

Exhibit No.: _____
Issue(s) Cost and Quality of Service/
Reliability Metrics/Asbury Power Plant/Rate
Design and Class Cost of Service/Energy Efficiency
and Multi-Family Low-Income Programs
Witness/Type of Exhibit: Marke/Surrebuttal
Sponsoring Party: Public Counsel
Case No.: ER-2019-0374

SURREBUTTAL TESTIMONY

OF

GEOFF MARKE

Filed on Behalf of the Office of the Public Counsel

THE EMPIRE DISTRICT ELECTRIC COMPANY

CASE NO. ER-2019-0374

March 27, 2020

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

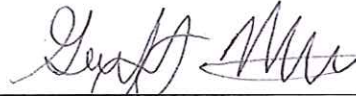
In the Matter of The Empire District)
Electric Company's Request for Authority)
to File Tariffs Increasing Rates for Electric)
Service Provided to Customers in its)
Missouri Service Area) Case No. ER-2019-0374

VERIFICATION OF GEOFF MARKE

Geoff Marke, under penalty of perjury, states:

1. Attached hereto and made a part hereof for all purposes is my surrebuttal testimony in the above-captioned case.

3. My answer to each question in the attached surrebuttal testimony is true and correct to the best of my knowledge, information, and belief.



Geoff Marke
Chief Economist
Office of the Public Counsel

TABLE OF CONTENTS

Testimony	Page
Introduction	1
Cost and Quality of Service	2
Reduction in ROE	5
Reliability Metrics	7
Asbury Power Plant	9
Rate Design and Class Cost of Service	12
Energy Efficiency and Multi-Family Low-Income Programs	13

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CASE NO. ER-2019-0374

I. INTRODUCTION

Q. What are your name, title and business address?

A. Geoff Marke, PhD, Chief Economist, Office of the Public Counsel (“OPC” or “Public Counsel”), P.O. Box 2230, Jefferson City, Missouri 65102.

Q. Are you the same Geoff Marke that filed direct and rebuttal testimony on behalf of OPC?

A. Yes.

Q. What is the purpose of your surrebuttal testimony?

A. I am responding to the rebuttal testimony of other parties’ witnesses on certain topics. Following is a listing of those topics and the witnesses on each to whom I am responding:

- Cost and Quality of Service
 - The Empire District Electric Company and/or Liberty Utilities Company (“Empire,” “Liberty,” “Empire-Liberty”) witness Brent Baker; and
 - Missouri Public Service Commission Staff (“Staff”) witness Gary Bangert;
- Reliability Metrics
 - Staff witness Claire M. Eubanks
- Asbury Power Plant
 - Empire witness Aaron J. Doll; and
 - Staff witness J. Luebbert
- Rate Design & Class Cost of Service
 - Empire witness Timothy S. Lyons;
 - Staff witness Robin Kliethermes;
 - Renew Missouri witness Emily Piontek; and
 - Missouri Energy Consumer’s Group (“MECG”) witness Kavita Maini

- 1 • Energy Efficiency and Multi-Family Low-Income Programs
- 2 ○ Empire witness Nathaniel W. Hackney
- 3 ○ Staff witness Kory J. Boustead; and
- 4 ○ National Housing Trust (“NHT”) witness Annika Brink

5 My silence regarding any issue should not be construed as an endorsement of, agreement with,
6 or consent to any other party’s filed position.

7 **II. COST AND QUALITY OF SERVICE**

8 **Q. Empire witness Baker asserts that APUC’s representations to the City of Jacksonville**
9 **when APUC attempted to purchase Jacksonville’s Municipal System are not germane to**
10 **this proceeding. What is your response?**

11 A. In his defense, I don’t know what he could say. APUC’s representations were clearly at
12 odds with the facts. For my part, I believe that information is absolutely relevant to the
13 Commission as it paints an unsettling picture of how APUC, and by extension, its affiliates
14 (Empire/Liberty being one of them) are managed at the corporate level.

15 **Q. Mr. Baker also disagreed with your assertion that Empire’s costs are out of line and**
16 **countered that Empire would be better compared to a cooperative utility, like Barton**
17 **Electric Cooperative, for its cost of service. What is your response?**

18 A. In direct testimony I provided SNL data to substantiate that in 2018, Empire customers were
19 paying the fourth highest average bill in the United States. Since then, I have come to find out
20 that Empire estimated bills of its customers at a level I have never seen for a utility of its size
21 and cost of service. Whether or not the two are connected, I cannot definitively say.

