



## **Filing Receipt**

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SOAH DOCKET NO. 473-25-05084  
PUC DOCKET NO. 57149

APPLICATION OF EL PASO § BEFORE THE STATE OFFICE  
ELECTRIC COMPANY FOR AUTHORITY §  
TO RECONCILE FUEL COSTS § OF  
§  
§ ADMINISTRATIVE HEARINGS

EL PASO ELECTRIC COMPANY'S RESPONSE TO  
VINTON STEEL, LLC'S  
FIRST REQUESTS FOR INFORMATION  
QUESTION NOS. VS 1-1 THROUGH VS 1-21

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VS 1-1:

Please refer to the testimony of George Novela, page 11, line 25 and related footnote 1. Provide a copy of the renewable portfolio standards (RPS) rule or provide a complete citation to the rule in the New Mexico Administrative Code, including the Title, Chapter, Part, and Rule such as NMAC 17.9.572.14.

RESPONSE:

TITLE 17        PUBLIC UTILITIES AND UTILITY SERVICES  
CHAPTER 9     ELECTRIC SERVICES  
PART 572      RENEWABLE ENERGY FOR ELECTRIC UTILITIES  
NMAC 17.9.572.10

Preparer: George Novela

Title: Senior Director- Regulatory Policy and Rates

Sponsor: George Novela

Title: Senior Director- Regulatory Policy and Rates

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VS 1-2:

Please refer to the testimony of George Novela, page 12, lines 1-3. Provide identify and describe the “planned renewable resource” that was coming online to serve New Mexico customers.”

RESPONSE:

The planned renewable resource referenced in El Paso Electric Company (“EPE”) witness George Novela’s direct testimony is the Carne Project. The Carne Project is a planned 130 megawatt solar photovoltaic and 65 MW battery storage energy resource whose owner is D.E. Shaw Renewable Investments, Inc. EPE requested regulatory approval of the Carne Project from the New Mexico Public Regulation Commission, which was granted through a Final Order issued on May 17, 2023, in NMPRC Case No. 22-00093-UT. The expected Commercial Operation Date for the Carne Project is August 31, 2025.

Preparer: Alejandro Rios  
Judith M. Parsons

Title: Associate Analyst  
Regional Manager–Regulatory Resource  
Strategy

Sponsor: George Novela

Title: Senior Director–Regulatory Policy &  
Rates

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VS 1-3:

Describe the reasons for the delays with “another planned renewable resource coming online to serve New Mexico customers” mentioned on page 12, lines 2-3 of Mr. Novela’s testimony.

RESPONSE:

As stated in EPE’s response to VS 1-2, on May 17, 2023, the New Mexico Public Regulatory Commission (“NMPRC”) Case No. 22-00093-UT Final Order approved the Carne Project. On June 6, 2023, the City of Las Cruces appealed that final order to the New Mexico Supreme Court in Case No. S-1-SC-39967. Due to the appeal, several operative provisions of the Carne Project’s power purchase agreement (“PPA”) and energy storage agreement (“ESA”) were put on hold because of a “NMPRC Final Approval” condition precedent, defined, in relevant part, as receipt of a non-appealable final order. The possibility that the New Mexico Supreme Court could reverse the NMPRC Final Order approving the Carne Project, together with the standard two- to three-year time period between the filing of an appeal and a final decision from the New Mexico Supreme Court, put the project at risk, and jeopardized EPE’s ability to use the resource for New Mexico renewable portfolio standard compliance purposes.

For these reasons, and so that the Carne Project could move forward and obtain financing, EPE and D.E. Shaw Renewable Investments, Inc. (“DESRI”), the Carne Project owner, agreed to waive the NMPRC Final Approval condition precedent. Further, because of the delay caused by the City of Las Cruces appeal, which qualifies as a Force Majeure Event and interconnection delay under the project’s PPA and ESA, EPE and DESRI entered into a Letter Agreement dated April 30, 2024, agreeing to a new commercial operation date of August 31, 2025.

Preparer: Felipe Mejia  
Judith M. Parsons

Title: Analyst – Market Development &  
Resource Strategy  
Regional Manager–Regulatory Resource  
Strategy

Sponsor: George Novela

Title: Senior Director–Regulatory Policy and  
Rates

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QUESTION NOS. VS 1-1 THROUGH VS 1-21

VS 1-4:

Please refer to the testimony of Victor Martinez, pages 9-10. When did EPE join the Southwest Reserve Sharing Group (SRSG)?

RESPONSE:

EPE joined the Southwest Reserve Sharing Group (SRSG) on January 1, 1998.

Preparer: Jaime Reyes

Title: Manager – Energy Resources

Sponsor: Victor Martinez

Title: Director – Energy Resources

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EL PASO ELECTRIC COMPANY'S RESPONSE TO  
VINTON STEEL, LLC'S  
FIRST REQUESTS FOR INFORMATION  
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VS 1-5:

What was EPE's required reserve margin before joining the SRSG? What was the required reserve margin after joining SRSG?

RESPONSE:

Before joining SRSG, the requirement would be to carry enough hourly reserves to recover from EPE's most severe single contingency (approximately 211 MW – Palo Verde). After joining the SRSG, that requirement was to carry approximately 7% of EPE's hourly total obligations (approximately 60-80 MWs in off-peak and 90-115 MWs in on-peak months).

Preparer: Jaime Reyes

Title: Manager – Energy Resources

Sponsor: Victor Martinez

Title: Director – Energy Resources



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VS 1-6:

Please list the names of the generation owners that make up the SRSG or were members of the SRSG at any time during EPE's membership in the SRSG.

RESPONSE:

Current and/or former members of the SRSG include the following: Arizona Public Service, El Paso Electric Company, Farmington Electric Utility System, Western Area Power Administration, Imperial Irrigation District, Public Service Company of New Mexico, Mesquite Power LLC, Arizona G&T Cooperatives, Griffith Energy, Salt River Project, Tri-State Electric, Tucson Electric Power, Incorporated county of Los Alamos, Nevada Power Company, and Plains Electric Generation and Transmission Cooperative.

Preparer: Jaime Reyes

Title: Manager – Energy Resources

Sponsor: Victor Martinez

Title: Director – Energy Resources

APPLICATION OF EL PASO	§	BEFORE THE PUBLIC UTILITY
ELECTRIC COMPANY FOR AUTHORITY	§	
TO RECONCILE FUEL COSTS	§	COMMISSION OF TEXAS

EL PASO ELECTRIC COMPANY'S RESPONSE TO  
VINTON STEEL, LLC'S  
FIRST REQUESTS FOR INFORMATION  
QUESTION NOS. VS 1-1 THROUGH VS 1-21

VS 1-7:

Please refer to the testimony of Victor Martinez, page 9, lines 29–31, in which he states that “On an operational basis, EPE can carry approximately half the operating reserves it would otherwise have to because it is a SRSG member.” Please provide any documents supporting this statement.

RESPONSE:

Please see VS 1-7 Attachment 4 for the North American Electric Reliability Corporation (“NERC”) standard BAL-002-2 – Disturbance Control Standard, requiring all Balancing Authorities to carry enough contingency reserves to cover its most severe single contingency (“MSSC”). EPE’s MSSC is a Palo Verde Unit at approximately 211 MWs. VS 1-7 Attachments 1 – 3 have the hourly SRSG requirements, within the Reconciliation Period, demonstrating how much lower EPE’s hourly contingency reserve requirements were compared to having to carry reserves equal to its MSSC.

Preparer: Jaime Reyes

Title: Manager – Energy Resources

Sponsor: Victor Martinez

Title: Director – Energy Resources

EL PASO ELECTRIC COMPANY  
SRSR HOURLY REQUIREMENT

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4/1/2022	71	57	67	72	72	60	73	74	72	84	86	84	84	81	83	73	82	80	74	73	73	72	69	69	74	86	
4/2/2022	54	71	72	53	70	50	73	76	73	78	82	84	85	85	86	74	85	81	66	74	72	70	69	66	73	86	
4/3/2022	71	72	72	43	60	40	74	58	80	83	61	79	84	82	89	88	83	81	75	74	56	58	72	73	71	89	
4/4/2022	69	61	73	75	76	77	74	75	81	82	85	82	87	87	64	76	80	77	74	63	71	69	70	72	75	87	
4/5/2022	66	71	72	64	58	74	72	75	80	82	84	85	85	70	83	84	80	77	71	70	70	70	66	59	74	85	
4/6/2022	67	68	70	53	71	63	61	60	74	85	76	73	83	80	75	79	58	74	70	68	67	65	66	67	70	85	
4/7/2022	70	70	70	57	69	70	70	73	80	64	81	79	81	80	79	78	73	69	66	64	63	63	63	64	71	81	
4/8/2022	68	70	69	72	74	74	73	77	70	85	84	80	76	73	70	62	67	66	66	66	66	66	65	66	71	85	
4/9/2022	67	67	59	67	62	67	69	73	79	78	72	78	79	81	69	67	74	72	69	68	67	59	67	67	70	81	
4/10/2022	70	73	75	68	77	74	77	76	82	85	87	88	86	86	87	87	78	79	74	76	73	72	47	70	77	88	
4/11/2022	71	72	71	65	72	72	67	72	58	80	84	77	83	82	65	83	82	75	71	70	63	65	69	71	73	84	
4/12/2022	44	68	69	65	70	71	69	71	79	84	86	90	82	92	90	93	91	88	82	75	72	70	68	67	76	93	
4/13/2022	66	57	58	65	66	67	60	67	63	66	82	84	71	83	83	81	78	70	69	69	67	65	65	66	70	84	
4/14/2022	61	66	64	67	68	70	67	65	73	76	80	82	82	72	82	83	71	79	71	68	66	50	64	65	70	83	
4/15/2022	57	66	65	66	62	64	64	63	62	79	67	81	75	82	82	83	82	70	70	69	68	67	58	67	69	83	
4/16/2022	47	67	67	33	66	66	67	70	78	78	82	85	86	88	88	85	81	78	53	56	48	68	68	69	70	88	
4/17/2022	68	61	69	74	75	59	73	77	79	84	84	87	86	87	87	85	81	78	70	63	39	66	64	64	73	87	
4/18/2022	65	66	67	68	57	69	72	66	70	76	83	84	86	87	80	26	61	43	66	66	75	76	76	71	69	87	
4/19/2022	75	75	75	71	70	76	74	77	76	89	92	90	94	93	59	83	77	73	69	64	69	58	69	69	76	94	
4/20/2022	70	70	71	46	68	71	74	77	60	88	79	91	95	95	96	94	91	78	78	74	74	73	71	72	77	96	
4/21/2022	72	73	62	62	77	75	76	80	86	87	93	80	94	95	87	91	88	83	78	69	68	69	70	71	79	95	
4/22/2022	73	73	67	68	77	78	69	81	85	92	97	100	102	106	106	107	100	95	90	81	83	67	77	73	85	107	
4/23/2022	75	74	51	75	75	69	78	77	87	86	94	95	97	99	98	92	85	89	80	74	71	69	66	67	80	99	
4/24/2022	52	73	74	41	74	73	78	83	88	90	91	92	94	95	96	96	93	87	80	78	74	71	68	66	79	96	
4/25/2022	67	52	70	70	71	72	73	74	81	87	89	88	86	85	66	83	77	72	69	69	67	66	67	61	73	89	
4/26/2022	67	58	67	68	70	67	61	72	74	78	79	79	75	75	74	72	70	56	64	69	64	66	67	68	69	79	
4/27/2022	66	67	67	68	44	67	68	73	79	83	88	90	91	89	86	82	80	74	73	71	64	68	68	68	74	91	
4/28/2022	62	50	63	63	68	68	70	73	77	82	84	84	83	84	83	83	74	54	71	69	69	68	67	67	72	84	
4/29/2022	68	69	69	56	69	69	58	76	82	83	83	84	83	81	85	85	81	70	70	68	68	68	68	68	68	85	
4/30/2022	52	64	64	61	64	65	58	72	78	81	82	84	82	83	83	83	63	71	70	67	68	68	51	67	70	84	
	Monthly Average																									73	Monthly Max
																											107

