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APPLICATION OF EL PASO ELECTRIC COMPANY TO CHANGE RATES BEFORE THE STATE OFFICE OF ADMINISTRATIVE HEARINGS

DIRECT TESTIMONY OF

RAYMOND J. STANLEY ON BEHALF OF

VINTON STEEL, LLC

OCTOBER 22, 2021

DIRECT TESTIMONY OF RAYMOND J. STANLEY <u>TABLE OF CONTENTS</u>

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1		I. <u>INTRODUCTION</u>
2	Q.	PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.
3	A.	My name is Raymond J. Stanley, R. J. Stanley and Associates, Inc., 366 Pine Valley Dr.,
4		Fairview, Texas 75069.
5	Q.	WHAT IS YOUR POSITION WITH R. J. STANLEY AND ASSOCIATES, INC.?
6	A.	I am President of the firm. In this capacity, I am responsible for the direction and
7		supervision of all consulting activities, including cost-of-service, rate design, and load
8		research projects for electric and gas utilities. Also, I am responsible for the presentation
9		of expert testimony in formal rate proceedings.
10	Q.	WILL YOU PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND
11		TRAINING?
12	A.	I graduated from Newark College of Engineering with a Bachelor of Science Degree in
13		Electrical Engineering in 1967. In 1967 and 1968, I took several graduate courses in
14		mathematics at Brooklyn Polytechnic Institute. After leaving the U.S. Army in 1970, I
15		attended Long Island University and graduated in 1973 with a Master's Degree in
16		Management Science and Engineering. I have attended various utility-sponsored
17		conferences, schools, seminars, and meetings involving cost analysis, engineering, and
18		economic discussions.
19	Q.	WHAT IS YOUR PROFESSIONAL BACKGROUND?

A. Upon graduation from Newark College of Engineering in 1967, I worked for the Long
Island Lighting Company for approximately a year and a half as an Engineer in the

Distribution Engineering Department. In that capacity, I participated in various efforts to
 design computer systems to help in analyzing the impact of electric system interruptions
 on total system reliability.

4 Late in 1968, I was inducted into the Armed Services where I was assigned to the Special 5 Missions Group of the Army Material Command. In that position, I assisted civilian 6 engineers and scientists to develop electronic gear used to gather military intelligence in 7 combat zones. After my honorable discharge in 1970, I returned to Long Island Lighting Company and worked for approximately three more years in the Distribution Engineering 8 9 Department. In that position, I was responsible for various cost-benefit studies pertaining 10 to the purchase and refurbishing of equipment utilized on the electric distribution system. 11 I assisted in the preparation of comparative engineering economic studies involving the 12 relative service reliability of new equipment. I was also involved in the development of 13 various contractual arrangements with outside contractors.

14 I joined Gilbert Management Consultants in January of 1974 as an Engineer involved in 15 rendering consulting services in the rate and regulatory area to public utility companies. In 16 September of 1978, I opened the Company's first regional office (in Austin, Texas) 17 specializing in rate and regulatory affairs. In March of 1980, I left Gilbert Management 18 Consultants and joined Ebasco Business Consulting Company as Manager of Client Services. In October of 1981, I was elected by the Board of Directors to the position of 19 20 Regional Vice President of the Dallas Regional Office. In April of 1983, I established my 21 current firm. R. J. Stanley & Associates, Inc. provides rate and regulatory consulting 22 services to clients in various sectors. Prior clients have included investor-owned utilities, 23 electric cooperatives, municipal utilities, industrial customers, and consumer groups.

Q. HAVE YOU RECEIVED A LICENSE AS A REGISTERED PROFESSIONAL ENGINEER?

A. Yes, I have received a license as a Registered Professional Engineer in two States. I was
licensed, by examination, in the Commonwealth of Pennsylvania–Registration No.
21519-E and in the State of Texas–Registration No. 45356.

Q. IN THE COURSE OF YOUR EMPLOYMENT BY LONG ISLAND LIGHTING COMPANY, GILBERT MANAGEMENT CONSULTANTS, EBASCO BUSINESS CONSULTING COMPANY, AND R. J. STANLEY AND ASSOCIATES, INC., HAVE YOU PARTICIPATED IN STUDIES IN CONNECTION WITH MATTERS WHICH HAVE COME BEFORE REGULATORY COMMISSIONS?

Yes. I have prepared or assisted in the preparation of cost-of-service studies and rate studies 11 A. presented in proceedings before the Federal Energy Regulatory Commission, South 12 13 Carolina Public Service Commission, Wisconsin Public Service Commission, Massachusetts Department of Public Utilities, Arizona Corporation Commission, Arkansas 14 Public Service Commission, Louisiana Public Service Commission, New Mexico Public 15 16 Utility Commission, Public Utility Commission of Texas, El Paso Public Utility Board, 17 and several State and Federal District Courts. I assisted in the preparation of service 18 reliability studies presented by the Long Island Lighting Company to the New York Public 19 Service Commission. In addition, I prepared and presented comparative rate of return 20 studies in an antitrust proceeding before the United States District Court. I have presented 21 cost of service and rate design testimony in several state district courts.

Q. DID YOU SPONSOR COST-OF-SERVICE OR RATE-RELATED STUDIES AS AN EXPERT WITNESS IN ANY OF THESE PROCEEDINGS?

A. Yes. I was an expert witness in proceedings before the Massachusetts Department of Public
Utilities, Wisconsin Public Service Commission, Public Utility Commission of Texas,
Arizona Corporation Commission, Arkansas Public Service Commission, Louisiana Public
Service Commission, New Mexico Public Utility Commission, El Paso Public Utility
Board, Federal Energy Regulatory Commission, State District Court of Missouri, State
District Court of Louisiana, State District Court of Oklahoma, and the Federal District
Court. Most of my testimony pertained to cost-of-service or rate design issues.

10 Q. ON WHOSE BEHALF ARE YOU PRESENTING DIRECT TESTIMONY IN THIS 11 PROCEEDING?

A. I am presenting testimony on behalf of Vinton Steel, LLC. The steel mill is served under EPE's Rate 30 and EPE's Rate 38 and specializes in the production of rebar for the commercial and industrial construction industry. In addition, Vinton Steel produces materials used in the mining industry.

16 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS CASE?

17 A. In my testimony, I will address the distribution of the proposed revenue increase to the
18 various classes of service; the design of the proposed interruptible rate; and the demand
19 and energy loss factors used by EPE.

1		II. <u>SUMMARY OF RECOMMENDATIONS</u>
2	Q.	PLEASE BRIEFLY SUMMARIZE YOUR RECOMMENDATIONS IN THIS
3		CASE.
4	A.	In my direct testimony, I make the following recommendations:
5	•	All firm classes of service should be limited to a base rate increase of 1.5 times the system
6		average percentage increase that may be allowed by this Commission.
7	•	The final Rate 38, Noticed Interruptible Power Service, should be designed by applying
8		the same overall base rate percentage change that may be approved to both the demand and
9		energy components of the rate.
10	•	EPE should be ordered to explain and justify why the proposed energy related loss factors
11		are greater than demand related loss factors.
12		III. <u>DISTRIBUTION OF THE PROPOSED REVENUE REQUIREMENT</u>
13	Q.	WHAT ARE EPE'S STATED GOALS IN PROPOSING THEIR DISTRIBUTION
14		OF ITS CLAIMED REVENUE REQUIREMENT?
15	A.	EPE states that it is attempting to minimize subsidies between rate classes, send proper
16		price signals, encourage energy conservation, reduce contributions to EPE's system peak
17		demand, and provide stable rates for customers. EPE believes that it has distributed the
18		overall jurisdictional revenue requirement to the classes so that the relative rate of return
19		produced by each class will reach 1.0. EPE states that it has moderated the increases to
20		some classes in accordance with gradualism limitations and in an attempt to reduce rate

20 some classes in accordance with gradualism limitat21 shock.

1 Q. WHAT DO YOU MEAN BY THE TERM "RELATIVE RATE OF RETURN"?

A. Based on the cost allocation study presented by EPE, each class of customer will produce
a measure of profitability, or rate of return. If all classes produce the same, or equalized,
rate of return, the study will indicate that the relative rates of return are at unity. In this
case, EPE is requesting a jurisdictional rate of return of 7.985%. If each class produced the
same rate of return (i.e., 7.985%), unity would be achieved and the relative rate of return
for each class would be 1.0.

8 Q. DO YOU GENERALLY AGREE WITH THE RATE DESIGN GOALS LISTED BY 9 EPE IN THIS CASE?

10 A. Yes, though I disagree with EPE's recommendations as to how those goals should be 11 achieved. I agree that it is important to set electric rates that eliminate, to the extent 12 reasonably possible, subsidies between classes of service. If the proper cost-based price 13 signals are sent to customers, more stable rates will result from the standpoint of both the 14 customer and the utility, economic efficiency can be achieved, and energy conservation 15 follows as a result of rational customer responses to the correct price signals.

I also agree that moving all classes to a unity relative rate of return in a single rate proceeding can cause "rate shock." This Commission has applied the principal of "gradualism" when setting class rates in a given rate proceeding, allowing rate classes to move significantly toward, rather than immediately to, fully cost-based rates for the purpose of avoiding undue economic hardship.