22 When comparing “Average Price” across utilities there are many things that can skew the
23 comparisons, not least of which is what utilities choose to include or exclude. My comparison
24 looked at all IOUs in the United States. In contrast, Mr. Baker argues that Barton County
25 Electric Cooperative is a better benchmarking stick for Empire. With that in mind, I am now
26 producing a second set of utility bill data, all of which is publically available through the U.S.

1 Energy Information Administration (“EIA”). Table 1 includes all utilities in Southwest
2 Missouri and each of the regulated IOUs in Missouri. That is, I have included geographically
3 relevant cooperatives, Springfield municipal, Ameren Missouri, Every Metro, and Everygy
4 West.

5 Table 1: EIA 2018 utility bundled retail sales of “comparable” Missouri utilities¹

Utility	Ownership	Customers	Sales (MW)	Revenues	Average Price
Barton County	Coop	6,564	159,345	17,763,000	11.15
Sac Osage	Coop	11,121	151,722	19,353,200	12.6
Ozark	Coop	33,324	535,3186	1,925,200	11.57
Barry	Coop	9,667	182,820	20,639,500	11.29
New-Mac	Coop	17,740	413,943	44,041,000	10.64
Southwest	Coop	41,317	611,562	65,113,000	10.65
Webster	Coop	18,520	384,763	31,904,000	8.29
White River Valley	Coop	44,231	787,048	97,635,000	12.41
Laclede	Coop	37,064	685,606	69,410,800	10.12
Se-MA-NO	Coop	6,106	112,216	9,955,800	8.87
Springfield	Muni	115,823	3,142,918	272,379,900	8.67
Empire	IOU	154,042	4,321,595	522,849,900	12.10
Everygy West	IOU	326,627	8,385,396	805,203,200	9.60
Everygy Metro	IOU	289,299	8,675,389	966,953,500	11.15
Ameren Missouri	IOU	1,223,595	33,699,583	3,161,693,900	9.38

6
7 Even when controlling for just these utilities, only Sac Osage and White River Valley
8 cooperatives have an average higher price than what Empire’s ratepayers experience. The
9 customers/members of eight out of the ten cooperatives, the city of Springfield and all of
10 the Missouri Investor owned utilities ratepayers all pay less for their electricity compared
11 to Empire’s ratepayers.

12 **Q. What about Barton County Electric Cooperative, the utility Mr. Baker suggests is a**
13 **more relevant for comparison to Empire?**

14 **A.** Yes, even Barton County Electric Cooperative’s 6,564 members pay approximately 8% less
15 for their electricity service than Empire’s 154,042 customers.

¹ Data from forms EIA-861-schedules 4A & 4D and EIA-861S.

1 **Q. Mr. Baker agrees with your recommendations related to AMI deployment, but asserts**
2 **that issues regarding AMI deployment are not germane to this case. What is your**
3 **response?**

4 A. It's relevant insofar as it speaks to Empire's corporate culture. That is, absent any plans to
5 synchronize investments it looks as though Empire's priorities are maximizing shareholder
6 value in the near-term, not maximizing the cost-effectiveness of serving its retail customers.
7 For example, the Virginia State Corporation Commission just rejected the vast majority of
8 Dominion's grid modernization plan. According to *UtilityDive*:

9 Dominion failed to justify that the most expensive part of its plan, the smart meter
10 proposal, would have "overall benefits to customers" without a comprehensive
11 proposal for time of use (TOU) ratesetting. Implementing the 10-year grid
12 modernization plan fully would cost customers nearly \$7 billion, with AMI costing
13 \$752.5 million total. Of the first \$838 million investment required by the plan, of
14 which nearly \$304 million was designated for smart meters, regulators approved
15 only \$212 million.²

16 The Commission order stated:

17 While Dominion wants approval to collect from its customers the substantial costs
18 of full deployment of AMI technology, it has failed to submit a comprehensive
19 proposal to roll out TOU rate design across its entire territory and make such rates
20 available to all its customers.³