EL PASO ELECTRIC COMPANY  
SMSG HOURLY REQUIREMENT

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5/1/2022	70	43	52	59	64	69	70	74	56	86	88	93	63	84	89	87	83	78	73	69	61	69	70	66	72	93
5/2/2022	47	68	60	75	60	78	45	81	84	88	90	89	87	80	88	88	82	78	75	73	71	70	70	71	75	90
5/3/2022	70	56	73	72	73	63	73	78	83	86	93	96	94	93	69	87	81	77	71	70	69	69	69	70	76	96
5/4/2022	71	62	62	40	73	75	74	78	87	90	93	94	91	90	89	88	68	79	44	62	69	68	68	67	74	94
5/5/2022	68	69	67	69	41	71	72	63	82	78	88	88	69	83	84	86	82	77	71	68	68	68	67	68	73	88
5/6/2022	71	73	76	67	75	78	79	82	85	88	70	77	88	87	80	84	84	81	76	70	70	68	69	71	77	88
5/7/2022	73	71	78	55	74	78	82	80	87	90	91	89	88	88	75	90	88	83	65	74	74	54	67	71	78	91
5/8/2022	74	53	57	66	73	77	74	65	82	89	62	79	91	92	93	82	94	91	84	70	79	80	79	78	78	94
5/9/2022	80	81	81	81	84	83	69	89	94	95	94	90	93	96	96	94	93	91	88	75	82	81	63	78	86	96
5/10/2022	62	76	82	82	82	80	81	90	92	98	93	92	83	102	103	98	97	95	92	86	84	83	82	82	87	103
5/11/2022	72	69	82	60	83	82	61	81	87	94	94	54	96	106	105	104	100	97	93	88	84	83	73	76	84	106
5/12/2022	54	82	65	84	85	85	84	87	95	102	105	109	111	113	111	85	102	97	91	83	81	70	78	67	89	113
5/13/2022	78	78	64	80	82	82	82	74	87	95	99	102	101	102	98	96	93	89	82	77	57	64	71	67	83	102
5/14/2022	72	67	77	79	71	77	79	84	88	88	88	88	88	89	74	85	82	81	75	72	71	69	69	67	78	89
5/15/2022	68	70	76	80	82	81	82	85	88	89	90	90	88	87	86	87	88	88	84	79	75	73	70	68	81	90
5/16/2022	49	68	79	71	81	81	82	85	88	93	95	95	95	95	95	92	93	91	87	82	79	77	59	69	83	95
5/17/2022	22	81	76	83	71	84	82	71	87	90	90	96	95	93	93	91	89	88	83	79	75	72	73	72	81	96
5/18/2022	74	76	70	79	64	57	76	79	56	83	84	85	86	85	59	91	90	88	73	80	76	72	71	46	75	91
5/19/2022	79	80	80	67	80	83	84	72	95	94	96	96	97	97	91	93	84	86	83	64	75	72	74	54	82	97
5/20/2022	81	82	83	66	84	80	87	94	95	73	95	96	97	99	98	98	95	89	91	85	75	80	82	83	87	99
5/21/2022	84	80	81	85	88	89	91	94	98	98	97	95	95	96	99	98	95	73	91	85	46	61	80	77	86	99
5/22/2022	47	84	74	84	56	88	89	89	76	93	94	90	90	88	83	68	77	73	70	71	71	72	74	77	78	94
5/23/2022	81	85	77	74	89	89	82	91	91	90	94	93	95	77	97	96	95	87	86	83	74	77	78	78	86	97
5/24/2022	79	77	78	77	70	80	62	83	68	85	75	82	81	84	83	66	80	67	77	64	69	50	67	67	74	85
5/25/2022	66	44	61	71	71	73	75	79	67	78	76	74	73	76	77	81	81	74	78	74	64	67	61	69	71	81
5/26/2022	68	69	71	72	74	73	46	53	79	80	80	79	80	81	84	84	89	57	83	77	75	56	70	70	73	89
5/27/2022	74	71	76	58	78	79	79	60	82	84	82	90	90	92	93	93	95	94	89	84	82	80	81	81	82	95
5/28/2022	87	73	91	78	92	92	81	100	102	97	104	106	108	107	106	105	99	94	87	84	81	79	63	78	91	108
5/29/2022	83	63	86	72	88	89	93	96	93	96	97	75	98	105	106	106	105	90	94	88	88	88	88	88	88	106
5/30/2022	90	91	89	91	91	92	93	95	95	90	77	98	94	98	101	102	101	93	94	89	87	83	82	83	92	102
5/31/2022	84	83	68	81	91	89	88	90	94	95	98	100	101	101	100	99	71	84	85	86	84	80	78	79	88	101
																									Monthly Average	Monthly Max
																									81	113

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6/1/2022	77	80	78	90	90	86	92	94	95	98	71	100	100	100	99	97	20	96	89	81	84	87	86	83	86	100	
6/2/2022	85	83	88	86	84	92	93	96	97	93	101	101	100	95	98	99	99	95	90	86	82	82	80	82	91	101	
6/3/2022	84	86	88	87	89	88	92	93	93	89	100	104	105	104	104	103	100	101	95	90	89	87	64	87	92	105	
6/4/2022	88	77	88	86	90	91	93	96	95	97	99	102	101	99	96	86	95	91	87	85	85	82	80	79	90	102	
6/5/2022	81	63	85	85	86	88	92	75	95	93	94	96	99	99	97	95	95	55	57	90	90	90	78	77	86	99	
6/6/2022	80	65	81	71	85	84	68	66	78	96	98	100	96	96	98	100	87	26	67	79	74	83	81	56	80	100	
6/7/2022	78	65	75	80	82	82	85	90	93	86	87	13	97	104	105	99	103	104	94	95	95	89	81	79	86	105	
6/8/2022	80	68	63	74	82	87	83	91	95	99	100	99	104	93	110	108	104	68	91	89	86	55	52	60	85	110	
6/9/2022	67	76	74	78	75	83	85	68	91	91	92	96	80	100	102	105	105	88	98	94	90	84	71	69	86	105	
6/10/2022	47	76	64	78	80	80	82	69	64	87	96	96	101	105	95	111	112	110	105	101	98	91	84	76	88	112	
6/11/2022	78	79	69	81	84	84	85	88	89	61	82	93	98	105	108	111	111	109	105	99	98	93	86	74	90	111	
6/12/2022	82	82	68	75	84	84	88	84	96	67	96	84	56	104	105	105	98	104	102	100	98	92	86	82	88	105	
6/13/2022	85	85	86	85	67	89	93	76	69	79	68	98	101	44	111	105	101	49	100	97	94	79	76	84	84	111	
6/14/2022	88	91	94	77	86	88	91	59	96	99	98	102	83	96	104	106	107	105	101	96	89	86	84	79	92	107	
6/15/2022	86	54	78	88	88	83	89	92	94	97	99	101	91	86	106	111	104	110	108	101	98	75	83	84	92	111	
6/16/2022	70	71	85	68	86	86	91	95	99	99	102	102	107	112	110	76	59	79	61	85	88	54	52	73	84	112	
6/17/2022	73	76	73	79	80	69	46	85	86	87	89	92	74	95	105	106	107	105	101	97	94	87	82	72	86	107	
6/18/2022	81	81	52	82	82	81	84	82	90	90	94	97	99	102	104	103	102	102	98	94	93	92	59	88	89	104	
6/19/2022	90	88	59	91	70	91	94	96	97	97	100	102	104	102	87	98	94	87	82	79	80	79	79	81	88	104	
6/20/2022	83	85	59	86	86	86	81	91	90	93	95	96	93	88	86	91	92	90	86	63	79	73	74	76	84	96	
6/21/2022	79	81	84	81	78	90	90	91	89	87	83	74	78	77	66	72	79	55	75	75	74	71	68	67	78	91	
6/22/2022	66	62	76	72	79	47	79	76	76	75	62	77	81	86	90	88	86	85	83	81	78	74	71	62	75	90	
6/23/2022	72	69	71	77	78	59	78	79	82	83	85	85	95	100	101	88	97	95	90	87	83	73	65	77	82	101	
6/24/2022	67	52	55	80	75	81	82	85	88	91	90	90	94	98	101	79	103	102	97	75	87	82	78	70	83	103	
6/25/2022	74	76	74	78	79	79	82	84	89	88	87	64	75	92	73	98	84	97	91	86	83	77	66	55	80	98	
6/26/2022	74	71	76	73	76	76	80	82	86	76	84	83	60	86	89	89	90	64	84	75	81	78	76	75	78	90	
6/27/2022	76	79	80	81	81	82	82	85	79	86	74	85	88	90	95	97	97	95	91	88	86	64	75	73	84	97	
6/28/2022	69	70	74	53	74	61	79	66	83	86	81	85	74	93	93	100	92	58	92	89	87	70	76	72	78	100	
6/29/2022	71	71	70	72	61	70	64	82	83	78	86	90	96	99	98	104	105	88	97	92	92	92	92	92	92	105	
6/30/2022	74	76	78	73	70	52	78	81	59	89	90	90	96	101	103	104	97	102	99	80	92	80	81	77	84	104	
	Monthly Average																									85	Monthly Max
																											112