Q. HAS EPE ADOPTED THE PRINCIPAL OF GRADUALISM IN THIS AND PRIOR RATE APPLICATIONS?

1 A. Yes. Mr. James Schichtl discusses EPE's efforts in past cases to move classes towards cost. 2 He details the Company's revenue allocation proposals in EPE's Docket Nos. 37690, 3 40094, and 44941. He goes on to state that EPE proposes to moderate the cost-based 4 revenue requirements for certain rate classes, including "Residential, Water Heating, Small 5 General Service, General Service, and City/County rate groups." (Schichtl Direct, page 38, line 30-31). 6

Q.

7 **BRIEFLY DESCRIBE HOW EPE PROPOSES TO MOVE CLASSES TOWARD** 8 **RATE PARITY IN THIS CASE, WITH MODERATION?**

9 EPE proposes to set "caps" and "floors" for certain rate classes in order to moderate the A. 10 proposed base rate increases and decreases. Specifically, EPE proposes to cap the base rate 11 increase for the Residential and Water Heating classes to 1.5 times the overall system 12 percentage increase and set a floor of 50% of the decrease indicated by their cost-of-service 13 study to the Small General Service, General Service, and City and County Service classes. 14 Since the overall proposed system base rate increase for the Texas jurisdiction is 7.79%, 15 the cap of 1.5 times the average suggests that no class should receive a base rate increase more than 11.69%. 16

17 Q. HAS EPE PROPOSED A BASE RATE INCREASE MORE THAN 11.689% FOR **ANY CLASS IN THIS PROCEEDING?** 18

19 A. Yes. According to Exhibit A, page 2 of 4 of the rate filing package, there are 17 retail 20 customer classes listed. Of those, EPE proposes to increase base rates more than 11.69% for 9 of those classes. At the same time, EPE is proposing to reduce the base rates for 5 of 21 22 the 17 classes of service.

Q. WHAT ARE ALL OF THE CLASS PERCENTAGE BASE RATE INCREASES PROPOSED IN THIS CASE BY EPE?

A. The proposed base increases are shown below in Table 1. The data showing the proposed
change in base revenue and the average percentage change for this table was taken from
Exhibit A, page 2 of 4 contained in the rate filing package. I have added the ratio to the
jurisdictional total which reflects the multiplier that EPE is proposing for each class of
service.

8

Texas Retail Rate Classes	Proposed	Avg. Change	Ratio to
	Change in Base	in Base	Jurisdictional
	Revenue (\$)	Charges (%)	Total
Schedule 01-Residential	38,536,221	14.08	1.81
Schedule 02-Sm General Serv.	(809,757)	(2.43)	(0.31)
Schedule 07-Outdoor Rec. Light.	167,566	36.19	4.65
Schedule 08-Govt Street Lighting	(897,779)	(22.19)	(2.85)
Schedule 09-Traffic Signals	5,103	5.36	0.69
Schedule 11-TOU Muni Pumping	321,059	3.18	0.41
Schedule 15-Electrolytic Refining	456,409	24.94	3.20
Schedule 22-Irrigation	147,853	34.92	4.48
Schedule 24-General Service	(2,515,587)	(2.01)	(0.26)
Schedule 25-Lge Power Service	2,139,407	5.95	0.76
Schedule 26-Petroleum Refinery	2,260,115	20.61	2.65
Schedule 28-Area Lighting	(229,631)	(7.83)	(1.01)
Schedule 30-Electric Furnace	347,772	29.18	3.75
Schedule 31-Military Reservation	2,091,786	16.08	2.06
Schedule 34-Cotton Gin	49,244	37.03	4.75
Schedule 41- City/County Service	(635,733)	(3.32)	(0.43)
Rider Water Heating	69,755	14.70	1.89
Rate 38-Noticed Interruptible	324,235	7.77	1.00
Texas Jurisdictional Service	41,828,036	7.79	1.00

TABLE 1

9

As shown above, EPE's rate proposal would result in some classes receiving base rate percentage increases that are much more than the 1.5 times multiplier that EPE has as a

1 stated goal. Rate 30, for example, which is the tariff used to bill the firm power consumed 2 at Vinton Steel, would receive a base rate increase that is 3.75 times the system average! YOU MENTIONED EARLIER THAT EPE DETAILED ITS PROPOSALS TO 3 Q. 4 MODERATE BASE RATE CHANGES IN PRIOR CASES. WHAT WERE THE 5 **PROPOSED "MULTIPIERS" OR CAPS IN THOSE CASES?** 6 A. According to the testimony of Mr. Schichtl, EPE proposed to limit rate class increases to a 7 2.0 times multiplier in Docket No. 37690; a limit of eight percent base rate increase for most firm rate classes in Docket No. 40094; and in Docket No. 44941, EPE proposed a 8 9 limit using a multiplier of 2.0 times the system average. As stated above, Rate 30, for 10 example, would receive a base rate increase of 29.18% which equates to a multiplier of 11 that is 3.75 times the system average. The increase proposed for Rate 30 not only violates 12 gradualism movement in this case, but it would produce increases greater than the class

13 limitations advocated by EPE in its prior cases.

14Q.DO YOU BELIEVE THAT EPE'S PROPOSED RATES IN THIS CASE WILL15LEAD TO THE ACCOMPLISHMENT OF EPE'S STATED GOAL OF

16 ACHIEVING COST-BASED RATE PARITY FOR ALL CLASSES IN THIS CASE?

A. No. Due to the method of capping and setting floors for the rate increases and decreases
proposed in this case, the resulting relative rates of return by class of service do not reach
unity. In the response to FMI 1-14, attached as Exhibit RJS-1, EPE provides the resulting
rates of return and relative rates of return for each class under the proposed rate schedules
and including the "capped" and "floored" revenues. According to that response, Rate 30,
Electric Furnace, would produce a rate of return of 8.717%, and a relative rate of return of

1		1.092. Therefore, EPE's proposed revenue allocation to Rate 30 assigns a base rate
2		increase that is 3.75 times the system average <u>and</u> produces a rate of return that is over 9%
3		greater than the jurisdictional average.
4	Q.	DO YOU BELIEVE THAT THE CLASSES SELECTED FOR THE CAP BY EPE
5		ARE IN FACT THE ONLY ONES THAT ARE AT RISK OF RATE SHOCK IN
6		THIS PROCEEDING ABSENT THE APPLICATION OF GRADUALISM?
7	A.	No, I do not. All rate classes are susceptible to the risk of rate shock, and the distribution
8		of the final revenue increase should take that fact into account. The proposed increase for
9		Rate 30 is a prime example of rate shock risk for classes other than those few selected by
10		EPE for moderation through application of gradualism.
11	Q.	WHAT DO YOU RECOMMEND WITH REGARDS TO THE DISTRIBUTION OF
12		FINAL REVENUE INCREASE THAT MAY BE ALLOWED IN THIS CASE?
12 13	A.	FINAL REVENUE INCREASE THAT MAY BE ALLOWED IN THIS CASE? If any revenue increase is approved in this case, no class should incur a percentage base
12 13 14	A.	FINAL REVENUE INCREASE THAT MAY BE ALLOWED IN THIS CASE? If any revenue increase is approved in this case, no class should incur a percentage base rate revenue increase that is more than 1.5 times the jurisdictional average that may be
12 13 14 15	A.	FINAL REVENUE INCREASE THAT MAY BE ALLOWED IN THIS CASE? If any revenue increase is approved in this case, no class should incur a percentage base rate revenue increase that is more than 1.5 times the jurisdictional average that may be allowed by the Commission in this case.
12 13 14 15 16	A.	FINAL REVENUE INCREASE THAT MAY BE ALLOWED IN THIS CASE? If any revenue increase is approved in this case, no class should incur a percentage base rate revenue increase that is more than 1.5 times the jurisdictional average that may be allowed by the Commission in this case. IV. NOTICED INTERRUPTIBLE POWER SERVICE RATE DESIGN
12 13 14 15 16 17	А. Q.	FINAL REVENUE INCREASE THAT MAY BE ALLOWED IN THIS CASE?If any revenue increase is approved in this case, no class should incur a percentage baserate revenue increase that is more than 1.5 times the jurisdictional average that may beallowed by the Commission in this case.IV. NOTICED INTERRUPTIBLE POWER SERVICE RATE DESIGNBRIEFLY DESCRIBE THE NOTICED INTERRUPTIBLE POWER SERVICE
12 13 14 15 16 17 18	А. Q.	FINAL REVENUE INCREASE THAT MAY BE ALLOWED IN THIS CASE?If any revenue increase is approved in this case, no class should incur a percentage baserate revenue increase that is more than 1.5 times the jurisdictional average that may beallowed by the Commission in this case.IV. NOTICED INTERRUPTIBLE POWER SERVICE RATE DESIGNBRIEFLY DESCRIBE THE NOTICED INTERRUPTIBLE POWER SERVICERATE PROPOSED BY EPE IN THIS CASE.
 12 13 14 15 16 17 18 19 	А. Q. А.	FINAL REVENUE INCREASE THAT MAY BE ALLOWED IN THIS CASE?If any revenue increase is approved in this case, no class should incur a percentage baserate revenue increase that is more than 1.5 times the jurisdictional average that may be allowed by the Commission in this case.IV. NOTICED INTERRUPTIBLE POWER SERVICE RATE DESIGNBRIEFLY DESCRIBE THE NOTICED INTERRUPTIBLE POWER SERVICE RATE PROPOSED BY EPE IN THIS CASE.The rate is available to customers with connected capacity of 1 MW or more, with a
 12 13 14 15 16 17 18 19 20 	А. Q. А.	FINAL REVENUE INCREASE THAT MAY BE ALLOWED IN THIS CASE? If any revenue increase is approved in this case, no class should incur a percentage base rate revenue increase that is more than 1.5 times the jurisdictional average that may be allowed by the Commission in this case. IV. NOTICED INTERRUPTIBLE POWER SERVICE RATE DESIGN BRIEFLY DESCRIBE THE NOTICED INTERRUPTIBLE POWER SERVICE RATE PROPOSED BY EPE IN THIS CASE. The rate is available to customers with connected capacity of 1 MW or more, with a minimum level of firm demand of 600 kW. EPE can make intentional interruptions at any

1	The rate has been in effect for years but has been closed to new customers. In this
2	proceeding, EPE proposes to expand its availability to new customers and extend the total
3	capacity to 75 MW from the existing 47 MW.