21 My testimony on this topic functions both as a placeholder and a warning that OPC will not
22 support staggered AMI deployment that serves to merely increase rate base but provides no
23 benefits to customers. Ameren Missouri finds itself in much the same position as Empire
24 when it comes to AMI deployment. Both utilities have suggested they plan to make large

² Cheorghiu, J. (2020) Virginia rejects Dominion's \$752M smart meter plan, other grid mod proposals. *UtilityDive*.
<https://www.utilitydive.com/news/virginia-rejects-dominions-752m-smart-meter-plan-other-grid-mod-proposal/575007/>

³ Case: No. PUR-2019-00154. http://www.scc.virginia.gov/newsrel/r_domgrid_20.pdf

1 capital investments in this technology. However, the two utilities have not approached this
2 issue in the same manner. As the Commission is well aware, Ameren Missouri's most recent
3 rate case introduced time-of-use rate designs and began a constructive dialogue with
4 regulators and other relevant stakeholders. Empire has provided no plan, no implementation
5 strategy, no customer education, and no TOU options. In short, in my opinion, Empire is
6 already operating behind. Which is saying something, because neither Company has
7 provided a cost-benefit analysis to justify the AMI investments to begin with.

8 All of that being said, I would strongly recommend that Empire engage with OPC and
9 regulators before they move forward with deploying AMI. Moreover, considering both the
10 medical concerns (self-distancing) and the economic concerns (recession) that have since
11 transpired from the COVID-19 epidemic, I have serious reservations with the Company
12 attempting such an implementation at this time.

13 **Reduction in ROE**

14 **Q. Would you summarize your points on the cost of Empire's service and the quality of that**
15 **service?**

16 A. Empire's customers pay in the upper quartile to receive bottom quartile service when
17 benchmarked against other utilities. Since its last rate case, a non-exhaustive list of the
18 Company's distinctions include the following:

- 19 • Lost approximately \$100 million in consistent poor hedging bets over a ten-year
20 period with no repercussions;⁴
- 21 • The only electric utility to refuse to flow Tax Cuts and Jobs Act of 2017 savings
22 back to customers;
- 23 • Scored 116 out of 138 possible utilities in overall customer satisfaction;
- 24 • Created over a \$100 million in stranded costs where none existed, and want to keep
25 all profits regardless of the investment no longer being used and useful (Asbury);

⁴ Peters, B. (2017) OPC alleges Empire lost \$100 million due to risky practices. *Missouri Times*.
<https://themissouritimes.com/opc-alleges-empire-lost-100-million-due-risky-practices/>.

- 1 • Managed to shift risk on a speculative merchant generation scheme onto its captive
2 ratepayers and increase rate base by more than 50% in the process (assuming the
3 wind investments get built);
- 4 • The only Missouri IOU whose shareholders do not contribute a cent to low-income
5 bill assistance (all of these costs are borne by ratepayers) despite having 13 out of
6 the 16 counties it serves with poverty rates higher than Missouri's average;
- 7 • Collected over \$500 million in revenues the past three years and donated less than
8 \$500 thousand in charitable giving to support their community; and
- 9 • Did not disclose to regulators or OPC that for multiple years they were estimating
10 tens of thousands of bills (a 654% increase from 2017 to 2018) including more than
11 25% of all bills estimated as recent as December of 2019, less than 100 days ago.

12 **Q. Do you have any recommendations in light of the quality of the service Empire has**
13 **provided since APUC acquired it?**

14 A. I recommend that the Commission make an explicit reduction of 60 basis points on top of the
15 Company's allowed return on equity ("ROE").

16 **Q. Why a 60 basis point reduction?**

17 A. In 2012 J.D. Power and Associates produced a white paper titled *How Customer Satisfaction*
18 *Drives Return On Equity for Regulated Electric Utilities*.⁵ The study was done in
19 collaboration with Standard & Poor's and examined the relationship between customer
20 satisfaction and ROE. The paper concluded, that "similar to profitability and credit ratings,
21 customer satisfaction has a notable impact on ROE for regulated electric utilities." The
22 premise of the paper is that customer satisfaction, regulatory outcomes and investments
23 likely reinforce one another (i.e. a virtuous cycle). A follow-up study was produced in 2015
24 in conjunction with SNL Energy, and found a 60 basis point differential between the

⁵ Heath, A. & D. Seldin (2012) *How Customer Satisfaction Drives Return on Equity for Regulated Utilities*. J.D. Power and Associates.