EL PASO ELECTRI COMPANY  
SRSR HOURLY REQUIREMENT

SOALL Docket No. 473-25-05084  
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	HE 1	HE 2	HE 3	HE 4	HE 5	HE 6	HE 7	HE 8	HE 9	HE 10	HE 11	HE 12	HE 13	HE 14	HE 15	HE 16	HE 17	HE 18	HE 19	HE 20	HE 21	HE 22	HE 23	HE 24	Daily Average	Daily Max
7/1/2022	78	78	79	79	80	80	79	81	83	84	75	77	88	101	104	103	97	97	93	90	86	75	75	75	85	104
7/2/2022	75	74	80	81	81	62	84	45	88	90	93	96	97	98	98	93	99	97	65	73	84	77	77	78	83	99
7/3/2022	79	81	81	84	79	84	87	91	92	92	70	80	83	79	94	97	97	97	84	89	76	79	77	78	85	97
7/4/2022	78	78	81	82	83	84	85	86	88	92	94	96	96	97	100	103	101	94	87	84	80	61	71	72	86	103
7/5/2022	52	73	76	77	78	81	59	81	82	70	56	81	92	97	100	102	101	103	100	88	88	88	79	77	83	103
7/6/2022	65	63	77	63	82	83	85	87	75	43	76	95	98	92	103	105	105	103	97	91	80	81	80	74	84	105
7/7/2022	80	80	75	84	90	92	92	95	97	99	100	99	103	105	101	106	98	88	85	84	81	76	73	62	89	106
7/8/2022	74	73	75	79	79	79	81	84	55	85	89	91	79	103	98	102	101	100	70	94	89	83	79	76	84	103
7/9/2022	69	61	81	59	83	81	14	87	89	91	94	88	41	77	73	105	90	73	52	90	85	81	73	73	75	105
7/10/2022	74	51	78	79	79	81	83	84	86	87	48	78	97	97	103	80	79	91	93	90	88	82	78	71	81	103
7/11/2022	71	43	49	73	74	74	79	56	80	86	92	99	105	110	110	111	111	107	105	99	95	88	84	77	87	111
7/12/2022	72	73	69	54	75	76	74	82	83	86	92	87	99	85	105	106	106	102	100	97	95	87	78	76	86	106
7/13/2022	64	46	73	71	80	81	83	85	87	76	90	99	101	106	98	86	112	108	87	97	87	90	83	73	86	112
7/14/2022	60	71	60	77	79	77	79	82	79	91	93	99	103	107	112	112	111	109	99	99	96	88	81	70	89	112
7/15/2022	78	72	70	78	79	78	80	85	89	92	87	100	105	110	115	116	114	114	110	104	100	94	86	77	93	116
7/16/2022	75	68	76	76	76	75	81	84	87	87	86	94	93	102	105	108	109	108	98	98	95	86	55	74	87	109
7/17/2022	75	75	76	76	74	53	75	79	82	84	87	93	97	103	104	99	109	110	107	102	95	93	86	83	88	110
7/18/2022	82	54	74	83	77	75	81	84	87	91	79	98	98	110	111	113	102	110	109	106	101	94	82	79	91	113
7/19/2022	77	76	54	78	80	79	85	87	62	92	94	101	103	112	114	67	114	115	106	108	103	86	85	79	90	115
7/20/2022	75	76	59	74	80	50	84	86	60	67	97	102	105	110	70	88	102	99	96	96	94	87	81	75	84	110
7/21/2022	73	73	75	70	76	75	79	83	90	93	96	102	106	108	113	114	115	109	108	103	98	93	86	80	92	115
7/22/2022	77	77	78	78	78	75	81	87	88	87	92	96	99	104	108	108	110	101	32	99	74	89	86	79	87	110
7/23/2022	74	73	73	75	74	74	82	87	91	93	95	96	100	103	106	108	105	103	97	91	77	83	79	73	88	108
7/24/2022	73	72	73	75	79	79	81	84	87	76	94	97	96	97	96	91	93	90	89	85	84	81	78	79	85	97
7/25/2022	70	82	76	78	84	85	86	85	88	90	91	92	88	99	104	98	105	97	102	98	95	86	80	80	89	105
7/26/2022	78	79	80	82	82	83	83	84	85	86	87	92	96	73	67	102	102	98	93	90	87	81	79	75	85	102
7/27/2022	79	81	82	83	83	83	84	70	82	82	84	84	85	89	93	97	79	95	92	90	85	79	79	80	84	97
7/28/2022	81	79	80	80	82	82	70	82	84	81	86	92	96	101	105	104	102	97	92	88	40	72	82	83	85	105
7/29/2022	83	82	82	82	82	56	81	84	87	88	92	93	95	97	99	98	86	89	66	77	77	77	77	77	77	99
7/30/2022	79	80	81	81	81	82	86	85	89	88	90	81	95	100	104	106	105	104	100	95	92	90	90	89	91	106
7/31/2022	88	88	90	83	88	86	85	82	67	90	91	91	94	99	104	107	105	105	101	96	92	86	85	85	91	107
																									Monthly Average	Monthly Max
																									86	116

EL PASO ELECTRIC COMPANY  
SMSG HOURLY REQUIREMENT

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	HE 1	HE 2	HE 3	HE 4	HE 5	HE 6	HE 7	HE 8	HE 9	HE 10	HE 11	HE 12	HE 13	HE 14	HE 15	HE 16	HE 17	HE 18	HE 19	HE 20	HE 21	HE 22	HE 23	HE 24	Daily Average	Daily Max
8/1/2022	83	83	83	84	73	83	82	75	80	91	94	100	106	112	112	111	110	107	104	102	99	91	84	82	93	112
8/2/2022	83	82	82	82	82	83	82	78	87	78	46	100	105	111	114	113	110	108	105	101	97	78	83	81	90	114
8/3/2022	82	79	84	85	86	87	86	88	90	92	97	99	105	110	114	115	110	107	102	100	94	89	85	83	95	115
8/4/2022	84	82	81	83	83	86	83	85	88	94	97	98	100	103	106	109	97	105	100	97	92	88	90	91	93	109
8/5/2022	91	91	91	92	91	91	89	87	89	92	90	96	101	104	108	110	109	106	101	95	95	95	83	83	95	110
8/6/2022	86	86	88	89	89	89	90	88	90	89	89	90	95	95	105	108	109	108	104	100	93	88	81	80	93	109
8/7/2022	83	82	81	81	82	81	81	67	89	91	92	79	89	100	103	103	99	95	77	90	86	79	75	75	86	103
8/8/2022	75	77	69	80	80	81	81	82	84	86	87	90	97	103	106	102	99	95	91	89	88	81	75	72	86	106
8/9/2022	73	73	75	78	80	81	72	81	86	89	92	97	98	102	104	103	96	92	88	85	82	76	74	76	86	104
8/10/2022	77	78	79	80	79	80	80	82	86	88	89	93	100	105	107	107	107	104	99	97	89	82	81	81	90	107
8/11/2022	31	74	60	87	89	89	88	86	87	88	81	87	89	91	90	82	85	84	81	81	77	72	69	69	80	91
8/12/2022	73	77	78	78	81	82	80	79	80	80	83	87	95	100	105	105	99	92	84	82	81	78	80	81	85	105
8/13/2022	81	82	84	84	84	82	85	87	86	83	82	81	82	87	91	96	97	95	91	87	82	77	74	74	85	97
8/14/2022	76	78	80	80	80	79	80	81	85	75	89	93	93	97	99	102	102	101	98	95	90	84	85	84	88	102
8/15/2022	83	85	85	86	87	85	84	85	90	93	93	95	101	103	105	106	107	106	102	100	94	85	80	80	92	107
8/16/2022	81	81	81	81	82	84	83	84	83	84	86	86	94	96	96	95	92	88	87	87	85	79	71	65	85	96
8/17/2022	68	71	74	76	78	80	83	82	80	79	74	74	77	79	80	81	82	83	48	79	78	72	67	47	75	83
8/18/2022	70	72	73	75	79	79	77	77	79	80	77	76	83	88	91	93	93	93	91	88	83	76	76	78	81	93
8/19/2022	76	78	78	78	81	82	80	78	79	78	79	80	81	83	88	91	91	89	84	82	80	79	79	79	81	91
8/20/2022	72	80	81	82	81	81	81	81	83	84	87	87	86	85	81	78	77	75	74	73	71	70	72	73	79	87
8/21/2022	61	32	79	80	79	80	80	83	83	83	83	83	83	81	82	85	86	83	81	80	77	72	75	78	78	86
8/22/2022	80	79	79	81	83	85	82	81	83	82	84	86	85	89	93	93	92	87	81	80	77	71	70	72	82	93
8/23/2022	74	76	78	80	80	81	78	78	79	80	77	78	81	86	87	85	83	81	79	80	77	71	71	72	79	87
8/24/2022	74	75	75	77	78	79	79	76	78	80	78	78	83	85	87	89	89	86	83	80	78	73	70	71	79	89
8/25/2022	72	74	75	78	81	82	79	77	77	63	78	81	86	91	94	97	98	95	91	88	84	77	73	71	82	98
8/26/2022	72	72	74	75	76	77	76	78	79	80	81	86	91	94	97	99	99	96	92	87	83	76	74	75	83	99
8/27/2022	75	75	76	77	78	77	78	80	81	82	83	84	90	95	97	96	92	86	80	77	73	70	72	73	81	97
8/28/2022	73	75	75	77	76	75	78	79	81	80	20	79	86	91	96	100	101	99	95	91	88	82	78	72	81	101
8/29/2022	72	73	73	74	75	76	75	75	76	80	83	90	97	104	107	107	105	99	93	88	88	88	88	88	88	107
8/30/2022	70	71	72	74	75	75	78	80	80	79	79	82	83	85	88	89	87	86	85	84	82	74	70	66	79	89
8/31/2022	66	68	69	71	73	76	76	77	75	75	74	75	79	82	85	86	86	83	83	84	80	74	70	68	77	86
																									Monthly Average	Monthly Max
																									85	115

EL PASO ELECTRI COMPANY  
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	HE 1	HE 2	HE 3	HE 4	HE 5	HE 6	HE 7	HE 8	HE 9	HE 10	HE 11	HE 12	HE 13	HE 14	HE 15	HE 16	HE 17	HE 18	HE 19	HE 20	HE 21	HE 22	HE 23	HE 24	Daily Average	Daily Max
9/1/2022	67	58	75	67	79	80	81	80	80	78	78	79	81	84	86	89	89	89	88	88	87	78	74	70	79	89
9/2/2022	68	68	70	72	75	77	79	80	80	80	80	86	91	96	99	99	99	95	92	89	84	78	72	70	82	99
9/3/2022	70	68	71	73	75	76	79	82	83	85	84	84	86	88	90	92	92	89	88	86	81	75	70	65	80	92
9/4/2022	66	66	68	69	70	70	72	75	78	78	76	77	83	87	90	93	90	93	89	88	84	73	69	69	78	93
9/5/2022	70	70	72	72	73	74	78	82	81	72	82	84	89	93	97	68	99	99	95	91	91	91	70	67	82	99
9/6/2022	67	68	68	70	71	57	75	77	76	77	78	90	98	102	102	106	106	102	98	95	89	83	73	66	83	106
9/7/2022	68	69	70	71	72	74	74	73	72	72	75	82	87	92	94	96	91	29	92	90	85	77	70	68	77	96
9/8/2022	69	68	69	69	71	72	72	73	73	74	75	79	77	92	96	98	98	95	93	92	84	78	74	72	80	98
9/9/2022	70	70	62	72	73	74	74	73	75	75	75	81	86	92	97	98	98	87	90	86	81	75	75	76	80	98
9/10/2022	79	80	76	81	80	73	79	79	81	83	83	85	88	89	95	78	42	87	89	86	81	77	77	78	80	95
9/11/2022	80	81	80	80	79	78	78	81	82	81	79	76	74	76	81	85	86	71	81	80	76	71	71	73	78	86
9/12/2022	76	78	79	79	79	82	79	79	79	81	83	86	88	92	97	99	98	93	89	84	78	73	73	74	83	99
9/13/2022	76	76	63	67	80	81	80	80	81	81	82	83	85	87	89	92	93	84	88	84	82	77	72	76	81	93
9/14/2022	76	63	79	80	81	83	82	77	85	88	89	89	90	92	92	91	91	63	68	84	80	49	76	80	80	92
9/15/2022	82	83	84	85	88	86	83	83	88	92	94	95	98	97	97	99	97	95	90	86	81	79	78	78	88	99
9/16/2022	79	80	82	83	85	85	83	85	90	94	96	98	100	98	96	98	97	95	89	84	79	79	80	79	88	100
9/17/2022	79	81	82	83	83	83	84	88	93	94	92	93	93	92	93	94	94	90	85	81	78	77	76	76	86	94
9/18/2022	80	81	85	86	88	88	89	94	95	97	97	100	97	92	85	81	76	71	69	68	68	68	69	72	83	100
9/19/2022	73	77	79	79	82	84	85	85	86	86	86	85	83	88	92	86	90	89	86	83	79	74	71	73	83	92
9/20/2022	78	79	74	78	79	81	78	81	84	87	89	91	93	95	98	100	99	97	94	90	29	68	78	80	83	100
9/21/2022	81	81	82	81	81	80	81	81	83	86	89	91	95	97	76	58	97	96	93	90	85	83	82	82	85	97
9/22/2022	82	84	84	85	85	85	83	82	86	94	99	102	105	103	100	98	97	94	91	85	81	81	80	81	89	105
9/23/2022	82	82	83	87	88	87	84	84	87	88	92	94	93	93	96	99	98	94	88	84	78	77	78	78	87	99
9/24/2022	78	79	79	79	80	79	79	81	83	86	86	86	86	88	90	90	91	88	85	81	79	78	80	79	83	91
9/25/2022	79	79	81	81	78	80	80	80	86	87	86	81	76	71	69	69	71	73	74	73	75	76	75	76	77	87
9/26/2022	78	79	81	81	82	83	82	81	84	87	88	80	77	77	86	91	90	86	81	78	74	69	69	70	81	91
9/27/2022	73	74	74	77	77	78	56	75	76	77	80	83	83	87	90	92	93	89	87	85	82	80	65	79	80	93
9/28/2022	79	79	79	80	83	80	80	79	77	64	81	80	80	83	87	81	88	85	83	80	76	73	74	72	79	88
9/29/2022	74	76	77	78	78	79	76	75	75	77	76	77	81	82	83	83	82	81	80	78	78	78	78	78	78	83
9/30/2022	76	79	80	47	82	82	81	81	81	81	82	82	84	85	85	86	86	83	81	81	80	67	47	75	78	86
	Monthly Average																									Monthly Max
	82																									106