4 Q. DO YOU AGREE THAT THE NOTICED INTERRUPTIBLE POWER SERVICE
5 RATE SHOULD BE EXPANDED?

A. Absolutely. In previous applications to change rates filed by EPE, in which we have
participated, we have promoted the value of the interruptible service rate, pointing out that
curtailable load is a valuable resource that EPE can depend upon to improve its service
reliability and reduce costs for all firm power customers. I applaud EPE for proposing to
expand the rate and attempting to make more capacity available on the power system.

Q. YOU MENTIONED THAT CURTAILABLE LOAD IS A VALUABLE RESOURCE THAT WILL IMPROVE SERVICE RELIABILITY FOR ALL FIRM CUSTOMERS. PLEASE EXPLAIN.

14 A. Regarding system reliability, look at Exhibit RJS-2, which is a copy of the response to FMI 15 1-3, Attachment 1. It shows the loads and resources on the EPE system for the years 2021-16 2030, using the most updated load forecast. Notice that line 1.9 of that Exhibit contains the 17 amount of interruptible load on the EPE system and is counted as a generation resource. 18 Also, notice on line 8.0 that EPE uses a 15% planning reserve margin over its 10-year 19 planning horizon. The chart indicates that EPE will not have enough generating capacity 20 to cover its own 15% planning reserve margin, showing a deficit of 64 MW in 2021 21 growing to a shortfall of 77 MW in the year 2030. If interruptible capacity were not 22 available, the deficit in 2021 would be 120 MW and increase to 133 MW in the year 2030. 23 Stated another way, if the interruptible capacity were not available this year, the reserve margin on the EPE system would be only 9.3%, well below the desired 15% required for
 planning purposes.

3 Q. HOW DID EPE TREAT THE REVENUES AND EXPENSES RELATED TO RATE 4 38 - NOTICED INTERRUPTIBLE POWER SERVICE?

5 A. During the test year, the customers taking power under Rate 38 produced \$4,174,343 in 6 base (non-fuel) revenue. As is customary with respect to utility interruptible service 7 offerings, there is no separate class of service for Rate 38 in the EPE cost of service study. 8 Instead, all revenue from Rate 38 is allocated back to all firm customers as a revenue credit. 9 EPE's non-firm revenue allocation method is based on the principle that all firm customers 10 contribute to the plant investments and expenses on the system and all firm customers 11 should therefore be credited with the revenue from non-firm customers as an offset to those 12 costs.

13 Q. HOW WAS RATE 38 DESIGNED IN THIS RATE APPLICATION?

A. First, the proposed rate level for the rate was set by EPE to produce test year revenues of \$4,498,580, for an "average" increase of \$324,237, or 7.77%. The percent increase was set equal to the overall jurisdictional base rate increase that is requested by EPE in this case. The energy charge for Rate 38 was set at the same level as the off-peak energy charge that is contained in EPE's proposed Large Power Service, Rate No. 25. The proposed demand charge for Rate 38 is based upon an estimate of avoided incremental capacity cost and set to a level to produce the desired test year revenues.

1 Q. WAS A RATE OF RETURN DEVELOPED FOR THE CUSTOMERS IN RATE 38?

A. No. It is important to understand that, because interruptible service is not a separate class
in the cost allocation study, no rate base items are allocated to interruptible service. No
operating expenses are allocated and therefore, no annual return, or rate of return is
established for Noticed Interruptible Power Service. Furthermore, no relative rate of return
analysis is possible, nor would there be any reason to attempt it.

7 No rate base or return on investment is assigned to interruptible service because utilities do 8 not plan or build plant for the purpose of serving non-firm load. In EPE's case, customers 9 taking power under the interruptible service rate can be curtailed up to 400 hours in any 10 calendar year. Interruptions can be ordered by EPE at any time and from time to time at 11 EPE's sole discretion. Therefore, EPE does not have to include its interruptible load in its 12 long-term demand forecasts and does not have to include curtailable load in its generation 13 planning. Exhibit RJS-3 contains the response to FMI 1-7. The response states, in part, that 14 "interruptible load is a dispatchable capacity resource in that EPE can call on it as needed 15 and that is being relied upon to serve peak load." In addition, the response states that "it is 16 included in the total resources to meet the peak load and planning reserve margin." EPE 17 considers interruptible load as a capacity resource in its planning process. The added capacity provided by interruptible customers can delay and/or minimize future expansion. 18

EPE can count on the interruptible load as a resource in an emergency, or to maintain its reserve margin to make sure firm customers are provided reliable power and energy. In addition, to take service under the Noticed Interruptible Power Service rate, the customer must install all necessary communication, relay, and breaker equipment at the customer's expense.

Q. YOU MENTIONED THAT EPE DESIGNED RATE 38 BY SETTING THE ENERGY CHARGE EQUAL TO THE OFF-PEAK ENERGY CHARGE CONTAINED IN THE PROPOSED RATE 25. IS THAT APPROPRIATE?

A. No. It is illogical to select a unit cost from one rate class of service in the cost allocation
study and inject that unit cost in the rate design of another class of service. In this case,
EPE developed the off-peak energy charge for Large Power Service, Rate 25, and assumed
that energy unit charge (\$/kWh) should be equal to the energy rate that is contained in the
Noticed Interruptible Power Service, Rate 38.

9 The two types of power service are completely different. Rate 25 is a firm power rate and 10 subject to the allocation of the system-wide customer, demand, and energy cost 11 components. On the other hand, because of the unique nature of interruptible power 12 service, it is not included as a separate class of customers in the cost allocation study. Since 13 interruptible customers are the first to be curtailed during extreme peak system loading or 14 under any other condition that EPE deems necessary, the electrical power delivered to Rate 15 38 customers is a much lower quality of service as compared to power served under EPE's other firm rates. 16

17 Q. DOES EPE PROPOSE TO CHARGE THE SAME OFF-PEAK ENERGY RATE 18 (\$/kWh) TO ALL FIRM POWER CLASSES?

A. No. For example, the proposed off-peak energy charge for Rate 25 is \$0.00119/kWh at the
 transmission level of delivery. The proposed off-peak energy charge in the alternative time of-day (TOD) Rate 24, General Service Rate, at the transmission level of delivery, is
 \$0.04089/kWh (summer) and \$0.02790/kWh (non-summer).

Q. WOULD YOU EXPECT THAT THE OFF-PEAK ENERGY CHARGES BETWEEN RATE 25 AND RATE 24 (TOD) TO BE THE SAME?

A. Not at all. The reason there are separate classes of service is because end-use customers have different usage characteristics such as monthly load factors, peak capacity requirements, delivery voltages, phasing requirements and metering. In addition, joint costs are spread to the firm power classes using multiple customer, demand, and energy allocation factors that vary from class to class. With all of these differences, there is no reason that the charges designed for one class of service should be imposed on another class.

10Q.BESIDES THE FACT THAT RATE 25 IS FIRM SERVICE WHILE RATE 38 IS11CURTAILABLE, ARE THERE OTHER DIFFERENCES BETWEEN THE TWO12RATES?

A. Yes. EPE has assigned two different levels of base rate increases to the classes. Rate 25
was allocated a base rate percentage increase that is less than the system average. As shown
in Table 1 above, Rate 25 would be charged a base rate increase of 5.95% under the
proposed rates, which represents a ratio to the jurisdictional total of 0.76. At the same time,
Rate 38 was assigned the jurisdictional system average base rate increase of 7.77%.

Also, to take power under Rate 38, the end-use customer must purchase a portion of its energy needs under one of EPE's firm rates. As an example, Vinton Steel purchases some of its power under Rate 30, which is a firm rate schedule that requires a 5 MW minimum load. Vinton's firm portion is subject to the full demand and energy charges as prescribed in Rate 30.

Q. YOU STATED THAT EPE ASSIGNED THE SYSTEM AVERAGE BASE RATE PERCENTAGE INCREASE IN DESIGNING RATE 38. DO YOU AGREE WITH THAT PROCEDURE?

4 A. I do not think it is unreasonable. While it makes no sense to use charges from another rate 5 (i.e., Rate 25) as a basis for the charges in Rate 38, it is very important to provide some 6 stability in the rate design process from rate change to rate change. This is especially true 7 in this case since EPE claims to want to enhance its interruptible service and bring on more curtailable load. For a large commercial or industrial customer to agree to the terms and 8 9 conditions of a non-firm power service, including the risk of losing power at the sole 10 discretion of the Utility, it would want to believe that the rate will be available into the 11 foreseeable future and that the price paid for that service will be fair and not subject to wide 12 swings between the demand and energy components.

