date on which the payments were
22 made in the test year.

23 The 401k expense lag was calculated using the time elapsed between the midpoint of the
24 service date and the date when the payments were made in the test year.

25 As noted in the Prepayment section of the Cost of Service Report, Staff has included the
26 PSC assessment in its calculation of CWC and excluded the amounts from prepayments.

27 *Staff Witness/Expert: Jason Kunst, CPA*

28 **E. Stored Natural Gas Inventories**

29 Natural gas inventory is cyclical in nature, in that gas inventory volumes increase
30 throughout the summer as gas is injected into storage, then decrease throughout the winter as gas

1 is withdrawn or consumed. This natural gas inventory stored underground represents an
2 investment by Liberty Midstates - MO. Therefore, it is included in rate base which allows
3 Liberty Midstates - MO an opportunity to earn a return on its investment.

4 A 13-month average of month ending total costs is used to account for the fluctuation in
5 inventory levels over time. Therefore, Staff included as an addition to rate base a 13-month
6 average of the combined inventory quantities and corresponding prices for gas storage inventory
7 levels using the month-ending balances during December 2016 through December 2017.

8 *Staff Witness/Expert: Christopher D. Caldwell*

9 **F. Prepayments**

10 Liberty Midstates - MO utilizes shareholder funds for prepaid items such as insurance
11 premiums. Including prepayment balances in rate base provides appropriate ratemaking
12 treatment for these items since the utility is required to provide upfront funding.

13 During the course of Staff's review of prepayment amounts, Staff discovered that
14 Liberty Midstates - MO made payments in advance to the Missouri Economic Development
15 Association (MEDA) and included them within the prepayment balances. Staff removed the
16 prepayment amounts related to MEDA because payments to this organization represent lobbying
17 costs and should not be charged to Liberty Midstates - MOs' ratepayers. Additionally,
18 Liberty Midstates - MO included the PSC Assessment in prepayments as well as in its payment
19 lag calculation as part of its overall calculation of cash working capital. Prepayments and cash
20 working capital are both additions to rate base that allow Liberty Midstates - MO to earn a return
21 on them. It is Staff's position that it is inappropriate to include the PSC assessment in both
22 calculations; therefore, Staff has excluded the PSC assessment from the calculation of
23 prepayments, but included it in Staff's cash working capital analysis.

24 Staff included a level of prepayments in rate base that reflects a 13-month average ending
25 December 31, 2017. Staff allocated the 13-month average prepayment balance to each
26 Liberty Midstates - MO rate division: WEMO, SEMO, and NEMO based upon appropriate rate
27 district allocation factors.

28 *Staff Witness/Expert: Christopher D. Caldwell*

1 **G. Customer Deposits**

2 Staff’s inclusion for customer deposits in rate base reflects a 13-month average ending
3 December 31, 2017. Customer deposits are funds received from the utility company’s customers
4 as security against potential loss arising from customer’s failure to pay for utility service.
5 Until refunded, customer deposits represent a source of funds available to the company, and are
6 included as an offset to the rate base investment. Generally, interest is calculated on customer
7 deposits and paid to customers for the use of their money. Please refer to the Income Statement,
8 Interest on Customer Deposits section of the report for an explanation of the calculation of
9 interest on customer deposits.

10 *Staff Witness/Expert: Christopher D. Caldwell*

11 **H. Interest on Customer Deposits**

12 Liberty Midstates - MO’s tariff requires that interest on customer deposits shall be paid
13 on a per annum rate equal to the prime bank lending rate plus one percentage point as published
14 in The Wall Street Journal for the last business day of the preceding calendar year, compounded
15 annually. The Staff determined that the applicable published rate on December 29, 2017 was
16 4.5%. Staff added one percentage point and applied the 5.5% rate to the 13 month average of
17 customer deposits at December 31, 2017. This annual level of interest on customer deposits was
18 included as an expense in the Staff’s cost of service calculation.

19 *Staff Witness/Expert: Christopher D. Caldwell*

20 **I. Customer Advances**

21 Customer advances are funds provided to the company by individual customers to
22 partially reimburse the cost of providing their individual service. Like customer deposits,
23 customer advances are available to the utility for general use. Unlike customer deposits, no
24 interest is paid to customers for the use of this money. Since these funds represent interest-free
25 money to the company, it is appropriate to include these funds as a reduction, or offset, to rate
26 base in order to ensure that the utility does not earn a return on the value of the level of advances.
27 In its direct filing, Liberty Midstates - MO included an adjustment to remove un-refunded
28 amounts from customer advances balances because these amounts were applied as an offset or
29 reduction to plant-in-service. Staff has also reflected these same adjustments in calculating the

1 level of customer advances to include in rates. Staff included an adjusted level of customer
2 advances, as described above, that reflects a 13-month average ending December 31, 2017.

3 *Staff Witness/Expert: Christopher D. Caldwell*

4 **J. Energy Efficiency Regulatory Asset – Rate Base**

5 Staff has included two energy efficiency regulatory asset balances in rate base. The first
6 energy efficiency regulatory asset balance reflects the December 31, 2017 unamortized portion
7 of the energy efficiency regulatory asset that was established in Liberty Midstates - MO's Case
8 No. GR-2014-0152. The second energy efficiency regulatory asset balance represents all eligible
9 energy efficiency spending that has occurred between the March 31, 2014 cut-off in the prior rate
10 case through the December 31, 2017 update period in the current rate case and that is over and
11 above the \$150,000 annual amount of energy efficiency and low income weatherization level
12 that was included in rates in Case No. GR-2014-0152. Staff would note that it excluded
13 approximately \$17,000 from the energy efficiency regulatory asset balance proposed by
14 Liberty Midstates - MO in its December 31, 2017 update workpapers. Staff excluded this
15 amount from the regulatory asset balance to be established in this rate case in order to prevent a
16 double recovery, because this amount is already included in the regulatory asset balance that was
17 established in the prior rate case.

18 Staff's proposed treatment for these two regulatory asset balances is consistent with
19 the terms of the *Revised Partial Stipulation and Agreement As to Certain Issues* in
20 Liberty Midstates - MO's prior rate case, Case No. GR-2014-0152. It is also consistent with the
21 accounting treatment that was described in the *Unanimous Stipulation and Agreement* in the
22 Atmos Energy Corporation rate case, Case No. GR-2010-0192 and that was continued by the
23 aforementioned agreement that was reached in Case No. GR-2014-0152. Staff will update both
24 of Liberty Midstates - MO's regulatory balances at March 31, 2018, as part of its true-up audit.

25 *Staff Witness/Expert: John P. Cassidy*

26 **K. Pensions – Rate Base – Regulatory Asset / Liability**

27 The Commission approved a *Partial Stipulation and Agreement As To Certain Issues* in
28 Liberty Midstates - MO's prior rate case, Case No. GR-2014-0152. As part of that agreement
29 Liberty Midstates - MO was required to record as a regulatory asset or liability, as appropriate,
30 the difference between pension expense included in rates and the amount of funded pension

1 expense as recorded for financial reporting purposes. No witness for Liberty Midstates - MO
2 addressed this issue in direct testimony nor was an amount reflected on a rate base schedule
3 workpaper that was provided with direct testimony. If Liberty Midstates - MO intends to seek
4 rate recognition of a pension regulatory asset/liability in this proceeding, Staff requests that
5 Liberty Midstates - MO provide support for the existence and quantification of this item to Staff
6 by no later than March 21, 2018, so that this issue can be addressed in the technical/settlement
7 conference scheduled for April 3, 2018.

8 *Staff Witness/Expert: John P. Cassidy*

9 **L. Other Post Employment Benefit Costs (OPEBs) – Rate Base – Regulatory**
10 **Asset / Liability**

11 The partial stipulation and agreement in the prior rate required Liberty Midstates - MO to
12 record as a regulatory asset or liability, as appropriate, the difference between OPEB expense
13 included in rates and the amount of funded OPEB expense as recorded for financial reporting
14 purposes. No witness for Liberty Midstates - MO addressed this issue in direct testimony nor
15 was an amount reflected on a rate base schedule workpaper that was provided with direct
16 testimony. If Liberty Midstates - MO intends to seek rate recognition of an OPEBs regulatory
17 asset/liability in this proceeding, Staff requests that Liberty Midstates - MO provide support for
18 the existence and quantification of this item to Staff by no later than March 21, 2018, so that this
19 issue can be addressed in the technical/settlement conference scheduled for April 3, 2018.

20 *Staff Witness/Expert: John P. Cassidy*

21 **M. Accumulated Deferred Income Taxes (ADIT)**

22 Liberty Midstates - MO's deferred tax reserve represents, in effect, a net prepayment of
23 income taxes by the company's customers in rates prior to actual payment to the taxing
24 authorities by Liberty Midstates - MO. For example, because Liberty Midstates - MO is allowed
25 to deduct, from taxable income, depreciation expense on an accelerated basis for income tax
26 purposes, depreciation expense used for income taxes paid by Liberty Midstates - MO is
27 considerably higher than depreciation expense used for rate making purposes. This results in
28 what is referred to as a "book-tax timing difference," and creates a deferral of income taxes to be
29 paid in the future by the Company. The net credit balance in the deferred tax reserve represents
30 a source of cost-free funds. Therefore, Liberty Midstates - MO's rate base is reduced by the

1 deferred tax reserve balance to avoid having customers pay a return on funds that are provided
2 cost-free to the company. Since the expense recognized for depreciation is considerably lower
3 for accounting and ratemaking purposes than for income tax purposes, Liberty Midstates – MO
4 customers are required to pay higher costs for income taxes in rates than each division will
5 actually pay to the IRS. The difference in income tax paid to the IRS and those paid in utility
6 rates are “accumulated” to recognize the future tax liability that will eventually be paid to the
7 IRS. While Liberty Midstates - MO has retained these tax deferrals, they will be used as an
8 offset to rate base.

9 On December 22, 2017, President Trump signed into law the US Tax Cuts and Jobs Act
10 (“TCJA”) which took effect on January 1, 2018. As part of this tax reform, there are several
11 impacts to the energy sector; many of which may or may not be fully known at this time due to
12 the infancy of this change in process. There is, however, a known impact on Liberty Midstates -
13 MO’s ADIT balances from the TCJA because the deferred taxes reflected on Liberty Midstates -
14 MO’s books through December 31, 2017, were calculated assuming a 35% federal tax rate.
15 These recorded deferred taxes were in effect a prepayment of income tax, creating interest free
16 funds that the Company can use. For that reason, as discussed above, the net balance of ADIT is
17 reflected in utility cost of service as a reduction to rate base. However, any deferred taxes
18 generated beginning January 1, 2018, will be recorded at the new 21% tax rate. In addition,
19 any deferred taxes remaining on Liberty Midstates - MO’s books that were recorded by
20 Liberty Midstates – MO assuming a 35% federal corporate tax rate will actually be paid by
21 Liberty Midstates – MO under the new 21% federal corporate tax rate. This means that
22 Liberty Midstates - MO’s accumulated deferred tax reserves are now overstated, and the excess
23 deferred tax amount (the difference between the deferred tax amounts calculated using
24 a 35% rate and a 21% rate) should be flowed back to customers in rates as a reduction to cost of
25 service over time. The timing of the amortization for the flow back of these deferred taxes is
26 determined by the extent to which the deferred taxes are considered protected and unprotected.
27 The protected ADIT is associated with accelerated depreciation tax timing differences while the
28 unprotected ADIT is associated with tax timing differences other than from accelerated
29 depreciation deductions. Staff’s understanding is that the protected ADIT must be flowed back
30 to customers in rates no quicker than over the estimated average remaining life of the assets that
31 created the ADIT under current tax normalization requirements. Liberty Midstates - MO is

1 currently trying to determine the correct amortization period for the flow back of protected
2 excess ADIT. Staff believes that the flow back of excess deferred taxes should be included in
3 this rate case if possible, and Staff will endeavor to work with the Company during the pendency
4 of this rate proceeding to calculate a quantification of these deferred taxes as well as an
5 appropriate amortization period of which to flow back to customers.

6 Staff has included a balance of accumulated deferred taxes in rate base for
7 Liberty Midstates - MO as of December 31, 2017. This item will be reviewed and updated in the
8 true-up audit at March 31, 2018.

9 *Staff Witness/Expert: Lisa M. Ferguson*

10 **N. Rate Base Offset GM-2012-0037**

11 As part of the Stipulation and Agreement that was approved by the Commission in
12 Liberty Midstates - MO's acquisition of Atmos Energy Corporation assets and operations in
13 Case No. GM-2012-0037, Liberty Midstates - MO agreed to a rate base offset intended to
14 prevent a detriment to customers as a result of the transaction. The stipulation required that this
15 rate base offset balance be amortized over ten years beginning on August 1, 2012. Staff has
16 reflected the December 31, 2017, balance of this rate base offset in Staff's cost of service
17 calculation. As part of its true-up audit, Staff will reflect the March 31, 2018, balance of this rate
18 base offset in its cost of service calculation.

19 *Staff Witness/Expert: John P. Cassidy*

20 **O. Transition Costs and Transaction Costs**

21 In Liberty Midstates - MO's prior rate case (Case No. GR-2014-0152), Staff removed
22 certain transition and transaction costs from plant-in-service and depreciation reserve that were
23 associated with Liberty Midstates - MO's acquisition of Atmos Energy Corporation's Missouri
24 assets and operations. Liberty Midstates - MO agreed with those adjustments and also agreed
25 to a specific rate base value for each separate rate district that excluded Staff's capitalized
26 transition and transaction costs. As part of its audit conducted in this rate case, Staff discovered
27 that Liberty Midstates - MO has not removed any of the capitalized transition and transaction
28 costs and corresponding depreciation reserve balances from its property records. Therefore,
29 Staff has made adjustments that exclude these prior rate case capitalized transition and
30 transaction plant balances and corresponding depreciation reserve balances that still exist on

1 Liberty Midstates - MO's books at the end of the December 31, 2017, update period. Staff will
2 update these adjustments to remove balances that exist at the March 31, 2018, true-up cutoff as
3 established by the Commission in this rate case.

4 Furthermore, Staff has confirmed that no transition or transaction costs that resulted from
5 The Empire District Electric Company acquisition case (Case No. EM-2016-0213) have been
6 assigned to Liberty Midstates - MO and therefore none of those costs are included in the cost of
7 service calculation in this rate case.

8 *Staff Witness/Expert: John P. Cassidy*

9 **P. Hannibal Shop**

10 Liberty Midstates - MO is nearing completion of the construction of a new shop located
11 in Hannibal, Missouri. In his direct testimony filed in this rate case, Company witness
12 Michael D. Beatty stated that a new shop in Hannibal was necessary to provide a heat-controlled
13 environment for horizontal directional drilling equipment and a vacuum trailer.
14 Liberty Midstates - MO is seeking recovery of all construction costs associated with this new
15 facility through an inclusion in rate base, where it would receive a return of and return on this
16 investment. The Staff toured the new facility on Tuesday, February 13, 2018. During the tour,
17 Staff observed that the structure had been mostly completed with the exception of the installation
18 of guttering and a few other items. Staff noted that the heating equipment was working and
19 that the Company has been able to store its horizontal direction drilling equipment and
20 vacuum trailer inside the new structure since October 31, 2017. As of February 15, 2018,
21 Liberty Midstates - MO has recorded on its books approximately \$116,529 in Construction Work
22 in Progress for all necessary construction costs as well as allowance for funds used during
23 construction amounts that provide carrying costs while the facility is under construction.
24 Liberty Midstates - MO has indicated that the facility should be fully completed prior to the
25 March 31, 2018, true-up cutoff date established by the Commission for this rate proceeding.

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_____ ** A copy of the affiliate lease agreement, provided in response to Staff Data Request No. 0044, is attached as Confidential Appendix 3, Schedule JPC-d1 to this Report.

** _____

_____ ** therefore, Liberty Midstates - MO cannot seek recovery for the Hannibal shop in rate base without an acceptable remedy for this situation. It is Staff's position that unless Liberty Midstates - MO provides a

1 reasonable and appropriate solution for the current situation, that the costs associated with the
 2 Hannibal shop cannot be included in rate base upon its completion. Staff also recommends that

3 ** _____
 4 _____ ** and that

5 any applicable affiliate transaction rules of the Commission be followed.

6 *Staff Witness/Expert: John P. Cassidy*

7 **VIII. Allocations: Upstream Service Affiliates’ Ownership, Governance and**
 8 **Corporate/Business Services Costs**

9 **A. Introduction and Background**

10 During the historic test year Liberty Midstates received and was charged for ownership,
 11 governance, and various corporate/business services provided by five separate upstream service
 12 affiliates. A brief description of services provided by each of the five upstream service affiliates
 13 is provided in the table below:

| Services Provided by Each Upstream Service Affiliate | |
|---|---|
| Algonquin Power & Utilities Corp (“APUC”) | Provides financial and strategic management, corporate governance, and oversight of administrative and support services for all downstream service entities and subsidiaries (i.e., Liberty Power and Liberty Utilities Co.) |
| Liberty Utilities (Canada) Corp (“LUC”) | Provides executive, regulatory strategy, energy procurement, operations, utility planning, administrative and customer experience services. Separate subsets of LUC employees are largely, if not exclusively, dedicated to serving unregulated Liberty Power <i>or</i> regulated Liberty Utilities Co. Other employee groups provide services to <i>both</i> Liberty Power and Liberty Utilities Co. |
| Liberty Algonquin Business Services (“LABS”) | Provides various business and corporate services to Liberty Power <i>and</i> Liberty Utilities Co. – including functions such as IT, HR, procurement, strategic management, financial reporting, treasury, internal audit, external communications and legal services |
| Liberty Utilities Service Corp (“LUSC”) | Provides IT, HR, legal, regulatory and government relations, outage management, vegetation management, accounting/finance, utility planning, and customer communications to Liberty Utilities Co. |
| ELABS, Central Region Office operating out of Joplin, MO (i.e., Empire) | Entities supplying business services to smaller subsets of regulated utility systems owned by Liberty Utilities Co. |

15

1 Liberty Utilities Co. business group is APUC's national rate-regulated generation,
2 transmission and distribution utility which provides electricity, natural gas and water utility
3 services to customers in 13 states within the United States – which includes Liberty Midstates'
4 operations. APUC's Liberty Power business group generates and sells electricity produced by a
5 diversified portfolio of North American unregulated renewable and clean energy power
6 generation facilities.

7 Charges from each noted upstream service affiliate were recorded on Liberty Midstates'
8 standalone income statement employing a process of direct-assignment of charges, as well as via
9 the allocation of "indirect" costs that were incurred for the benefit of a number of APUC
10 holdings. Additional information addressing the services that are being provided by all the noted
11 upstream service affiliates, except the newly-created "ELABS" entity, as well as the
12 methodologies and procedures for direct-assignment and allocation of indirect costs to Liberty
13 Midstates and other benefiting APUC holdings is discussed in some detail in an Algonquin
14 Power & Utilities Corp Cost Allocation Manual ("Algonquin CAM" or "CAM") dated
15 January 1, 2017. The creation of ELABS and certain "regional" offices that occurred in
16 June 2017 was driven, in part, by a reorganization that transpired following the acquisition of
17 The Empire District Electric Company ("Empire"). ELABS is the acronym for the LABS group
18 which serves certain central-region utilities that work in the Empire offices. The noted CAM
19 was filed with the Commission within Case No. AO-2017-0360, but has not been approved by
20 the Commission. Algonquin Power & Utilities Corp/Liberty Utilities Co., Staff, and the Office
21 of the Public Counsel are currently engaged in discussions relating to any necessary
22 improvements and/or changes that should be made to the proposed CAM. While Algonquin
23 Power & Utilities Corp/Liberty Utilities Co. does not currently have a Commission approved
24 CAM, Staff approached its review of Liberty Utilities Co.'s affiliate transactions utilizing the
25 Algonquin CAM as a guide.