EL PASO ELECTRI COMPANY  
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	HE 1	HE 2	HE 3	HE 4	HE 5	HE 6	HE 7	HE 8	HE 9	HE 10	HE 11	HE 12	HE 13	HE 14	HE 15	HE 16	HE 17	HE 18	HE 19	HE 20	HE 21	HE 22	HE 23	HE 24	Daily Average	Daily Max
10/1/2022	78	75	74	74	74	73	71	71	73	74	73	74	73	74	75	75	64	70	61	67	67	67	68	69	71	78
10/2/2022	69	69	70	70	69	69	41	71	75	76	75	72	71	68	68	72	73	72	37	69	67	65	65	65	67	76
10/3/2022	66	68	71	72	65	70	69	70	72	72	71	67	71	70	72	74	74	72	71	69	67	65	64	66	69	74
10/4/2022	69	69	69	70	71	70	68	52	61	76	79	68	77	84	84	84	81	76	75	74	69	66	68	68	72	84
10/5/2022	70	70	67	71	72	72	71	74	78	78	79	80	81	81	82	80	75	71	68	67	67	67	65	61	73	82
10/6/2022	69	65	69	71	71	71	69	69	72	73	73	71	71	71	70	70	70	68	68	67	67	64	64	65	69	73
10/7/2022	67	69	68	69	68	69	69	68	70	77	78	77	73	68	64	61	59	58	61	61	61	62	62	62	67	78
10/8/2022	63	56	65	65	66	66	65	66	67	68	69	68	46	64	63	62	61	60	62	62	61	61	61	52	62	69
10/9/2022	65	65	66	68	68	69	70	70	71	73	72	72	72	70	66	67	64	64	67	67	67	62	62	54	67	73
10/10/2022	63	64	64	65	66	66	65	66	65	66	68	67	67	68	67	68	68	68	69	70	67	64	64	64	66	70
10/11/2022	64	65	65	65	66	67	66	66	70	74	76	76	77	78	78	74	71	69	69	67	63	63	62	62	69	78
10/12/2022	64	65	66	68	69	67	66	66	69	72	73	72	78	81	83	84	80	75	74	71	67	65	64	62	71	84
10/13/2022	63	64	64	65	67	65	65	66	70	73	74	74	76	78	77	77	75	71	70	70	69	66	49	64	69	78
10/14/2022	65	63	65	66	67	68	68	67	69	70	72	42	60	75	73	73	71	70	70	70	68	55	65	65	66	75
10/15/2022	65	65	56	64	65	66	66	66	68	70	73	76	85	87	91	91	89	86	80	83	77	74	69	70	74	91
10/16/2022	70	70	71	53	71	69	68	49	70	71	77	82	86	88	85	83	78	75	74	72	71	70	66	64	72	88
10/17/2022	64	64	64	64	65	67	69	70	72	76	79	79	80	77	75	72	69	70	55	72	70	61	64	40	68	80
10/18/2022	66	67	68	69	70	72	56	70	71	72	72	70	69	69	66	65	65	67	69	68	69	63	65	66	68	72
10/19/2022	69	68	69	72	74	74	72	72	73	76	76	74	74	74	75	74	75	73	72	70	69	66	62	55	71	76
10/20/2022	65	65	65	65	67	69	69	69	71	72	73	71	71	70	70	71	69	69	64	68	66	62	62	63	68	73
10/21/2022	64	64	64	65	67	69	68	69	72	58	75	73	73	71	70	72	70	68	67	66	66	66	67	67	68	75
10/22/2022	69	69	70	71	71	70	69	72	78	80	82	84	83	84	81	77	74	72	71	50	69	68	69	63	73	84
10/23/2022	71	72	72	72	72	72	72	73	81	89	91	92	92	91	89	89	85	77	76	76	75	73	70	67	79	92
10/24/2022	71	72	72	72	74	74	74	74	81	87	86	84	84	82	82	82	78	73	72	71	72	72	73	72	76	87
10/25/2022	71	70	70	72	72	73	74	74	72	76	71	81	80	82	83	88	81	76	75	75	73	70	67	63	74	88
10/26/2022	70	71	72	52	75	78	75	70	22	83	89	91	90	89	88	83	77	72	72	71	69	69	71	70	74	91
10/27/2022	69	69	46	69	71	73	70	71	73	79	83	84	84	84	82	67	33	70	70	70	68	67	68	69	70	84
10/28/2022	70	69	66	70	72	73	72	73	79	80	82	82	82	80	77	75	74	71	40	58	62	69	70	69	71	82
10/29/2022	72	72	71	72	72	73	75	75	73	73	76	79	79	79	80	76	71	70	69	70	70	70	70	70	70	80
10/30/2022	67	64	66	67	68	68	67	67	69	72	73	75	68	76	74	74	70	68	70	69	67	66	65	65	69	76
10/31/2022	67	52	68	68	69	71	71	71	63	74	75	75	74	74	74	74	71	71	71	68	68	66	66	61	69	75
	Monthly Avergae																									Monthly Max
	70																									92

EL PASO ELECTRI COMPANY  
SRSG HOURLY REQUIREMENT

SO/All Docket No. 473-25-05084  
PUC Docket No. 57149  
VS's 1st Q. No. VS 1-7  
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	HE 1	HE 2	HE 3	HE 4	HE 5	HE 6	HE 7	HE 8	HE 9	HE 10	HE 11	HE 12	HE 13	HE 14	HE 15	HE 16	HE 17	HE 18	HE 19	HE 20	HE 21	HE 22	HE 23	HE 24	Daily Average	Daily Max
11/1/2022	68	69	70	69	70	71	70	69	70	63	71	72	73	75	79	83	72	76	74	72	70	68	67	61	71	83
11/2/2022	68	68	67	67	70	75	75	71	71	72	73	73	75	75	79	80	76	72	72	70	69	68	66	66	72	80
11/3/2022	69	66	72	72	74	76	72	70	71	71	71	74	77	81	82	85	82	75	74	73	70	69	69	68	73	85
11/4/2022	66	66	66	67	69	71	71	70	71	73	77	79	81	83	84	84	78	76	76	76	75	76	73	73	74	84
11/5/2022	71	71	72	72	71	73	75	74	76	80	80	83	86	83	86	87	79	75	74	74	74	74	71	58	76	87
11/6/2022	20	79	78	79	78	78	76	74	75	83	86	87	90	92	93	94	88	82	66	80	80	80	78	75	79	94
11/7/2022	71	75	74	72	75	76	78	74	76	81	80	81	83	84	86	50	82	81	80	80	79	77	71	80	77	86
11/8/2022	80	64	74	71	74	74	74	73	72	73	76	79	80	81	83	82	63	79	76	74	72	72	71	72	74	83
11/9/2022	71	71	70	43	72	71	73	59	60	72	78	79	81	82	86	91	83	76	79	78	78	66	75	74	74	91
11/10/2022	69	77	75	73	74	74	72	71	70	78	78	79	80	80	82	85	81	76	54	75	74	72	70	71	75	85
11/11/2022	71	70	70	69	69	70	69	69	70	72	74	79	81	81	81	78	77	75	77	73	70	71	71	72	73	81
11/12/2022	61	71	71	72	71	72	70	67	69	74	71	80	80	83	85	84	78	73	72	70	71	71	70	70	73	85
11/13/2022	42	71	72	71	71	70	70	66	70	79	86	86	77	86	68	86	85	78	65	72	72	72	71	65	73	86
11/14/2022	71	71	70	70	70	65	71	70	71	75	80	85	84	81	85	85	82	79	63	79	68	60	72	73	74	85
11/15/2022	67	68	58	67	68	71	69	65	72	60	78	79	78	85	87	84	83	80	78	78	78	76	64	74	74	87
11/16/2022	68	61	70	70	71	70	72	73	68	23	77	78	81	84	83	81	61	76	70	75	72	73	72	52	70	84
11/17/2022	70	71	72	72	72	72	61	75	73	68	78	83	81	81	81	73	73	72	72	73	72	71	70	70	73	83
11/18/2022	51	72	70	72	60	72	67	65	75	75	79	77	74	70	74	74	73	69	73	73	71	73	75	75	71	79
11/19/2022	75	76	75	74	74	72	57	70	72	76	82	88	88	90	90	84	84	70	77	78	78	78	78	76	78	90
11/20/2022	69	71	71	71	71	70	69	42	71	77	86	50	86	87	57	84	79	72	69	71	62	70	71	71	71	87
11/21/2022	71	72	72	61	71	70	68	67	69	72	75	76	75	75	68	73	73	72	45	73	73	72	69	73	70	76
11/22/2022	73	72	72	71	71	71	70	70	71	74	79	81	83	83	82	81	76	73	72	71	72	72	72	72	74	83
11/23/2022	73	72	72	72	72	71	69	70	70	73	77	78	85	85	86	85	81	74	72	72	72	71	70	70	75	86
11/24/2022	70	75	77	78	78	74	74	73	74	74	82	79	85	85	88	88	87	82	81	81	80	79	80	80	79	88
11/25/2022	80	80	80	80	80	80	80	80	82	85	92	95	95	95	94	93	88	85	85	84	84	84	82	81	85	95
11/26/2022	31	81	85	84	84	82	80	78	77	82	89	92	93	93	91	92	92	88	86	88	88	86	87	87	84	93
11/27/2022	86	86	85	87	87	88	87	84	82	82	73	92	95	95	73	89	75	87	69	86	85	84	83	84	84	95
11/28/2022	83	78	84	84	84	83	83	81	79	81	83	85	89	94	95	95	91	84	83	83	83	82	80	79	84	95
11/29/2022	78	75	73	72	64	73	71	69	69	70	75	53	80	81	82	82	77	74	73	72	72	72	72	72	72	82
11/30/2022	65	76	76	76	76	76	75	72	71	75	78	78	76	83	83	79	82	78	72	81	80	79	77	79	77	83
																									Monthly Average	Monthly Max
																									75	95

