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The Empire District Electric Company (EDEC)

Case No. ER-2016-0023

Prepared Rebuttal Testimony of

Donald Johnstone

On behalf of

Midwest Energy Users' Association (MEUA)

May, 2016



MEUR Exhibit No. Date 6-02-16 Reporter 4F File No. ER- 2016-0023

Before the Missouri Public Service Commission

The Empire District Electric Company (EDEC)

Case No. ER-2016-0023

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Before the Missouri Public Service Commission

The Empire District Electric Company

(EDEC)

Case No. ER-2016-0023

Prepared Rebuttal Testimony of Donald Johnstone

1	Q	PLEASE STATE YOUR NAME AND ADDRESS.
2	Α	My name is Donald Johnstone and my address is 384 Black Hawk Drive, Lake Ozark,
3		Missouri, 65049. I am employed by Competitive Energy Dynamics, L. L. C.
4	Q	ARE YOU THE SAME DONALD JOHNSTONE THAT SUBMITTED PREFILED DIRECT
5		TESTIMONY IN THIS PROCEEDING?
6	Α	Yes. My qualifications and experience are summarized in Appendix A to my direct
7		testimony.

1	20W	MAKT OF 1220E2 ADDRESSED AND RECOMMENDATIONS
2	Q	WHAT ISSUES WILL YOU ADDRESS IN THIS REBUTTAL TESTIMONY?
3	Α	I address matters of class cost allocation, spread of the increase, design of the Large
4		Power rate. At a summary level, I continue to support rates that are primarily based
5		on the cost of services provided. At a more detailed level, I respond to the direct
6		testimonies of Staff and MECG. Staff submitted a class cost-of-service study, but
7		changed its method from the last case and also proposes a dead zone in regard to cost-
8		based rates. I will respond. MECG recommends a substantial reduction in the tail
9		block of the large power rate based in part on a sharp change in SPP locational
10		marginal costs. While I support the direction, I caution against reliance on
11		demonstrably volatile SPP marginal cost as the basis for the large power rate
12		application.
13	Q	WHAT RECOMMENDATIONS DO YOU HAVE IN THIS REBUTTAL TESTIMONY?
14	A	My recommendations follow:
15		• I continue to recommend use of an appropriate class cost-of-service study as a
16		primary determinant in setting the revenue responsibility for each class and
17		also as a primary determinant in the design of the rates within each customer
18		class.
19		While Staff alone submitted a class cost-of-service study in direct testimony,

Staff made changes in the methodology it used for distribution costs. The change detracts from the usefulness of Staff's study 1) because it brings the Commission an inconsistent approach, 2) because the changes move away from

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1 the principle of cost causation and 3) because the changed methodology 2 diverges from normal practice. 3 Rate Design Staff in this case did not base its class cost-of-service study on the revenue requirement even with the direct case of the accounting Staff. Rate 4 5 Design Staff's revenue requirement includes an estimate of the costs of the 6 Riverton conversion, and there are questions regarding the costs used. 7 Staff recommends a plus or minus 5% dead zone in which there would be no revenue neutral adjustments to class revenues. There is no substantial basis 8 9 for the 5% dead zone, and class rates and revenues should be moved consistently towards a proper cost basis. 10 11 I disagree with the MECG proposal to reduce the tail block of the large power rate based on a rationale of reduced locational marginal costs in the Southwest 12 13 Power Pool (SPP). While marginal costs can be a relevant consideration in appropriate circumstances, they have been unstable. It is at least inconsistent 14 and may be unduly discriminatory to adopt a marginal cost approach for a 15 16 single rate element for a single class of service. 17 I continue to encourage consideration of the EDEC proposal to increase the fixed charges (customer and demand charges) to recover the additional 18

revenues under the General Power and Large Power rates.

CLASS COST-OF-SERVICE STUDY ISSUES

2 Q DO YOU CONTINUE TO SUPPORT COST OF SERVICE AS THE PRIMARY BASIS FOR

Yes. A fully allocated embedded class cost-of-service study, properly done and in

3 SETTING RATES?

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- combination with rates that reasonably reflect the costs determined by the study,
 leads to a result with numerous positive attributes. First is the matter of equity. In
 my experience customers accept rates based on the cost of service as being equitable.