13 Q. HOW MANY CUSTOMERS DOES EPE SERVE UNDER RATE 38?

14 A. There are only 9 customers in the Rate 38 class.

Q. WHAT ARE YOUR CONCERNS WITH EPE'S PROPOSED DEMAND AND ENERGY CHARGES FOR THE INTERRUPTIBLE POWER SERVICE RATE?

A. There are basically two rate components in the Noticed Interruptible Power Service Rate - demand (\$/kW) and energy (\$/kWh). In this proceeding, EPE proposes to nearly double
the unit demand component of the rate while recommending a very large decrease in the
energy component. Table 2 below shows the present and proposed demand and energy unit
charges for Noticed Interruptible Power Service (Transmission Voltage).

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ΤA	BI	Æ	2	

	Rate Component	Present Charge	Proposed	Change	Percent			
			Charge		Change			
	Demand	\$2.16/kW	\$4.14/kW	\$1.98/kW	91.7%			
	Energy	\$0.00479/kWh	\$0.00119/kWh	(\$0.0036/kWh)	(75.2%)			
Q.	As can be seen, EP energy charge by m base rate increase o load factors, some o realize annual decre ON WHAT DO	E wants to raise for than 75%! Or f \$324,237. Howe customers would seases.	the demand charg n "average," the pr ever, due to the dis see significant bas	e by over 91%, w oposed rate will p sparity in the cust e rate increases w	Thile reducing the produce an annual omers' individual thile others would TERENCES IN			
	LOAD FACTOR	S WOULD RES	SULT IN LAR	GE INTRA-CLA	ASS REVENUE			
	SHIFTS AS A RE	SULT OF EPE'S	S PROPOSED RA	ATE DESIGN?				

11 Attached as Exhibit RJS-4 is a copy of EPE's response to VS 1-14. Without actually A. 12 naming the individual customers, EPE lists the average load factor for each Noticed Interruptible customer and the base rate increase or decrease under the proposed 13 14 interruptible rate. As shown, some of the Rate 38 customers would receive base rate 15 increases that are much higher than the average for the rate (i.e., 7.77%), while some other 16 customers would actually receive a base rate decrease! In the extreme case, Customer "C" would see a base rate increase of 19.8% while Customer "A" would realize a 9.6% 17 18 decrease.

Not only would the proposed design for Rate 38 cause a significant shift in base rate
revenues paid by individual customers, in violation of EPE's efforts to avoid the potential
for rate shock, it also undercuts EPE's goal of growing participation in Rate 38.

19

1Q.PLEASE EXPLAIN YOUR CONCERN THAT EPE'S PROPOSAL TO2EFFECTUATE A LARGE SHIFT IN RATE 38 INTRA-CLASS REVENUE3ASSIGNMENT WILL IMPEDE EPE'S GOAL OF PROMOTING GREATER4RATE 38 PARTICIPATION?

5 A. EPE has stated that it intends to reopen and expand Notice Interruptible Power Service to 6 secure additional resources to meet EPE's peak loads in the future. As discussed earlier in 7 this testimony, interruptible customers provide a valuable resource that benefits all firm 8 customers and is a key component in maintaining system reliability. Consequently, EPE 9 wants to attract more interruptible load. Changing the rate design in the fashion proposed 10 by EPE in this case could offer a disincentive for new customers to apply for the rate and 11 could also cause current Rate 38 customers adversely impacted by the large intra-class 12 revenue shift proposed by EPE to terminate their participation in Rate 38.

Q. EPE, THROUGH MR. CARRASCO'S TESTIMONY, STATES THAT RATE 38 CUSTOMERS WILL NOT LEAVE THE INTERRUPTIBLE SERVICE BECAUSE THE RATE IS LOWER THAN "WHAT THEY WOULD PAY, ON AVERAGE, FOR FULL FIRM SERVICE." DO YOU AGREE?

A. No. Mr. Carrasco fails to take into account internal costs and operational risks associated
with taking service under Rate 38. Purchasing power under Rate 38 could be rendered
economically unattractive at times, relative to firm service. Besides the costs incurred by
the interruptible customer to install the needed communication and breaker equipment,
mentioned earlier, and the substantial penalties that could be incurred for non-compliance
that are described below, there are other internal costs that result from halting production
when EPE orders a curtailment. Depending upon the time and duration of an interruption,

1		the mill's production schedule can be seriously delayed, product waste can result, and
2		employees can be idled for extended periods at substantial cost.
3	Q.	EPE CAN INTERRUPT RATE 38 CUSTOMERS AT ANY TIME. IN THE EVENT
4		THAT THE CUSTOMER CHOOSES NOT TO CURTAIL ITS LOAD, AS
5		ORDERED, WHAT PENALTIES CAN BE CHARGED TO THE RATE 38
6		CUSTOMER FOR NON-COMPLIANCE?
7	A.	The rate contains a "Non-Compliance" section that allows EPE to impose substantial
8		monetary penalties if the customer does not reduce its demand on the system. As discussed
9		in the testimony of Mr. Carrasco, page 11, lines 11-26, EPE made a revenue adjustment of
10		\$1.2 million to account for the payment by one customer that did not meet its obligation to
11		curtail under the terms and conditions of Rate 38.
12	Q.	HAVE THERE BEEN OTHER OCCASIONS WHEN EPE IMPOSED PENALTIES
13		ON INTERRUPTIBLE CUSTOMERS FOR NON-COMPLIANCE?
14	A.	Yes. Exhibit RJS-5 contains the response to CEP 9-38. It shows that amount of penalties
15		that have been charged to interruptible customers by EPE in recent years. As shown,
16		penalties that have been imposed have exceeded \$200,000 each year from 2016-2018.
17	Q.	YOU STATED EARLIER THAT EPE CLAIMS INTERRUPTIBLE CUSTOMERS
18		WILL NOT LEAVE THE RATE BECAUSE THE RATE IS LOWER THAN FIRM
19		SERVICE. HAS EPE MADE AN ATTEMPT TO EVALUATE THE IMPACT OF
20		PRICE CHANGES ON RATE 38 CUSTOMERS?
21	A.	No. The response to VS 1-6, contained in Exhibit RJS-6 shows that while EPE has analyzed
22		the effects of price elasticity for several classes of service, it has not determined how

1		interruptible customer would react to a change in base rate prices.
2	Q.	WHAT DO YOU RECOMMEND TO THIS COMMISSION REGARDING THE
3		DESIGN OF THE INTERRUPTIBLE RATE?
4	A.	Without the allocation or assignment of rate base and expenses, it is reasonable to assign
5		Noticed Interruptible Power Service a percentage increase that is equal to the system
6		average base rate increase that is approved by this Commission. However, as shown earlier,
7		in order to reduce or eliminate intra-class disparities, the same base rate percentage change
8		that is allowed by the Commission should be applied equally to the demand and energy
9		unit charges in the rate.
10		V. <u>DEMAND AND ENERGY LOSS FACTORS</u>
11	Q.	HAVE YOU REVIEWED THE LOSS FACTORS SUBITTED BY EPE IN THIS
12		CASE?
13	A.	Yes.
14	Q.	DO YOU HAVE ANY CONCERNS WITH THE FACTORS THAT EPE HAS USED
15		IN ITS COST ALLOCATION AND RATE DESIGN?
16	A.	Yes. The loss factors for the transmission level indicate that the loss multipliers to account
17		for annual energy related losses are greater than those for the peak demand losses. In fact,
18		the opposite should be true. The large majority of the peak load related losses are a direct
19		function of the square of the line current flow at the time of maximum system demand and
20		should exceed the average annual energy losses incurred over the course of the year.

Q. WHAT IS THE PURPOSE FOR DEVELOPING DEMAND AND ENERGY LOSS FACTORS IN A COST ALLOCATION STUDY?

3 A. To allocate demand and energy costs equitably to the various classes of service on an 4 electric power system, all of the customer sales volumes, both peak demand and annual 5 energy, must be adjusted through the use of demand and energy loss factors to one common 6 voltage level, usually the generation level. That way, customers taking power and energy 7 at the various voltage levels available to customers are only responsible for the losses they 8 cause the system to incur. For example, if demand and energy allocation factors of all 9 classes of service are adjusted to a common level, customers that take power at the 10 transmission levels are not allocated costs associated with losses that are incurred on the 11 primary or secondary distribution levels.

12 Q. BRIEFLY DESCRIBE HOW THE LOSS FACTORS WERE DEVELOPED BY EPE 13 IN THIS CASE.

A. The loss factors filed in this case were developed using data from the year 2017 and EPE estimated the losses in two steps. First, the transmission loss factors for the 345kV, 115kV, and 69kV voltage levels were developed using EPE's power flow studies. Second, an outside consultant, Management Application Consulting, Inc. (MAC) prepared line loss estimates for the distribution primary and distribution secondary systems. The loss data from those two steps were combined to derive demand and energy loss factors from the generation level down through the secondary voltage level of service.

21 Q. WHY ARE YOU CONCERNED BY THE FACT THAT EPE FILED ENERGY 22 LOSS FACTORS THAT ARE GREATER THAN THE DEMAND LOSS FACTORS

23

1

FOR THE TRANSMISSION VOLTAGES?

A. As stated earlier, the large majority of demand and energy losses on a power system are a
direct function of the square of the current passing through the electrical devices times the
resistance in those devices (I²R). The loss study prepared by MAC for this case was filed
in Schedule O-6.3.

At the time of the system peak, the overall current is at its highest level. Since the power losses vary <u>exponentially</u> with the electrical current, one would expect that the percent loss at the time of the highest system demand would be significantly greater than the average percent energy loss throughout the year. Looking at EPE's loss study, the expected demand/energy relationship does hold up in the factors filed for the primary and secondary systems, but that relationship does not follow through for the higher transmission voltage levels.