EL PASO ELECTRI COMPANY  
SRSR HOURLY REQUIREMENT

SO/All Docket No. 473-25-05084  
PUC Docket No. 57149  
VS's 1st Q. No. VS 1-7  
Attachment 1  
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	HE 1	HE 2	HE 3	HE 4	HE 5	HE 6	HE 7	HE 8	HE 9	HE 10	HE 11	HE 12	HE 13	HE 14	HE 15	HE 16	HE 17	HE 18	HE 19	HE 20	HE 21	HE 22	HE 23	HE 24	Daily Average	Daily Max	
12/1/2022	77	73	61	71	71	71	73	71	72	73	74	74	76	80	83	82	78	65	74	73	74	74	73	73	74	74	83
12/2/2022	64	78	78	79	76	75	71	74	74	73	73	77	78	66	79	60	78	76	74	73	63	73	68	62	73	79	
12/3/2022	72	71	68	71	68	29	70	69	65	68	65	69	69	68	69	73	73	74	63	76	70	72	72	74	68	76	
12/4/2022	76	79	79	79	79	78	64	75	73	68	61	72	73	74	77	79	80	80	79	80	80	79	78	76	76	80	
12/5/2022	74	75	76	74	56	73	74	74	49	56	75	77	81	84	87	72	83	79	78	78	78	78	73	71	74	87	
12/6/2022	72	73	73	72	73	73	73	74	73	73	77	12	81	84	87	68	74	83	84	84	83	76	73	73	74	87	
12/7/2022	73	73	72	71	71	63	73	72	72	78	78	79	80	83	75	81	81	79	79	80	80	79	78	77	76	83	
12/8/2022	75	72	71	71	71	74	73	72	73	77	77	80	84	85	86	85	82	80	77	66	58	67	75	66	75	86	
12/9/2022	75	63	74	74	74	73	73	72	74	79	84	88	89	90	92	91	71	54	81	62	80	67	75	75	76	92	
12/10/2022	66	72	71	71	71	72	72	70	69	71	73	73	61	79	81	82	77	69	49	73	70	42	42	66	68	82	
12/11/2022	70	73	73	73	75	74	73	73	72	55	74	78	79	80	81	81	78	74	75	77	77	75	65	30	72	81	
12/12/2022	52	72	73	73	72	68	78	76	75	75	73	74	74	48	67	20	73	69	70	70	71	69	69	70	68	78	
12/13/2022	71	74	74	77	77	75	72	72	71	70	72	72	75	77	83	81	74	71	69	67	68	69	72	71	73	83	
12/14/2022	73	72	74	72	72	71	69	67	69	72	73	76	78	79	83	81	77	74	71	69	68	69	71	73	73	83	
12/15/2022	72	67	67	73	65	71	68	66	66	68	70	73	74	76	78	74	66	67	59	67	63	65	66	66	69	78	
12/16/2022	68	50	58	68	68	66	63	62	51	70	72	75	77	81	80	80	75	77	76	74	76	73	72	71	70	81	
12/17/2022	71	72	72	71	71	57	69	58	67	70	71	74	76	77	79	78	74	73	73	72	70	71	60	70	71	79	
12/18/2022	51	49	72	72	72	71	71	72	72	75	78	80	62	83	83	83	63	61	78	75	74	73	72	71	71	83	
12/19/2022	71	56	60	71	71	70	71	69	70	71	73	36	58	79	79	79	75	72	69	74	73	73	71	68	69	79	
12/20/2022	68	73	76	70	75	75	76	62	73	74	58	79	81	83	84	84	85	82	80	81	80	79	78	75	76	85	
12/21/2022	74	78	79	79	79	75	74	72	71	70	75	75	57	80	81	82	79	78	78	77	76	41	75	75	74	82	
12/22/2022	76	74	75	74	73	72	71	68	69	72	72	74	77	78	75	64	72	71	73	73	67	75	78	80	73	80	
12/23/2022	81	83	82	84	32	85	83	82	62	82	83	83	84	86	85	85	85	50	58	81	81	80	63	78	77	86	
12/24/2022	75	73	74	75	75	74	73	72	74	78	79	80	58	82	81	80	76	72	71	72	72	71	69	34	72	82	
12/25/2022	54	76	49	78	77	74	75	45	73	75	79	82	85	85	84	82	74	71	71	72	73	72	71	71	73	85	
12/26/2022	72	74	76	76	44	74	73	71	69	67	72	74	74	73	73	71	70	70	71	71	70	51	70	71	70	76	
12/27/2022	71	71	72	73	76	73	72	72	71	49	71	47	72	73	55	43	71	71	70	69	70	70	59	69	67	76	
12/28/2022	71	75	78	79	67	77	74	73	72	75	78	80	41	82	81	81	74	69	67	67	67	67	67	67	72	82	
12/29/2022	67	53	65	65	66	67	67	67	65	51	69	70	71	66	71	71	70	72	73	75	75	75	75	75	75	75	
12/30/2022	75	81	63	80	80	62	81	65	75	77	76	73	76	78	76	76	55	79	79	80	74	79	79	80	75	81	
12/31/2022	66	78	78	66	72	78	77	74	73	72	72	71	71	63	46	73	73	74	76	76	76	73	69	73	72	78	
	Monthly Avergae																									Monthly Max	
	72																									92	

	HE 1	HE 2	HE 3	HE 4	HE 5	HE 6	HE 7	HE 8	HE 9	HE 10	HE 11	HE 12	HE 13	HE 14	HE 15	HE 16	HE 17	HE 18	HE 19	HE 20	HE 21	HE 22	HE 23	HE 24	Daily Average	Daily Max
1/1/2023	61	62	75	70	75	74	74	74	71	74	72	71	72	73	73	72	73	73	55	42	74	73	71	69	70	75
1/2/2023	57	65	39	56	72	60	72	73	77	76	80	77	82	81	79	67	79	80	80	80	80	80	77	75	73	82
1/3/2023	61	78	78	75	78	78	79	74	77	78	80	81	80	75	83	81	79	81	80	77	80	80	78	76	78	83
1/4/2023	72	63	74	66	75	74	58	75	76	78	79	79	80	82	81	79	79	64	78	77	75	77	75	73	74	82
1/5/2023	73	83	85	62	80	81	84	79	85	81	82	82	80	80	83	82	66	84	84	85	85	84	83	81	81	85
1/6/2023	78	79	83	83	83	83	83	80	83	84	80	88	87	84	84	83	84	71	85	85	83	83	82	79	82	88
1/7/2023	78	80	81	82	81	81	80	84	83	93	83	117	117	67	84	82	87	73	99	129	127	86	121	76	90	129
1/8/2023	89	121	122	113	80	120	119	116	114	103	108	110	108	91	104	84	80	81	72	82	81	79	78	62	96	122
1/9/2023	78	79	74	80	79	67	67	82	91	56	89	89	105	113	102	100	66	92	96	77	95	81	79	73	84	113
1/10/2023	74	80	80	74	68	79	76	66	80	77	75	79	84	85	81	83	80	78	76	78	83	83	77	79	78	85
1/11/2023	69	81	81	79	81	81	83	67	79	73	82	84	85	85	82	84	85	82	79	82	81	76	81	77	80	85
1/12/2023	76	77	72	72	72	71	70	74	76	76	77	78	78	84	83	82	77	78	79	79	78	78	74	66	76	84
1/13/2023	70	74	75	71	77	75	78	79	78	79	81	82	83	83	80	74	76	73	76	76	75	76	76	71	77	83
1/14/2023	75	80	81	82	83	83	84	83	80	78	77	78	79	80	79	79	78	77	74	77	78	78	76	78	79	84
1/15/2023	72	80	80	83	79	77	74	79	77	76	74	75	78	81	97	94	93	92	95	98	109	110	108	108	87	110
1/16/2023	107	102	112	76	78	63	78	82	82	84	84	84	83	82	82	83	82	83	82	83	82	108	108	102	87	112
1/17/2023	105	103	99	76	79	79	79	80	79	82	84	100	102	89	90	88	88	86	82	83	98	98	100	95	89	105
1/18/2023	96	100	103	111	87	70	89	84	100	109	107	117	117	88	87	83	73	91	67	96	66	107	103	93	93	117
1/19/2023	92	83	70	87	87	88	91	80	96	107	94	105	100	76	84	83	82	80	81	84	95	88	102	108	89	108
1/20/2023	86	106	106	104	96	97	98	97	96	95	99	101	104	103	106	83	69	57	62	71	95	97	97	97	93	106
1/21/2023	88	83	94	70	85	89	96	70	69	71	72	75	79	83	60	84	82	78	50	76	76	49	73	69	76	96
1/22/2023	74	81	72	96	94	84	88	69	68	69	71	73	76	79	80	81	78	76	76	72	74	49	73	71	76	96
1/23/2023	70	54	69	55	26	24	71	68	72	73	72	74	78	75	82	83	82	63	76	80	75	80	79	74	69	83
1/24/2023	71	58	49	69	68	68	68	69	70	70	74	75	66	80	79	82	81	77	71	76	72	74	70	64	71	82
1/25/2023	65	75	76	75	93	94	96	96	96	100	103	105	106	104	104	106	63	75	78	78	71	47	71	70	85	106
1/26/2023	72	79	72	79	94	95	96	100	102	96	88	104	105	77	85	85	64	67	79	79	78	76	73	71	84	105
1/27/2023	71	77	79	63	79	78	79	78	75	76	81	82	80	76	85	87	86	81	80	76	79	79	76	75	78	87
1/28/2023	73	74	66	72	72	73	75	77	74	81	83	88	94	78	80	81	82	79	75	75	74	74	73	72	77	94
1/29/2023	71	72	70	70	70	79	80	75	76	70	91	90	91	74	76	72	71	72	60	73	73	72	71	38	73	91
1/30/2023	68	69	70	46	70	71	72	73	72	70	72	73	69	70	74	74	73	74	71	71	68	69	67	66	70	74
1/31/2023	68	54	67	67	68	67	69	63	68	55	69	70	71	71	74	71	76	74	74	78	77	75	72	73	70	78
	Monthly Average																									Monthly Max
	80																									129

	HE 1	HE 2	HE 3	HE 4	HE 5	HE 6	HE 7	HE 8	HE 9	HE 10	HE 11	HE 12	HE 13	HE 14	HE 15	HE 16	HE 17	HE 18	HE 19	HE 20	HE 21	HE 22	HE 23	HE 24	Daily Average	Daily Max
2/1/2023	59	67	64	61	68	70	71	70	70	72	78	79	81	76	83	84	82	72	75	58	53	74	72	70	71	84
2/2/2023	63	65	69	65	69	68	70	67	62	73	78	82	78	83	82	82	69	70	73	74	67	73	72	70	72	83
2/3/2023	70	72	63	71	72	72	74	66	70	69	71	73	74	72	73	73	71	70	70	65	67	70	69	70	70	74
2/4/2023	66	69	40	37	69	66	70	63	69	71	77	73	73	86	78	83	80	69	53	59	70	70	61	71	68	86
2/5/2023	70	72	75	75	74	68	72	70	70	74	83	83	85	87	72	86	84	78	75	37	63	60	72	72	73	87
2/6/2023	71	69	70	70	48	71	70	70	68	69	61	76	80	83	85	84	82	75	70	70	70	68	68	55	71	85
2/7/2023	67	68	70	55	70	72	71	70	69	70	72	81	83	85	86	85	56	78	75	74	52	66	71	45	70	86
2/8/2023	36	70	69	69	70	70	70	70	66	36	74	76	59	80	82	84	81	58	72	71	70	70	70	70	69	84
2/9/2023	42	41	68	69	68	69	39	69	42	40	73	76	49	81	83	85	85	80	74	52	72	48	70	70	64	85
2/10/2023	70	70	71	69	37	47	69	58	66	72	64	59	81	72	81	82	83	76	58	45	20	49	72	73	64	83
2/11/2023	55	72	72	73	73	72	72	70	69	68	68	62	70	65	75	63	60	74	61	68	68	67	68	54	67	75
2/12/2023	69	68	68	57	58	35	67	66	34	67	70	73	41	77	68	80	75	60	69	68	69	70	61	70	64	80
2/13/2023	70	70	69	69	59	62	26	59	52	69	76	78	79	82	87	90	86	80	73	40	70	70	71	70	69	90
2/14/2023	67	49	67	58	70	67	50	27	67	62	70	68	55	66	65	66	46	62	66	67	68	67	68	68	62	70
2/15/2023	52	64	48	39	53	63	60	63	63	60	61	80	83	85	84	61	81	74	60	48	62	64	54	65	64	85
2/16/2023	51	53	64	63	45	63	64	64	63	67	65	55	59	75	72	74	65	61	61	66	60	50	67	66	62	75
2/17/2023	36	43	67	65	66	66	66	45	45	67	68	73	78	64	77	74	58	74	56	69	69	69	68	69	64	78
2/18/2023	54	77	75	74	74	56	73	69	75	84	87	91	89	88	85	87	85	79	77	76	78	77	33	72	76	91
2/19/2023	76	77	78	76	76	58	74	73	68	81	89	93	93	94	94	88	92	87	82	69	78	78	76	73	80	94
2/20/2023	68	72	51	72	71	71	72	67	71	74	79	84	82	81	87	87	82	77	72	72	45	71	71	61	73	87
2/21/2023	63	67	69	69	69	70	71	71	24	76	84	70	86	87	88	86	79	56	74	74	75	74	73	72	72	88
2/22/2023	62	70	70	41	58	33	71	71	56	49	72	74	74	66	76	76	66	70	63	69	52	63	52	68	63	76
2/23/2023	55	69	70	60	71	72	73	71	64	64	68	66	66	68	69	72	73	72	58	71	46	69	68	48	66	73
2/24/2023	56	65	68	47	65	70	72	63	71	70	71	74	76	73	74	79	77	75	74	73	74	75	73	76	70	79
2/25/2023	68	74	67	74	72	65	72	70	69	68	62	57	65	75	62	74	72	63	64	73	73	44	56	72	67	75
2/26/2023	62	66	72	48	65	71	70	68	67	68	65	58	76	75	73	76	75	76	75	55	77	76	73	74	69	77
2/27/2023	74	74	73	54	73	73	73	71	71	71	50	62	79	67	80	79	79	75	76	75	76	74	74	75	72	80
2/28/2023	48	74	72	73	73	73	73	61	55	70	72	81	74	85	86	84	84	78	79	76	57	74	73	73	73	86
	Monthly Average																									Monthly Max
	69																									94