<https://www.jdpower.com/sites/default/files/How%20Customer%20Satisfaction%20Drives%20Return%20On%20Equity%20for%20Regulated%20Electric%20Utilities%20White%20Paper.pdf>.

1 approved ROE in utilities that scored in the lowest quartile in customer satisfaction
2 compared to those in the highest quartile by aggregating rate case and JD Power score data
3 from 2001 to 2014.⁶

4 By every metric I have seen, Empire has scored poorly relative to the industry norms when
5 it comes to customer satisfaction. The sheer number of estimated bills over such an
6 extended time has only served to reinforce my position that Empire should be held
7 accountable for its failure in quality of service. I strongly recommend that the Commission
8 hold the Company accountable and make the explicit reduction in ROE tied to their overall
9 failure in providing appropriate quality of service. Empire's customers pay in the upper
10 quartile to receive bottom quartile service when benchmarked against other utilities. The
11 Commission issuing a reduced ROE as a result of poor quality of service should produce
12 better results.

13 **III. RELIABILITY METRICS**

14 **Q. What did Staff witness Eubanks say about Empire's reliability?**

15 A. Ms. Eubanks provided several graphs showing reliability trends scores for Empire from
16 2008 to 2018 and concluded that "Empire's overall system reliability has continued to
17 improve, therefore it is unlikely there are widespread reliability issues."⁷

18 **Q. Do you agree with her conclusion that it is unlikely there are widespread reliability 19 issues at Empire?**

20 A. In part. Staff relied on monthly self-reports submitted by Empire. I looked at annual reports
21 Empire filed with FERC.⁸ The range of years examined varied between my analysis and
22 Staff's as well. Finally, I provided additional comparative scores for Missouri's other IOU's

⁶ Federico, L., Heath, A. & D. Seldin (2012) How Customer Satisfaction Drives Return on Equity for Regulated Utilities. *J.D. Power and Associates* and *SNL Energy*
https://www.jdpower.com/sites/default/files/12.11.15_how_customer_satisfaction_drives_return_on_equity_for_regulated_utilities.pdf.

⁷ Rebuttal Testimony of Claire M. Eubanks. P. 5, 11-12.

⁸ Time and lack of access to information prevented me from cross-checking Staff's monthly data with the FERC Form 861 data to see if they were consistent.

1 as a reference. Context is also important. Empire’s reliability scores were very bad for a
2 number of years, not least of which was due to the large power failure from the 2011 Joplin
3 tornado. Ratepayers have paid copious amounts of money to Empire over the past decade
4 for its *Operation Toughen-Up* investments to “harden” its distribution and transmission
5 system over the past decade; the fact that its reliability results have improved should be a
6 given.

7 In my rebuttal testimony I showed six-years of Empire reliability data from FERC Form
8 861 reporting. I then concluded two things: 1.) that the data may have been reported
9 incorrectly;⁹ and 2.) that, on a whole, Empire customers experience more frequent and
10 longer outage durations (relative to other Missouri investor-owned utilities), but also
11 experience fewer major events (defined as outages that exceed 10% of the customer base at
12 one time).

13 To conclude, I agree with Staff’s opinion only insofar that Empire’s reliability data is
14 trending in the right direction when the 2011 Joplin tornado is considered within the range.

15 **Q. Do you have recommendations to the Commission regarding Empire’s reliability?**

16 A. Yes. This is Empire’s first general electric rate case under new management. The Company
17 now has three years of operational service and data to draw from. At this point, regulators
18 ought to have a good idea how the Company is running. System reliability data is a metric
19 that has long been collected, but only sparingly been discussed in regulatory proceedings.
20 Given the level of customer complaints at the public hearings, and the outstanding questions
21 and uncertainty in this case, I cannot definitively state whether Empire-Liberty’s reliability
22 data is good, bad, or something else. With that in mind, I recommend that the Commission
23 order Empire-Liberty to work with OPC and Staff to determine appropriate reliability
24 metrics that would culminate in a 7-year retrospective benchmarking analysis of the
25 Company’s reliability scores relative to investor-owned utilities in Missouri, Kansas,

⁹ For example, the “with and without major events” inputs for SAIDI and SAIFI were the same for 2013, 2015 and 2016. Meaning, that there was never an outage that encompassed at least 10% of its customers at once during those three years.