Q. ON PAGES 48-50 OF THE LOSS STUDY CONTAINED IN SCHEDULE O-6.3 OF THE RATE FILING PACKAGE, THERE IS A DISCUSSION OF THE "HOEBEL COEFFICIENT". PLEASE DESCRIBE ITS RELEVANCE HERE.

A. The Hoebel Coefficient is a mathematical tool used in many loss analyses to estimate the amount of average energy losses on an electrical power system, based upon the demand losses that are determined on the system. As stated on page 49 of Schedule O-6.3, "peak demand losses can readily be calculated given equipment resistance and approximate loading. Energy losses, however, are much more difficult to determine given their timevarying nature." The Hoebel constant is a factor that is always less than 1.0, usually between 0.7 and 0.9. Hoebel derived a formula to convert the estimate of demand losses

1	to an estimate of the average energy losses by multiplying peak load losses times the
2	Hoebel constant and the system load factor (the formula is shown on page 50 of the Loss
3	Study). Every element in the formula that is multiplied by the peak demand losses is less
4	than 1.0. In other words, the estimate of the average energy losses <u>must</u> be less than the
5	estimate of the associated demand losses. The loss analysis goes on to conclude that "Loss
6	studies use this equation to calculate energy losses at each major voltage level in the
7	analysis." (Schedule O-6.3. page 50 of 50).

8 Q. WHAT DO YOU RECOMMEND REGARDING EPE'S LOSS ANALYSIS IN THIS 9 CASE?

10 A. This Commission should order EPE to explain, in detail, why its annual energy loss 11 percentage on the transmission system is greater than the peak demand loss percentage. If 12 a change in the demand and energy loss factors is required, the revised loss factors should 13 be used in the final cost of service study and rate design ordered in this case.

14 Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

15 A. Yes, it does.

THE STATE OF TEXAS:

COUNTY OF COLLIN:

BEFORE ME, the undersigned authority, on this day personally appeared RAYMOND J. STANLEY, having been duly sworn, upon oath says:

"My name is Raymond J. Stanley. I am legal age and a resident of the State of Texas. The foregoing direct testimony, offered by me is true and correct, and the opinions stated therein are, in my judgment and based upon my professional experience, true and correct."

IOND J. STAN

Live & Ham Notary Public in and for the State of Texas

My Commission Expires:



128/202

SCHEDULEL P-1.4 PAGE 1 OF 4

MODIFIED SCHEDULE P-1.4 FOR FMI 1-14

PAGE 1 OF 4

Direct Testimony of RJ Stanley for Vinton Steel Exhibit RJS-1

EL PASO ELECTRIC COMPANY 2021 TEXAS RATE CASE FILING SCHEDULE P-1.4: PROPOSED RATE SCHEDULES / EXISTING RATE CLASSES SPONSOR: ADRIAN HERNANDEZ PREPARER: ADRIAN HERNANDEZ

USES CAPPED/FLOORED REVENUES FROM EXHIBIT MC-4

FOR THE TEST YEAR ENDED DECEMBER 31, 2020

	(a)		(b)		(c) Rate 01		(d) Rate 02		(e) Rate 07		(f) Rate 08		(g) Rate 09		(h) Rate 11-TOU		(i) Rate 15		(j) Rate 22
Line			Test Year			Small		1	Recreational		Street		Traffic		TOU Municipal		Electric		Irrigation
No.	Description		Total		Residential	Ge	eneral Service	Lighting			Lighting		Signals		Pumping		Refining		Service
1	Operating Revenues																		
2	Sales Revenues																		
3	Base Revenues																		
4	Base [From Exh. MC-4, page 3, line 12 + line 22 + line 23]	\$	574,206,281	\$	312,165,274	\$	32,508,921	\$	630,549	\$	3,148,411 \$	\$	100,810	\$	10,423,164	\$	2,286,269	\$	571,265
5	Non-firm [From Exh. MC-4, page 3, line 24 + line 26]		4,499,479		2,484,953		213,778		-		-		584		71,721		23,306		4,362
6	Fuel Revenues		80,084,706		31,804,571		3,483,415		47,019		461,227		26,554		2,189,127		965,884		49,123
7	Other Sales For Resale Revenues	_	65,919,767		26, 179, 155		2,867,288		38,703		379,648		21,857		1,801,926		795,044		40,435
8	Total Sales Revenues		724,710,233		372,633,953		39,073,403		716,272		3,989,286		149,806		14,485,939		4,070,502		665,184
9	Other Operating Revenues		26,921,992		15,767,809		1,404,624		10,805		50,316		3,275		392,937		109,540		25,903
10	Total Operating Revenues (Cost of Service)	\$	751,632,225	\$	388,401,762	\$	40,478,026	\$	727,077	\$	4,039,602 \$	\$	153,081	\$	14,878,876	\$	4,180,042	\$	691,087
11																			
12	Operating Expenses																		
13	Operation & Maintenance Expenses																		
14	Fuel and Purchased Power																		
15	Reconcilable	\$	146,004,473	\$	57,983,726	\$	6,350,703	\$	85,722	\$	840,874 \$	\$	48,412	\$	3,991,054	\$	1,760,928	\$	89,558
16	Non-Reconcilable		1,431,449		780,281		67,574		445		4,362		251		23,283		7,452		1,366
17	Other Operation & Maintenance		243, 174, 207		137,437,679		13,434,934		205,769		1,327,388		48,154		4,333,673		1,031,770		211,112
18	Total Operation & Maintenance Expenses		390,610,129		196,201,685		19,853,212		291,936		2,172,624		96,816		8,348,009		2,800,150		302,035
19	Regulatory Debits and Credits		2,986,404		1,772,719		174,147		2,844		17,422		508		46,930		11,022		2,747
20	Depreciation & Amortization Expense		99,088,920		56,992,584		5,070,296		111,526		549,116		14,614		1,684,139		356,337		102,825
21	Decommissioning and Accretion Expense		111,981		61,402		5,344		32		296		19		1,813		575		107
22	Taxes Other Than Income Taxes		68,511,555		38,094,474		3,447,816		64,286		345,336		11,819		1,232,096		308,184		65,826
23	Current Income Taxes																		
24	Federal		19,368,450		11,924,094		989,309		29,945		84,371		1,800		299,499		23,542		23,476
25	State		2,533,565		1,522,123		127,899		3,714		10,806		276		41,131		4,978		2,968
26	Total Ourrent Income Taxes		21,902,015		13,446,217		1,117,209		33,658		95,178		2,077		340,629		28,520		26,444
27	Deferred Income Taxes																		
28	Federal		5,721,725		2,499,659		278,983		2,000		34,820		1,790		138,639		62,264		3,397
29	State		995,013		502,358		48,880		753		5,765		226		20,585		7,157		827
30	Total Deferred Income ⊺axes		6,716,738		3,002,017		327,863		2,753		40,585		2,015		159,224		69,421		4,223
31	Amortization of Investment Tax Credits		(1,505,971)		(820,902)		(71,092)		(468)		(4,589)		(264)		(24,495)		(7,840)		(1,437)
32	Total Operating Expenses	\$	588,421,771	\$	308,750,196	\$	29,924,794	\$	506,567	\$	3,215,969	\$	127,604	\$	11,788,345	\$	3,566,369	\$	502,770
33																			
34	Operating Income (Return)	\$	163,210,454	\$	79,651,566	\$	10,553,233	\$	220,510	\$	823,633	\$	25,477	\$	3,090,531	\$	613,673	\$	188,317
Amoun	ts may not add or tie to other schedules due to rounding.																		

Page 27 27

EL PASO ELECTRIC COMPANY 2021 TEXAS RATE CASE FILING SCHEDULE P-1.4: PROPOSED RATE SCHEDULES / EXISTING RATE CLASSES SPONSOR: ADRIAN HERNANDEZ PREPARER: ADRIAN HERNANDEZ FOR THE TEST YEAR ENDED DECEMBER 31, 2020