26 The general philosophy for assigning and allocating affiliate costs embodied within the
27 Algonquin CAM provide that:

- 28 • Administrative and business services costs should be direct-assigned to each
29 benefiting entity to the maximum extent possible.
- 30 • Costs that are not directly assignable to a given benefiting entity, but which are
31 associated with homogenous services being incurred to provide benefits to a

1 number of affiliates, should be allocated by employment of factors that best
2 capture the cost-causative characteristic of the services being provided.

- 3 • Costs for services that are neither directly assignable to a given benefiting affiliate
4 nor reasonably identifiable with a cost-causative allocation factor should,
5 nonetheless, be allocated to all benefiting affiliates using a general allocator that
6 recognizes that each benefiting affiliate should be charged – in some fashion and
7 to some degree - for some portion of the costs being incurred in undertaking the
8 “general” services being provided.

9 Within the historic test year ending June 30, 2017, Liberty Midstates’ Missouri operations
10 recorded approximately \$3.4 million in expenses for services provided by the five upstream
11 service affiliates delineated in table above. Liberty Midstates posted Adjustment 14 to
12 “normalize” upstream service affiliates’ costs for the reorganization that followed the acquisition
13 of Empire.

14 The Company’s Adjustment 14 contained two elements. First, a portion of Company
15 Adjustment 14 eliminates payroll costs incurred in the historic test year associated with
16 Liberty Midstates employees who were transferred out of Liberty Midstates to an upstream
17 service affiliate that is expected to provide business services to Liberty Midstates as well as other
18 utility systems owned by Liberty Utilities Co (“LUCo”). In other words, a portion of Company
19 Adjustment 14 eliminates the “non-recurring” payroll cost of employees who will no longer be
20 exclusively dedicated to providing service to Liberty Midstates. Second, with the other
21 element of Company Adjustment 14, Liberty Midstates proposes to reflect budgeted 2018
22 expense levels for certain elements of upstream service affiliate costs being direct-assigned and
23 allocated to Liberty Midstates. The reduction in recorded test year costs associated with former
24 Midstates-direct employees who have since transferred to an upstream service affiliate is
25 virtually identical to the increase in 2018-budgeted costs over test-year-actual expenses
26 associated with certain services being provided by upstream service affiliates. Thus, Company
27 Adjustment 14 suggests that the fairly significant reorganization of personnel, including the
28 creation of a new “ELABS” group, is expected to cause a slight increase of approximately
29 \$16,000 in “net” Liberty Midstates Missouri operations’ (“Liberty Midstates – MO”) annual
30 O&M expense.

1 **B. Staff’s Proposed Test Year Affiliate Transactions Adjustment – Subject to**
2 **Revision and Supplementing**

3 With the filing of this Staff Report, Staff is proposing a net *downward* adjustment to test
4 year recorded levels of Liberty Midstates - MO retail jurisdictional expenses being charged from
5 upstream affiliated parent/service company entities in the amount of \$596,780. As shall be
6 explained in greater detail in ensuing sections of this report, Staff does not consider its audit of
7 upstream service affiliates complete. Staff is continuing to work with the Company to receive
8 discovery responses that could allow Staff to make a better informed recommendation for an
9 ongoing and normal level of prudently incurred upstream service affiliate costs to be properly
10 included in Liberty Midstates - MO operations’ retail cost of service in this case.⁷

11 Staff can readily observe that Liberty Midstates does not undertake a number of services,
12 on its own behalf, that are administrative in nature and that are generally considered to be
13 corporate ownership/governance or “back office” business services. Accordingly, Staff
14 recognizes that Liberty Midstates - MO operations are receiving and should be responsible for
15 paying for an equitable share of costs reasonably-incurred for necessary business services being
16 provided by upstream service affiliates. While Staff is confident that Liberty Midstates is a
17 beneficiary of a number of business services being provided by upstream service affiliates, at this
18 point Staff is *not* confident that all costs being incurred are necessary for the provision of
19 regulated utility service, or that all such costs are being accurately and fairly direct-assigned and
20 allocated to Liberty Midstates - MO operations.

21 Staff’s affiliate transactions adjustment consists of three components. First, Staff accepts,
22 and therefore has posted, that element of Company Adjustment 14 wherein the test year costs
23 associated with employees who were dedicated to Liberty Midstates operations have transferred
24 to an upstream service affiliate where such employees are expected to provide service to
25 Liberty Midstate operations, but additionally, to other regulated utility systems owned by LUCo.

26 Second, Staff is proposing to eliminate 75% of APUC labor and labor-related corporate
27 governance and administrative oversight services that were direct-assigned and indirect-allocated

⁷ Staff raised concerns with the Company’s inability to provide timely and comprehensive responses to Staff discovery requests surrounding costs from upstream service affiliates at the Discovery Conference held on February 6, 2018.

1 to Liberty Midstates and further allocated to Missouri retail operations. The 75% disallowance
2 considers the following concerns and factors:

- 3 • The vast majority of compensation being incurred at the APUC service
4 company level comes in the form of bonuses, Long Term Incentive
5 Compensation, Employee Stock Purchase Plan (“ESPP”), and Stock Options.
6 The Company has not yet adequately supported its compensation strategies and
7 goals – which appear to consist primarily of incentive payments which may or
8 may not promote the provision of utility service at the lowest long-term cost
9 possible consistent with prudent service quality and safety standards. Neither
10 the overall reasonableness of individual compensation components nor overall
11 executive compensation, has been provided by the Company as of the time that
12 the Staff Report was being finalized for production.
- 13 • It does not appear that the four executives at APUC are attempting to
14 accurately record daily or weekly timesheets that would demonstrate actual
15 time being incurred for the benefit of Liberty Midstates – or for that matter,
16 any other APUC holding.
- 17 • Notwithstanding contrary claims narratively provided within discovery
18 responses received to date, it appears that the costs associated with APUC’s
19 significant efforts to acquire new holdings are being pushed down to LUCo’s
20 regulated properties – such as Liberty Midstates.

21 Third, Staff is also proposing to reduce test year actual recorded upstream service affiliates’ costs
22 to capture a decline in the levels of costs being incurred in the post-test year time period.
23 The acquisition of Empire represented a large addition to APUC’s as well as LUCo’s holdings.
24 As such, Staff fully expects that Liberty Midstates as well as other holdings of Algonquin Power
25 & Utilities Corp and LUCo will achieve some synergies and economies of scale, as relatively
26 fixed “common business services” costs should now be being spread over a larger number of
27 benefiting entities. While a portion of Staff’s adjustment captures a reduction in overall
28 upstream service affiliates’ costs in the post-historic time period, Staff has concerns that the full
29 amounts of synergies in the post-test year time frame are not being fully captured in the small
30 amount of data currently available in the post-test year timeframe.

1 A more detailed discussion of the basis and support for the upstream service affiliates
2 adjustments being proposed at this time are contained within Part D of this Affiliate Transactions
3 Section of the Staff Report. If responses to long-outstanding data requests are eventually
4 provided and comprehensively answered, Staff may propose to revise its affiliate transactions
5 adjustment being recommended with this Staff Report. Such data could cause Staff to reduce or
6 increase the amount of its affiliate transactions adjustment from that being proposed within the
7 Staff Report at this time.

8 **C. Staff has Significant Concerns Regarding Upstream Service Affiliates' Costs**
9 **Being Pushed Down to Liberty Midstates' Missouri Operations**

10 As briefly discussed above, shared services provided to Liberty Midstates are now being
11 charged from five different upstream service affiliates through a combination of direct-charging
12 of labor and non-labor expenses, as well as numerous methodologies and schemes for allocating
13 indirect or "common" business services costs. Liberty Midstates - MO operations represent a
14 relatively small portion of APUC's total property holdings. The combination of charges being
15 derived from five service entities that are being separately accounted for and that are employing
16 multiple complex allocation schemes, in conjunction with the fact that Liberty Midstates - MO
17 operations represents a relatively small slice of the entire larger APUC entity, makes it
18 very challenging for Staff to assess the overall reasonableness of shared services costs being
19 incurred, and just as importantly, the equity of allocation processes being employed, that
20 meaningfully or materially affect upstream service affiliate charges to Liberty Midstates - MO
21 retail cost of service.

22 General concerns regarding the direct assignment and allocation of upstream affiliates'
23 shared services costs to LUCo's regulated utility holdings, such as Liberty Midstates, are
24 significantly heightened in this case inasmuch as the ultimate parent – APUC – is a corporation
25 that also owns and provides executive and business services to Liberty Power, a wholly owned
26 subsidiary that, in turn, owns numerous unregulated electric generating facilities. If a utility
27 holding company owns only regulated utility properties in multiple states or jurisdictions, there
28 always remains a concern of properly and equitably assigning costs to benefiting jurisdictions.
29 However, a much larger concern arises when a company owns *significant unregulated*
30 *operations* in addition to owning a number of rate-of-return regulated utilities. The heightened
31 concern arises as there could exist a very real bias on the part of utility management to attempt

1 to assign or allocate as many shared services costs to captive utility customers taking essential
2 rate-of-return regulated utility service in order that its unregulated holdings can achieve even
3 greater “non-regulated” returns for the company’s shareholders.

4 The size and complexity of the five affiliate organizations providing shared services to
5 Liberty Midstates - MO operations, in conjunction with the incentive that exists for APUC to
6 attempt to maximize the assignment and allocation of the cost of shared services to APUC’s
7 regulated utility holdings, make it imperative that Staff receive detailed and timely information
8 that will permit it to drill down and identify areas of concern that could require additional audit
9 steps to be able to verify that 1) the allocation schemes being employed are equitable,
10 and 2) direct-assignment and proper allocation of indirect common costs are being regularly
11 carried out as described within the Algonquin CAM. As a result of the untimeliness of
12 responding to discovery, as well as the quality and disjointed nature of discovery responses
13 received, Staff is also recommending that the Commission order Liberty Midstates - MO to
14 1) implement a number of accounting report writing capabilities, and 2) undertake internal
15 audits of the timesheet reporting for APUC management and certain other upstream service
16 affiliate personnel.

17 **1. Upstream Service Affiliates have not been Properly and Accurately Direct**
18 **Charging Labor to Benefiting Entities as Specifically Provided for Within the**
19 **Algonquin CAM**

20 Staff has observed in its review that, at least at the highest service affiliate level –
21 namely, at Algonquin Power and Utilities Corp level where corporate ownership, oversight, and
22 business services are provided, employees and officers are *not* accurately direct-charging their
23 hours to benefiting downstream entities. The failure to properly and correctly direct-assign hours
24 to benefiting entities is concerning to Staff in that the very bedrock of proper cost assignment
25 as set forth with the Algonquin CAM provides that, to the maximum extent possible, labor and
26 non-labor charges should be direct assigned to entities that are benefiting from such service or
27 good. Specifically, the “Introduction” section of the Algonquin CAM begins by stating:

28 This Cost Allocation Manual (“CAM”) has been completed in accordance
29 and conformance with the *NARUC Guidelines for Cost Allocations and*
30 *Affiliate Transactions* (“NARUC Guidelines”). More specifically, the
31 *founding principles* of this Cost Allocation Manual are to *1) directly*
32 *charge as much as possible to the entity that procures any specific*
33 *service*, and b) to ensure that unauthorized subsidization of unregulated

1 activities by regulated activities, and vice versa, does not occur.
2 (*emphasis added*)

3 Staff's concern of improper direct assignment of labor hours is heightened by its observation that
4 this deficiency is occurring at the highest management level of the APUC organization, where
5 presumably policies, examples, and corporate culture are established. Further, the importance of
6 proper and accurate direct charging of labor cannot be lost upon this highest level of APUC
7 management. It would be this group that would have established the policy and priority of
8 proper and accurate direct timesheet reporting, as these employees/officers would have
9 authorized, if not actually authored, training modules designed to educate all employees of the
10 methods for direct assigning time to benefiting entities, as well as the importance of accurately
11 direct-assigning labor hours. More specifically, in Staff Data Request No. 0140, the Company
12 was requested to:

13 Please provide any manuals, guidelines or other written materials that
14 discuss, describe and instruct how Algonquin Power & Utilities Corp
15 corporate/shared service costs are to be accounted for. Such documents
16 would include, without limitation, any documents that discuss or describe
17 transactions that are to be recorded by "Type of Cost" as set forth within
18 CAM Table 1, as well as any activities, functions or other delineation of
19 cost assignments by account/activity code.

20 Included as part of its response to Staff Data Request No. 0140, the Company provided an
21 *APUC Cost Allocation Compliance Training Module*. The following excerpts would suggest that
22 the Company intends for all of its employees to take seriously its requirement that all employees
23 regularly and accurately direct charge their time to benefiting entities to the maximum extent
24 possible – as was also emphasized within the *Introduction* section of the Algonquin CAM:

25 **Question 3 (Slide Layer)**

26 **What is subsidization?**

27 Subsidization is when a utility pays – directly or indirectly – for the costs
28 of an affiliate when the affiliate should have paid the cost.

29
30 **Remember we need to ensure we do not subsidize an affiliate**
31 _____

32
33 **Question 4 (Slide Layer)**

34 How does subsidization occur?

- 35 • You not charging the correct company for time spent working for that company
36 • You allocating more costs to an entity than is appropriate

1
2
3 **Question 5 (Slide Layer)**

4 How do you prevent subsidization?

5 We prevent subsidization by training employees on how to properly record
6 time and how to properly charge expenses

7
8
9 **1.13 What is the Cost Allocation Manual (CAM)?**

- 10 • What is a direct charge?
- 11 ○ A direct charge is when we charge the company that we are completing
12 work for
-

13
14
15 **1.16 Importance of the CAM**

- 16 • Utility Regulators must approve all costs that will be included in rates
- 17 • This will include costs from affiliates and corporate entities
- 18 • Regulators consider the following:
- 19 ○ Corporate services and associated costs must provide a benefit to the
20 utility customer
- 21 ○ Charges must be supported by invoices / backup
- 22 ○ Costs must be distributed as described in the CAM
-

23
24
25 **1.17 Timesheets / Expenses**

26 How Does This Apply to Me?

- 27 • Ensure timesheets are accurate and timely
- 28 ○ Your timesheet must reflect how you actually spend your time
- 29 ○ Your timesheet must accurately identify the entity or project for which
30 you did work

31 **Reminder: Direct charge where applicable**

32 Given the significant emphasis included within the Algonquin CAM, as well as within the noted
33 CAM compliance training module, that APUC management expects that all employees should
34 regularly, properly, and accurately charge their labor hours to benefiting entities, it is concerning
35 to Staff that at the highest management level of APUC, where policies and examples are
36 established, this management group chose to ignore the very direct-charging instructions that
37 it would otherwise have the Staff – and ultimately this Commission – believe to be
38 regularly occurring.

39 Finally, Staff’s concerns of deficiencies in proper direct timesheet recording are further
40 heightened by the efforts that it was required to expend to obtain APUC timesheets.
41 Specifically, on December 8, 2017, Staff issued Data Request No. 0136 (c) seeking the

1 timesheets for all four APUC positions for all months of the test year, plus additional months
2 available to date subsequent to the end of the historic test year. Staff Data Request No. 0136
3 was issued on December 8, 2017, would have been due pursuant to the Commission's normal
4 20-day-response-time discovery rules by December 28, and was noticed by the Company to be
5 provided no later than January 15, 2018. A partial response to Staff Data Request No. 0136 was
6 first provided on January 19. However, with its initial response to Staff Data Request No. 0136
7 the Company ignored the specific request for APUC timesheets, but instead, referred to other
8 Regulatory Reports being provided with its response to other subparts to Staff Data Request
9 No. 0136 wherein direct loaded labor dollars associated with the four noted APUC
10 employees/officers could be observed.

11 Regarding the loaded labor dollars that the Company was referencing and characterizing
12 as being responsive to other subparts of Staff Data Request No. 0136, it is not possible to
13 determine labor hours by individual – as had been specifically sought within the timesheets that
14 were being requested with subpart (c) of Staff Data Request No. 0136. Accordingly, on
15 January 23, Staff sent an e-mail to Liberty Midstates' Senior Manager, Rates and Regulatory
16 Affairs Ms. Jill Schwartz seeking the APUC timesheets as originally requested within Staff Data
17 Request No. 0136 (c). The e-mail exchange that began with the request for APUC timesheets on
18 January 19, as well as follow-on exchanges occurring through January 25, have been affixed to
19 the Staff Report as Appendix 3, Schedule JRD-d1. Basically, the Staff was initially requesting
20 either specimen copies of timesheets for the four APUC employees/officers for specific months
21 *or* a spreadsheet that would delineate hours charged by month to benefiting entities for all APUC
22 employees/officers for all months beginning July 2016 to date. On February 5, Staff finally *first*
23 received timesheets *only for the month of June 2017* for all APUC employees/officers.
24 On February 18 the Staff finally received the spreadsheet that had be created to capture all the
25 hours being charged by the four APUC executives to benefiting entities for the period June 2016
26 to date.

27 The specimen timesheets provided on February 5 revealed that *all four*
28 *employees/officers assigned the precise number of hours to the exact same entities for each day*
29 *of each week* for the month of June 2017. Such precise charging of identical time to purportedly
30 benefiting entities – for each hour of each day of the month for all four officers/employees
31 demonstrated what Staff had surmised from observing the regularity of APUC loaded labor

1 charges being direct-assigned to Liberty Power, LUCo and Liberty Midstates in each month of
2 the test year and for months available beyond the end of the test year – namely, that *no attempt*
3 *was being made by the employees/officers of APUC to accurately account for their time and*
4 *properly charge benefiting entities.* Staff fully understands that the affiliate transactions data that
5 it sought with requests sent out on December 8 were significant. Accordingly, Staff did not
6 object to the Company’s notice that it would not be responding to all requests issued on
7 December 8 until January 15 (which as discussed above, the Company fell significantly short of
8 fulfilling). That stated, the Company’s extremely slow response time in providing APUC
9 timesheets raises another concern that the Company may have been failing to meet the
10 direct-assignment principles so clearly set forth within its CAM.

11 The Company’s *APUC Cost Allocation Compliance Training Module* discussed above
12 specifically envisioned that its employees would be expected to produce timesheets in rate case
13 proceeding, as noted from the excerpt below also taken from the *APUC Cost Allocation*
14 *Compliance Training Module*:

15 **1.19 Timesheets / Expenses**

16 **Timesheets and Expenses are Discoverable**

- 17
- 18 • “Discoverable” means that (within the context of a rate case) evidence may be
19 requested for a cost that is proposed to be placed in a utility’s rates
 - 20 • A time sheet, or any invoice, could be requested, as time sheets support our
21 labor costs proposed to be in rates
 - 22 • Time sheets may have to be explained and defended to show how your time
23 (and associated cost) was spent providing a service that provided a benefit to
24 customers of that utility

25 The explanation and emphasis on accurate timesheet reporting noted in the training module
26 demonstrates that the Company knew the importance of keeping and providing accurate
27 timesheets – and that it fully understood that its personnel would be expected to provide
28 timesheets and should be able to explain the services being provided to other entities.