1 Oklahoma, and Arkansas (or additional entities) in its next rate case and to then be filed
2 annually thereafter in the Company's Reliability Report. Benchmarking against other
3 utilities will allow Empire to improve reliability by comparing its performance against other
4 utilities. Given the added increase in capital spend on distribution and transmission service
5 across all utilities, good public policy and accountability would be exercised by publically
6 and transparently having this information available for everyone to easily see. Put simply,
7 the public is not being served if reliability data is being measured, filed, and then forgotten.¹⁰

8 **IV. ASBURY POWER PLANT**

9 **Q. What was Empire's response to your objections to including the costs of and investment**
10 **in a large, undepreciated coal power plant in Empire's cost of service used to set rates in**
11 **this case that is not operational?**

12 A. Empire's witness Aaron Doll testified:

13 The impact of Asbury's retirement on the Company's revenue requirement is not yet
14 ripe for a ratemaking determination, because all of the facts surrounding Asbury's
15 retirement are not yet known and are very much under development at this time.¹¹

16 **Q. What is your response?**

17 A. To design rates based on the assumption that Empire's Asbury coal plant continues to be
18 used and useful after Empire has ceased operating and has retired that plant violates the
19 fundamental goal of ratemaking—for Empire's prospective retail customer revenues to
20 match Empire's net costs, return of investment, and return on investment required for it to
21 provide the electric service for which those retail customers are paying.

22

¹⁰ OPC recently came to the same conclusion as it pertains to data surrounding customer disconnections, which prompted a Commission-ordered rulemaking workshop. It may very well be that utility reliability data should undergo the same transparent and open process and may necessitate a future workshop.

¹¹ Rebuttal Testimony of Aaron J. Doll, p. 2, 1-3.

1 **Q. How did Empire respond to your assertion that Asbury was rendered uneconomic**
2 **because of decisions made by Empire’s management?**

3 A. Mr. Doll testifies:

4 Asbury was rendered uneconomic due to changing market conditions. The primary
5 contributors to the market changes are historically low natural gas prices and
6 increased access to low cost wind generation in the SPP footprint.¹²

7 He then cites to Asbury’s diminishing net capacity factor as evidence for his argument
8 (70.3% in 2012 to 47.7% in 2019) and concludes with the following:

9 The proliferation of solar generation and battery storage will further strain the
10 market economics of Asbury. Below is the SPP Generation Interconnection queue
11 for active requests with 99.7% of the future requests involving additional wind, solar
12 or battery storage.¹³

Active SPP Generation Interconnection Requests							
Year	Battery	Combustion	CT	Gas	Gas Turbine	Solar	Wind
2020	2,790				38	10,853	20,592
2021	577					5,916	10,204
2022	719					2,970	1,127
2023	1,916	40		120		5,803	3,210
2024	600					73	

13 As of February 28, 2020

14 **Q. Do you have a response to his counter-argument that Asbury was uneconomic because**
15 **of low natural gas and increased wind proliferation?**

16 A. Yes. Asbury became uneconomic because Liberty management accelerated their plans to
17 increase Empire’s rate base (when no increase was needed) by having ratepayers absorb the
18 risk in a speculative merchant generation scheme. Mr. Doll’s counter-argument conveniently
19 omits the “Customer Savings Plan,” just like the “Customer Savings Plan” conveniently omits

¹² Ibid, p., 3, 1-3.

¹³ Ibid, p. 3, 7-11.

1 that Empire plans for its customers to be charged both the return on and return of a coal plant
2 in which they just invested over a \$100 million dollars in 2015.

3 **Q. What is your response to his counter-argument that Asbury only had a 47.7% capacity**
4 **factor in 2019?**

5 A. What Empire plans on replacing Asbury with will have an even lower capacity factor.

6 **Q. What is your response to his counter-argument that more than 3 GW of battery storage,**
7 **10 GW of solar, and 20.5 GW of Wind in the SPP interconnection queue (for 2020 alone)**
8 **will further strain the economics of running Asbury?**

9 A. Where was this witness in the Empire Customer Savings Plan and CCN wind cases? That is
10 exactly why Empire's wind investments are going to struggle making off-system sales. This
11 was also one of my central arguments throughout both dockets—EO-2018-0092 and EA-2019-
12 0010.