EL PASO ELECTRIC  
SRSR HOURLY REQUIREMENT

SOAH Docket No. 473-25-05084  
EUC Docket No. 57149  
VS's 1st, Q. No. VS 1-7  
Attachment 2  
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	HE 1	HE 2	HE 3	HE 4	HE 5	HE 6	HE 7	HE 8	HE 9	HE 10	HE 11	HE 12	HE 13	HE 14	HE 15	HE 16	HE 17	HE 18	HE 19	HE 20	HE 21	HE 22	HE 23	HE 24	Daily Average	Daily Max	
3/1/2023	72	73	73	67	53	72	75	74	77	79	78	78	79	74	79	80	79	75	79	78	78	78	77	75	75	75	80
3/2/2023	74	75	74	76	75	74	79	77	78	81	83	83	85	85	89	92	91	89	50	60	78	75	75	77	78	92	
3/3/2023	76	77	77	76	74	74	76	70	75	44	61	82	84	86	85	85	85	81	79	65	79	78	75	58	75	86	
3/4/2023	74	76	75	71	75	73	69	72	66	75	75	80	84	88	89	91	86	85	80	78	78	78	76	75	78	91	
3/5/2023	71	46	64	59	73	67	71	70	71	64	75	80	85	88	82	85	86	74	78	78	69	56	76	75	73	88	
3/6/2023	76	69	54	75	75	74	72	73	73	79	82	88	88	89	90	90	87	81	81	78	76	75	74	73	78	90	
3/7/2023	70	66	75	66	77	78	80	72	78	79	82	90	94	86	95	95	94	88	86	85	84	83	73	77	81	95	
3/8/2023	61	56	71	71	76	64	76	77	73	62	82	89	93	91	95	94	94	80	84	80	81	81	76	76	78	95	
3/9/2023	71	73	71	71	72	59	71	61	66	72	77	81	84	86	92	90	86	63	76	75	61	72	70	71	74	92	
3/10/2023	65	56	71	72	73	73	72	46	72	73	65	77	81	75	84	85	82	80	78	78	76	76	73	73	73	85	
3/11/2023	72	64	71	71	70	71	70	69	63	73	74	62	79	79	75	79	82	77	77	61	75	44	72	57	70	82	
3/12/2023	57	73	72	50	58	69	68	67	70	77	82	53	76	61	68	86	84	79	57	41	71	53	61	70	67	86	
3/13/2023	69	68	69	62	65	73	71	64	71	72	75	79	86	88	56	88	84	80	75	74	73	71	72	71	73	88	
3/14/2023	70	69	70	70	71	72	72	70	69	69	64	69	72	74	75	75	73	73	73	72	72	70	59	54	70	75	
3/15/2023	68	61	66	68	69	70	68	69	60	70	72	77	75	79	79	85	84	81	73	42	72	70	54	63	70	85	
3/16/2023	69	68	68	68	68	69	71	72	71	77	89	95	97	89	89	90	86	84	78	74	72	79	77	72	78	97	
3/17/2023	65	75	74	64	70	70	53	68	71	78	85	88	89	87	87	86	82	78	75	74	72	70	58	52	74	89	
3/18/2023	67	68	70	58	70	76	70	76	68	93	71	92	91	71	66	86	80	67	73	73	72	71	70	70	74	93	
3/19/2023	72	58	72	72	73	73	73	72	71	70	69	72	70	76	73	74	74	73	72	72	72	71	71	50	71	76	
3/20/2023	71	71	71	71	45	74	74	76	76	79	82	83	87	90	91	87	55	80	74	63	71	72	72	72	74	91	
3/21/2023	69	68	49	69	71	73	73	72	66	71	72	71	78	79	80	86	84	82	79	78	76	78	71	57	73	86	
3/22/2023	63	69	63	77	70	79	80	80	80	84	87	92	95	99	100	98	86	73	76	74	73	70	69	69	79	100	
3/23/2023	70	67	71	72	76	77	76	74	76	82	89	92	91	91	93	87	78	81	71	69	45	67	66	60	76	93	
3/24/2023	69	68	64	67	72	75	75	39	78	88	94	95	88	95	95	95	90	87	78	76	74	73	73	71	78	95	
3/25/2023	67	72	52	74	73	65	73	73	79	88	90	90	93	94	95	64	87	86	78	74	73	73	59	60	76	95	
3/26/2023	71	54	55	71	71	72	68	62	77	86	88	89	90	92	93	91	90	84	74	72	72	74	73	80	77	93	
3/27/2023	56	78	77	77	71	72	71	71	74	86	91	94	94	94	89	94	90	86	70	67	72	70	70	70	78	94	
3/28/2023	72	65	71	71	75	74	71	51	72	83	91	92	91	91	90	89	84	81	75	76	76	74	70	48	76	92	
3/29/2023	49	74	74	75	61	79	72	80	76	94	98	100	98	98	95	94	89	85	81	79	77	74	71	70	81	100	
3/30/2023	73	73	73	73	74	76	74	74	70	86	90	94	90	98	98	100	87	51	87	84	76	75	74	58	80	100	
3/31/2023	76	76	75	75	73	71	75	76	79	93	97	97	97	98	99	99	78	91	80	78	79	76	75	75	83	99	
	Monthly Average																									Monthly Max	
	76																									100	

	HE 1	HE 2	HE 3	HE 4	HE 5	HE 6	HE 7	HE 8	HE 9	HE 10	HE 11	HE 12	HE 13	HE 14	HE 15	HE 16	HE 17	HE 18	HE 19	HE 20	HE 21	HE 22	HE 23	HE 24	Daily Average	Daily Max
4/1/2023	77	32	92	93	90	94	84	91	99	107	106	112	96	96	97	99	98	94	85	84	82	87	96	102	91	112
4/2/2023	96	95	94	92	69	89	89	95	106	111	114	118	120	122	124	122	117	113	100	96	94	93	94	93	102	124
4/3/2023	91	91	92	88	90	91	92	96	99	101	120	124	77	97	99	102	101	98	88	111	110	107	109	93	99	124
4/4/2023	98	84	94	97	98	99	96	94	101	104	108	118	94	94	92	97	95	70	79	71	67	69	82	73	91	118
4/5/2023	81	106	103	107	107	108	106	107	110	111	111	128	94	93	92	90	89	82	81	82	61	72	88	96	96	128
4/6/2023	108	111	109	107	107	95	89	89	96	98	88	108	101	90	91	89	86	84	82	80	82	92	90	85	94	111
4/7/2023	94	85	48	76	87	88	88	86	85	100	91	93	84	84	82	69	74	76	72	72	71	70	65	67	79	100
4/8/2023	70	67	70	71	62	54	78	82	87	91	92	111	84	83	84	86	82	71	72	72	72	37	17	52	73	111
4/9/2023	69	69	70	39	70	67	68	70	77	81	78	83	82	84	82	81	79	77	72	70	69	69	49	68	72	84
4/10/2023	68	68	69	68	69	70	71	73	76	75	78	81	81	80	77	78	73	73	72	71	70	69	68	68	73	81
4/11/2023	70	70	69	71	69	71	58	33	75	76	83	85	70	79	77	77	78	76	70	68	66	65	64	63	70	85
4/12/2023	67	69	70	71	70	71	45	60	70	71	74	76	78	76	79	80	75	78	74	72	70	71	70	69	71	80
4/13/2023	69	70	71	69	72	71	71	72	59	81	82	83	87	87	84	85	85	82	74	72	64	70	68	66	75	87
4/14/2023	67	59	67	68	67	71	72	72	78	82	87	91	93	94	92	87	77	80	73	71	59	70	70	69	76	94
4/15/2023	68	68	68	68	69	69	68	71	77	82	83	84	86	86	84	87	46	66	70	70	69	69	69	51	72	87
4/16/2023	68	68	68	68	68	67	66	70	79	81	84	83	62	81	82	82	61	74	70	69	69	69	68	69	72	84
4/17/2023	69	65	70	70	71	71	71	71	77	82	86	88	89	89	89	86	83	77	72	72	71	69	68	68	76	89
4/18/2023	69	68	70	68	71	74	74	74	79	86	83	85	87	86	85	82	83	80	73	63	29	61	61	60	73	87
4/19/2023	61	62	61	61	52	55	64	66	78	83	85	88	89	92	91	94	90	87	78	19	66	70	65	27	70	94
4/20/2023	69	67	67	68	56	70	70	70	78	83	85	87	89	88	90	90	88	85	77	75	73	72	64	64	76	90
4/21/2023	68	67	68	68	69	62	68	67	72	74	76	77	76	76	77	79	78	76	73	73	72	70	70	70	72	79
4/22/2023	68	66	68	68	67	65	66	71	77	79	81	81	80	81	81	81	80	75	73	72	68	44	67	67	72	81
4/23/2023	67	67	67	65	66	68	68	70	79	80	81	81	78	74	57	73	73	72	51	70	59	52	63	66	69	81
4/24/2023	67	67	67	68	69	70	68	69	72	77	77	76	76	79	82	82	80	77	72	71	70	70	71	68	73	82
4/25/2023	70	70	70	70	71	71	70	73	68	84	85	89	76	90	90	87	82	77	73	72	72	71	69	67	76	90
4/26/2023	65	70	71	71	71	72	71	72	70	81	85	45	76	83	67	83	82	75	72	72	72	70	69	67	72	85
4/27/2023	71	72	71	72	73	74	71	66	76	78	81	82	73	35	82	81	78	72	71	70	67	68	68	69	72	82
4/28/2023	69	66	71	71	63	73	71	72	77	80	81	66	80	78	73	73	70	67	66	67	65	66	66	65	71	81
4/29/2023	66	70	72	72	72	72	73	76	78	76	74	72	68	43	52	69	45	64	67	70	69	55	67	68	67	78
4/30/2023	70	70	71	71	72	76	78	81	86	85	81	78	68	79	25	71	78	59	57	73	74	74	73	56	71	86
	Monthly Average																									Monthly Max
	77																									128