1 **2. APUC has not Adequately Supported the Ratepayer Benefits Expected to be**
2 **Derived from its Incentive Compensation Plans, nor has it Supported the**
3 **Overall Reasonableness of its Executive Compensation Package**

4 With Data Request No. 0188, Staff sought information regarding any incentive
5 compensation plan in effect for Liberty Midstates and for any upstream service affiliate for
6 which labor charges are being direct-assigned or allocated to Liberty Midstates operations.
7 Staff Data Request No. 0188 is a broad, multi-part request that sought, without limitations, items
8 such as:

- 9 • Plan Documents and/or Plan Summaries
- 10 • Scorecards to identify goals established as well as to measure
11 achievement of goals in recent periods
- 12 • Theoretical maximum payouts and actual payouts/awards granted in
13 recent period.

14 Staff Data Request No. 0188 was issued on December 22, 2017, and, under the Commission's
15 discovery rules, should have been provided by January 11, 2018. The Company did not object to
16 responding to Staff Data Request No. 0188, nor did the Company seek additional time to respond
17 to the noted request. On February 26, 66 days after it was submitted to the Company, Liberty
18 Midstates provided a response to Staff Data Request No. 0188. The information provided is
19 incomplete, and accordingly, Staff will be requesting Liberty Midstates to supplement its
20 response to Staff Data Request No. 0188 and/or be following up with supplemental written
21 discovery attempting to obtain what it intended to receive when issuing Staff Data Request
22 No. 0188.

23 Within the historic test year ending June 30, 2017 the four executives working at the
24 APUC level cumulatively received total compensation in excess of \$7.5 million. The majority of
25 such compensation came in the form of bonuses, long term incentive plan awards, and stock
26 options. These types of costs have been subject to disallowance in prior Missouri utility rate
27 proceedings, particularly when such compensation is directly tied to achievement of financial
28 metrics (earnings per share targets, for example). However, the information provided to date by
29 the Company has not sufficiently explained the basis on which bonuses, long-term incentive plan
30 awards and stock options are paid to APUC executives, and thus whether such costs are
31 allowable in Missouri customer rates under traditional Commission standards. The goals and

1 support for the bonuses and long term incentive plan awards should be provided whenever the
2 Company fully responds to Staff Data Request No. 0188. However, Staff sought additional
3 support for APUC executive bonuses, long term incentive plan awards, and stock option awards
4 within data requests issued on February 2, 2018. As of the time this Staff Report was being
5 reviewed in final form prior to production, the Company had not yet responded to the executive
6 compensation requests that were issued on February 2, 2018.

7 The 75% disallowance of APUC executive compensation is being proposed, in part,
8 because Staff has not yet received any support for the significant level of APUC executive
9 compensation awarded during the historic test year. As noted elsewhere within this Staff
10 Report, pending receipt and review of outstanding data requests, Staff may revise its APUC
11 executive compensation adjustment in subsequent testimony filings expected to be made within
12 this docket.

13 **3. Staff has been Unable to Determine if the Cost of Acquisition Efforts are Being**
14 **Fully Tracked and Retained at any Upstream Service Affiliate**

15 It is Staff's position that all costs incurred in researching, negotiating, and closing utility
16 system acquisitions that are being considered and/or that are actually being acquired by APUC
17 should *not* be charged to regulated utility customers. Similarly, any costs incurred by APUC or
18 any of its service affiliates in developing or acquiring new generation resources that would be
19 owned and operated by Liberty Power should, likewise, not be charged in whole or in part to
20 regulated utility customers. Merger and acquisition efforts are undertaken primarily for the
21 benefit of APUC's shareholders, and accordingly, the cost of such efforts should not be passed
22 on to captive customers served by regulated utilities such as Liberty Midstates - MO operations.
23 Staff's position on the ratemaking treatment to be afforded merger and acquisition efforts is
24 consistent with this Commission's precedent established within UtiliCorp United Case No.
25 ER-97-394

26 Within numerous publicly-distributed statements, APUC has stated its intentions to grow
27 its earnings and business holdings, in part, through acquisitions of electrical energy generation
28 facilities and additional utility systems. For instance, in its 2014, 2015, and 2016 Annual
29 Information Forms filed with the Ontario Securities Commission, APUC has stated its intentions
30 to grow its non-regulated renewable power generation and clean energy power generation
31 (i.e., Liberty Power) through development of new generation projects and "accretive acquisitions

1 of additional electrical energy generation facilities.”⁸ Additionally, APUC has stated its
2 intentions to grow its regulated utility services business (i.e., Liberty Utilities Co.) through
3 organic service territory growth as well as through “accretive acquisitions of additional utility
4 systems.”⁹ In addition to the two acquisitions that this Commission is aware of – namely, the
5 acquisition of Liberty Midstates - MO operations from Atmos Energy in 2014 and The Empire
6 District Electric Company acquisition that closed in the beginning of 2017, APUC has in recent
7 years made numerous other utility systems purchases, as well as purchased and/or developed
8 other non-regulated electric generating facilities. Finally, within its 2017 Company Plan which
9 was provided in response to Staff Data Request No. 0007, APUC indicated that Liberty Power as
10 well as LUCo were each targeting to invest \$600 million annually in new assets.

11 Given APUC’s recent acquisitions history, as well as its stated intentions to grow, in part,
12 through additional acquisitions, it is clear that to some fairly significant extent, APUC is *in the*
13 *business of developing and acquiring businesses*. What is not clear to Staff is the extent to which
14 APUC or any other service affiliates are properly and adequately direct-assigning time to
15 researching, negotiating, and closing potential and actually-consummated acquisitions. Further,
16 Staff’s understanding from discussions with Liberty Midstates’ rate and accounting personnel is
17 that work orders are established, at some point in the acquisition process, to capture costs being
18 incurred in pursuing acquisitions. However, as of the time this Staff Report was being finalized,
19 Staff has not received responses to discovery that would reveal at what point in the
20 researching/negotiating/closing process such costs begin to be charged to a designated
21 acquisition work order. Further, Staff has not been able to verify the ultimate accounting
22 disposition of costs incurred in researching, negotiating, and closing acquisition targets. More
23 specifically, Staff has not been able to ascertain whether such costs are being charged to a capital
24 project, written off below-the-line either at the APUC parent-company level or perhaps at some
25 other APUC subsidiary level, or if such charges are ultimately being pushed down to all or
26 specific APUC/LUCo holdings.

27 Staff Data Request No. 0146 sought the following information for each utility system
28 purchased by APUC for the period January 2015 to date:

⁸ Algonquin Power and Utilities Corp Annual Information Form dated March 10, 2017, p.9.

⁹ *Id.*

- 1 a. List and describe each acquisition noting its physical location, and as
2 applicable, the regulatory jurisdiction wherein such utility/utility asset
3 provides service
- 4 b. Total cost of each acquisition
- 5 c. Closing date of each acquisition
- 6 d. Total costs incurred in researching, negotiating and closing the
7 purchase – delineating total internal loaded labor cost versus external
8 costs incurred.
- 9 e. A breakout of total internal loaded labor costs by officer/employee,
10 noting the name, title and Algonquin Power & Utilities Corp
11 subsidiary or business unit where each officer/employee is employed
- 12 f. The ultimate accounting for all costs incurred in researching,
13 negotiating and closing the purchase, noting balance sheet and income
14 statement accounts charged by company/subsidiary/affiliate/business
15 unit as may be applicable

16 In response to Staff Data Request No. 0146, the Company briefly identified three utility systems
17 purchased in the 2015-to-date timeframe – one of which being Empire which closed at the
18 beginning of 2017. The Company’s response ignored the request for subparts b. through f. of
19 Staff Data Request No. 0146 wherein additional data regarding the size of each acquisition was
20 requested, as well as specific information addressing both the cost of acquiring such facilities, as
21 well as the ultimate accounting disposition of the costs incurred in acquiring such systems.
22 Instead, the Company merely stated:

23 As stated in the Company’s response to MPSC DR 0144, acquisition costs
24 are recorded on APUC’s books and are not allocated to the operating
25 utilities, including Liberty Utilities (Midstates Natural Gas) Corp.

26 On several occasions, Staff has requested the Company to supplement and completely respond to
27 all elements of Staff Data Request No. 0146. No supplemental response has been provided as of
28 the date that this Staff Report was being finalized.

29 While the Company has claimed that acquisition costs are being retained at
30 the APUC level, Staff is concerned that such costs, or certainly not *all* such costs, being
31 incurred in researching, negotiating, and closing actual as well as once-studied-but-never-
32 consummated-acquisitions, are being retained at the APUC level (i.e., not being charged down
33 to utility systems such as Liberty Midstates - MO operations as some element of
34 “administrative services”). Such concern arises, in part, as a result of the Company’s inability to
35 timely provide all the materials requested in Staff Data Request No. 0146.

1 Additionally, APUC files a Form 60 with the Federal Energy Regulatory Commission
2 which provides total central services expenses incurred at the highest APUC corporate level, as
3 well as total charges billed to downstream benefiting subsidiaries or affiliates. According to the
4 2016 FERC Form 60, the difference between central services expenses incurred at APUC and
5 central services expenses billed to downstream subsidiaries or affiliates, was only \$21,448.
6 In other words, the data provided within the FERC Form 1 indicates that only \$21,448 was
7 retained at the APUC level – all other APUC services costs would have been pushed down to
8 downstream affiliates. Such small amount of costs being retained at the APUC level does not
9 appear to be credible given that the significant Empire purchase occurred in 2016. It is possible
10 that the costs of researching, negotiating, and closing the Empire acquisition were capitalized, or
11 perhaps “retained” at some other service entity level (i.e., LUC, LUSC or LABS) below APUC.
12 Nonetheless, the small amount of costs not being charged out to affiliates, as reported within the
13 2016 FERC Form 60, also leads Staff to have concerns that the cost of APUC’s significant
14 merger and acquisition efforts are *not* being fully retained at the APUC or other service-entity
15 level. ** _____
16 _____
17 _____
18 _____
19 _____
20 _____
21 _____
22 _____
23 _____ **

24 In summary, Staff has concerns that APUC is *not fully tracking all costs* – including
25 external as well as internal – incurred in researching, negotiating, and closing utility system
26 acquisitions, new electric generating facilities, and new business development projects.
27 Additionally, Staff has concerns that APUC is *not retaining* all costs incurred in researching,
28 negotiating, and closing utility system acquisitions, new electric generating facilities, and new
29 business development projects.

1 **4. Charges for Upstream Service Affiliates are Disjointed, Not Easily Aggregated**
2 **for Trends or Aberrations Analysis, and Cannot be Reasonably Analyzed**
3 **Within the Time Constraints of a Rate Case Procedural Schedule**

4 The Company was unable to provide basic test year and post-test year support for
5 upstream service affiliates’ “total entity,” Liberty Midstates, or “Liberty Midstates - MO
6 operations” direct-assigned and allocated charges in a timely fashion. Further, the test year and
7 post-test year affiliate costs and allocation support, once eventually provided, was disjointed,
8 voluminous, and could not reasonably be reviewed in meaningful detail within the procedural
9 schedule timeframe that must be adhered to given the Missouri eleven-month statutory operation
10 of law date.

11 The voluminous and largely-disjointed cost support eventually provided required
12 Liberty Midstates personnel to spend several hours explaining to Staff what had been provided,
13 and how the information tied together to support test year and post-test year charges to
14 Liberty Midstates - MO operations. On the one hand, Staff recognizes, and is appreciative of,
15 the significant efforts that Liberty Midstates’ rate and accounting personnel undertook to
16 provide the volumes of data required to support test year and post-test year charges to
17 Liberty Midstates - MO operations. But on the other hand, Staff submits that much of this
18 information should have been immediately available when Liberty Midstates’ Missouri rate
19 application was filed, but in any event, much quicker than the approximate 40-day period that
20 Liberty Midstates took to provide such basic supporting cost information.

21 Further, Staff submits that APUC’s present aggregation and report writing limitations
22 prohibit expeditious month-to-month and year-over-year comparison of costs by specific
23 subcategories, and as assigned/allocated to benefiting entities. Such limitations severely impede
24 Staff’s ability to quickly observe trends or aberrations in multiple months/years of affiliate
25 service charges to benefiting entities. Additionally, given the disjointed nature of cost support
26 provided, the materiality of costs by specific cost categories cannot be quickly assessed for
27 multi-month and multi-year periods. Inability to quickly identify the cost categories that most
28 materially impact charges being assigned/allocated to Liberty Midstates - MO operations
29 impedes Staff’s ability to efficiently analyze the reasonableness of test year charges and/or
30 proforma expense levels being proposed by Liberty Midstates to be reflected in the development
31 of Liberty Midstates - MO operations’ retail rates.

1 Liberty Midstates’ slow response time, and the voluminous and disaggregated format of
2 cost support provided for upstream service affiliates, in conjunction with the resources Staff had
3 to assign to discovery disputes, have significantly impeded Staff’s ability to analyze the
4 reasonableness of affiliate charges being proposed by Liberty Midstates to be recovered in
5 Missouri retail rates. As a result, Staff is recommending within Subpart E of this Affiliate
6 Transactions Section of the Staff Report a number of report writing requirements.

7 **5. It is Unclear How, and to What Extent, Upstream Service Affiliates are**
8 **Monitoring and Controlling Costs**

9 In the review of utility base rate applications, Staff routinely requests the utility to
10 provide budget variance reports and other financial reports that are regularly prepared for
11 management, including requests for separate reports for various utility departments and/or
12 business units that may have been established. Information provided in regularly prepared budget
13 variance and other internal financial/statistical reports prepared for management assists the Staff
14 in identifying aberrations in revenues, expenses, and construction expenditures that may require
15 additional investigation and possible adjustment to reflect “ongoing and normal” conditions.
16 Such reports and financials also assist Staff in gaining an understanding of how utility executives
17 “manage” the business – including the management of separate business units, departments, or
18 other designated reporting entities. Staff has diligently sought to obtain budget variance reports
19 and any other regularly prepared financial statements that are created for each upstream service
20 affiliate. To be clear, Staff has never requested that the Company or any upstream service
21 affiliate “prepare” or “create” a budget variance report or financial report not in existence.
22 Rather, Staff has simply and steadfastly attempted to obtain budget variance and other financial
23 reports that are *routinely prepared* and reviewed by management. As of the time this Staff
24 Report was being finalized, the only financial and budget variance reports that have been
25 provided are spreadsheet analyses, prepared for each upstream service affiliate, for the annual
26 periods of 2015, 2016, and 2017. The information provided is aggregated at very high summary
27 level of cost categories, and provides no narrative explanation of why budget variances at the
28 high-aggregation level have occurred. Further, Staff’s understanding is that the spreadsheet that
29 has been provided is not a “regularly prepared” document, but rather, represents a data pull
30 undertaken by the Company in an attempt to be responsive to Staff’s requests for budget
31 variance and regularly-prepared financial statements for each upstream service affiliate.

1 Notwithstanding Staff’s continuing requests for the Company to provide budget variance reports
2 and regularly prepared financial statements “in existence,” as of the time this Staff Report was
3 being finalized, no additional information has been provided to Staff.

4 Lack of ability or willingness to provide meaningful budget variance and financial reports
5 at each upstream service affiliate level is concerning to Staff. At this point Staff has been unable
6 to observe how, where, and to what degree the upstream service affiliates are tracking – much
7 less controlling and managing their costs.

8 **D. Additional Explanation and Support for Staff’s Adjustment for Upstream**
9 **Service Affiliates Costs**

10 A brief discussion of the Staff’s adjustment for upstream service affiliates cost was
11 presented within Part B of this Affiliate Transactions Section of the Staff Report.
12 More explanation and support for the Staff’s adjustment, as calculated at this point in time, are
13 being presented herein.

14 During the historic test year, Liberty Midstates - MO operations were charged \$470,808
15 for APUC services labor costs. At this point in in time, Staff is proposing to reduce test year
16 recorded APUC corporate/shared services labor costs by 75%. The 75% disallowance is based
17 on the following three elements:

- 18 • It is clear that APUC employees and officers were not correctly and accurately
19 direct-assigning their time during the historic test year to benefiting entities. See
20 discussion in Section C.1. Without accurate direct-timesheet reporting, Staff does
21 not accept that APUC labor costs assigned Liberty Midstates is accurate or
22 reasonable.
- 23 • It is likely that much of the time of executives at the APUC service entity level is
24 spent on researching, negotiating, and closing utility systems and electric
25 generating facility acquisition, as well as pursuing other business development
26 opportunities. See discussion in Section C.4. Further, it is probable that APUC
27 is not fully retaining all costs incurred in efforts to research, negotiate, and
28 close utility systems and utility asset acquisitions. Accordingly, a portion
29 of 75% disallowance is associated with the Staff’s concern that the significant
30 cost of efforts incurred in acquiring new properties have not been “retained” at the
31 APUC level.

- As noted within Section C.2, as of this point in time, APUC has not demonstrated that its incentive compensation programs are providing a benefit to ratepayers. Further, APUC has not supported the overall reasonableness of its executive compensation. Accordingly, a portion of the proposed 75% disallowance of test year APUC services labor costs is attributable to APUC's failure to support various elements of its compensation plan, as well as the overall reasonableness of its executive compensation program.

Additionally, as described at the outset of this section of the Staff Report, the Company proposed to adjust certain elements, but not all elements, of charges being direct-assigned and indirect-allocated from upstream service affiliates. Reviews to date suggest that a reduction in overall upstream service affiliates is being charged to Liberty Midstates operations in the post-test year timeframe. Given probable synergies and economies of scale that could be expected to be realized with the Empire acquisition, Staff believes it is reasonable to anticipate that Liberty Midstates - MO operations will experience a net reduction in the test year level of upstream service affiliates charges. Accordingly, at this point in time, another element of Staff's affiliate transactions adjustment "annualizes" the "net" decline in post-test year upstream service affiliates costs being charged to Liberty Midstates - MO operations that have been realized since July 2017 - or the time by which the reorganizations following the significant Empire acquisition would have been fully implemented. More specifically, the third element of Staff's affiliate transactions adjustments divides the sum of the July 2017 through November 2017 actual upstream service affiliates'¹⁰ O&M expense charges to Liberty Midstates by five (i.e., total number of actual months' data accumulated available at the time the Staff Report was being prepared) and multiplies such monthly-average amount times twelve (i.e., to derive a full annual expense allowance). Thus, the third element of Staff's affiliate transaction adjustment replaces test year actual upstream service affiliate O&M expense charges with the calculated post-Empire-acquisition proforma level of upstream service affiliates' O&M expense charges being experienced in the post-test year timeframe.

¹⁰ LUC, LABS, LUSC, and ELABS charges were annualized employing the methodology discussed herein. As previously described, APUC service charges were only adjusted to eliminate 75% of test year actual labor O&M expense charges.