13 As to his point that this proliferation of generation will make Asbury uneconomic, I point out
14 that the generation coming onto SPP is almost entirely intermittent. Additionally, coal prices
15 have dropped too. The Commission need look no further than the FAC savings procured by
16 Ameren Missouri in its recently settled case—Case No. ER-2019-0335.

17 **Q. Mr. Doll spent a fair amount of his limited testimony responding to your suggestion that**
18 **Empire consider seasonal dispatch. What is your response?**

19 A. Mr. Doll's seemingly random selection of the unique economic and regulatory conditions
20 surrounding his Xcel Energy's IRP citations has no bearing on Empire's inability to not
21 consider seasonal dispatch. My qualified suggestion for seasonal dispatch of Asbury in rebuttal
22 testimony is called "due diligence," and it is exactly what reasonable management would do
23 when trying to minimize the financial impact of their poor investment decisions.

1 **V. RATE DESIGN & CLASS COST OF SERVICE**

2 **Q. Has any party changed their position regarding rate design or the revenue allocation**
3 **across classes?**

4 A. No party has changed its position, and where each party is on Empire's revenue requirement
5 is no clearer now than it was when they prefiled their rebuttal testimony. Additionally, both
6 Public Counsel and Staff have filed testimony articulating serious reservations about the
7 reliability of any of the class revenues numbers used in to the CCOS studies, given the
8 unprecedented number of bills that Empire has estimated.

9 **Q. What are your recommendations regarding rate design?**

10 A. First, I continue to recommend that the residential customer charge remain as is. Second,
11 the Company's proposed weather normalization rider should be dismissed out-of-hand and
12 not considered again until the Company can demonstrate that it is capable of providing
13 accurate and consistent bills to its customers. Finally, with the information before me today,
14 I strongly maintain that this case should result in a revenue decrease to Empire and,
15 therefore, a rate reduction to all of Empire's customers. Given the uncertainty surrounding
16 the economy I recommend that any rate reduction be applied solely to the residential
17 customer class. Then the rest of the rate classes would not experience a reduction or increase
18 to their rates. Alternatively, I recommend that 75% of the decrease be applied to the
19 residential customer class and the remaining 25% applied to the commercial service/small
20 heating service customer rate class.

21 To be clear, my recommendation is based primarily on two realities: 1.) the data used to
22 inform the CCOS's are flawed and inaccurate due to the large number of estimated bills;
23 and 2.) we are experiencing a potential economic downturn of historic proportions that will
24 most directly impact residential customers.

25 I believe residential customers are going to be impacted hardest by COVID-19. If small
26 businesses cannot stay open they will be shut down. Period. They are not going to be
27 accruing a continual debt beyond their fixed charges. Residential customers cannot "shut

1 down.” The nature of this epidemic is such, where self-distancing and quarantining is a
2 reality that necessitates continual utility service. The same cannot be said for many
3 businesses.

4 **VI. ENERGY EFFICIENCY AND MULTI-FAMILY LOW-INCOME**
5 **PROGRAMS**

6 **Q. What positions did Empire, Staff and NHT take on energy efficiency program funding**
7 **in their rebuttal testimonies?**

8 A. They generally testify in favor of maintaining Empire’s energy efficiency program
9 expenditure as is until Empire can file a MEEIA case. NHT has taken the position to increase
10 spending on low-income multi-family programs.

11 **Q. Was that OPC’s position as well?**

12 A. My rebuttal testimony recommended to keep funding as is until the next rate case.

13 **Q. Is it still OPC’s position?**

14 A. No.

15 **Q. Why not?**

16 A. In light of the economic impact taking place as a result of the COVID-19 crisis, I am strongly
17 recommending that costs related to energy efficiency rebates and activities be removed from
18 the revenue requirement to, hopefully, be revisited in the next rate case.