 Customers do not expect others to pay costs incurred on their behalf. Of course, they
 also always prefer costs that are as low as practicable consistent with safe and reliable
 service. Stability in rates and stability in revenues are also promoted with cost-based
- rates. For example, to the extent that energy, demand, and customer related charges
- are aligned with costs, rates will remain more stable over time for customers. Also,
- utility revenues will tend to follow changes in cost. Finally, a proper cost basis is
- important to help ensure rates free of undue discrimination.
- 15 Q IS THERE ROBUST CLASS COST-OF-SERVICE STUDY INFORMATION IN THIS CASE?
- 16 A So far, only Staff has submitted a class cost-of-service study. While that is good as far
- 17 as it goes, some concerns arise. First, and perhaps most obvious, there is only a single
- 18 perspective on what constitutes a proper study. In this case that perspective is at
- 19 odds with what the Commission relied upon in the most recent EDEC rate case (ER-
- 20 2014-0351).

7	Q	IN WHAT WAYS IS THE STAFF STUDY AT ODDS WITH THE PROCEDURES AND
2		METHODS IT FOLLOWED IN THE STUDIES IT SUBMITTED IN ER-2014-0351?
3	A	There are several important deviations in the allocation of demand related distribution
4		costs.
5	Q	WHAT ARE THE IMPORTANT STAFF DEVIATIONS IN METHODOLOGY FROM ITS LAST
6		STUDY?
7	A	First, in spite of the fact that the Commission in the last case relied on the study
8		submitted by Staff, allocation methods were changed in this case. This denies the
9		Commission a consistent measurement of the class cost-of-service and the progress
10		towards cost-based rates.
11		Second, one of the important aspects of its Base/Intermediate/Peaking (BIP)
12		method for production cost allocation used by Staff is the manner in which plants are
13		dispatched to meet load. Plant dispatch was an issue addressed at the technical
14		conference. Absent some agreement and an update to the Staff class cost-of-service
15		study, the issues pertaining to these substantial costs that form an important basis for
16		the BIP study are unresolved.
17		The second deviation is complicated by the fact that the Staff study is not
18		based on Staff's direct case for revenue requirements. As I understand it, the reason
19		is an attempt to better reflect the ultimate result which is expected to include the
20		increase due to Riverton 12 combined cycle plant operation.

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WERE THE STAFF'S DISTRIBUTION DEMAND ALLOCATION FACTORS IN THE LAST 1 Q 2 CASE CRITICIZED IN A MANNER THAT LED TO THE STAFF'S CHANGES IN THIS DOCKET? 3 4 Α Not that I am aware of. Nor does Staff's Rate Design Report explain what, if anything, 5 was wrong with the method it used in the last case. IS THE ALLOCATION OF DISTRIBUTION COSTS ADDRESSED BY THE 1992 NARUC Q 6 7 ELECTRIC UTILITY COST ALLOCATION MANUAL (THE NARUC MANUAL)? Yes. And Staff attached excerpts from the NARUC Manual to its Class Cost-Of-Service 8 Α 9 Study And Rate Design Report as a part of Appendix 2 of the report. Apparently Staff 10 accepts the NARUC Manual, at least as a useful reference. 11 Q DOES THE NARUC MANUAL ADDRESS THE TREATMENT OF DISTRIBUTION COSTS IN A 12 CLASS COST-OF-SERVICE STUDY? 13 A Yes, distribution costs are addressed in Chapter 6. (NARUC Manual, pp. 86-99) Among 14 the salient topics are the customer component of costs and a proper reflection of 15 diversity among customer loads. PLEASE EXPLAIN MORE SPECIFICALLY YOUR CONCERNS WITH THE CHANGE IN 16 Q 17 STAFF'S METHOD. 18 First is the point that the Commission found favor with the prior study and relied on it Α 19 in the Report and Order in ER-2014-0351. In this circumstance I would expect a careful explanation if Staff wished to go in a different direction with its study. Second 20 is the point that Staff changed its allocations of demand related distribution costs. In 21 22 the instant docket Staff uses coincident peak demands for the allocation factors

instead of demands that reflect the higher loads that arise due to the natural absence of diversity on the distribution system.

It is well established and accepted that as one moves from the generation and transmission level to the furthest reaches of the distribution system, it is not possible to maintain reliable service if capacity is installed in amounts equal to only the coincident peak demands. The point is this. At the furthest reaches of the distribution system, capacity in most cases must be sufficient to handle the simple sum of individual customer maximum loads on a circuit. There is little or no diversity benefit at the ends of the lines.