1 **E. Staff Recommendations to Facilitate More Expeditious Discovery**
2 **Responses, and to Achieve a More Detailed and Efficient Audit of**
3 **Upstream Service Affiliates’ Costs to Liberty Midstates in Future**
4 **Missouri Base Rate Proceedings**

5 Because of the slowness in discovery response time, concerns regarding failure to
6 adequately direct-assign employees’ and officers’ labor hours, as well as the disjointed and
7 “unfriendly” nature of cost support that has been provided for Liberty Midstates charges from
8 upstream service affiliates in this proceeding, Staff is concerned that adequate records are not
9 being maintained by Liberty Midstates’ upstream affiliates, as required by the Commission’s
10 Affiliate Transaction Rules.¹¹ Therefore, Staff recommends that APUC/LUCo:

- 11 • develop additional report writing capabilities from the Company’s accounting
12 records,
- 13 • implement positive time sheet reporting with some additional documentation
14 requirements,
- 15 • establish work orders immediately when a business acquisition is being
16 considered and/or a business project is being considered for development,
- 17 • undertake regular internal audits of employees’ and executives’ timesheet
18 recording.

19 Given the lack of timeliness in responding to discovery, the quality of discovery responses
20 received, as well as the deficiencies in direct timesheet reporting observed, each recommendation
21 is warranted, and Staff plans to make the same recommendations in the CAM case (Case No.
22 AO-2017-0360).

23 **1. Recommended Report Writing Capabilities**

- 24 1. Costs from each upstream affiliate providing business services, for annual and
25 multi-month periods as maybe requested, within one executable spreadsheet, further
26 broken out into:
 - 27 a. Total direct costs incurred, before assignment to benefiting affiliates, further
28 broken down into categories of:

¹¹ 4 CSR 240-40.015(5).

- 1 i. Labor and labor-related (benefits, taxes, and other burdens typically
 - 2 associated with, and loaded onto, straight hourly wages)
 - 3 ii. Non-labor costs
 - 4 b. Total indirect-allocable costs incurred, before assignment to benefiting affiliates,
 - 5 further broken down into categories of:
 - 6 i. Labor and labor-related (benefits, taxes, and other burdens typically
 - 7 associated with, and loaded onto, straight hourly wages)
 - 8 ii. Non-labor costs
 - 9 c. Direct costs assigned to *each* benefiting affiliate, also further broken down into
 - 10 the categories of:
 - 11 i. Labor and labor-related (benefits, taxes, and other burdens typically
 - 12 associated with, and loaded onto, straight hourly wages)
 - 13 ii. Non-labor costs
 - 14 d. Indirect costs allocated to *each* benefiting affiliate, also further broken down into
 - 15 the categories of:
 - 16 i. Labor and labor-related (benefits, taxes, and other burdens typically
 - 17 associated with, and loaded onto, straight hourly wages)
 - 18 ii. Non-labor costs
 - 19 2. Extraction of costs by “Account Number,” “Account Descriptions,” and other
 - 20 designations that may arise prospectively for annual and multi-month periods as may
 - 21 be requested, by upstream service affiliate, within one executable spreadsheet, before
 - 22 direct assignment or allocation to downstream subsidiaries and affiliates.
 - 23 3. Incentive compensation components by incentive plan by upstream service affiliate
 - 24 for annual and multi-month periods as may be requested, in one executable
 - 25 spreadsheet, in total, and as:
 - 26 a. Direct assigned to each benefiting affiliate
 - 27 b. Allocated to each benefiting affiliate.
 - 28 4. Identification and quantification of any costs that may be being retained at any
 - 29 upstream service affiliate, for annual and multi-month periods as may be requested,
 - 30 in one executable spreadsheet

1 **2. Timesheet Reporting**

2 – for any officer or employee at APUC, as well as service affiliates below the APUC
3 level, that routinely work on both unregulated Liberty Power operations as well as Liberty
4 Utilities Co. regulated utility operations:

- 5 1. Positive time sheet reporting for all hours of the year. In other words, no
6 “exception” timesheet reporting. No hours will be permitted to automatically fall to
7 a “residual” or “home” account or activity. All hours should be assigned to some
8 activity with a written description of activities undertaken.
- 9 2. Positive time sheet reporting should designate various work products produced or
10 being worked on.
- 11 3. Timesheets should be retained in electronic format, with proper cataloguing for
12 quick identification and retrieval during the discovery phase of a rate case procedural
13 schedule.

14 **3. Mergers and Acquisitions Accounting**

15 Whenever any company/investment/new development project is being considered for
16 acquisition or development, one or more work orders should be established to capture 1) all costs
17 of investigating such potential acquisition/development project, 2) all costs incurred to facilitate
18 the acquisition, 3) all cost incurred seeking regulatory approvals, 4) all costs incurred for closing
19 each transaction, 5) all transaction costs incurred in closing the acquisition/development project,
20 as well as 6) all costs incurred in transitioning the operations of the newly acquired/developed
21 utility system/generating facility/project into Algonquin Power & Utilities Corp operations. Such
22 work order(s) should capture all costs for outside services, as well as all loaded payroll costs of
23 any employees/officers working at APUC or within any APUC subsidiary or service affiliate.
24 Further, the disposition of all costs initially charged to any work orders established to capture
25 any cost categories delineated above should be retained by entity charged, by month, and by
26 FERC account. The accounting requirements set forth herein will not dictate the ratemaking
27 treatment that should automatically be afforded such costs. However, it is imperative that all
28 internal and external costs incurred in researching, negotiating, and closing a business
29 acquisition/development project be accurately tracked.

1 **4. Periodic Internal Audits of Timesheets Required for**

- 2 1. All officers/employees at APUC and all officers/employees working at service
3 affiliates who routinely work on both unregulated Liberty Power operations as well
4 as Liberty Utilities Co. regulated utility operations.
- 5 2. Liberty Utilities (Canada) Corp Business Services – Two highest paid
6 employees/officers working on the following “Type of Cost” as listed on Table 4a of
7 the Algonquin CAM:
8 a. Human resources
9 b. Executive and Strategic Management
10 c. Utility Planning
- 11 3. Liberty Utilities (Canada) Corp Corporate Services – Two highest paid
12 employees/officers working on the following “Type of Cost” as listed on Table 4b of
13 the Algonquin CAM:
14 a. Financial Reporting, Planning, and Administration
15 b. Treasury
16 c. Legal Costs
- 17 4. Liberty Utilities Service Corp – Two highest paid employees/officers working on the
18 following “Shared Services” delineated on Table 5 of the Algonquin CAM:
19 a. Legal
20 b. Regulatory & Governmental Relations
21 c. Utility Planning

22 *Staff Witness/Expert: James R. Dittmer*

23 ***IX. Income Statement***

24 **A. Missouri Jurisdictional Rate Revenues**

25 **1. Introduction**

26 The following describes how Staff determined the amount of Liberty Midstates – MO’s
27 adjusted operating revenues for its three rate districts (WEMO, SEMO, and NEMO). Since the
28 largest component of operating revenue is a result of rates charged to Liberty Midstates – MO’s
29 retail customers, a comparison of operating revenues with the cost of service is fundamentally a

1 test of the adequacy of the currently effective retail gas rates to meet Liberty Midstates – MO’s
2 current costs of providing utility service.

3 One of the major tasks in a rate case is to determine the magnitude of any deficiency
4 (or excess) between a company’s cost of service and its operating revenues. Test year revenues
5 need to be appropriately normalized and annualized in order to accurately measure the amount of
6 any deficiency (or excess) in the current level of operating revenues. Once determined, the
7 deficiency (or excess) can only be made up (or otherwise addressed) by adjusting retail rates
8 (i.e., rate revenue) prospectively.

9 In order to calculate Liberty Midstates – MO’s retail jurisdictional revenue deficiency
10 (or excess), it is necessary to determine and sum all annualized and normalized Missouri
11 jurisdictional operations and maintenance expenses, all income tax and other tax expenses, and
12 annualized depreciation expenses. Additionally, a return requirement is determined by
13 multiplying a recommended weighted overall cost of capital by Liberty Midstates – MO’s retail
14 jurisdictional investment in plant, working capital, and various other investment components
15 (i.e., rate base). The sum of all Missouri retail jurisdictional expenses and the Missouri retail
16 jurisdictional return requirement are then compared to normalized and annualized “revenues at
17 existing rates” to determine the Missouri retail jurisdictional base rate revenue deficiency
18 (or excess).

19 **2. Character of Liberty Midstates – MO’s Retail Sales**

20 All three of Liberty Midstates - MO’s rate districts serve primarily small cities or towns
21 in rural areas. Further, the vast majority of all three rate districts’ sales are made to residential,
22 small general service and medium general service customers whose loads are affected by
23 weather (i.e., heating degree days).

24 **3. Development of Revenues in this Case**

25 To determine the appropriate amount of revenue to include in the cost of service
26 calculation for the NEMO, WEMO, and SEMO districts, Staff applied standard ratemaking
27 adjustments to normalize the gas usages and customer levels. These adjustments were necessary
28 to determine the amount of revenue that Liberty Midstates - MO would collect under normal
29 weather conditions, gas usage, and customer levels. The intent of Staff’s adjustments to test year
30 Missouri usage and rate revenues is to determine the level of revenue Liberty Midstates – MO

1 would have collected annually, based on information “known and measurable” at the end of the
2 test year for the 12 months ended June 30, 2017, updated for known and measurable changes
3 through December 31, 2017. There also will be a true-up in this case through March 31, 2018.

4 **4. Customer Growth**

5 Staff has annualized customer growth for the residential, small general service, medium
6 general service, and large general service customer classes of Liberty Midstates - MO’s three
7 rate districts. There are two components to Staff’s revenue annualization: the base charge and
8 the commodity charge. The base charge, which is the minimum monthly charge assessed to
9 customers for supplying service, is determined by multiplying Staff’s annualized customer count
10 by the current monthly base charge authorized in Liberty Midstates’ Missouri tariffs.
11 The commodity charge is a fee paid to Liberty Midstates - MO based upon the usage of the
12 customer and is determined by multiplying Staff’s normalized customer count times Staff’s
13 weather normalized usage.

14 In determining the annualized customer level for the above customer classes, Staff
15 reviewed the historical customer levels of Liberty Midstates - MO for trends. For the customer
16 classes that exhibited an upward or downward trend, Staff has made an adjustment to reflect the
17 change in revenue that would have occurred if the number of customers taking service at the end
18 of the December 31, 2017, updated period had existed throughout the test year. Staff did this by
19 either reflecting the actual number of customers that existed during the 12 month update period
20 or by taking the number of customers that existed in the month of December 2017 as the number
21 of customers that would exist in each month of the year. The following chart summarizes Staff’s
22 recommended customer levels:
23

Actual Number of Customers in Calendar Year 2017

WEMO: Residential, Small General Service Commercial, Large General Service (all)
NEMO: Residential, Small General Service Commercial, Medium General Service
Commercial, Large General Service (all)
SEMO: Residential, Small General Service Commercial, Medium General Service
Commercial, Medium General Service Industrial, Large General Service (all)

Number of Customers in December 2017 as Normal Monthly Level

WEMO: Medium General Service Commercial
NEMO: Medium General Service Industrial, Medium General Service Transportation
SEMO: Small General Service Transportation, Medium General Service Transportation

1 Staff will continue to review all customer levels through the March 31, 2018, true-up date in this
2 case and will address all such changes as part of its true-up audit.

3 *Staff Witness/Expert: Jason Kunst, CPA*

4 **B. Other Revenue Adjustments**

5 **1. Removal of Test Year Gas Costs from Revenues and Expense**

6 Liberty Midstates - MO's gas costs are collected through a Purchased Gas Adjustment
7 (PGA) clause, which allows the cost of purchased gas to be passed through to the customers
8 through a surcharge. All components of the PGA are audited annually by the Commission
9 Staff's Procurement Analysis Department as part of Actual Cost Adjustment (ACA) filings.

10 Staff has made an adjustment to remove all purchased gas costs and revenues incurred in
11 the test year. Liberty Midstates - MO did not include purchased gas revenues or expenses in its
12 direct filing and is not seeking recovery of these costs in this proceeding.

13 *Staff Witness/Expert: Jason Kunst, CPA*

14 **2. Infrastructure System Replacement Surcharge ("ISRS") Reconciliation**

15 As a result of its previous ISRS cases, GO-2015-0350 and GO-2016-0206,
16 Liberty Midstates - MO was authorized to collect approximately \$470,184 in ISRS revenues on a
17 total company basis. Commission rule 4 CSR 240-3.265(17) requires a natural gas utility, on an
18 annual basis, to reconcile the differences between the revenues resulting from the ISRS and the
19 appropriate pretax revenues as found by the Commission for that period, and to submit a
20 reconciliation and proposed ISRS rate schedule revisions to the Commission for approval to
21 recover or refund the difference, as appropriate. Since the time of the June 10, 2016, effective
22 date of the ISRS surcharge established in Case No. GO-2016-0206, Liberty Midstates - MO has
23 not filed the required reconciliation. Instead, Liberty Midstates - MO filed direct testimony in
24 the current rate case seeking to recover the under-collected ISRS amounts in this proceeding.
25 Staff opposes this approach, and instead recommends that Liberty Midstates - MO perform the
26 ISRS reconciliation as part of its first ISRS filing following the current rate case.

27 *Staff Witness/Expert: Jason Kunst, CPA*

1 **3. Removal of ISRS Revenues**

2 Liberty Midstates - MO currently collects ISRS revenue through a Commission approved
3 surcharge that was last determined in Case GO-2016-0206. During a rate case, ISRS investment
4 and related costs are included in the cost of service calculation to determine permanent rates, and
5 the ISRS surcharge is reset to zero. Staff has removed the ISRS revenues that were collected in
6 the test year from its cost of service calculation.

7 Liberty Midstates - MO has chosen to reflect annualized revenues in its presentation of
8 total test year revenues and annualized revenues based upon the ISRS that was in effect at the
9 time of its original direct filing. Staff does not perceive in this proceeding an issue between itself
10 and Liberty Midstates - MO regarding ISRS revenues or the design of base rates as they relate to
11 ISRS. The difference between the Company and Staff is merely in the presentation of the
12 calculated revenue deficiency. Liberty Midstates - MO's presentation of revenue deficiency
13 reflects a rate increase above the currently authorized collection of permanent rates and ISRS
14 revenue. The effect of Liberty Midstates - MO's presentation understates the actual increase in
15 permanent rates that is required and erroneously assumes that all authorized ISRS collections
16 will automatically be reflected in permanent rates in any given rate case. The ISRS collection is
17 an "interim" revenue collection that is not part of permanent rates until authorized for inclusion
18 by the Commission in a rate case. Therefore, it is Staff's position that it is more appropriate to
19 present a revenue deficiency that reflects a rate increase only above existing permanent rates. In
20 the future, Staff recommends that Liberty Midstates - MO present the percentage of rate increase
21 requested based upon a calculation of the increase in permanent rates.

22 *Staff Witness/Expert: Jason Kunst, CPA*

23 **4. Unbilled Adjustment**

24 Liberty Midstates – MO records unbilled revenue on its books to recognize the sales of
25 gas that have occurred, but have not yet been billed to the customers. Staff has removed unbilled
26 revenues in its computation of annualized revenues in order to accurately determine a normalized
27 and annualized level of revenue to include in the revenue requirement calculation.

28 *Staff Witness/Expert: Jason Kunst, CPA*

1 **5. Revenue - Weather Normal Variables Used for Weather Normalization**

2 Natural gas usage and revenue vary from year to year based on weather conditions.
3 The temperature pattern in the test year is the primary determinant for weather-sensitive
4 customers’ gas usage and the Company’s revenue in the test year. Each year’s weather is
5 unique, so rates for weather-sensitive customer classes must be based on test year usage and
6 revenue adjusted to a level commensurate with “normal” weather conditions, rather than actual
7 test year usages and revenue.

8 **a) Weather Variables**

9 Staff obtained weather data from the Midwest Regional Climate Center (MRCC).¹²
10 Kansas City International Airport (“MCI”) weather data was used for the WEMO division, while
11 the Kirksville (“KIR”) weather data was used for the NEMO division. The Cape Girardeau
12 Airport (“CGI”) weather data was used for the SEMO division. The weather data sets consist of
13 actual daily maximum temperature (“T_{max}”) and daily minimum temperature (“T_{min}”) observations.
14 Staff used these daily temperatures to develop a set of normal mean daily
15 temperature (“MDT”)¹³ values.

16 Natural gas sales are predominantly influenced by “ambient air temperature,”¹⁴ so MDT
17 and the derivative measure, heating degree days (“HDD”),¹⁵ are the measures of weather used in
18 adjusting test year natural gas sales. HDDs were originally developed as a weather measure that
19 could be used to determine the relationship between temperature and gas usage. HDDs are
20 based on the difference of MDT from a comfort level of 65°F. HDDs are calculated as the
21 difference between 65°F and MDT when MDT is below 65°F, and are equal to zero when MDT
22 is above 65°F.

23 **b) Normal Weather**

24 According to the National Oceanic and Atmospheric Administration (“NOAA”), a
25 climate “normal” is defined as the arithmetic mean of a climatological element computed over

¹² <http://mrcc.isws.illinois.edu/CLIMATE/>.

¹³ By National Climatic Data Center convention, MDT is average of daily maximum temperature (T_{max}) and daily minimum temperature (T_{min}) e.g. $MDT = (T_{max} + T_{min}) / 2$.

¹⁴ Ambient air temperature is the outside temperature of the surrounding air without taking into account the humidity or wind in the air.

¹⁵ Where $MDT < 65^{\circ}F$, $HDD = 65 - MDT$; otherwise, $HDD = 0$.

1 three consecutive decades.¹⁶ In developing climate normal temperatures, the NOAA focuses on
2 the monthly maximum and minimum temperature time series to produce the serially-complete
3 monthly temperature (“SCMT”) data series.¹⁷

4 Staff utilized the SCMT published in July 2011 by the National Climatic Data Center
5 (“NCDC”) of the NOAA. For the purposes of normalizing the test year gas usage and revenues,
6 Staff used the adjusted T_{\max} and T_{\min} daily temperature series for the 30-year period of January 1,
7 1987, through December 31, 2016, at MCI, KIR, and CGI. The series are consistent with
8 NOAA’s SCMT during the most recent NOAA 30-year normal period ending 2010.

9 There may be circumstances under which inconsistencies and biases in the 30-year time
10 series of daily temperature observations occur, (e.g. such as the relocation, replacement, or
11 recalibration of the weather instruments). Changes in observation procedures or in an
12 instrument’s environment may also occur during the 30-year period. The NOAA accounted for
13 documented and undocumented anomalies in calculating its SCMT.¹⁸ The meteorological and
14 statistical procedures used in the NOAA’s homogenization for removing documented and
15 undocumented anomalies from the T_{\max} and T_{\min} monthly temperature series is explained in a
16 peer-reviewed publication.¹⁹

17 Subsequent to determining the homogenized monthly temperature time series described
18 above, the NOAA also calculates monthly normal temperature variables based on a 30-year
19 normal period, e.g. maximum, minimum, average temperatures, and HDDs. These monthly
20 normals are not directly usable for Staff’s purposes because the NOAA daily normal
21 temperatures and HDD values are derived by statistically “fitting” smooth curves through these
22 monthly values. As a result, the NOAA daily normal HDD values reflect smooth transitions
23 between seasons and do not directly relate to the 30-year time series of MDT as used by Staff.