	HE 1	HE 2	HE 3	HE 4	HE 5	HE 6	HE 7	HE 8	HE 9	HE 10	HE 11	HE 12	HE 13	HE 14	HE 15	HE 16	HE 17	HE 18	HE 19	HE 20	HE 21	HE 22	HE 23	HE 24	Daily Average	Daily Max	
5/1/2023	69	69	70	71	76	78	77	77	71	77	82	85	83	54	86	86	87	84	82	81	79	78	79	77	77	87	
5/2/2023	81	73	82	82	83	85	79	65	82	82	86	80	58	92	93	92	87	81	84	82	80	76	75	70	80	93	
5/3/2023	76	76	75	79	80	79	79	82	86	89	90	91	94	93	93	85	87	83	82	83	82	79	77	73	83	94	
5/4/2023	73	81	81	81	81	82	83	85	91	97	75	97	88	100	101	102	99	94	90	86	81	80	79	75	87	102	
5/5/2023	81	80	66	69	81	81	82	87	74	96	99	99	101	102	104	96	35	93	89	84	83	81	81	56	83	104	
5/6/2023	81	81	82	78	82	82	82	88	91	94	94	97	99	98	97	94	92	85	84	80	79	76	76	73	86	99	
5/7/2023	78	67	81	82	82	65	83	88	94	96	97	99	86	99	100	100	99	93	85	79	76	74	74	75	85	100	
5/8/2023	79	68	82	81	79	78	78	81	82	97	97	96	87	96	82	60	92	87	84	82	80	78	76	64	82	97	
5/9/2023	76	76	76	76	79	79	79	82	80	93	94	97	66	70	97	94	86	87	85	82	81	80	81	72	82	97	
5/10/2023	83	87	74	90	90	91	87	82	92	96	99	105	110	113	116	116	111	97	90	85	82	81	81	71	93	116	
5/11/2023	81	86	87	88	87	87	82	85	92	96	97	96	93	95	94	94	89	84	81	80	63	78	78	79	86	97	
5/12/2023	72	76	64	81	80	80	60	56	93	93	95	97	89	97	96	93	88	85	83	81	81	81	75	79	82	97	
5/13/2023	78	81	81	82	84	84	87	85	88	89	90	91	91	90	78	86	82	77	75	78	76	74	75	68	82	91	
5/14/2023	76	43	70	79	72	79	80	84	87	88	87	87	89	88	86	84	81	79	74	76	75	75	74	74	79	89	
5/15/2023	69	52	76	77	79	82	79	80	41	64	83	84	87	83	86	84	69	81	65	77	75	73	73	57	74	87	
5/16/2023	74	75	67	76	78	80	81	59	56	85	89	67	87	83	88	90	88	83	81	80	79	78	76	52	77	90	
5/17/2023	78	61	59	74	81	82	81	87	90	90	91	90	91	88	87	87	87	86	84	81	78	73	77	76	82	91	
5/18/2023	76	77	77	80	80	70	42	84	86	89	86	76	73	20	66	74	64	78	76	76	76	74	74	74	73	89	
5/19/2023	77	63	64	81	70	82	84	89	91	90	92	94	97	98	95	93	87	85	83	82	81	80	80	80	84	98	
5/20/2023	78	86	86	84	87	88	85	89	90	91	88	85	86	85	80	73	80	78	76	74	72	70	73	68	81	91	
5/21/2023	76	78	79	82	85	84	82	93	94	94	93	92	90	91	89	54	61	79	77	75	75	75	75	76	81	94	
5/22/2023	77	75	76	77	78	79	80	83	89	79	94	78	88	85	84	81	82	77	11	76	34	64	59	36	73	94	
5/23/2023	74	74	75	76	70	76	77	80	84	85	85	85	87	88	87	83	81	75	78	76	74	72	71	73	79	88	
5/24/2023	78	80	79	66	81	80	80	80	79	82	86	88	90	89	89	87	85	83	80	79	77	75	74	62	80	90	
5/25/2023	74	74	74	77	68	80	53	70	86	86	92	94	60	94	93	90	81	82	73	66	69	80	80	77	78	94	
5/26/2023	73	79	82	76	80	83	84	89	93	95	98	96	97	98	98	96	89	87	83	83	82	82	63	77	86	98	
5/27/2023	80	79	83	77	66	83	85	93	99	88	67	106	105	101	95	90	87	81	77	76	73	72	66	78	84	106	
5/28/2023	78	70	80	80	81	82	88	93	95	96	97	99	100	100	95	91	85	82	79	76	76	74	73	69	85	100	
5/29/2023	75	74	74	77	79	83	86	90	95	98	101	102	99	97	95	91	83	84	78	77	76	76	76	71	85	102	
5/30/2023	81	85	69	87	88	87	87	89	91	96	94	100	100	97	95	92	73	82	80	78	79	77	77	72	86	100	
5/31/2023	81	69	84	86	86	87	89	98	100	102	104	105	107	108	108	110	106	97	95	87	86	84	89	91	94	110	
																										Monthly Average	Monthly Max
																										82	116



EL PASO ELECTRIC  
SRSR HOURLY REQUIREMENT

SOAH Docket No. 473-25-05084  
FUC Docket No. 57149  
VS's 1st, Q. No. VS 1-7  
Attachment 2  
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	HE 1	HE 2	HE 3	HE 4	HE 5	HE 6	HE 7	HE 8	HE 9	HE 10	HE 11	HE 12	HE 13	HE 14	HE 15	HE 16	HE 17	HE 18	HE 19	HE 20	HE 21	HE 22	HE 23	HE 24	Daily Average	Daily Max
6/1/2023	93	83	95	95	95	99	94	99	104	108	111	110	110	111	108	105	102	97	91	92	90	89	87	83	98	111
6/2/2023	87	88	84	90	36	82	91	95	98	101	106	104	95	99	98	96	95	88	85	61	84	83	82	83	88	106
6/3/2023	84	82	83	82	85	84	66	93	97	98	101	104	102	99	98	79	92	91	86	83	82	83	81	63	87	104
6/4/2023	79	79	79	79	80	82	87	95	98	101	102	99	95	92	89	86	82	88	85	83	80	75	72	70	86	102
6/5/2023	75	66	79	69	70	80	82	85	85	89	90	89	89	90	93	95	96	93	90	86	83	82	80	81	84	96
6/6/2023	84	87	87	88	92	91	94	104	85	104	104	103	105	102	99	98	85	16	75	74	76	78	79	70	87	105
6/7/2023	83	85	90	90	92	92	93	91	98	99	99	99	99	100	100	100	96	93	90	86	85	83	84	84	92	100
6/8/2023	86	87	87	89	91	90	92	95	94	98	98	105	106	104	101	101	94	92	91	88	87	86	84	63	92	106
6/9/2023	86	55	84	87	69	86	92	94	91	97	98	98	96	92	93	89	83	83	83	79	83	82	83	83	86	98
6/10/2023	83	68	84	87	89	89	94	93	94	95	94	91	89	92	92	87	90	90	88	84	74	83	83	83	87	95
6/11/2023	81	86	86	83	87	73	96	99	102	104	106	106	106	106	105	100	94	92	93	92	90	53	85	85	92	106
6/12/2023	85	81	87	86	87	86	89	93	93	94	99	99	96	95	94	85	90	86	88	85	82	81	81	80	88	99
6/13/2023	77	80	79	80	81	81	83	90	95	97	96	97	97	95	94	95	90	88	88	86	82	79	79	74	87	97
6/14/2023	78	77	81	84	83	84	88	76	58	96	98	96	97	96	94	93	94	95	89	87	83	78	78	71	86	98
6/15/2023	61	80	80	81	81	81	84	87	92	97	99	99	100	102	102	102	100	99	95	91	88	84	82	76	89	102
6/16/2023	81	80	81	82	70	83	84	89	90	84	51	94	95	96	94	93	92	93	89	87	85	81	80	80	85	96
6/17/2023	84	64	83	83	84	87	88	93	97	97	98	97	87	94	93	89	91	90	89	87	85	80	81	81	87	98
6/18/2023	81	81	66	83	84	85	87	92	93	93	91	92	92	91	89	92	92	94	93	91	88	83	81	78	87	94
6/19/2023	83	84	85	87	88	92	91	93	96	99	101	103	91	15	72	96	95	95	93	94	92	87	84	84	88	103
6/20/2023	83	85	84	85	64	87	91	93	84	100	95	103	102	101	101	100	97	96	93	94	91	87	82	82	91	103
6/21/2023	85	84	83	83	81	83	86	95	102	104	32	108	105	101	88	93	101	99	97	94	92	86	82	82	89	108
6/22/2023	83	84	86	87	89	88	89	94	97	101	107	110	108	108	107	108	107	103	104	100	98	92	88	88	97	110
6/23/2023	89	88	87	89	89	91	94	101	103	105	111	112	111	110	109	108	109	103	101	98	96	90	89	88	99	112
6/24/2023	87	87	87	89	92	95	102	108	109	111	108	110	112	112	107	103	103	103	101	99	94	89	86	87	99	112
6/25/2023	87	85	85	86	86	87	93	99	100	99	98	100	99	97	102	106	107	107	105	96	96	91	85	79	95	107
6/26/2023	81	52	80	84	85	87	89	93	96	100	104	104	103	111	115	114	114	114	110	106	103	98	93	89	97	115
6/27/2023	89	88	88	68	92	90	92	97	103	106	109	108	110	112	112	113	113	112	109	105	100	96	90	85	99	113
6/28/2023	61	20	83	84	80	85	85	92	96	97	101	89	100	103	106	107	110	108	106	90	95	97	92	83	90	110
6/29/2023	86	86	87	88	90	91	93	97	100	101	101	101	100	106	109	48	99	110	106	102	101	96	91	80	95	110
6/30/2023	92	93	68	92	93	94	94	94	93	91	92	90	93	98	77	105	106	105	104	99	95	89	86	82	93	106
	Monthly Average																								91	Monthly Max
																										115