	(a)	(b)	(c) Rate 01	(d) Rate 02	(e) Rate 07	(f) Rate 08	(g) Rate 09	(h) Rate 11-TOU	(I) Rate 15	(j) Rate 22
Line	Description	test Year Total	Residential (Small Seneral Service	Lighting	Street	l raffic Signals	Pumping	Electric	Service
35	Rate Base	TOTAL	Residential	Serierar Gervice	Lighting	Lighting	olgilais	rumping	rteining	Gervice
36	Plant in Service	3,665,210,259	2,103,682,116	183,965,607	4,376,463	20,878,309	525,684	63,065,168	12,883,126	3.881.630
37	Accum Depreciation & Amortization	(1,223,765,542)	(701,537,803)	(61,793,364)	(1,266,613)	(9,296,897)	(180,179)	(20, 399, 198)	(4,546,797)	(1,251,294)
38	Net Plant In Service	2,441,444,717	1,402,144,313	122, 172, 243	3,109,850	11,581,412	345,506	42,665,970	8,336,330	2,630,336
39										
40	Additions to Rate Base									
41	CWIP	-	-	-	-	-	-	-	-	-
42	Working Cash	(2,622,625)	(1,480,527)	(144,851)	(2,234)	(14,413)	(523)	(47,056)	(11,203)	(2,278)
43	Fuel Inventory	1,393,806	003,03Z	60,626	010	8,027	462	38,100	10,810	800
44	Nucleal Fuel Materials & Supplies	- 48 530 177	27 424 147	2 371 954	67 376	324 604	7 482	- 880 631	168 007	51.879
46	Prenavments	14 822 703	8 649 512	819 849	14 208	82 157	2 430	240 265	56 417	14 131
47	Coal Reclamation Asset		-	-	14,200	-	2,400	240,200		-
48	Regulatory Assets	9,523,392	5,469,372	476.560	12.131	45.176	1.348	166.428	32.518	10.260
49	Accumulated Deferred Income Taxes	103,531,111	60,537,165	5,454,207	145,366	601,995	14,949	1,788,596	322,987	109,750
50	Tax Regulatory Assets	12,599,101	7,235,780	630,471	16,048	59,766	1,783	220,178	43,020	13,574
51	Miscellaneous Deferred Debits	3,857,692	2,102,823	182,110	1,200	11,754	675	62,745	20,083	3,680
52	Total Additions to Rate Base	191,635,356	110,491,805	9,850,926	254,914	1,119,067	28,607	3,349,888	649,628	201,851
53										
54	Deductions to Rate Base									
55	Customer Deposits	(5,614,689)	(4,974,188)	(452,540)	(3,496)	(3,175)	(836)	(7,704)	(497)	(2,394)
56	Regulatory Liabilities	-	-	-	-	-	-	-	-	-
57	Accumulated Deferred Income Taxes	(336,181,559)	(192,976,465)	(16,864,281)	(406,405)	(1,855,422)	(48,098)	(5,801,325)	(1,175,386)	(357,178)
58	Tax Regulatory Liabilities	(222,349,082)	(127,697,137)	(11,126,562)	(283,223)	(1,054,751)	(31,466)	(3,885,707)	(759,212)	(239,552)
59	Customer Advances - Construction	(25,033,069)	(15,419,265)	(1,303,007)	(84,905)	(344,577)	(2,612)	(508,919)	(15)	(33, 156)
60	Total Deductions from Rate Base	(589,178,399)	(341,067,055)	(29,746,389)	(778,028)	(3,257,925)	(83,012)	(10,203,656)	(1,935,111)	(632,280)
61										
62	Total Rate Base	\$ 2,043,901,675	\$ 1,171,569,063 \$	102,276,780 \$	2,586,736 \$	9,442,555 \$	291,101	\$ 35,812,202 \$	7,050,847 \$	2,199,906
63										
64	Rate of Return on Rate Base	7.985%	6.799%	10.318%	8.525%	8.723%	8.752%	8.630%	8.704%	8.560%
65	Relative Rate of Return	1.000	0.851	1.292	1.068	1.092	1.096	1.081	1.090	1.072
66										
67	Total Revenue Requirement	\$ 751.632.225	\$ 388.401.762 \$	40.478.026 \$	727.077 \$	4.039.602 \$	153.081	\$ 14.878.876 \$	4.180.042 \$	691.087
68	Less: Fuel & Other Sales For Resale Revenues	146 004 473	57 983 726	6 350 703	85 722	840 874	48 4 12	3 991 054	1 760 928	89 558
69	Less: Other Operating Revenues	26,921,992	15 767 809	1 404 624	10,805	50,316	3 275	392 937	109 540	25,903
70	Less: Base Rate Revenues at Present Rates	536 887 982	275 944 218	33 518 015	462 980	4 046 620	95 746	10 168 889	1 851 685	427 460
70	Engals:	000,007,002	2,0,044,210	00,010,010	.02,000	1,0 10,020	20,740	10,100,000	1,000,000	.2.,400
72	Non-Fuel Base Revenue Increase	\$ 41 817 778	\$ 38 706 009 \$	(795.316) \$	167 569 \$	(898 209) \$	5 648	\$ 325,997 \$	457 890 \$	148 167
73	Proposed Percent Increase	7 789%	14 027%	-2 373%	36 194%	-22 197%	5.899%	3 206%	24 728%	34 662%
.0		1.10070	17.02170	-2.07070	00.10470	-22.10770	0.00070	0.20070	27.12070	07.00270

Amounts may not add or tie to other schedules due to rounding.

MODIFIED SCHEDULE P-1.4 FOR FMI 1-14 PAGE 2 OF 4

USES CAPPED/FLOORED REVENUES FROM EXHIBIT MC-4

Direct Testimony of RJ Stanley for Vinton Steel Exhibit RJS-1

EL PASO ELECTRIC COMPANY 2021 TEXAS RATE CASE FILING SCHEDULE P-1.4: PROPOSED RATE SCHEDULES / EXISTING RATE CLASSES SPONSOR: ADRIAN HERNANDEZ PREPARER: ADRIAN HERNANDEZ FOR THE TEST YEAR ENDED DECEMBER 31, 2020

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Line	(a)	(b) Rate 24 Genera Service		(c) Rate 25 Large Power	(d) Rate 26 Petroleum Refinery		(e) Rate 28 Area	(f) Rate 30 Electric Eumace	Re	(g) Rate 31 Military		(h) Rate 34 Cotton Gin	(i) Rate 4 City and County	1		(j) WH Water Heating
1	Operating Revenues	0011100		1 01101	rtennerg		Lighting	Tanlabo		5561144511		GIII	ocumy			loading
2	Sales Revenues															
3	Base Revenues															
4	Base [From Exh. MC-4, page 3, line 12 + line 22 + line 23]	\$ 122,489	587 \$	38.098.209	\$ 13.225.193	\$	2,702,987	\$ 1.539.309	\$	15.099.043	\$	182.215 \$	18,490	0.762	\$	544.311
5	Non-firm [From Exh. MC-4, page 3, line 24 + line 26]	950	805	309,197	124,628		-	15,444		157,329		51	142	2.174		1,148
6	Fuel Revenues	18,549	194	8,621,024	4,673,421		343,211	2,231,320		4,077,775		20,422	2,478	5,875		65,544
7	Other Sales For Resale Revenues	15,268	316	7,096,185	3,846,812		282,506	1,836,656		3,356,521		16,809	2,037	,956		53,951
8	Total Sales Revenues	157,257	902	54, 124, 615	21,870,054		3,328,704	5,622,729		22,690,667		219,498	23,146	6,767		664,953
9	Other Operating Revenues	5,296	,351	1,626,997	587,933		32,436	72,452		738,975		3,254	750),793		47,592
10	Total Operating Revenues (Cost of Service)	\$ 162,554	,254 \$	55,751,612	\$ 22,457,987	\$	3,361,140	\$ 5,695,181	\$	23,429,642	\$	222,752 \$	23,897	7,560	\$	712,545
11																
12	Operating Expenses															
13	Operation & Maintenance Expenses															
14	Fuel and Purchased Power															
15	Reconcilable	\$ 33,817	,510 \$	15,717,209	\$ 8,520,232	\$	625,717	\$ 4,067,976	\$	7,434,296	\$	37,231 \$	4,513	3,830	\$	119,494
16	Non-Reconcilable	302	,382	99,367	40,476		3,245	4,888		50,228		193	48	5,036		620
17	Other Operation & Maintenance	47,028	789	16,048,054	6,351,999		1,089,547	618, 197		6,826,367		58,126	6,75	,813		370,836
18	Total Operation & Maintenance Expenses	81,148	,681	31,864,630	14,912,707		1,718,510	4,691,062		14,310,890		95,551	11,310	0,680		490,950
19	Regulatory Debits and Credits	544	,608	174,881	62,950		8,416	7,012		73,396		723	80	0,496		5,581
20	Depreciation & Amortization Expense	19,763	696	6,186,088	1,951,892		507,098	232,722		2,394,888		32,266	2,993	3,957		144,878
21	Decommissioning and Accretion Expense	23	,522	7,710	3,122		214	378		3,878		13	3	3,505		52
22	Taxes Other Than Income Taxes	13,957	,050	4,629,147	1,690,191		274,490	298,459		1,917,604		19,102	2,070),784		84,892
23	Current Income Taxes															
24	Federal	3,854	,226	1,022,305	158,976		85,375	(76,822)		299,417		8,424	612	2,478		28,034
25	State	510	,265	143,282	29,594		10,913	(4,639)		45,632		1,062	80	0,083		3,477
26	Total Current Income Taxes	4,364	,491	1,165,587	188,570		96,289	(81,461)		345,049		9,487	692	2,561		31,511
27	Deferred income Taxes															
28	Federal	1,233	,475	558,343	307,895		18,418	133,454		277,509		876	164	1,044		6,158
29	State	208	,629	79,904	36,232		3,855	12,640		36,050		247	29	9,743		1,163
30	Total Deterred Income Taxes	1,442	,104	638,248	344,127		22,273	146,094		313,560		1,124	193	3,788		7,322
31	Amortization of Investment Tax Credits	(318	,125)	(104,540)	(42,583)	_	(3,414)	(5,143)	<u>^</u>	(52,843)	<u> </u>	(203)	(4,	(,381)	<u> </u>	(652)
32	I otal Operating Expenses	\$ 120,926	U27 \$	44,561,750	\$ 19,110,975	\$	2,623,876	\$ 5,289,122	\$	19,306,422	\$	158,061 \$	17,298	3,391	\$	/64,533
33 34	Operating Income (Return)	\$ 41,628	,226 \$	11, 189, 862	\$ 3,347,012	\$	737,264	\$ 406,059	\$	4,123,220	\$	64,690 \$	6,599	9, 169	\$	(51,988)

Amounts may not add or tie to other schedules due to rounding.