¹⁶ Retrieved on October 17, 2013, <https://www.ncdc.noaa.gov/data-access/land-based-station-data/land-based-datasets/climate-normals>.

¹⁷ Retrieved on October 17, 2013, <http://www1.ncdc.noaa.gov/pub/data/normals/1981-2010/source-datasets/>. The SCMT, computed by the NOAA, includes adjustments to make the time series of daily temperatures homogeneous.

¹⁸ Arguez, A., I. Durre, S. Applequist, R. S. Vose, M. F. Squires, X. Yin, R. R. Heim, Jr., and T. W. Owen, 2012: NOAA’s 1981-2010 U.S. Climate Normals: An Overview. *Bulletin of the American Meteorological Society*, 93, 1687-1697.

¹⁹ Menne, M.J., and C.N. Williams, Jr., (2009) Homogenization of temperature series via pairwise comparisons. *J. Climate*, 22, 1700-1717.

1 However, in order for Staff to develop adjustments to normal HDD for gas usage, Staff must
2 calculate a set of normal daily HDD values that reflect the actual daily and seasonal variability.

3 Staff used a ranking method to calculate normal weather estimates of daily normal
4 temperature values, ranging from the temperature that is “normally” the hottest to the
5 temperature that is “normally” the coldest, thus estimating “normal extremes.” Staff ranked
6 MDTs for each month of the 30-year history from hottest to coldest and then calculated the
7 normal daily temperature values by averaging the ranked MDTs for each rank, irrespective of the
8 calendar date. The ranking process results in the normal extreme being the average of the most
9 extreme temperatures in each month of the 30-year normals period. The second most extreme
10 temperature is based on the average of the second most extreme day of each month, and so forth.
11 Staff’s calculation of daily normal temperatures is not the same as NOAA’s calculation of
12 smoothed daily normal temperatures because Staff calculated its normal daily temperatures
13 based on the rankings of the actual temperatures of the test year, and the test year temperatures
14 do not follow smooth patterns from day to day. More details of a ranking method for normal
15 weather are explained in a peer-reviewed publication.²⁰ Using these normal daily temperatures,
16 Staff calculated normal HDD for each day of the test year. This information was made available
17 to Staff witness Jose R. Perez to calculate the weather normalization adjustments.

18 *Staff Witness/Expert: Seoung Joun Won, PhD*

19 **6. Revenue – Weather Normalization**

20 **a) Introduction and Summary**

21 Since the primary use of natural gas in Missouri is for the purpose of space heating,
22 natural gas sales are heavily dependent upon weather conditions. As natural gas rates are based
23 on usage, it is important to remove abnormal weather influences from the test year in order to
24 provide a more accurate representation of “normal” natural gas usage. This analysis addresses
25 Staff’s weather-normalization of natural gas sales for Liberty Midstates - MO customers.

²⁰ Won, S. J., Wang, X. H., & Warren, H. E. (2016). Climate normals and weather normalization for utility regulation. *Energy Economics*, 54, 405-416.

1 **b) Liberty Midstates – MO Weather Normalization Adjustment**

2 Staff conducted an analysis of weather normalization for the Residential, Small General
3 Service, and Medium General Service classes for the test year ending December 31, 2017.²¹
4 Staff’s weather normalization analysis of Liberty Midstates – MO gas sales in Ccfs resulted in an
5 adjustment to the Ccfs to increase the natural gas sales. This adjustment to the Ccfs was
6 necessary because the weather during the test year was warmer than normal. A summary of the
7 adjustments can be found on Table 1. These adjustments account for changes in sales due to
8 abnormal weather and the annual number of days in the billing cycles.

9 **Table 1**

| Region | Class | Adjustment |
|---------------|------------------------|-------------------|
| NEMO | Residential | 16.23% |
| NEMO | Small General Service | 16.52% |
| NEMO | Medium General Service | 13.96% |
| SEMO | Residential | 22.33% |
| SEMO | Small General Service | 23.17% |
| SEMO | Medium General Service | 15.91% |
| WEMO | Residential | 18.78% |
| WEMO | Small General Service | 19.01% |
| WEMO | Medium General Service | 19.24% |

10
11 **c) Process Used to Weather Normalize Sales**

12 Staff adjusted billing units for each class to account for customers who switched between
13 rate classes during the test year and to account for known and measurable changes to rate classes
14 during the test year and update periods. Staff’s weather normalized adjustments of natural gas
15 sales account for deviations from what are considered normal weather conditions that occurred
16 during the test year. Staff adjusted monthly natural gas volumes to normal by first adjusting the
17 annual number of days for each billing cycle to 365. If the annual number of days in a billing

²¹ Large General Service was not found to be weather sensitive and therefore is excluded from this portion of the analysis.

1 cycle is below or above 365, Staff added or subtracted the difference to the non-heating season.²²
2 This adjustment is performed so that each billing cycle is set to the same total number of days.
3 Since natural gas utilities are winter peaking, any “HDDs” that are removed based on the
4 365 day adjustment are added back to October, since it is a shoulder month to the heating season.
5 Using the shoulder month, which is the non-heating month immediately preceding the heating
6 season, minimizes the impact on the heating season.

7 After each billing cycle is adjusted so that it contains the proper number of days, the next
8 step is to calculate the difference between normal and actual HDDs for each billing cycle.
9 Staff multiplied these differences by the estimate rendered from the regression analysis,
10 described in further detail below, to determine the changes in sales volumes in each billing cycle
11 due to abnormal weather. Next, Staff summed up each of the changes in sales volumes per
12 month due to abnormal weather. Lastly, Staff added the monthly adjustments in sales volumes
13 to the total monthly natural gas sales to calculate the normalized volumes.

14 **d) Application of Weather Normalization Process**

15 Staff witness Dr. Seoung Joun Won provided the daily actual and daily normal HDDs for
16 Liberty Midstates - MO. Dr. Won addresses the calculation of HDDs as part of his section of
17 this Cost of Service Report.

18 Liberty Midstates - MO has established billing cycles for groups of natural gas accounts
19 where each billing cycle corresponds to different days of the month. Customers’ accounts are
20 usually grouped into one of nineteen (19) billing cycles. Staggering the billing of customers’
21 accounts throughout the billing month allows the Company to distribute the work required in
22 order to bill Liberty Midstates - MO customers. Based on the number of customers, usage, and
23 HDD per billing cycle per month, Staff calculated the average use per customer per day and the
24 number of HDD per day for each of the twelve months of the test period for the rate classes
25 mentioned above for Liberty Midstates - MO.

26 Staff used a regression analysis to estimate the relationship between the usage per
27 customer per day and the HDD per day for each month. Once the billing cycles were adjusted,
28 Staff calculated the difference between normal and actual HDDs for each billing cycle. The third

²² Since it cannot be determined exactly which day is causing the annual number of days to be over or less than 365 days, adding or removing an average non-heating season day results in an adjustment with the lesser impact compared to an average heating season day.

1 step was to multiply these differences by the estimate rendered from the regression analysis.
2 The fourth step was to sum the billing cycles' adjusted volumes by billing month. Then, Staff
3 added the monthly adjustments in ccfs to the total monthly natural gas sales to calculate
4 normalized volumes.

5 The billing month averages are calculated from the data provided by the utility on the
6 numbers of customers, natural gas usage, and summed HDD from each of the nineteen (19)
7 billing cycles for each billing month by customer class. The daily average HDD in each billing
8 month and billing cycle is weighted by the percentage of customers in that billing cycle. Thus,
9 the billing cycles with the most customers are given more weight when computing the daily
10 average HDD for the billing month. Staff uses the twelve monthly average-usage-per-customer
11 amounts across the billing cycles to calculate the daily average usage for one month. The usage
12 and weather billing month averages are used to study the relationship between space-heating
13 natural gas usage and cold weather, which is used to estimate the change in usage related to a
14 change in HDD.

15 Staff uses regression analyses to estimate the relationship for each class of customers.
16 The regression equation develops quantitative measures that describe the relationship between
17 daily space-heating sales per customer in Ccf to the daily HDD. The regression equation
18 estimates a change in the daily natural gas usage per customer whenever the daily average
19 weather changes by HDD.

20 Staff recommends that the Commission utilize Staff's weather normalization adjustments
21 that are outlined above.

22 *Staff Witness/Expert: Jose R. Perez*

23 **C. Interruptible Large Volume Customer Adjustments**

24 Liberty Midstates - MO provided monthly billing units and information for every
25 customer who took service on the Interruptible Large Volume Gas Service ("IN"), rate schedules
26 during the test year. Staff used these units as the basis of its analyses and adjustments. Staff has
27 included the following adjustments:

1 **1. Interruptible Large Volume Customer Rate Switching**

2 The general intent of an annualization is to re-state the test year usage as if conditions
3 known at the end of the update period had existed throughout the entire year. Rate switching²³
4 and annualization adjustments include adjustments for new customers, the exit of existing
5 customers, and load growth or decline of specific existing customers.

6 If a customer was in a rate class at the beginning of the test year, then transferred to a
7 different rate class during the test year, the customer’s billing determinants and associated
8 revenues in the original class were removed from that class’ total. The customer’s billing
9 determinants were then “priced out” using the tariffs of the class to which the customer
10 switched, and those determinants and revenues were added to the totals in the new class.
11 This provides Staff with a full year of history for the customer in the rate class they were in at the
12 end of the year.

13 For new customers with no prior usage, an estimated level of usage was applied in order
14 to have 12 months of data.

15 During the ordered test year²⁴ for this proceeding there was only one customer who left
16 the SEMO Interruptible class.

17 **2. Large Customer 365-Day Adjustment**

18 The number of days in a customer’s bill cycle may or may not include 365 days. For the
19 Interruptible Service class, Staff made adjustments to customers’ monthly usage for customers
20 whose test year does not include exactly 365 days, either by adding the appropriate number of
21 days of average usage when there were fewer than 365 days of usage, or by subtracting the
22 appropriate number of days of average usage when there were more than 365 days of usage.

23 *Staff Witness/Expert: Joseph P. Roling*

24 **D. Other Revenues**

25 Liberty Midstates - MO collects revenues for items such as late payment charges, rents,
26 non-sufficient funds check charges, disconnect and re-connect revenues, and other miscellaneous

²³ Rate switching is when customers switch which rate schedule they will be served on during the test year or update period.

²⁴ Staff did receive updated Liberty Midstates - MO Interruptible customer information through November 2017.

1 items. Staff has reviewed the historical levels of other revenues and has accepted the test year
2 level as the annualized level. Staff will continue to review these revenue items through the
3 true-up period in this case and may propose changes.

4 *Staff Witness/Expert: Jason Kunst, CPA*

5 **E. Payroll and Benefits**

6 **1. Payroll Expense**

7 Liberty Midstates - MO's payroll expense includes the wages and salaries paid to the
8 employees who work locally in each of the three rate districts, in addition to corporate allocated
9 wages and salaries that represent work performed that directly or indirectly benefits Liberty
10 Midstates - MO and its ratepayers in each rate district. Staff has annualized payroll expense for
11 the test year ending June 30, 2017, and has included all known and measurable changes through
12 the December 31, 2017, update period. Staff has made adjustments that take into account the
13 following: a) all known changes in employee levels and wage increases that have occurred
14 during the test year and update period including the June 1, 2017, union based wage increase;
15 b) inclusion of an annualized level of overtime that occurred during calendar 2017; and, c) all
16 appropriate wage and salary increases for non-union and management employees effective
17 through December 31, 2017. Staff will continue to review and incorporate all appropriate known
18 and measurable changes for payroll expense that occur through the March 31, 2018, true-up audit
19 cutoff. In addition, Staff notes that Liberty Midstates - MO has requested that a union wage rate
20 increase that will occur on June 1, 2018, be included in the cost of service calculation as part of
21 the true-up audit. Staff may incorporate this union wage rate increase as part of its true-up audit,
22 assuming union employee levels are expected to remain stable through the June 1, 2018, time
23 period. However, Staff may also take into account other changes in other relevant factors that
24 could also occur through June 1, 2018.

25 *Staff Witness/Expert: Asad A. Shakoor*

26 **2. Payroll Taxes**

27 Payroll tax expense represents the taxes that are paid by the employer and include the
28 following: Federal Insurance Contributions Act (FICA) taxes; Old Age, Survivors and Disability
29 Insurance (OASDI) taxes; FICA Medicare (Medicare) taxes; Federal Unemployment Tax Act

1 (FUTA) taxes; and State Unemployment Tax Act (SUTA) taxes. Staff has annualized payroll
2 taxes by applying the appropriate tax rates and applicable tax caps to the annualized employee
3 payroll that Staff calculated at the update period ending December 31, 2017. Staff plans to
4 review and true-up payroll taxes for each separate Liberty Midstates - MO rate district to reflect
5 all changes in payroll expense, payroll tax rates, and payroll tax caps that are appropriate for
6 inclusion in the true-up cost of service calculation.

7 *Staff Witness/Expert: Asad A. Shakoore*

8 **3. Employee Benefits**

9 Liberty Midstates - MO offers an employee benefits package including medical, dental,
10 vision, life insurance, long-term disability, short-term disability, and a 401(k) retirement savings
11 plan. ** _____
12 _____
13 _____
14 _____

15 _____ **

16 Liberty Midstates - MO also has several retired employees that are receiving medical
17 benefits. Along with active employees, Staff has annualized each of these employee benefits'
18 costs, based upon all known and measurable changes that have occurred through the update
19 period, ending December 31, 2017. As part of its true-up audit, Staff will continue to review all
20 changes in costs and employee levels and will update its annualization to reflect all known and
21 measurable changes through March 31, 2018.

22 *Staff Witness/Expert: Asad A. Shakoore*

23 **4. Incentive Compensation and Bonuses**

24 Liberty Midstates has three forms of incentive compensation. The first type is the long
25 term incentive plan (LTIP), ** _____
26 _____ **. The second type is the short-term incentive plan (STIP), ** _____
27 _____ **. The third type of incentive compensation is the
28 shared bonus pool (SBP), ** _____ **.

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a. Long-Term Incentive Plan (LTIP)

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b. Short-Term Incentive Plan (STIP)

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c. Shared Bonus Pool (SBP)

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d. Variable Pay Plan (VPP)

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15 Incentive Compensation is labor-related; and all labor-related costs include an expense
16 amount as well as an amount that is capitalized. For all equity based amounts mentioned above
17 that are being removed by Staff, an adjustment will be made to expense accounts, but there will
18 also be a proportionate amount removed from plant and depreciation reserve. This capitalized
19 plant and reserve amounts will be removed for the period of the true-up cutoff date in the last
20 rate case (March 31, 2014), of which the rate base was stipulated and agreed to, through the true
21 up cutoff date in the current rate case.

22 Staff still requires additional data and data request responses from the Company to
23 calculate the exact capitalized and expensed incentive compensation and further review of this
24 issue is necessary through the true up cutoff of March 31, 2018 in this case.

25 *Staff Witness/Expert: Lisa M. Ferguson*

26 **5. Pensions and Other Post-Employment Benefits Costs**

27 Within its direct filing, Liberty Midstates posted adjustments to reflect increased expense
28 for pensions and Other Post-Employments Benefits (“OPEB”) expense. The Company’s
29 adjustments were based upon 2017 actuarial valuation estimates, and reflect a proforma or
30 ongoing level of pensions and OPEB expense expected to be incurred based upon the latest

1 actuarial estimates, plus amortization of under recovered pensions and OPEB costs that Liberty
2 Midstates - MO has experienced since Liberty Midstates - MO Case No. GR-2014-0152.
3 Pursuant to a stipulation approved within Liberty Midstates - MO Case No. GR-2014-0152,
4 Liberty Midstates - MO has been deferring within a Regulatory Asset account the difference
5 between pensions and OPEB expense being collected in rates *and* the level of actuarially-
6 determined pensions and OPEB expense that Liberty Midstates - MO has experienced since the
7 last rate case.

8 Staff has posted pensions and OPEB expense adjustments that are identical to those that
9 were proposed by Liberty Midstates within its original application. However, when the 2017
10 actuarial valuation of the plans are complete, Staff will revise and update the pensions and OPEB
11 expense adjustments being presented with this Staff Report.

12 Under the terms of Accounting Standards Update No. 2017-07 Compensation –
13 Retirement Benefits (Topic 715): Improving the Presentation of Net Periodic Pension Cost and
14 Net Periodic Postretirement Benefit Costs, issued by the Financial Accounting Standards Board
15 (“FASB”), for annual periods beginning after December 15, 2017, only the “service cost
16 component” of pensions and OPEB costs will be eligible for capitalization. Under previous
17 FASB standard, all elements of pensions and OPEB costs were eligible for capitalization. Staff
18 has held discussions with Liberty Midstates’ rates and accounting personnel wherein the
19 Company indicated its desire to follow the new FASB capitalization standards for ratemaking
20 and accounting purposes. Staff does not oppose following the FASB pensions and OPEB
21 capitalization standards for ratemaking and accounting purposes. Accordingly, when final 2017
22 actuarial valuations with revised net periodic pension costs are received, Staff will revise/update
23 the pensions and OPEBs expense adjustments included with this Staff Report, and also reflect
24 the new capitalization policy for pensions and OPEBs as recently endorsed by the FASB.

25 *Staff Witness/Expert: James R. Dittmer*

26 **F. Other Expenses**

27 **1. Advertising Expense**

28 In forming its recommendation of the allowable level of Liberty Midstates - MO’s
29 advertising expense, Staff relied on the principles it has consistently applied when analyzing
30 advertising expense, by adhering to the Commission’s decision in: *Kansas City Power and*

1 *Light Company*, Case Nos. EO-85-185, et al., 28 Mo. P.S.C. (N.S.) 228, 269-71 (1986). In that
2 case, the Commission adopted an approach that classifies advertisements into five categories and
3 provides rate treatment of recovery or disallowance based upon a specific rationale. The five
4 categories of advertisements recognized by the Commission in that case are as follows:

5 a. General: informational advertising that is useful in the provision
6 of adequate service;

7 b. Safety: advertising which conveys the ways to safely use
8 electricity [gas] and to avoid accidents;

9 c. Promotional: advertising used to encourage or promote the use
10 of electricity [gas];

11 d. Institutional: advertising used to improve the company's public
12 image; and

13 e. Political: advertising associated with political issues.

14 The Commission adopted these categories of advertisements explaining that a utility's revenue
15 requirement should: 1) always include the reasonable and necessary cost of general and safety
16 advertisements; 2) never include the cost of institutional or political advertisements; and
17 3) include the cost of promotional advertisements only to the extent that the utility can provide
18 cost-justification for the advertisement (Report and Order in KCPL Case Nos. EO-85-185,
19 et al., 28 Mo. P.S.C. (N.S.) 228, 269-271 (April 23, 1986)).