19 In the past week, the U.S. Department of Labor said 3.283 million people applied for
20 unemployment benefits, up from 282,000 the previous week and more than quadruple the
21 previous single week record set in 1982.¹⁴ The number of claims of unemployment benefits
22 in Missouri was roughly 30% of the total number submitted for all of 2019 according to the

¹⁴ Rugaber, C. (2020) US jobless claims hit 3.3 million, quadruple previous record. *St. Louis Post Dispatch*.
https://www.stltoday.com/news/national/govt-and-politics/us-jobless-claims-hit-million-quadruple-previous-record/article_98728413-ccb8-591c-b631-d374f2e4e10d.html#tracking-source=home-top-story-1.

1 Missouri Department of Labor director Anna Hui.¹⁵ That number is expected to grow
2 considerably.

3 It is also important to note that unemployment benefits vary considerably from state-to-
4 state. Most states offer up to 26 weeks of unemployment insurance, but some offer far less.
5 Missouri only offers 13 weeks, per statute.^{16,17} Under normal conditions, it can take as much
6 as 18 to 22 days for someone to receive their first benefit payment, and the maximum
7 unemployment benefit, which is 4% of their average quarterly wages during the two highest
8 paid quarters over a given base period (today that would be October 2018 thru September
9 2019), is not to exceed \$320. Finally, benefits can only be drawn for a maximum of 20
10 weeks. That is, the maximum unemployment benefit amount an unemployed resident of
11 Missouri can draw over a five-month period is \$6,400 before they are removed from
12 receiving the benefit.¹⁸

13 Most recently, The Federal Reserve Bank of St. Louis President James Bullard predicts that
14 the U.S. unemployment rate may hit 30% in the second quarter because of shutdowns to
15 combat COVID-19.¹⁹ For context, the highest unemployment rate during last recession
16 occurred in 2009 at 9.9%. For historical context, The Great Depression's unemployment
17 rate hit 24.9% in 1933 and ushered in FDR's New Deal.²⁰ To be clear, the FED is publically

¹⁵ Stewart, T. (2020) Jobless claims spike dramatically in Missouri as officials scramble to get benefits paid faster. *St. Louis Post Dispatch*. https://www.stltoday.com/news/local/govt-and-politics/jobless-claims-spike-dramatically-in-missouri-as-officials-scramble-to/article_7029e90e-e6a6-52c7-a351-3c814f2d5c51.html#tracking-source=home-top-story-1.

¹⁶ Only North Carolina and Florida have fewer weeks with 12; however, those states can increase their payouts with the state's unemployment rate. Missouri does not increase its unemployment payout or numbers with its state's unemployment rate.

¹⁷ Center on Budget and Policy Priorities (2020) Policy Basics: how many weeks of unemployment compensation are available? <https://www.cbpp.org/research/economy/policy-basics-how-many-weeks-of-unemployment-compensation-are-available>.

¹⁸ Missouri Department of Labor (2020) Eligibility for unemployment benefits. https://labor.mo.gov/DES/Claims/eligibility_web

¹⁹ Matthews, S. (2020) U.S. jobless rate may soar to 30%, Fed's Bullard Says *Bloomberg News*. <https://www.bloomberg.com/news/articles/2020-03-22/fed-s-bullard-says-u-s-jobless-rate-may-soar-to-30-in-2q>.

²⁰ Amadeo, K. (2020) Unemployment rate by year since 1929 compared to inflation and GDP. *The Balance*. <https://www.thebalance.com/unemployment-rate-by-year-3305506>.

1 predicting that we may exceed the highest recorded unemployment rate by 5.1% *in the next*
2 *quarter.*

3 If the goal is to reduce load, then this coming recession will more than do that. Bullard also
4 predicted an unprecedented 50% drop in gross domestic product.²¹

5 My expert recommendation is for immediate action, I advise the Commission to place a
6 freeze on all MEEIA and demand-side-management (DSM) spending across all utilities
7 until further notice. The number of customers having to make very difficult decisions about
8 how they spend their money in the near future is rapidly increasing. I am cautiously
9 optimistic that this will not be a prolonged event, but we should be making the necessary
10 steps now to mitigate the damage if my optimism is misplaced. That means in a time of
11 crisis cutting spending.

12 **Q. What about the COVID-19 stimulus package. Does that affect your recommendation?**

13 A. No. I am not sure the stimulus package is going to be enough. The situation is very fluid
14 and we would be best served by erring on the side of caution.