Empire simplely cannot design its system based on the kind of diversity that is implied by Staff's changed method - that relies on coincident peaks for the allocation of demand related distribution costs. The consequence would be overloaded equipment and unreliable service.

The NARUC Manual explains that distribution facilities are designed and operated "primarily to meet localized area loads." (NARUC Manual, p. 96) The NARUC Manual goes on to state

"Local area loads are the major factors in sizing distribution equipment. Consequently, customer-class noncoincident demands (NCPs) and individual customer maximum demands are the load characteristics that are normally used to allocate the demand component of distribution facilities." (NARUC Manual, p. 97)

In summary the Staff made changes in its allocations of distribution costs move away from normal practice and away from the principal of cost causation that should underpin all aspects of a class cost-of-service study. Therefore, the study is not a

1 accurate indicator of the cost of service in this case and not an indicator of changes in 2 cost since the last case.

3 STAFF'S PROPOSAL FOR A 5% DEAD ZONE AROUND COST OF SERVICE

- 4 Q PLEASE EXPLAIN STAFF'S PROPOSAL FOR A 5% DEAD ZONE.
- Under Staff's proposal, adjustments would only be made if class revenues vary more than 5% from the cost of service. Said another way, Staff proposes a dead zone in which the results of the class cost-of-service study would be ignored with respect to class revenue responsibility. Staff's dead zone is a range of plus or minus 5% from cost for each class.
- 10 Q DO YOU SUPPORT STAFF'S PROPOSED DEAD ZONE OF INACTION?
- 11 A No. The approach is essentially arbitrary and without quantitative support. A better
 12 approach is to continue to move towards the cost of service for all classes in
 13 reasonable steps. The Commission's Report and Order in ER-2014-0351 is such an
 14 approach.
- ABSENT STAFF'S DEAD ZONE, IS THERE ANY DANGER OF MOVING THE RATES OF ANY

 CLASS UP OR DOWN IN THIS CASE, AND THEN IN THE OPPOSITE DIRECTION WITH A

 SUBSEQUENT COST BASED ADJUSTMENT IN THE NEXT CASE?
- While it is possible that the direction in a particular situation could change from one case to the next, this has not been a problem in my experience. Of course, 1) when costs change, 2) loads change, or 3) there is a change in the cost of service methodology, the direction could change. But then such changes of direction would

- 1 be appropriate because of the changed circumstances. The possibility of such changes
- 2 is no reason to ignore the equities and benefits of rates based on the cost of service.

3 MEUA'S RECOMMENDED SPREAD OF THE RATE INCREASE

- 4 Q IN CONSIDERATION OF STAFF'S CLASS COST-OF-SERVICE STUDY, DO YOU HAVE A
- 5 CHANGE IN YOUR RECOMMENDATION FOR THE SPREAD OF THE INCREASE?
- 6 A Not at this time. MEUA continues to recommend the approach taken by the
- 7 Commission in EDEC's last case, elimination of a significant amount of the variations
- 8 from costs with no class receiving a decrease. I continue to encourage consideration
- 9 of the EDEC proposal as a starting point for consideration. MEUA will monitor the
- development of the record and reserves the right to make adjustments at another
- 11 appropriate time in the proceeding.
- 12 Q DOES THIS CONCLUDE YOUR TESTIMONY AT THIS TIME?
- 13 A Yes it does.

BEFORE THE

PUBLIC SERVICE COMMISSION OF MISSOURI

ER-2016-0023

)

In the Matter of The Empire District Electric Company's Request for

Authority to Implement a General) Rate Increase for Electric Service)					
Affidavit of Donald E. Johnstone					
State of Missouri)) SS County of St. Louis)					
Donald E. Johnstone, being first duly sworn, on his oath states:					
1. My name is Donald E. Johnstone. I am a consultant and President of Competitive Energy Dynamics, L. L. C. I work at 384 Black Hawk Drive, Lake Ozark, MO 65049. I have been retained by Stuart W. Conrad on behalf of the Midwest Energy Users' Association.					
2. Attached hereto and made a part hereof for all purposes is my rebuttal testimony in written form for introduction into evidence in the above captioned proceeding.					
3. I hereby swear and affirm that my testimony is true and correct and show the matters and things they purport to show. Donald E. Johnstone					
Subscribed and sworn to this 3rd day of May, 2016. DERRICK YOUNG Notary Public-Notary Seal State of Missouri, St Louis County Commission # 12622223 My Commission Expires Aug 12, 2016					