20 Staff reviewed advertising performed during the test year at both the Liberty Midstates -
21 MO local level (Missouri districts), as well as all corporate level advertising for which costs were
22 allocated to Liberty Midstates - MO. Staff allowed all costs for safety advertising and general
23 advertising. Staff found no evidence that Liberty Midstates - MO incurred any political
24 advertising costs through an allocation from the corporate level or at the local level during the
25 test year. Staff determined several instances of institutional advertising in the test year. Some of
26 the institutional advertising costs were allocated to Liberty Midstates - MO while the remainder
27 was incurred at the local level. Liberty Midstates - MO received an allocated cost for the
28 placement of one promotional advertisement during the test year. In response to Staff Data
29 Request No. 0048, Liberty Midstates - MO indicated that it had not conducted any analysis to
30 determine whether or not the advertisement was cost-justified. Therefore, Staff has adjusted the
31 cost of service to exclude any advertising costs related to promotional and institutional
32 advertising.

33 *Staff Witness/Expert: Paul K. Amenthor*

1 **2. Rate Case Expenses**

2 **Summary of Staff’s Recommendation**

3 Utility companies incur various expenses in the preparation and presentation of a rate
4 case before the Commission. Included in these costs are expenses for outside counsel, expert
5 witnesses, and miscellaneous expenses for items such as travel expenses and copying costs.

6 **a. Normalization**

7 Staff has reviewed Liberty Midstates - MO’s rate case related expenses related to this
8 current case for reasonableness and prudence for all of the services and costs incurred. Staff has
9 calculated a normalized level of expense to include in its cost-of-service calculation based on
10 costs incurred through December 31, 2017, to be normalized over four years. This approximates
11 the interval of time between dates that Liberty Midstates - MO filed its prior rate case (Case No.
12 GR-2014-0152) and the current rate case.

13 Staff will continue to review Liberty Midstates - MO’s incurred rate case expenses for
14 prudence and reasonableness as the case progresses, as Staff’s calculations of a normalized level
15 of expense based on incurred costs are ongoing. Staff will review expenses incurred through the
16 filing of the true-up reply brief date on June 29, 2018, in this case. Staff requests that the
17 Company provide all documentation of rate case expense no later than two weeks after the
18 true-up reply brief date above. Due to the late stage of the rate case process at that point,
19 any documentation provided by Liberty Midstates - MO after this date expires will not be
20 considered by Staff, regardless of when the expense was incurred.

21 **b. Sharing Recommendation**

22 In the Staff Investigative Report on Rate Case Expense (“Report”) filed in Case No.
23 AW-2011-0330 in September 2013, Staff examined recent trends in incurred rate case expense
24 and made recommendations regarding ongoing policies for utility recovery of rate case expenses.
25 Staff made an assertion in the report that rate case expense can be beneficial to both a utility’s
26 ratepayers and shareholders. In the Report, Staff noted that the practice of granting the
27 full recovery of rate case expense to utilities does not incentivize them to limit their
28 expenditures in that area. Additionally, Staff expressed concern that allowing the full recovery
29 of expenses gives utility companies a financial advantage over other parties within the case who

1 must operate within budgets or other financial restrictions. It was Staff's conclusion in the
2 Report that "structural incentives measures" be implemented in order to incentivize utilities to
3 limit rate case expense.

4 One of the options suggested by Staff in the Report was for rate case expense to be
5 shared between shareholders and ratepayers according to the percentage of the utility's rate
6 increase that is ultimately awarded by the Commission. That is the approach that Staff is
7 recommending in this case to annualize rate case expense. By using this approach, ratepayers,
8 who benefit by ensuring they receive safe and adequate service for just and reasonable rates, are
9 only assigned costs that they receive a benefit from and that are reasonable. Additionally, it
10 reduces the significant financial advantage that Liberty Midstates – MO has over the participants
11 and incentivizes them to control their expenditures.

12 In the Report and Order in ER-2014-0370, the Commission stated the following:

13 The Commission finds that in order to set just and reasonable rates under
14 the facts in this case, the Commission will require KCPL shareholders to
15 cover a portion of KCPL's rate case expense. One method to encourage
16 KCPL to limit its rate case expenditures would be to link KCPL's
17 percentage of recovery of rate case expense to the percentage of its rate
18 increase request the Commission finds just and reasonable. The
19 Commission determines that this approach would directly link KCPL's
20 recovery of rate case expense to both the reasonableness of its issue
21 positions and the dollar value sought from customers in this rate case.

22 The Commission concludes that KCPL should receive rate recovery of its
23 rate case expenses in proportion to the amount of revenue requirement it is
24 granted as a result of this Report and Order, compared to the amount of its
25 revenue requirement rate increase originally requested.

26 More recently in Case Nos. GR-2017-0215 and GR-2017-0216,²⁵ the Commission included the
27 following in the Report and Order:

28 In one sense, rate case expense is like other common operational expenses
29 that a utility must incur to provide utility services to customers. Since
30 customers benefit from having just and reasonable rates, it is appropriate
31 for customers to bear some portion of the utility's cost of prosecuting a
32 rate case. However, rate case expense is also different from most other
33 types of utility operational expenses, in that 1) the rate case process is

²⁵ In these cases, the Commission ordered a 50/50 equal sharing of most rate case expenses for the utilities, in lieu of using the percentage of the rate increases granted to the rate increases sought.

1 adversarial in nature, with the utility on one side and its customers on the
2 other; 2) rate case expense produces some direct benefits to shareholders
3 that are not shared with customers, such as seeking a higher return on
4 equity; 3) requiring all rate case expense to be paid by ratepayers provides
5 the utility with an inequitable financial advantage over other case
6 participants; and 4) full reimbursement of all rate case expense does
7 nothing to encourage reasonable levels of cost containment.

8 Under Missouri law, the Commission must set just and reasonable rates,
9 and rates in this case, that include all of the utility's rate case expense, for
10 the reasons set forth above, are not just or reasonable. However, the
11 Commission determines that it is just and reasonable for ratepayers and
12 shareholders to share rate case expense.

13 Based upon the recent guidance from the Commission and the evidence and circumstances in the
14 current rate case, Staff is recommending that rate case expense be shared by Liberty Midstates -
15 MO's ratepayers and shareholders by utilizing the method that was ordered by the Commission
16 in ER-2014-0370. Staff is recommending that the percentage of rate case expense that will be
17 borne by the ratepayers be equal to the percentage of the Company's initial rate request that is
18 ultimately awarded by the Commission, subject to the exceptions for costs discussed below²⁶.

19 As an alternative, Staff is not opposed to assignment of rate case expense to customers
20 and shareholders on an equal 50/50 basis in this case, as the Commission recently ordered
21 in Case Nos. GR-2017-0215 and GR-2017-0216, subject to the exceptions for costs
22 discussed below.

23 Staff is not including the Commission required depreciation study or the lead/lag study
24 that was agreed to in the stipulation and agreement in the prior case, GR-2014-0152, in the
25 rate case expense sharing recommendation. Consistent with the Commission's guidance in
26 GR-2017-0215 and GR-2016-0215, Staff proposes to normalize the cost of the depreciation
27 study over five years which represents the interval for which Liberty Midstates - MO was
28 required to complete such analysis. Staff also proposes to normalize the costs associated with
29 the lead/lag study over four years. Further, Staff would expect that Liberty Midstates - MO will
30 perform the lead/lag study internally in its next general rate case, without the assistance of an

²⁶ Liberty Midstates - MO has not provided Staff with any costs for rate case required customer notices through the December 31, 2017, update period, per the guidance of the Commission in GR-2017-0215 & GR-2017-0216, Staff will not include those costs in the sharing mechanism.

1 external consultant. Staff recommends that the depreciation study be recovered over a five-year
2 normalization and that the lead/lag study be recovered over a four-year normalization.

3 Additionally, Staff has made an adjustment to remove the rate case expense that was
4 recorded during the test year for the previous rate case, GR-2014-0152. The prior rate case
5 expense was fully recovered as of December 31, 2017.

6 *Staff Witness/Expert: Jason Kunst, CPA*

7 **3. Rent and Lease Expense**

8 During the test year ending June 30, 2017, Liberty Midstates - MO incurred rent and
9 lease expenses for various buildings and equipment items that are necessary in the provision
10 of service to its customers. Staff annualized rent and lease expenses to reflect all
11 contractual changes in rent and lease expense that have occurred through the December 31, 2017,
12 update period. Staff will re-examine all rent and lease expense through the March 31, 2018,
13 true-up cutoff in this case and will include all appropriate changes in the true-up cost of
14 service calculation.

15 *Staff Witness/Expert: John P. Cassidy*

16 **4. Outside Services**

17 Staff has reviewed the invoices and contracts for services provided to Liberty Midstates -
18 MO by third party vendors during the test year. Staff has evaluated the appropriateness of all
19 such charges and has proposed an adjustment to remove certain outside services related to
20 lobbying and legislative activities.

21 *Staff Witness/Expert: Jason Kunst, CPA*

22 **5. Insurance Expense**

23 Insurance expense is the cost paid to third party insurers for protection against the risk of
24 financial loss associated with unanticipated events or occurrences. Utilities, like non-regulated
25 entities, routinely incur insurance expense in order to minimize their liability (and, potentially,
26 that of their customers) associated with unanticipated losses. Insurance traditionally consists of
27 the following types of coverage:

- 28 • Directors' and Officers' Liability Insurance;
- 29 • Workers' Compensation - covers all employees;

- 1 • General and Excess Liability – all liability claims against the
- 2 company;
- 3 • Property – covers tangible property; and
- 4 • Fiduciary Liability – general coverage including theft, forgery,
- 5 fraud, terrorism, etc.

6 As insurance is an ongoing and normal expense of a utility, Staff has reviewed all insurance
7 policies and adjusted test year insurance costs to reflect all annual premiums that were in effect
8 at December 31, 2017. As part of Staff’s true-up audit, Staff will update its numbers to reflect
9 all changes to annual premiums that will be in effect through March 31, 2018.

10 *Staff Witness/Expert: Paul K. Amenthor*

11 **6. Dues and Donations**

12 Staff reviewed all costs associated with membership dues paid and donations made to
13 various organizations during the test year ending June 30, 2017. Staff’s review included all costs
14 incurred at each of the three local Missouri rate districts as well as costs allocated to the districts
15 from the corporate level. Staff reviewed expenditures for all memberships, dues, and donations
16 to determine if the cost was duplicative or provided no ratepayer benefit. Staff’s review is
17 consistent with the guidance provided by the Commission for these types of items.

18 In *Re: Missouri Public Service, a Division of UtiliCorp United, Inc.*, Case Nos.
19 ER-97-394, et al., Report and Order, 7 Mo.P.S.C.3d 178, 212 (1998), the Commission stated:

20 The Commission has traditionally disallowed donations such as these.
21 The Commission finds nothing in the record to indicate any discernible
22 ratepayer benefit results from the payment of these donations. The
23 Commission agrees with the Staff in that membership in the various
24 organizations involved in this issue is not necessary for the provision of
25 safe and adequate service to the MPS ratepayer.

26 Staff made adjustments to disallow various dues and donations that were incurred by
27 Liberty Midstates – MO during the test year because they were not necessary for the provision
28 of safe and adequate service, and to prevent customers from becoming involuntary contributors
29 to organizations that engage in lobbying activities or otherwise that provide no benefit
30 to ratepayers.

31 *Staff Witness/Expert: Paul K. Amenthor*

1 **7. Property Tax Expense**

2 For property assessment purposes, each utility company is required to file with its
3 respective taxing authority a valuation of utility property at the beginning of each assessment
4 year, January 1st. Several months later, based on information provided by the utility, the taxing
5 authority will send the company “assessed values” for every category of the company’s property.
6 The taxing authority will issue the utility company a property tax rate later in the year.
7 Ultimately, the taxing authority issues a property tax bill to the company late in each
8 calendar year with a “due date” of December 31. The billed amount of property taxes is based on
9 the property tax rate applied to the previously determined assessed values of the utility’s
10 plant-in-service balances as of January 1 of the same year.

11 Staff developed its property tax amount based on the Company’s actual taxes paid as of
12 December 31, 2017, which were paid based on investment as of January 1, 2017. In addition,
13 Staff has included a level of corporate allocated property tax in its annualized amount. However,
14 Staff has not included a property tax amount for Liberty Midstates - MO’s new automated meter
15 reading (AMR) devices outside of the devices that were installed in NEMO approximately a year
16 ago because they were either installed in 2017 or have yet to be installed. Staff has also not
17 included property tax on the new building that is currently being constructed in Hannibal,
18 Missouri as it is not currently in service. The new vehicles and main replacements either came
19 into service during 2017 or will come into service in 2018. Staff’s rate base calculations include
20 all investment additions through December 31, 2017, and will be updated through March 31,
21 2018, as part of Staff’s true up audit. However, Liberty Midstates - MO has yet to be assessed
22 for real estate/property tax purposes for plant in service subsequent to January 1, 2017. Liberty
23 Midstates - MO will not receive a bill for a known and measurable property tax amount on new
24 investments until the end of 2018 for those items in service at the end of 2017. However many
25 of the AMR meter devices and Hannibal building were not in service as of January 1, 2018 and
26 will more than likely not be assessed until the beginning of 2019.

27 Staff also does not recommend a tracker for recovery of Liberty Midstates - MO’s
28 property taxes due to the fact that these costs are not extraordinary as they are incurred every
29 year and are not volatile.

30 *Staff Witness/Expert: Lisa M. Ferguson*

1 **8. Uncollectibles**

2 Uncollectible, or “bad debt expense,” is the amount of retail revenues that Liberty
3 Midstates - MO is unable to collect from retail customers. After a certain amount of time, these
4 uncollected revenues are “written off” and given to a third party for collection. Through third
5 party collection, Liberty Midstates - MO is sometimes able to recover a portion of the amounts
6 that are written off. The amounts collected from the third party collection agencies are netted
7 with the written off accounts in a given period to determine “net write-offs.”

8 Staff traditionally determines the amount of uncollectable expense to include in rates by
9 analyzing the actual net write-offs over a period of time. Staff has made an adjustment to
10 annualize the amount of uncollectable expense to include in rates by reflecting the actual net
11 write-offs that occurred in the 12 months ending December 31, 2017. Staff will continue to
12 review the actual net-write offs incurred by Liberty Midstates – MO as part of its true up audit.

13 In his direct testimony, Liberty Midstates - MO’s witness Robert B. Hevert proposes to
14 implement a bad debt tracker. Staff does not believe a bad debt expense tracker is necessary and
15 will address Liberty Midstates - MO’s proposal in rebuttal testimony.

16 *Staff Witness/Expert: Jason Kunst, CPA*

17 **9. PSC Assessment**

18 The MoPSC Assessment is an amount billed to all regulated utilities operating under the
19 jurisdiction of the Commission. The assessment is used to meet the Commission’s operating
20 costs for regulating those utilities. Staff’s MoPSC Assessment adjustment represents the
21 difference between MoPSC assessment expenses recorded by Liberty Midstates - MO’s three
22 Missouri rate districts during the test year and the most recent MoPSC Assessment that is now in
23 effect for each of those three rate districts during fiscal year 2018, for the period covering July 1,
24 2017 to June 30, 2018.

25 *Staff Witness/Expert: Paul K. Amenthor*

26 **10. Postage Expense**

27 In January 2018, the United States Postal Service (USPS) implemented a postage
28 increase. Staff has made an adjustment to annualize Liberty Midstates - MO’s postage expense
29 to reflect the increase in the postage rate.

30 *Staff Witness/Expert: Jason Kunst, CPA*

1 **11. Utility Costs – New Hannibal Shop**

2 Liberty Midstates - MO has indicated that it will complete construction of its new
3 Hannibal Shop by March 31, 2018. Staff will include an annualized level of utilities costs
4 associated with this building, based on actual bills, as part of its true-up cost of service
5 calculation in this case.

6 *Staff Witness/Expert: John P. Cassidy*

7 **12. Vegetation Management**

8 As part of the current rate case, Liberty Midstates - MO is requesting cost recovery and
9 tracking of vegetation management or right of way costs. A right of way is the area of land
10 above the pipeline that is used to maintain, inspect, and safely operate the pipeline. In order for
11 there to be safe operation and maintenance of gas pipelines, gas utilities need the right of way to
12 be clear of vegetation so as to access the underground pipeline infrastructure. Easement
13 agreements are the legal means of creating responsibility between the property owners and the
14 pipeline owners. It typically includes language that restricts certain uses of the right of way and
15 creates responsibility of maintaining the land above the pipeline. Trees, large shrubs, and
16 woody-stemmed plants can interfere with the reliability of gas service if the roots damage the
17 underground pipe. In addition, vegetation needs to be cleared for damage prevention as well as
18 safe operation and maintenance of the pipeline. There are several Commission rules that require
19 routine pipeline patrols and leak surveys to assess the safety and integrity of gas pipelines so as
20 to prevent pipeline ruptures.

21 Liberty Midstates - MO has approximately 4,000 miles of natural gas pipeline, and the
22 right of way for the pipeline is typically 20 feet across. Liberty Midstates – MO is currently on a
23 two-year cycle for vegetation management, though some areas may require clearing every fall
24 due to the speed at which the vegetation grows in that area. The majority of vegetation
25 management costs have occurred in the Southeast Missouri (SEMO) district.

26 In the current case, Staff has normalized the cost of vegetation management as of
27 December 31, 2017. Staff has remaining data requests outstanding and will review the Company
28 responses to those data requests as well as the costs through the true up period in this case.

1 Staff does not believe a vegetation management tracker is necessary as they are not
2 extraordinary, volatile nor material in nature.

3 *Staff Witness/Expert: Lisa M. Ferguson*

4 **13. Miscellaneous Expenses**

5 During the test year, Liberty Midstates - MO incurred numerous miscellaneous costs at
6 various corporate and affiliate levels, which were allocated to each of its three Missouri rate
7 districts. Additionally, Liberty Midstates - MO incurred miscellaneous costs locally at each
8 Missouri rate district level. After reviewing these expenses, Staff made an adjustment to remove
9 travel costs that did not pertain to Liberty Midstates - MO operations and provide no identifiable
10 benefit to Missouri ratepayers.

11 *Staff Witness/Expert: Paul K. Amenthor*

12 **14. Energy Conservation and Efficiency Program and Residential Low**
13 **Income Weatherization Assistance Program**

14 **a. Energy Conservation and Efficiency Program**

15 Liberty Midstates - MO Energy Conservation and Efficiency Program (“Efficiency
16 Program”) is designed to promote energy conservation, efficiency, and education for Liberty
17 Midstates - MO customers. Funding for the Efficiency Program is \$150,000 per year which is
18 collected in base rates, \$105,000 of which is annually dedicated to the Residential Low Income
19 Weatherization Assistance Program. The Energy Efficiency Advisory Group, composed of
20 Liberty Midstates - MO, Commission Staff, Office of the Public Counsel and the Missouri
21 Division of Energy, operates as an advisory group that provides input on the design,
22 implementation, and evaluation of the Efficiency Program. The Efficiency Program is intended
23 to benefit all eligible Liberty Midstates - MO residential customers via the funding of certain
24 conservation efforts which are designed to improve energy efficiency within the home and
25 reduce energy consumption. Staff recommends continuation of the Efficiency Program as it is
26 currently structured.