15 From a practical standpoint, most families are isolating themselves in their homes and
16 apartments and actual work installing energy efficiency measures is swiftly dropping. Few
17 people want contractors in their homes, and many contractors either do not want to work in
18 potentially unsafe conditions or are prohibited from doing so. And, again, most families are
19 going to place a greater importance on their immediate needs not a long-term capital
20 investment that will cover its costs in five years.

21 The more likely scenario for Empire, is that cost of service is needlessly increased as the
22 budget remains unspent. Remember, Empire rarely spends down its energy efficiency
23 budget in any given year and those were years of economic growth.

²¹ Ibid.

1 When this recession is over, a cure for COVID-19 found, and business goes back to
2 “normal,” Empire can revisit pursuing a MEEIA, and/or request to continue its former
3 default program in its next general rate case.

4 **Q. Do you have any final comments on this topic of program funding?**

5 A. Yes. After more than a decade of expansion, the next recession is here. The coronavirus has
6 sent the economy into a tailspin in the United States and around the globe. The restaurant
7 industry has ground to a halt. So have air travel, auto manufacturing, hotels, gyms, and
8 cruise lines. The stock market has posted enormous losses and wild daily swings, to the
9 point that trading has sometimes been paused altogether, and the price of oil has plummeted.
10 Layoffs across the country are taking place in waves. We’re producing less, spending less,
11 and consuming less. And everything is interconnected in a global economy. Missouri’s
12 utilities are not immune and neither are their ratepayers. The figures I cited here may very
13 well be worse by the time the Commission reads this as we do not have a good idea how
14 long this will last or at what magnitude. There will also no doubt be long-term changes to
15 the economy the likes of which will no doubt have secondary and tertiary impacts we
16 haven’t even considered (and is well beyond the scope of this testimony).

17 OPC is closely monitoring the number of accounts across utilities that are being placed in
18 “disconnect status,” that is, customers who would be involuntarily disconnected, but for the
19 utility-imposed moratoriums in place. On a weekly basis, Missouri utilities are providing
20 data to Staff and OPC with the following information:

- 21 • # of customer accounts by class.
- 22 • # of customer accounts by class who are in arrearage but have not been placed in
23 “disconnect status.” That is, customers who would not be involuntarily disconnected
24 if the COVID-19 moratorium was lifted, but would still have an outstanding debt to
25 pay (e.g., they are one month late on payment).
- 26 • # of customer accounts by class who have been placed in “disconnect status.” That
27 is, customers who would be involuntarily disconnected if the COVID-19

1 moratorium was lifted (this should also include customers who were recently
2 reconnected due to the COVID-19 moratorium).

- 3 • # of estimated bills by customer account by class each month.²²

4 If the FED's predictions prove to be even remotely accurate then these numbers will rise.
5 As it stands, customer on those accounts will continue to use power and will continue to
6 accrue more debt to their utilities. How long that will/can go on is a subject I hope not to
7 have to face, but if this crisis extends as long as some forecasters are predicting, then
8 extremely difficult trade-offs will need to be made.

9 DSM expenditures are an example of an expense that we do not have the luxury for in time
10 of crisis, but there are no doubt others.²³ More so than ever, what is essential depends on
11 how much money one has. Right now, utilities, an essential service, are not disconnecting
12 accounts for non-payment. If unemployment figures approach or exceed Great Depression
13 estimates and this economic downturn is prolonged, there will be massive arrearages that
14 will impact every other facet of continued operation, in part, because customers will know
15 they can stop paying their utility bills and prioritize other needs.

16 It is incumbent upon all parties, to ensure that we are truly following least cost planning,
17 management and implementation at this moment more than ever. As a matter of sound
18 economic and social policy, every potential action should be on the table now to minimize
19 the immediate and long-term stress placed on ratepayers and the economy.

20 **Q. Does this conclude your surrebuttal testimony?**

21 A. Yes.

22

²² Moving forward, there may be additional information collected to provide a status on the overall economic health of Missouri's regulated ratepayers.

²³ As of this writing, the United States now also leads the world in confirmed COVID-19 cases with 85,505 (at 3/26/2020, 9:42 pm), or approximately 4,000 more than China. Coronavirus COVID-19 Global Cases by the Center for Systems Science and Engineering (CSSE) at John Hopkins University.

<https://www.arcgis.com/apps/opsdashboard/index.html#/bda7594740fd40299423467b48e9ecf6>.