MODIFIED SCHEDULE P-1.4 FOR FMI 1-14

USES CAPPED/FLOORED REVENUES FROM EXHIBIT MC-4

PAGE 3 OF 4

EL PASO ELECTRIC COMPANY 2021 TEXAS RATE CASE FILING SCHEDULE P-14: PROPOSED RATE SCHEDULES / EXISTING RATE CLASSES SPONSOR: ADRIAN HERNANDEZ PREPARER: ADRIAN HERNANDEZ FOR THE TEST YEAR ENDED DECEMBER 31, 2020

Line	(a)		(b) Rate 24 General Service	(Rat La	c) e 25 rge wer	(d Rate Petrol Refin	26 eum	(e) Rate 2 Area	28 1	(f) Rate 3 Electri Fumac		(g) Rate≍ Milita Reserva	31 ry ation	Ra C	(h) ate 34 otton Gin		(i) Rate 41 City and County	(j) WH Water Heating	
35	Rate Base		0011100			T COM	01 }	Lighti	9	ramaa	~	1000170			UII		County	rieddirig	—
36	Plant in Service		740,731,569	230	315,390	69.9	31,330	16.6	72.182	8,45	9.050	86.7	69,056		1.277.118		112,847,872	4,948,8	590
37	Accum Depreciation & Amortization		(243,649,660)	(76	,222,397)	(24,7	58,071)	(6,30	06,397)	(2,97	9,670)	(30,6	07,746)		(365,338)	(36,859,553)	(1.744.8	566)
38	Net Plant In Service		497,081,908	154	,092,992	45,1	73,260	10,36	65,785	5,47	9,380	56,1	61,310		911,779		75,988,319	3,204,0	024
39																			
40	Additions to Rate Base																		
41	CWIP		-		-		-		-		-				-		-		-
42	Working Cash		(506,419)		(173,629)		68,969)	(*	11,760)	(5,712)	()	74,119)		(624)	(73,313)	(3,9	<i>3</i> 96)
43	Fuel Inventory		322,833		150,042		81,337		5,973	3	8,834		/0,9/0		355		43,090	1,1	141
44	Nuclear Fuel Matariala & Supplian		10 000 709	2	146 920			2	-	10		4.4	22 046				1 504 440	67	-
40	Pronoumente		2 917 964	3	001 711	5	17 220	20	19,200 AG ADD	2	9,329 s 200	1, 1-	33,040 76,622		20,032		1,024,442	07,1	100
40	Coal Reclamation Asset		2,017,004		901,711		-17,320		40,400	3	5,500	3	10,033		3,600		419,014	24,0	190
48	Regulatory Assets		1 938 977		601 074		76 208		10 434	2	1 374	2	19 070		3 557		296 409	12	- 498
49	Accumulated Deferred Income Taxes		20 336 372	6	278 110	17	80 677	46	59 785	21	0 120	21	67.566		40,841		3 100 348	172 3	276
50	Tax Regulatory Assets		2 565 196		795 198		33 117		53 493	2	8 276	2	89 821		4 705		392 139	16 5	534
51	Miscellaneous Deferred Debits		814 908		267 790		09.080		8 745	1	3 174	1:	35,363		521		121 371	1.6	670
52	Total Additions to Rate Base		38 312 530	11	967 126	3.6	67 665	8	92 391	45	1 695	43	19 149		73 192		5 824 001	291 0	921
53			00,012,000		,007,120	0,0	.07,000	0.	2,001	+0	5,000	7,0	10,140		70,102		0,024,001	201,5	741
54	Deductions to Pate Base																		
54	Customer Denesite		(100.044)		(6.009)		(0.244)	1.	12 601)	,	1 100)		(2.044)		(12	、 、	(15 152)	1.	1011
00	De substant disbilition		(129,241)		(0,090)		(2,341)	(13,001)	(1,120)		(2,044)		(45)	(10,105)	, c	131)
00	Regulatory Liabilities		-	(04	-	(0.1	-	(4.5.	-	(77	-	(7.0	-		-		-	(454.0	-
57	Accumulated Deferred income Taxes		(68,030,602)	(21	,142,400)	(0,3	(8,170)	(1,5)	10,200)	(//	1,905)	(7,9	16,730)		(118,705)	(10,371,645)	(401,0	03∠) ⊐ooù
58	Tax Regulatory Liabilities		(45,2/0,616)	(14	,033,672)	(4, 1	14,053)	(94	14,041)	(49	9,022)	(5,1	14,765)		(83,038)	(6,920,465)	(291,	799)
59	Customer Advances - Construction		(4,840,840)	(1	,313,846)		(89)	(2	17,642)		(25)		(117)		(23,591)	(780,474)	(79,9	989)
60	Total Deductions from Rate Base		(118,276,349)	(36	,496,016)	(10,4	94,653)	(2,76	65,624)	(1,27	2,078)	(13,0	33,656)		(225,377)	(18,087,738)	(823,4	<u>451)</u>
61																			
62	Total Rate Base	\$	417,118,090 \$	5 129	,564,102	\$ 38,2	46,272 \$	5 8,48	32,552 \$	4,65	7,997 \$	47,4	46,804	\$	759,594	\$	63,724,582	5 2,672,4	494
63																			
64	Rate of Return on Rate Base		9.980%		8.637%		8.751%	8	3.692%	8	717%		8.690%		8.516%		10.356%	-1.94	45%
65	Relative Rate of Return		1.250		1.082		1.096		1.088		1.092		1.088		1.067		1.297	(0.2	244)
66																			
67	Total Revenue Requirement	\$	162,554,254 \$	5 55	,751,612	\$ 22,4	57,987 \$	5 3,30	51,140 \$	5,69	5,181 \$	23,4	29,642	\$	222,752	\$	23,897,560	5 712,8	545
68	Less: Fuel & Other Sales For Resale Revenues		33,817,510	15	717,209	8.5	20.232	63	25.717	4.06	7.976	7.4	34.296		37.231		4,513,830	119.4	494
69	Less: Other Operating Revenues		5,296,351	1	.626.997	5	87.933	:	32.436	7	2.452	7	38.975		3.254		750,793	47.5	592
70	Less: Base Rate Revenues at Present Rates		125.887.839	36	.242.518	11.0	80.392	2.9	32.614	1.20	5.088	13.1	55.852		133.020		19.258,401	475.6	647
71	Equals			20	, _,	,•	,	_,•		.,20		, .	,				,	,	
72	Non-Fuel Base Revenue Increase	s	(2 447 447) \$	5 2	164 888	\$ 22	69 429 \$	5 (2)	29.627) \$	34	8 665 \$	21	00 519	\$	49 247	\$	(625.464)	697	812
72	Proposed Percent Increase	Ŷ	-1 944%		5 973%	,-	0 481%		7.830%	28	909%	-, 1	5 966%	÷	37 022%	, Ť	-3 248%	14 6	77%
75			-1.54470		5.57570	4		-		20	00070	1.	0.00070		51.0227	·	-0.24070	14.01	

Amounts may not add or tie to other schedules due to rounding.

MODIFIED SCHEDULE P-1.4 FOR FMI 1-14 PAGE 4 OF 4

USES CAPPED/FLOORED REVENUES FROM EXHIBIT MC-4

Direct Testimony of RJ Stanley for Vinton Steel Exhibit RJS-1

SCHEDULEL P-1.4 PAGE 4 OF 4

SUAH Docket No. 473-21-2606
PUC Docket No. 52195
FMI's 1st, Q. No. FMI 1-3
Attachment 1
Page 1 of 1
1 000 1 01 1

El Paso Electric Company Loads & Resources 2021-2030 w/ 2021 Updated Load Forecast Issued 7/2/2020