27 **b. Residential Low Income Weatherization Assistance Program**

28 Liberty Midstates - MO Residential Low Income Weatherization Assistance Program
29 (“Weatherization Program”) is designed to provide energy education and weatherization

1 assistance to low-income, residential customers to assist customers in reducing their energy
2 consumption and thus reduce their natural gas utility bills. The Weatherization Program is a
3 component of Liberty Midstates - MO Energy Conservation and Efficiency Program
4 (“Efficiency Program”), and receives on an annual basis, \$105,000 of the \$150,000 funding
5 included in base rates for the Efficiency Program. Staff recommends continuation of the
6 Weatherization Program as it is currently structured.

7 *Staff Witness/Expert: Brad J. Fortson*

8 **15. Energy Efficiency Amortizations**

9 Liberty Midstates - MO’s existing energy efficiency balance established in the prior
10 rate case, Case No. GR-2014-0152, is being amortized over a six year period beginning
11 in January 2015 and ending in December 2020. Staff proposes no reset for this particular
12 amortization. However, in Liberty Midstates - MO’s next rate case further adjustment
13 may be warranted in order to prevent any under-recovery or over-recovery for these energy
14 efficiency costs.

15 As part of its review in this rate case, Staff discovered that during the test year ending
16 June 30, 2017, Liberty Midstates - MO posted 30 months of amortization expense
17 associated with the energy efficiency regulatory asset balance that was established in Case No.
18 GR-2014-0152. Liberty Midstates - MO posted a “catch-up” adjustment in February 2017 to
19 reflect amortization expense that had not been previously reported during the period covering
20 January 2015 through January 2017. Staff adjusted this test year level of expense to reflect an
21 annual ongoing level of amortization expense for this regulatory asset.

22 Staff further proposes to amortize the balance of all eligible energy efficiency spending
23 that Liberty Midstates - MO has deferred since the time of its last rate case over six years
24 beginning with the effective date of rates in this case, with the exception of an approximately
25 \$17,000 amount that was previously included in the energy efficiency regulatory asset
26 established in the prior rate case. Staff removed this amount from the calculation of the
27 regulatory asset balance to prevent a double recovery for this item. Staff’s proposed treatment
28 to amortize this deferred regulatory asset balance over six years is consistent with the terms of
29 the *Revised Partial Stipulation and Agreement As to Certain Issues* in Liberty Midstates - MO’s
30 prior rate case, Case No. GR-2014-0152. It is also consistent with the accounting treatment that
31 was described in the *Unanimous Stipulation and Agreement* in the Atmos Energy Corporation

1 rate case, Case No. GR-2010-0192 and that was continued by the aforementioned agreement that
2 was reached in GR-2014-0152.

3 *Staff Witness/Expert: John P. Cassidy*

4 **G. Income Taxes**

5 Income tax expense, as calculated by Staff, is largely consistent with the methodology
6 used in Liberty Midstates' previous rate cases, however in this case there will be some
7 differences due to the recent tax reform. On December 22, 2017, President Trump signed into
8 law the US Tax Cuts and Jobs Act ("TCJA") which took effect on January 1, 2018. Staff is
9 attempting to address the known changes in tax reform as part of the normalized tax calculation
10 in this proceeding.

11 To calculate income tax expense, Staff adjusts the utility's net operating income before
12 taxes by adding to or subtracting from net income various timing differences, in order to obtain
13 net taxable income for ratemaking purposes. These "add back" and/or subtraction adjustments
14 are necessary to identify new amounts for the tax deductions that are different from those levels
15 reflected in the income statement as revenues or expenses. The adjustments are the result of
16 various book versus tax timing differences and the effect of such differences under separate tax
17 ratemaking methods, i.e., flow-through versus normalization. A tax timing difference occurs
18 when the timing used in reflecting a cost (or revenue) for financial reporting purposes
19 (book purposes) is different than the timing required by the IRS in determining taxable income
20 (tax purposes). Current income tax reflects timing differences consistent with the timing required
21 by the IRS. The tax timing differences used in calculating taxable income for computing current
22 income tax are as follows:

23 **Add Back to Operating Income Before Taxes:**

- 24 • Book Depreciation Expense

25 **Subtractions from Operating Income:**

- 26 • Interest Expense – Weighted Cost of Debt X Rate Base
- 27 • Tax Straight-Line Depreciation
- 28 • Excess Tax Depreciation

1 The tax normalization method defers for ratemaking purposes the deduction taken for tax
2 purposes for certain tax timing differences. The effect of the use of tax normalization is to allow
3 utilities the net benefit of certain net tax deductions for a period of time before those benefits are
4 passed on to the utility's customers in rates. Alternately, the flow-through tax method essentially
5 provides for the same tax deduction taken as a deduction for ratemaking purposes as is taken for
6 tax purposes. Under either the tax normalization or tax flow-through approach, the resulting net
7 taxable income for ratemaking is then multiplied by the appropriate federal, state, and city tax
8 rates to obtain the current liability for income taxes.

9 Based on the TCJA, a new corporate federal tax rate of 21 percent was applied as well as
10 the ongoing state income tax rate of 6.25 percent in order to calculate Liberty Midstates - MO's
11 current income tax liability. The difference between the calculated current income tax provision
12 and the per book income tax provision is the current income tax provision adjustment.

13 Liberty Utilities Co. (LUCo) files a consolidated tax return including all of its regulated
14 and non-regulated affiliate enterprises that are based in the United States. LUCo as well as
15 Liberty Midstates - MO are currently in a net operating loss ("NOL") situation. An NOL is a loss
16 taken in a period where a company's allowable tax deductions are greater than its taxable income.

17 Staff will review income tax expense as part of its true-up audit and make additional
18 adjustments as necessary.

19 *Staff Witness/Expert: Lisa M. Ferguson*

20 **H. Depreciation Expense**

21 **1. Capitalized Depreciation Expense**

22 Liberty Midstates - MO utilizes transportation and power-operated equipment to perform
23 both maintenance and construction activities. Generally, a portion of the depreciation calculated
24 on this equipment should be capitalized and charged to the associated capital construction project
25 and eventually placed in plant-in-service. In the *Partial Stipulation and Agreement*
26 *As To Certain Issues*, approved by the Commission as part of the prior rate case, Case No.
27 GR-2014-0152, Liberty Midstates - MO agreed to capitalize certain transportation and
28 power-operated equipment beginning August 1, 2012. Staff has submitted data requests and has
29 received the information needed to confirm that Liberty Midstates - MO has met its commitment.
30 In addition, Staff has learned that Liberty Midstates - MO has capitalized depreciation for

1 buildings that house transportation and power operated equipment. Staff's position is that it is
2 not appropriate to capitalize depreciation for buildings since the buildings are not directly
3 involved in construction activity. Staff has made adjustments to plant-in-service and
4 depreciation reserve to remove capitalized depreciation associated with buildings. Staff has met
5 with Liberty Midstates - MO to discuss this issue and believes that Liberty Midstates - MO is in
6 agreement with Staff's position with regard to capitalized depreciation for buildings.
7 Finally, Staff has removed a portion of the annualized depreciation expense related to
8 transportation and power-operated equipment in order to reflect the portion of this expense that is
9 appropriately capitalized.

10 *Staff Witness/Expert: Jason Kunst, CPA*

11 **X. Depreciation**

12 **A. Summary of Revenue Impact**

13 Staff conducted a study of the depreciable plant of Liberty Midstates - MO as part
14 of its investigation for Liberty Midstates - MO's rate increase request. Appendix 3
15 contains Schedule SBM-d1 which lists the Staff-recommended depreciation rates for
16 Liberty Midstates - MO.

17 Since Staff's recommended depreciation rates are different from those currently being
18 used, Staff is also suggesting a change in depreciation expense. The proposed depreciation
19 expense, based on test year balances, is shown in Accounting Schedule 5.

20 **B. Depreciation**

21 "Depreciation," as applied to depreciable utility plant means:

- 22 (a) the loss in service value not restored by current maintenance,
- 23 (b) incurred in connection with the consumption or prospective retirement of
24 utility plant in the course of service,
- 25 (c) from causes which are known to be in current operation, and
- 26 (d) against which the utility is not protected by insurance.

1 Among the causes to be given consideration are: wear and tear, decay, action of the elements,
2 inadequacy, obsolescence, changes in the art, changes in demand, and changes to the
3 requirements of public authorities.²⁷

4 The purpose of depreciation in a regulatory setting is to recover the cost of capital assets
5 over the useful lives of the assets. The depreciation rate assigned to each plant account is
6 designed to recover, over the average service life of the assets in that account, the original cost of
7 the assets, plus an estimate for any cost of removal less scrap value. Annual depreciation
8 expense for a plant account is the depreciation rate for that plant account multiplied by the
9 balance of plant in that account. The annual depreciation expense returns to the Company's
10 shareholders a portion of the costs of the capital assets. In a regulatory setting, this return is
11 commonly referred to as a return *of* capital. The remaining portion of the costs of the capital
12 assets of the Company, known as net plant-in-service, is returned to the Company's shareholders
13 in the future. The Company is permitted during this period to earn a return on the capital assets
14 in rate base, commonly referred to as a return on net plant-in-service, a component of rate base.
15 In a regulatory setting this return is also commonly referred to as a return *on* rate base.

16 **C. Depreciation Study Prepared by Liberty Midstates**

17 Liberty Midstates - MO is required to submit depreciation studies under rule 4 CSR 240-
18 3.235. Liberty Midstates completed a study and Liberty Midstates - MO submitted two reports
19 prepared by Mr. Dane A. Watson of Alliance Consulting Group in June 2016.

20 The first report corresponds to utility owned property that is part of SSU and is allocated
21 to the three regulated divisions of Liberty Midstates (Liberty Midstates - MO, Liberty Midstates
22 Iowa Division, and Liberty Midstates Illinois Division).²⁸ The SSU portion of the study
23 utilized informed judgement rather than data to develop depreciation rates because, at the time
24 the study was performed, all property maintained in the SSU was relatively new and no

²⁷ National Association of Regulatory Utility Commissioners (NARUC), *Public Utility Depreciation Practices* (Washington, DC: NARUC, 1996), p. 53.

²⁸ At some point in time, following the preparation of the depreciation study, a Liberty Midstates Central Region was formed. This region consists of the following entities: The Empire District Electric Company, The Empire District Gas Company, Empire District Industries, Inc.; Liberty Utilities (Midstates Natural Gas) Corp.; Liberty Utilities (Pine Bluff Water) Inc.; Liberty Utilities (Woodson-Hensley Water) Corp.; Liberty Utilities (White Hall Water) Corp.; Liberty Utilities (White Hall Sewer) Corp.; Liberty Utilities (Fox River Water) LLC and Liberty Utilities (Missouri Water) LLC.

1 retirements had yet occurred.²⁹ The SSU study details depreciable assets put into service on or
2 before September 30, 2015.

3 The second report details the portion of the depreciation study intended to determine
4 depreciation rates specific to Liberty Midstates - MO. Although intended to establish rates for
5 Missouri property, the study included retirement data from the Iowa and Illinois divisions of
6 Liberty Midstates in addition to the Missouri division. The Missouri study details depreciable
7 assets put into service on or before September 30, 2015, and considers retirements since 2000.³⁰

8 **D. Depreciation Study Prepared by Staff**

9 Staff conducted its own depreciation study for the capital assets of
10 Liberty Midstates - MO using the straight-line method, broad group-average life procedure, and
11 whole life technique. Staff used the following formula to calculate depreciation rates for each
12 plant account:

$$13 \text{ Depreciation Rate} = (100\% - \text{Net Salvage } \%) \div (\text{Average Service Life})$$

14 This equation is consistent with the direction of the Commission in its *Report and Order* in
15 The Empire District Electric Company rate case, Case No. ER-2004-0570. In this equation,
16 average service life is the expected period, in years, that depreciable plant will be in service.
17 Net salvage is the difference between gross salvage (the amount received from the retirement
18 of property) and the cost of removal.

19 For each account, Staff estimated the average service life and net salvage rate. Staff's
20 recommendation is informed by statistical analysis of plant retirements as described below. Staff
21 also relied on its engineering experience, informed judgment, and previous cases to prepare
22 recommended rates.

23 Staff used available data from the Liberty Midstates - MO's depreciation study and work
24 papers, and Liberty Midstates - MO's responses to data requests, to prepare estimates of service
25 life and net salvage for each account. Staff conducted statistical analysis of retirements using
26 Gannet Fleming Depreciation Analysis Software to prepare stub survival curves for plant

²⁹ p. 4, Liberty Utilities Shared Services Unit Depreciation Study, Alliance Consulting Group, 2015.

³⁰ p. 12, Liberty Mid-States Gas State of Missouri Book Depreciation Accrual Rate Study, Alliance Consulting Group, 2015.

1 accounts. Survival curves describe the amount of plant in an account, expressed as a percent that
2 is still in service, at various ages. For an account in which all plant is retired, the average service
3 life can be calculated as the area under the curve. Because there is surviving plant in these
4 accounts, the curves produced are partial and are called stub curves.

5 In order to estimate average service life, Staff fitted an Iowa curve to the stub curve for
6 each account. Iowa curves are model curves widely used among depreciation experts as
7 depictions of the life characteristics of utility plant. Staff also used the Gannet Fleming software
8 to assist in mathematical and visual fitting of the stub curves to Iowa curves. Average service
9 lives for these accounts were drawn from the fitted Iowa curves.

10 In addition, Staff determined the net salvage rates. This is the net salvage cost,
11 including gross salvage and cost of removal, of retired plant for an account divided by the book
12 cost of that plant.

13 These estimates of average life and net salvage were used in the equation noted above to
14 ultimately calculate the depreciation rates. In addition to the analysis of statistics, Staff's
15 recommended rates are informed by judgment and relevant previous orders of the Commission.

16 Data utilized by Staff for this study included retirement data ranging from the 1950's up
17 to September 30, 2015,³¹ and salvage data for the years 2005 to 2010 and 2013 to 2017.
18 In addition, Staff received additional data via Liberty Midstates – MO's responses to Staff's
19 Data Requests for retirements that occurred between October 1, 2015 and December 31, 2017.
20 Staff intended to use this additional data to provide an updated recommendation for estimates
21 of average life, however upon preparing the additional data, Staff discovered that
22 Liberty Midstates – MO had recorded retirements that exceeded the plant balances that were
23 reported in the first data set. For this reason, Staff decided to omit the data from October 1, 2015
24 to December 31, 2017 from its testimony until Liberty Midstates – MO provides a reasonable
25 explanation for the discrepancy, or provides corrected data. Staff Data Request No. 0097.3 was
26 submitted on February 26, 2018 to address this issue. Staff may update depreciation rates and
27 estimates of average life based on the resolution of the issue disclosed in Staff Data Request
28 No. 0097.3; however, Staff expects the additional information will affect the proposed rates only
29 slightly, if at all.

³¹ Submitted along with the direct testimony of Liberty Midstates – MO witness Dane A. Watson.

1 **E. Comparison of Liberty Midstates – MO Study Data and Staff Study Data**

2 Staff would like to point out one major difference between the study data submitted by
3 Staff and the study data submitted by Liberty Midstates - MO. The retirement data utilized for
4 the determination of depreciation rates for Liberty Midstates - MO included property from all
5 three regulated divisions of Liberty Midstates. In other words, property that is presently used
6 solely in Iowa and Illinois was included in the determination of depreciation rates for the
7 Liberty Midstates - MO study. Staff only included property located within Missouri, as that is
8 the only property benefitting Liberty Midstates - MO's ratepayers and under the jurisdiction
9 of the Missouri Public Service Commission. Staff omitted all property outside of Missouri from
10 its study.

11 **F. General Plant Amortization**

12 As explained in the direct testimony of Liberty Midstates –MO's witness Dane A.
13 Watson,³² Liberty Midstates is requesting to use General Plant Amortization (referred to as
14 "Vintage Year Accounting" by Mr. Watson). This request is specifically for property contained
15 in Account Nos. 391, 393, 394, 395, 397, 398, and 399 (including all subaccounts).
16 This amortization method is approved by the Federal Energy Regulatory Committee and will
17 reduce the detail that is required when Liberty Midstates – MO records future retirements.

18 One downside of this method is that actuarial life analysis, which is a statistical analysis
19 using aged retirement data, cannot be performed for property that uses this method for
20 amortization. However, reasonable estimates of service life and salvage would still be attainable
21 through professional knowledge and judgement.

22 Staff does not oppose Liberty Midstates – MO's use of General Plant Amortization on a
23 going forward basis for the previously mentioned accounts. Staff's proposed depreciation rates
24 for the General Plant Amortization Method are included in Appendix 3, Schedule SBM-d1.

25 **G. Whole Life vs. Remaining Life**

26 Staff utilized and recommends the Whole Life technique to determine depreciation rates.
27 Liberty Midstates – MO instead utilized the Remaining Life technique to determine the rates

³² p.17, lines 1-4, Direct Testimony of Dane A. Watson, Case No. GR-2018-0013, Liberty Utilities, September 2017.

1 suggested by Mr. Watson. This difference in technique does not constitute a major discrepancy
2 in how life and salvage parameters are determined, but rather how depreciation rates are
3 calculated using those parameters.

4 **H. Cost of Removal for Meters**

5 Staff discovered during the course of its depreciation study that the cost of removal
6 recorded for meters (Plant Account 381) is abnormally high when compared with other Missouri
7 utilities. This resulted in a net salvage for Plant Account 381 that exceeded -400% for the years
8 2013, 2014, and 2015. By comparison, other major gas, electric, and water companies within
9 Missouri include a net salvage for meters that ranges between -10% and 10%. Staff submitted
10 Data Request Nos. 0301 and 0318 to investigate the cause of the abnormal costs of removal that
11 Liberty Midstates – MO has recorded. The response to Data Request No. 0318 is due after the
12 filing of this direct testimony and will be reviewed for inclusion in rebuttal testimony.

13 Liberty Midstates – MO’s response to Staff Data Request No. 0301 included additional
14 salvage data for the years 2015, 2016, and 2017. The response shows that, as a percent of
15 retirement amount, the cost of removal for meters has decreased sharply over the last two years.

16 Currently, Staff’s recommendation for net salvage for Account 381 is 0%.
17 Liberty Midstates – MO has suggested a net salvage of -35%, which is significantly outside the
18 range of other Missouri utilities. Staff is open to updating its suggested rate for Account 381 if
19 Liberty Midstates – MO can provide sufficient explanation and details for the high cost of
20 removal that has been recorded.