		170 Solar 100/50 Sol/Batt	Newman 6		48 Geo 100/100 Sol/Batt		130 Solar CT 100 CT 228		4	8 Geo	Planned Generation Additions
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	100 MW Solar (25 MW at Peak) in 2022
1.0 GENERATION RESOURCES ¹											Solar/Batt Combo (100/50 MW) in 2022 (75 MW at Peak)
1.1 RIO GRANDE	271	271	227	227	227	227	227	227	227	227	Newman 6 GT5 (228 MW) in 2023
1.2 NEWMAN	729	729	809	809	809	809	496	496	496	496	70 MW Solar (18 MW at Peak) in 2022
1.3 COPPER	63	63	63	63	63	63	63	63	63	63	Unit Retirements
1.4 MONTANA	352	352	352	352	352	352	352	352	352	352	Rio Grande 6 (45MW) (inactive reserve)
1.5 PALO VERDE	622	622	622	622	622	622	622	622	622	622	Rio Grande 7 (44MW) - December 2022
1.6 RENEWABLES ²	6	6	6	5	5	5	5	5	5	5	Newman 1 (74MW) - December 2022
1.7 STORAGE	0	0	0	0	0	0	0	0	0	0	Newman 2 (74MW) - December 2022
1.8 POSSIBLE EMERGING TECHNOLOGY EXPANSION ³	0	0	0	0	40	40	40	40	40	40	Newman 3 (93MW) - December 2026
1.9 INTERRUPTIBLE ⁴	56	56	56	56	56	56	56	56	56	56	Newman 4 CC (220MW) - December 2026
1.10 LINE LOSSES FROM OTHERS ⁵	8	8	8	8	8	8	8	8	8	8	Copper (63MW) - December 2030
1.0 TOTAL GENERATION RESOURCES	2107	2107	2143	2142	2182	2182	1869	1869	1869	1869	Rio Grande 8 (139MW) - December 2033
											Company Owned Renewables
2.0 RESOURCE PURCHASES											Line 1.6 consists of EPE Community Solar.
2.1 RENEWABLE PURCHASE ⁶	73	72	72	72	71	71	70	70	69	69	Holloman Solar, EPCC, Stanton, Wrangler,
2.2 NEW RENEWABLE PURCHASE ⁷	0	43	42	42	42	42	41	41	41	41	Rio Grande & Newman Carports and Van Horn
2.3 NEW RENEWABLE/ BATTERY PURCHASE ⁸		75	75	75	75	75	74	74	74	74	Renewable Purchases
2.4 NEW BATTERY PURCHASE ⁹	0										Line 2.1 includes SunEdison, NRG, Macho Springs, Juwi
25 MARKET RESOLIDCE DURCHASE ¹⁰	195	100	95	125	l ő	20	15	45	100	100	and Hatch solar purchases (70% availability at Peak)
2.0 TOTAL RESOURCE PURCHASES	269	200	294	314	199	209	200	220	294	294	New Renewable Purchase
	200	250	204	514	100	200	200	250	204	204	Line 2.2 includes system solar resource 100 MW Solar
											(25 at Peak) and NM RPS solar resource 70 MW in 2022
3.1 RENEWABLE	0	0	0	0	48	48	81	81	81	129	(18 MW at Peak)
3.2 RENEWABLE/STORAGE	0	0	0	ů O	100	100	100	100	100	100	Resource Purchase
3.3 GAS GENERATION	, o	, n	0	0	0	0	328	328	328	378	This purchase is supported by firm transmission
3.0 TOTAL RESOURCE PURCHASES	0	ů	ů	0	148	148	509	509	509	557	through (i) simultaneous huy/sell with
		-	-	-							(i) Freeport McMoRan (formerly Phelps Dodge).
4.0 TOTAL NET RESOURCES (1.0 + 2.0 + 3.0)	2375	2397	2427	2456	2518	2538	2578	2608	2662	2710	(ii) Four Corners-West Mesa transmission
5.0 SYSTEM DEMAND ¹²											Future Resources (subject to RFP results)
5.1 NATIVE SYSTEM DEMAND ¹³	2138	2189	2227	2255	2296	2335	2379	2417	2471	2522	Line 3.0 includes
5.2 DISTRIBUTED GENERATION	(9)	(19)	(22)	(22)	(22)	(22)	(22)	(22)	(22)	(22)	48 MW Geothermal NM RPS resource in 2025
5.3 ENERGY EFFICIENCY	(8)	(15)	(23)	(31)	(38)	(46)	(54)	(62)	(69)	(77)	100/100 MW Solar/Batt Combo NM RPS in 2025
6.0 TOTAL SYSTEM DEMAND (5.1 - (5.2+5.3))	2121	2155	2182	2202	2236	2267	2303	2334	2380	2423	130 MW Solar (33 MW at Peak) system resource in 2027
	254	242	245	254	280	271	275	274	292	297	100 MW CT system resource in 2027
8.0 PLANNING RESERVE 15% OF TOTAL DEMAND	234	242	245	234	335	340	2/3	274	262	26/	228 MM CT System Resource in 2027
9.0 MARGIN OVER RESERVE (7.0 - 8.0)	(64)	(81)	(82)	(76)	(53)	(70)	(71)	(76)	(75)	(77)	

1. Generation unit retirements are consistent with the 2018 IRP. No Grande 6 is classified as inactive reserve

2. Existing EPE owned solar renewables at 70 percent contribution to peak.

3. Emerging technologies may include customer or other distributed resources as well as additional community solar.

4. Interruptible customer capacity shifted to the resource side of the L&R. Capacity MW contribution per 2020 Load Forecast.

5. Une losses from others shifted to resource side of the L&R and is the typical amount of repayment of transmission wheeling losses from transmission customers with in-kind energy during peak hours.

6. Existing renewable solar PPAs at 70 percent contribution to peak.

7. New renewable solar PPAs at 25 percent contribution to peak. 8. New solar and battery storage PPAs with solar at 25 percent contribution to peak.

9. 50 MW stand-alone battery was denied in NMPRC Case No. 19-00346-UT. The resource purchase on line 2.5 was adjusted to replace 50 MW capacity as required to meet the planning reserve margin. 10. Denotes market purchase either spot market or short-term purchased power. Amounts greater than 645 MW-PV output will need to come into EPE via exchange (Freeport), through the acquisition of additional transmission or on a non-firm path. Also, availability of such power is not guaranteed.

11. Future Resources from 2025 forward are to address both NM RPS and capacity needs. EPE will be initiating its 2021 IRP planning cycle which may result in changes to future planned resources.

System demand is based on the 2020 Long-Term Forecast dated April 1, 2021.

13. Native System Demand includes added load due to Electric Vehicles.

Exhibit RJS-3

SOAH DOCKET NO. 473-21-2606 PUC DOCKET NO. 52195

§ § §

APPLICATION OF EL PASO ELECTRIC COMPANY TO CHANGE RATES

BEFORE THE STATE OFFICE OF ADMINISTRATIVE HEARINGS

EL PASO ELECTRIC COMPANY'S RESPONSE TO FREEPORT-MCMORAN, INC'S FIRST REQUEST FOR INFORMATION QUESTION NOS. FMI 1-1 THROUGH FMI 1-25

<u>FMI 1-7</u>:

The following Interrogatories pertains to the Direct Testimony of David C. Hawkins.

Referring to Exhibit DCH-3, please explain why the interruptible load is treated as a capacity resource rather than a reduction in system demand.

RESPONSE:

The interruptible load is a dispatchable capacity resource in that EPE can call on it as needed and that is being relied on to serve peak load. As a result, it is included in the total resources to meet the peak load and planning reserve margin.

Preparer:	Omar Gallegos	Title:	Senior Director – Resource Planning Management
Sponsor:	David C. Hawkins	Title:	Vice President – Strategy and Sustainability

APPLICATION OF EL PASO§BEFORE THE STATE OFFICEELECTRIC COMPANY TO CHANGE§OFRATES§ADMINISTRATIVE HEARINGS

EL PASO ELECTRIC COMPANY'S RESPONSE TO VINTON STEEL, LLC'S FIRST REQUEST FOR INFORMATION QUESTION NOS. VS 1-1 THROUGH VS 1-29

<u>VS 1-14</u>:

Please refer to the testimony of Manuel Carrasco, page 62, lines 6-11. EPE proposes to increase the demand charges in Rate 38 while lowering the energy charges. What is the average load factor of existing Rate 38 customers? Please explain whether Rate 38 customers with lower monthly load factors will experience a smaller rate increase as compared to the overall average increase to the interruptible class of customers?

RESPONSE:

	Average	Non-Firm
Customer	Load Factor	Base Revenue Increase %
Account G	0.27	16.6%
Account D	0.45	8.6%
Account C	0.49	19.8%
Account E	0.62	7.5%
Account B	0.64	4.2%
Account I	0.70	2.8%
Account H	0.83	-5.2%
Account F	0.85	-7.2%
Account A	0.88	-9.6%

Please refer to the table below, which is sorted by Average Load Factor.

The proposed overall average non-firm base revenue increase is 7.8%. The percentage increase for each customer in the table above is a function of monthly load factors and the amount of interruptible load above the firm capacity the customer contracted for.

Preparer:	Manuel Carrasco	Title:	Manager – Rate Research
Sponsor:	Manuel Carrasco	Title:	Manager – Rate Research

APPLICATION OF EL PASO	§	BEFORE THE STATE OFFICE
ELECTRIC COMPANY TO CHANGE	§	OF
RATES	§	ADMINISTRATIVE HEARINGS

EL PASO ELECTRIC COMPANY'S RESPONSE TO CITY OF EL PASO'S NINTH REQUEST FOR INFORMATION QUESTION NOS. CEP 9-1 THROUGH CEP 9-43

<u>CEP 9-38</u>:

Has EPE imposed any interruptible penalties in years prior to 2020? If yes specify the amounts by year.

RESPONSE:

Yes.

Year	Schedule No. 38 Interruptible Penalties
2016	\$224,188.91
2017	\$236,450.24
2018	\$217,484.08
2019	\$0.00

Preparer:	John Zacarias	Title:	Supervisor – Billing
Sponsor:	Manuel Carrasco	Title:	Manager – Rate Research

Page |1

APPLICATION OF EL PASO	§	BEFORE THE STATE OFFICE
ELECTRIC COMPANY TO CHANGE	§	OF
RATES	§	ADMINISTRATIVE HEARINGS

EL PASO ELECTRIC COMPANY'S RESPONSE TO VINTON STEEL, LLC'S FIRST REQUEST FOR INFORMATION QUESTION NOS. VS 1-1 THROUGH VS 1-29

<u>VS 1-6</u>:

Has EPE investigated the level of price elasticity related to the increase in prices of all electric rates, including the Noticed Interruptible Tariff? If so, please explain, in detail.

RESPONSE:

Yes. EPE's Load Research and Data Analytics Department produced a Price Elasticity Analysis in 2020 that focused on EPE's Residential, Small Commercial, and Large Commercial customer classes. The analysis employed a cointegrating equation with a distributed lag in order to obtain long-run and short-run price elasticities. The average price of electricity was used as the explanatory variable as real-time pricing mechanisms have not yet been implemented in the EPE service territory. EPE did not derive price elasticities specifically for interruptible customers.

Preparer:	James Schichtl	Title:	Vice President – Regulatory and Governmental Affairs
Sponsor:	James Schichtl	Title:	Vice President – Regulatory and Governmental Affairs