21 **I. Ordered Rates for Liberty Midstates - MO’s 399 Accounts**

22 While reviewing documents submitted by Liberty Midstates - MO, Staff realized Liberty
23 Midstates - MO is not using Commission authorized depreciation rates for the following
24 Corporate Plant Account Numbers: 399.0 – Other Tangible Property - Corporate, 399.1 - Other
25 Tangible Property – Servers Hardware - Corporate, 399.3 – Other Tangible Property – Network
26 Hardware - Corporate, and 399.5 – Other Tangible Property – PC Software - Corporate.
27 However, Liberty Midstates - MO is using the correct depreciation rates for Corporate Plant
28 Account 399.4 – Other Tangible Property – PC Hardware - Corporate. The following chart
29 provides a summary of the depreciation rates that Liberty Midstates - MO is actually using to

1 record depreciation for the Corporate plant accounts on its general ledger as well as the
 2 depreciation rates that were ordered by the Commission in Case No. GR-2014-0152.

| FERC Account | Depreciation Rates Used by Company in General Ledger | Commission Authorized Depreciation Rates |
|------------------------------|--|--|
| 399.0 Corp Other Tang. Prop. | 14.29% | 4.75% (Not Litigated) |
| 399.1 Corp Servers | 18.98% | 14.29% (Litigated) |
| 399.3 Corp Network Hardware | 18.98% | 14.29% (Litigated) |
| 399.4 Corp PC Hardware | 18.98% | 18.98% (Litigated) |
| 399.5 Corp PC Software | 14.29% | 18.98% (Litigated) |

4
 5 In addition, Liberty Midstates - MO is not using the correct depreciation rates for
 6 the local district level FERC plant accounts that are referenced in the *Revised Partial Stipulation*
 7 *and Agreement As to Certain Issues* in Liberty Midstates - MO's prior rate case, Case No.
 8 GR-2014-0152. The following chart summarizes the differences that exist for these accounts.

| FERC Account | Depreciation Rates Used by Company in General Ledger | Commission Authorized Depreciation Rates |
|-------------------------------|--|--|
| 399.3 Direct Network Hardware | 18.98% | 4.75% |
| 399.4 Direct PC Hardware | 18.98% | 4.75% |
| 399.5 Direct PC Software | 14.29% | 4.75% |

10
 11 To account for these errors, Staff included adjustments to correct the depreciation reserve
 12 balances for all depreciation reserve accounts into which Liberty Midstates - MO has recorded
 13 depreciation in its general ledger using incorrect depreciation rates.

14 **J. Recommendation**

15 Staff recommends that the Commission order Liberty Midstates – MO to use the rates
 16 listed in Schedule SBM-d1 of Appendix 3.

17 *Staff Witness/Expert: Stephen B. Moilanen*

1 ***XI. Appendices***

2 **Appendix 1 - Staff Credentials**

3 **Appendix 2 - Confidential** - Detailed Direct Testimony of David Murray and
4 Support for Staff Cost of Capital Recommendations

5 **Appendix 3 - Other Staff Schedules**

6 Confidential Response to Staff Data Request No. 0044 - John P. Cassidy
7 Response to Staff Data Request No. 0136 (c) - James R. Dittmer
8 Depreciation - Stephen B. Moilanen

BEFORE THE PUBLIC SERVICE COMMISSION

OF THE STATE OF MISSOURI

In the Matter of Liberty Utilities)
(Midstates Natural Gas) Corp. d/b/a) Case No. GR-2018-0013
Liberty Utilities' Tariff Revisions)
Designed to Implement a General Rate)
Increase for Natural Gas Service in the)
Missouri Service Areas of the Company)

AFFIDAVIT OF PAUL K. AMENTHOR

STATE OF MISSOURI)
) ss.
COUNTY OF COLE)

COMES NOW PAUL K. AMENTHOR and on his oath declares that he is of sound mind and lawful age; that he contributed to the foregoing Staff Report - Cost of Service; and that the same is true and correct according to his best knowledge and belief.

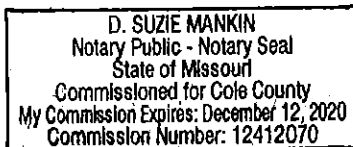
Further the Affiant sayeth not.

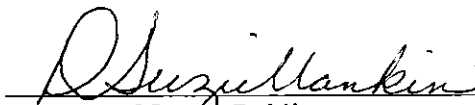


PAUL K. AMENTHOR

JURAT

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this 28th day of February 2018.





Notary Public

BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF MISSOURI

In the Matter of Liberty Utilities)
(Midstates Natural Gas) Corp. d/b/a) Case No. GR-2018-0013
Liberty Utilities' Tariff Revisions)
Designed to Implement a General Rate)
Increase for Natural Gas Service in the)
Missouri Service Areas of the Company)

AFFIDAVIT OF CHRISTOPHER D. CALDWELL

STATE OF MISSOURI)
) ss.
COUNTY OF COLE)

COMES NOW CHRISTOPHER D. CALDWELL and on his oath declares that he is of sound mind and lawful age; that he contributed to the foregoing Staff Report - Cost of Service; and that the same is true and correct according to his best knowledge and belief.

Further the Affiant sayeth not.

Christopher D. Caldwell
CHRISTOPHER D. CALDWELL

JURAT

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this 28th day of February 2018.

D. SUZIE MANKIN
Notary Public - Notary Seal
State of Missouri
Commissioned for Cole County
My Commission Expires: December 12, 2020
Commission Number: 12412070

D. Suzie Mankin
Notary Public

BEFORE THE PUBLIC SERVICE COMMISSION

OF THE STATE OF MISSOURI

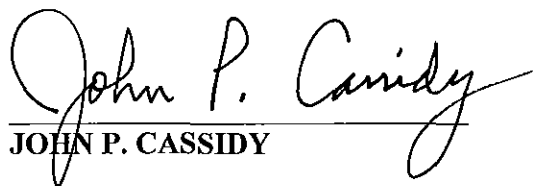
In the Matter of Liberty Utilities)
(Midstates Natural Gas) Corp. d/b/a) Case No. GR-2018-0013
Liberty Utilities' Tariff Revisions)
Designed to Implement a General Rate)
Increase for Natural Gas Service in the)
Missouri Service Areas of the Company)

AFFIDAVIT OF JOHN P. CASSIDY

STATE OF MISSOURI)
) ss.
COUNTY OF COLE)

COMES NOW JOHN P. CASSIDY and on his oath declares that he is of sound mind and lawful age; that he contributed to the foregoing Staff Report - Cost of Service; and that the same is true and correct according to his best knowledge and belief.

Further the Affiant sayeth not.

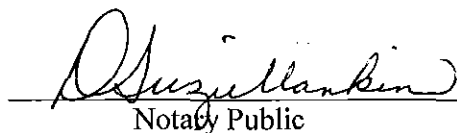


JOHN P. CASSIDY

JURAT

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this 28th day of February 2018.

D. SUZIE MANKIN
Notary Public - Notary Seal
State of Missouri
Commissioned for Cole County
My Commission Expires: December 12, 2020
Commission Number: 12412070



Notary Public

**BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF MISSOURI**

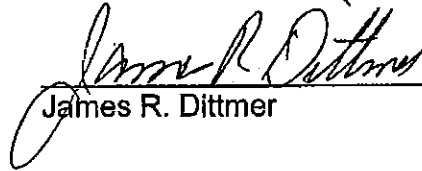
| | | |
|---|---|-----------------------|
| In The Matter of Liberty Utilities (Midstates |) | |
| Natural Gas) Corp. d/b/a Liberty Utilities' |) | |
| Tariff Revisions Designed to Implement a |) | Case No. GR-2018-0013 |
| General Rate Increase for Natural Gas |) | |
| Service in the Missouri Service Areas of the |) | |
| Company |) | |

AFFIDAVIT OF JAMES R. DITTMER

State of Missouri)
) ss
County of Jackson)

COMES NOW James R. Dittmer, and on his oath declares that he is of sound mind and lawful age; that he contributed to the attached *Direct Testimony*; and that the same is true and correct according to his best knowledge and belief.

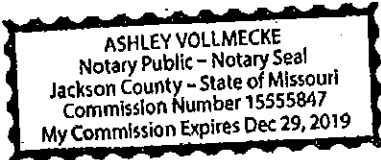
Further the Affiant sayeth not.

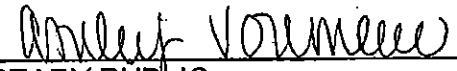


James R. Dittmer

JURAT

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Jackson, State of Missouri, at my office in Lee's Summit, on this 27 day of February, 2018.





NOTARY PUBLIC

BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF MISSOURI

In the Matter of Liberty Utilities)
(Midstates Natural Gas) Corp. d/b/a)
Liberty Utilities' Tariff Revisions)
Designed to Implement a General Rate)
Increase for Natural Gas Service in the)
Missouri Service Areas of the Company)


Case No. GR-2018-0013

AFFIDAVIT OF LISA M. FERGUSON

STATE OF MISSOURI)
)
COUNTY OF COLE) ss.

COMES NOW LISA M. FERGUSON and on her oath declares that she is of sound mind and lawful age; that she contributed to the foregoing Staff Report - Cost of Service; and that the same is true and correct according to her best knowledge and belief.

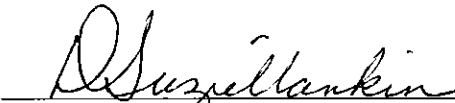
Further the Affiant sayeth not.


LISA M. FERGUSON

JURAT

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this 28th day of February 2018.

D. SUZIE MANKIN
Notary Public - Notary Seal
State of Missouri
Commissioned for Cole County
My Commission Expires: December 12, 2020
/ Commission Number: 12412070


Notary Public

BEFORE THE PUBLIC SERVICE COMMISSION

OF THE STATE OF MISSOURI

In the Matter of Liberty Utilities)
(Midstates Natural Gas) Corp. d/b/a) Case No. GR-2018-0013
Liberty Utilities' Tariff Revisions)
Designed to Implement a General Rate)
Increase for Natural Gas Service in the)
Missouri Service Areas of the Company)

AFFIDAVIT OF BRAD J. FORTSON

STATE OF MISSOURI)
) ss.
COUNTY OF COLE)

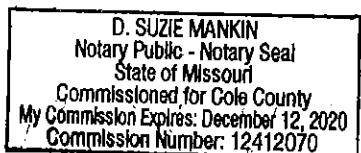
COMES NOW BRAD J. FORTSON and on his oath declares that he is of sound mind and lawful age; that he contributed to the foregoing Staff Report - Cost of Service; and that the same is true and correct according to his best knowledge and belief.

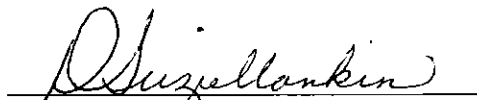
Further the Affiant sayeth not.


BRAD J. FORTSON

JURAT

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this 28th day of February 2018.




Notary Public

BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF MISSOURI

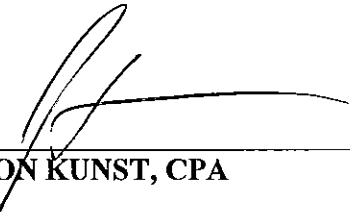
| | | |
|---|---|-----------------------|
| In the Matter of Liberty Utilities |) | |
| (Midstates Natural Gas) Corp. d/b/a |) | Case No. GR-2018-0013 |
| Liberty Utilities' Tariff Revisions |) | |
| Designed to Implement a General Rate |) | |
| Increase for Natural Gas Service in the |) | |
| Missouri Service Areas of the Company |) | |

AFFIDAVIT OF JASON KUNST, CPA

STATE OF MISSOURI)
)
COUNTY OF COLE) ss.

COMES NOW JASON KUNST, CPA and on his oath declares that he is of sound mind and lawful age; that he contributed to the foregoing Staff Report - Cost of Service; and that the same is true and correct according to his best knowledge and belief.

Further the Affiant sayeth not.

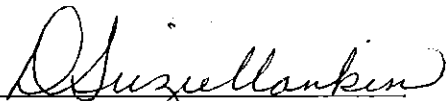


JASON KUNST, CPA

JURAT

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this 28th day of February 2018.

D. SUZIE MANKIN
Notary Public - Notary Seal
State of Missouri
Commissioned for Cole County
My Commission Expires: December 12, 2020
Commission Number: 12412070



Notary Public

BEFORE THE PUBLIC SERVICE COMMISSION

OF THE STATE OF MISSOURI

In the Matter of Liberty Utilities)
(Midstates Natural Gas) Corp. d/b/a) Case No. GR-2018-0013
Liberty Utilities' Tariff Revisions)
Designed to Implement a General Rate)
Increase for Natural Gas Service in the)
Missouri Service Areas of the Company)

AFFIDAVIT OF STEPHEN B. MOILANEN, PE

STATE OF MISSOURI)
) ss.
COUNTY OF COLE)

COMES NOW STEPHEN B. MOILANEN, PE and on his oath declares that he is of sound mind and lawful age; that he contributed to the foregoing Staff Report - Cost of Service; and that the same is true and correct according to his best knowledge and belief.

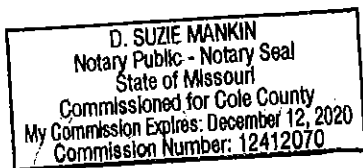
Further the Affiant sayeth not.

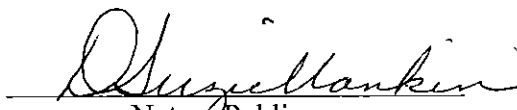


STEPHEN B. MOILANEN, PE

JURAT

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this 28th day of February 2018.





Notary Public

BEFORE THE PUBLIC SERVICE COMMISSION

OF THE STATE OF MISSOURI

In the Matter of Liberty Utilities)
(Midstates Natural Gas) Corp. d/b/a) Case No. GR-2018-0013
Liberty Utilities' Tariff Revisions)
Designed to Implement a General Rate)
Increase for Natural Gas Service in the)
Missouri Service Areas of the Company)

AFFIDAVIT OF DAVID MURRAY, CFA

STATE OF MISSOURI)
) ss.
COUNTY OF COLE)

COMES NOW DAVID MURRAY, CFA and on his oath declares that he is of sound mind and lawful age; that he contributed to the foregoing Staff Report - Cost of Service and Appendix 2 - Detailed Direct Testimony; and that the same is true and correct according to his best knowledge and belief.

Further the Affiant sayeth not.

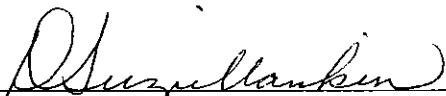


DAVID MURRAY, CFA

JURAT

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this 28th day of February 2018.

D. SUZIE MANKIN
Notary Public - Notary Seal
State of Missouri
Commissioned for Cole County
My Commission Expires: December 12, 2020
Commission Number: 12412070



Notary Public

BEFORE THE PUBLIC SERVICE COMMISSION

OF THE STATE OF MISSOURI

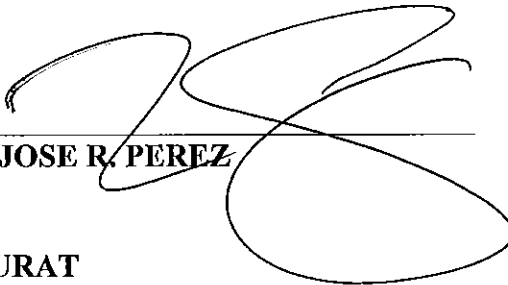
In the Matter of Liberty Utilities)
(Midstates Natural Gas) Corp. d/b/a) Case No. GR-2018-0013
Liberty Utilities' Tariff Revisions)
Designed to Implement a General Rate)
Increase for Natural Gas Service in the)
Missouri Service Areas of the Company)

AFFIDAVIT OF JOSE R. PEREZ

STATE OF MISSOURI)
) ss.
COUNTY OF COLE)

COMES NOW JOSE R. PEREZ and on his oath declares that he is of sound mind and lawful age; that he contributed to the foregoing Staff Report - Cost of Service; and that the same is true and correct according to his best knowledge and belief.

Further the Affiant sayeth not.

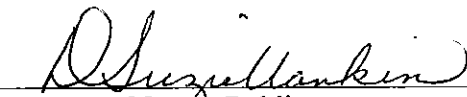


JOSE R. PEREZ

JURAT

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this 28th day of February 2018.

D. SUZIE MANKIN
Notary Public - Notary Seal
State of Missouri
Commissioned for Cole County
My Commission Expires: December 12, 2020
Commission Number: 12412070



Notary Public

BEFORE THE PUBLIC SERVICE COMMISSION

OF THE STATE OF MISSOURI

In the Matter of Liberty Utilities)
(Midstates Natural Gas) Corp. d/b/a) Case No. GR-2018-0013
Liberty Utilities' Tariff Revisions)
Designed to Implement a General Rate)
Increase for Natural Gas Service in the)
Missouri Service Areas of the Company)

AFFIDAVIT OF JOSEPH P. ROLING

STATE OF MISSOURI)
) ss.
COUNTY OF COLE)

COMES NOW JOSEPH P. ROLING and on his oath declares that he is of sound mind and lawful age; that he contributed to the foregoing Staff Report - Cost of Service; and that the same is true and correct according to his best knowledge and belief.

Further the Affiant sayeth not.

Joseph P. Roling

JOSEPH P. ROLING

JURAT

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this 28th day of February 2018.

D. SUZIE MANKIN
Notary Public - Notary Seal
State of Missouri
Commissioned for Cole County
My Commission Expires: December 12, 2020
Commission Number: 12412070

D. Suzie Mankin

Notary Public

BEFORE THE PUBLIC SERVICE COMMISSION

OF THE STATE OF MISSOURI

| | | |
|---|---|-----------------------|
| In the Matter of Liberty Utilities |) | |
| (Midstates Natural Gas) Corp. d/b/a |) | Case No. GR-2018-0013 |
| Liberty Utilities' Tariff Revisions |) | |
| Designed to Implement a General Rate |) | |
| Increase for Natural Gas Service in the |) | |
| Missouri Service Areas of the Company |) | |

AFFIDAVIT OF ASAD A. SHAKOOR

| | | |
|-------------------|---|-----|
| STATE OF MISSOURI |) | |
| |) | ss. |
| COUNTY OF COLE |) | |

COMES NOW ASAD A. SHAKOOR and on his oath declares that he is of sound mind and lawful age; that he contributed to the foregoing Staff Report - Cost of Service; and that the same is true and correct according to his best knowledge and belief.

Further the Affiant sayeth not.



ASAD A. SHAKOOR

JURAT

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this 28th day of February 2018.

D. SUZIE MANKIN
 Notary Public - Notary Seal
 State of Missouri
 Commissioned for Cole County
 My Commission Expires: December 12, 2020
 Commission Number: 12412070



 Notary Public

BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF MISSOURI

In the Matter of Liberty Utilities)
(Midstates Natural Gas) Corp. d/b/a) Case No. GR-2018-0013
Liberty Utilities' Tariff Revisions)
Designed to Implement a General Rate)
Increase for Natural Gas Service in the)
Missouri Service Areas of the Company)

AFFIDAVIT OF SEOUNG JOUN WON, PhD

STATE OF MISSOURI)
) ss.
COUNTY OF COLE)

COMES NOW SEOUNG JOUN WON, PhD and on his oath declares that he is of sound mind and lawful age; that he contributed to the foregoing Staff Report - Cost of Service; and that the same is true and correct according to his best knowledge and belief.

Further the Affiant sayeth not.


SEOUNG JOUN WON, PhD

JURAT

Subscribed and sworn before me, a duly constituted and authorized Notary Public, in and for the County of Cole, State of Missouri, at my office in Jefferson City, on this 28th day of February 2018.

| |
|--|
| D. SUZIE MANKIN Notary Public - Notary Seal State of Missouri Commissioned for Cole County My Commission Expires: December 12, 2020 Commission Number: 12412070 |
|--|


Notary Public