EL PASO ELECTRIC  
SRSR HOURLY REQUIREMENT

SOAH Docket No. 473-25-05084  
FUC Docket No. 57149  
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	HE 1	HE 2	HE 3	HE 4	HE 5	HE 6	HE 7	HE 8	HE 9	HE 10	HE 11	HE 12	HE 13	HE 14	HE 15	HE 16	HE 17	HE 18	HE 19	HE 20	HE 21	HE 22	HE 23	HE 24	Daily Average	Daily Max	
7/1/2023	79	74	72	74	74	74	82	90	94	94	94	91	91	97	102	107	109	55	66	97	92	88	85	62	85	109	
7/2/2023	78	76	80	83	81	82	85	91	92	91	90	88	93	95	98	99	79	92	86	84	83	80	76	67	85	99	
7/3/2023	70	72	60	73	73	74	81	85	84	83	83	90	96	74	72	107	106	101	89	74	69	84	80	65	81	107	
7/4/2023	73	74	74	76	77	78	81	83	84	84	86	88	90	93	98	99	101	102	99	96	79	88	84	80	86	102	
7/5/2023	80	82	79	78	78	76	81	88	87	88	89	96	101	106	112	112	113	112	108	104	100	93	89	83	93	113	
7/6/2023	77	81	80	83	84	85	90	94	90	95	94	32	98	110	112	114	114	112	110	104	103	99	95	88	93	114	
7/7/2023	85	87	89	89	64	90	92	94	96	96	98	101	107	111	114	115	115	114	112	107	103	98	93	89	98	115	
7/8/2023	85	84	74	88	68	87	94	95	97	98	100	100	85	53	106	109	110	110	105	102	98	95	93	75	92	110	
7/9/2023	68	81	84	83	84	84	87	90	72	93	94	95	98	101	105	108	110	111	108	105	101	98	92	80	93	111	
7/10/2023	82	82	83	82	83	85	87	88	82	94	78	106	110	113	86	76	118	116	111	92	30	94	88	80	89	118	
7/11/2023	79	79	80	79	80	80	82	85	87	91	95	93	106	109	113	93	116	115	112	107	102	96	91	87	94	116	
7/12/2023	81	79	58	80	65	78	81	85	86	88	94	98	102	106	110	113	114	113	110	106	102	98	93	89	93	114	
7/13/2023	84	78	69	80	79	81	82	78	36	86	95	103	106	112	115	118	119	118	98	55	101	96	92	79	90	119	
7/14/2023	82	81	82	82	71	59	87	87	87	91	96	104	109	107	116	119	118	115	110	106	102	98	95	89	95	119	
7/15/2023	85	79	77	82	82	82	83	84	85	88	94	98	99	101	104	109	109	105	103	98	96	90	88	84	92	109	
7/16/2023	79	75	76	77	76	77	82	84	83	84	92	98	102	106	109	112	113	113	110	105	103	74	83	85	92	113	
7/17/2023	82	71	78	78	54	79	82	85	86	96	104	109	112	117	120	121	121	120	113	109	105	99	94	80	96	121	
7/18/2023	83	79	78	77	77	78	79	81	84	91	98	107	112	119	121	122	123	122	117	110	105	98	78	85	97	123	
7/19/2023	81	77	76	78	79	79	81	83	85	92	99	105	113	118	122	123	124	120	116	111	108	103	83	91	98	124	
7/20/2023	81	82	70	80	81	84	86	89	89	95	101	109	110	116	112	118	117	115	109	105	104	97	93	89	97	118	
7/21/2023	85	83	83	85	88	84	84	83	87	91	99	104	109	113	117	119	119	100	110	105	101	96	92	87	97	119	
7/22/2023	84	81	81	81	81	82	84	85	85	86	91	95	98	100	104	105	108	107	104	99	96	91	87	66	91	108	
7/23/2023	76	74	64	75	67	75	78	79	77	75	78	85	88	92	96	100	101	101	98	95	93	86	80	65	83	101	
7/24/2023	70	69	70	71	71	72	75	78	82	86	94	102	107	109	112	113	113	112	109	104	101	95	72	82	90	113	
7/25/2023	81	79	78	78	79	49	83	84	85	90	96	101	108	113	113	118	117	116	112	107	104	95	93	89	94	118	
7/26/2023	82	79	76	66	77	78	82	83	79	91	98	103	99	71	118	113	101	82	83	109	105	99	93	80	89	118	
7/27/2023	81	80	82	81	69	82	86	87	87	39	86	102	109	112	115	117	117	114	110	105	102	94	89	85	93	117	
7/28/2023	81	78	79	80	82	81	82	87	90	92	96	101	106	110	114	115	115	112	109	104	101	97	92	88	95	115	
7/29/2023	84	79	77	78	75	78	81	84	85	86	90	94	97	101	80	63	107	106	101	98	94	89	85	81	87	107	
7/30/2023	78	68	74	74	65	73	75	78	80	83	87	90	59	93	100	103	104	104	101	59	96	91	86	79	83	104	
7/31/2023	78	77	77	79	65	81	80	80	82	82	86	84	94	97	101	105	105	104	33	93	93	88	85	80	85	105	
																										Monthly Average	Monthly Max
																										91	124

	HE 1	HE 2	HE 3	HE 4	HE 5	HE 6	HE 7	HE 8	HE 9	HE 10	HE 11	HE 12	HE 13	HE 14	HE 15	HE 16	HE 17	HE 18	HE 19	HE 20	HE 21	HE 22	HE 23	HE 24	Daily Average	Daily Max
8/1/2023	81	58	83	83	83	82	81	79	77	79	84	87	89	96	76	102	105	103	101	96	83	87	82	74	85	105
8/2/2023	71	76	73	72	65	78	78	79	62	83	89	97	100	104	108	106	103	96	93	90	88	83	80	71	85	108
8/3/2023	75	76	58	77	73	79	77	79	79	80	86	91	99	103	107	101	110	110	93	101	98	91	84	73	87	110
8/4/2023	79	70	62	80	82	45	82	90	92	90	94	99	111	108	115	137	131	115	110	106	102	95	91	74	94	137
8/5/2023	80	78	79	80	80	82	71	89	93	92	95	101	100	110	90	115	117	116	113	108	103	98	94	86	94	117
8/6/2023	82	76	81	80	76	72	84	86	90	93	96	101	104	112	116	118	119	118	115	110	106	101	97	92	97	119
8/7/2023	85	81	78	79	76	78	77	80	84	92	100	103	112	116	118	121	101	116	110	81	101	94	89	78	94	121
8/8/2023	78	75	77	78	79	80	80	82	84	86	90	94	93	95	88	61	109	107	102	96	93	89	81	73	86	109
8/9/2023	75	60	75	75	77	76	78	80	81	84	90	96	105	108	111	113	114	112	107	104	98	91	86	61	90	114
8/10/2023	78	78	78	78	79	81	81	82	84	85	94	97	101	97	109	113	82	95	85	81	89	90	85	80	88	113
8/11/2023	76	77	77	78	77	79	79	66	84	83	89	81	94	100	103	105	105	102	98	94	91	85	81	77	87	105
8/12/2023	74	75	73	73	74	76	76	77	80	81	81	84	86	93	97	101	104	103	99	74	92	86	82	75	84	104
8/13/2023	74	74	76	78	78	79	80	79	79	79	80	84	89	96	102	104	105	105	101	98	93	88	80	75	86	105
8/14/2023	73	68	75	75	76	77	77	78	81	75	83	87	92	96	100	101	87	86	74	89	84	34	74	70	80	101
8/15/2023	68	68	51	68	69	69	71	74	77	73	78	87	92	97	102	103	104	103	99	95	92	87	81	77	83	104
8/16/2023	73	72	73	73	74	76	78	80	56	83	88	71	99	104	108	109	105	109	105	101	97	89	87	81	87	109
8/17/2023	78	78	78	79	80	79	79	79	78	84	92	99	89	109	112	114	115	113	108	104	99	94	74	81	91	115
8/18/2023	76	76	76	76	77	78	79	82	77	88	91	94	101	103	106	109	109	107	102	100	93	85	69	76	89	109
8/19/2023	74	68	75	78	78	77	79	81	83	84	86	89	90	96	97	53	75	100	96	94	91	88	85	76	83	100
8/20/2023	85	86	83	84	84	85	86	88	88	91	92	92	95	99	101	102	103	102	98	95	90	84	83	82	91	103
8/21/2023	80	81	81	82	83	82	82	84	66	89	94	96	98	98	102	104	104	96	97	95	88	87	86	83	89	104
8/22/2023	83	83	84	84	84	77	84	88	92	93	96	96	98	101	105	105	105	102	99	95	91	85	79	77	91	105
8/23/2023	75	77	77	76	68	79	79	80	80	78	77	74	76	80	82	83	83	81	81	80	78	74	69	69	77	83
8/24/2023	70	73	74	74	74	74	74	75	78	79	79	81	87	93	97	102	94	71	100	96	91	85	82	75	82	102
8/25/2023	54	59	55	76	77	52	79	76	83	84	84	87	96	102	88	105	104	101	96	94	90	85	81	77	83	105
8/26/2023	75	75	50	75	60	76	78	81	81	81	83	85	91	95	101	89	105	104	99	94	89	84	81	74	84	105
8/27/2023	72	67	72	72	74	75	77	79	80	80	82	85	92	98	98	109	109	106	100	98	94	90	84	75	86	109
8/28/2023	71	46	43	75	75	74	77	78	79	83	92	96	102	105	108	110	109	103	99	96	93	87	82	77	86	110
8/29/2023	75	74	77	78	65	65	76	77	47	78	83	88	85	98	100	69	101	100	97	95	92	85	81	75	82	101
8/30/2023	66	70	73	71	72	73	72	77	81	83	85	90	96	99	102	104	106	105	100	97	91	83	78	70	85	106
8/31/2023	70	70	68	69	69	71	72	75	76	76	81	87	93	100	107	109	109	106	100	67	92	84	76	75	83	109
																									Monthly Average	Monthly Max
																									87	137

EL PASO ELECTRIC  
SRSR HOURLY REQUIREMENT

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EUC Docket No. 57149  
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	HE 1	HE 2	HE 3	HE 4	HE 5	HE 6	HE 7	HE 8	HE 9	HE 10	HE 11	HE 12	HE 13	HE 14	HE 15	HE 16	HE 17	HE 18	HE 19	HE 20	HE 21	HE 22	HE 23	HE 24	Daily Average	Daily Max	
9/1/2023	70	55	59	69	68	71	71	74	77	78	84	86	91	95	98	99	100	96	91	87	83	78	77	77	81	100	
9/2/2023	79	71	77	76	77	42	75	80	81	79	82	63	87	92	99	102	102	99	93	89	84	80	79	78	82	102	
9/3/2023	78	75	77	77	76	76	80	83	84	85	86	87	87	88	94	99	93	97	94	91	85	81	81	79	85	99	
9/4/2023	79	78	78	79	79	78	81	85	88	91	78	96	94	94	96	99	102	101	98	95	87	82	80	79	87	102	
9/5/2023	80	73	79	80	80	81	83	84	90	93	97	99	98	99	103	107	106	103	99	95	87	83	80	80	90	107	
9/6/2023	77	71	74	75	76	76	78	71	85	86	95	96	97	102	108	111	109	88	103	99	91	86	80	80	88	111	
9/7/2023	81	79	80	78	79	80	82	86	94	98	102	80	99	104	110	113	114	111	106	101	96	92	86	71	92	114	
9/8/2023	83	67	76	77	77	80	82	77	86	90	91	92	99	97	110	110	109	108	102	97	91	87	84	79	90	110	
9/9/2023	74	72	72	73	72	75	77	79	82	78	85	92	97	103	109	110	109	104	98	93	89	86	82	69	87	110	
9/10/2023	75	76	78	77	76	73	75	77	78	79	83	89	95	101	106	109	108	104	101	97	92	88	83	79	87	109	
9/11/2023	79	77	78	79	80	81	82	81	85	87	90	93	97	102	107	104	53	104	100	96	91	85	80	77	87	107	
9/12/2023	77	78	76	77	78	78	79	77	79	80	63	80	80	84	88	88	86	81	81	79	76	73	71	70	78	88	
9/13/2023	72	72	73	68	75	76	76	77	72	84	86	85	85	85	88	88	88	85	83	81	80	76	76	72	79	88	
9/14/2023	73	74	74	75	77	79	81	84	85	86	92	89	90	91	91	96	97	95	91	88	84	79	77	76	84	97	
9/15/2023	76	77	80	63	75	81	81	82	85	84	84	85	90	93	96	99	98	96	91	87	83	80	77	77	84	99	
9/16/2023	78	78	79	80	79	78	79	84	89	91	88	87	87	87	89	90	90	87	84	82	70	12	68	76	80	91	
9/17/2023	78	76	76	77	77	79	81	86	92	90	90	88	89	87	88	90	90	89	87	84	81	76	75	56	83	92	
9/18/2023	74	75	45	74	75	76	77	81	85	90	92	89	93	92	91	95	95	92	89	87	82	81	78	76	83	95	
9/19/2023	80	81	80	81	82	83	86	87	88	92	94	95	94	92	95	93	95	97	92	86	82	80	78	77	87	97	
9/20/2023	77	77	79	81	80	81	81	83	86	92	84	97	101	102	101	98	93	93	89	84	82	82	78	77	87	102	
9/21/2023	79	80	81	81	86	89	86	87	92	95	94	93	95	97	94	89	86	89	87	86	83	80	79	79	87	97	
9/22/2023	75	73	75	77	78	78	80	84	90	88	95	95	95	94	97	100	99	95	91	87	85	84	82	81	86	100	
9/23/2023	81	79	79	79	78	78	79	75	87	92	96	100	100	101	99	98	95	92	89	85	80	79	79	79	87	101	
9/24/2023	50	78	45	78	78	78	82	89	94	94	95	95	96	95	92	91	91	92	87	85	81	78	76	75	83	96	
9/25/2023	77	78	76	76	78	78	78	82	89	93	93	93	91	95	99	102	102	99	94	90	85	82	82	81	87	102	
9/26/2023	84	85	86	88	89	87	87	91	97	101	103	105	102	100	102	102	93	86	85	83	80	75	76	76	90	105	
9/27/2023	79	78	72	81	82	82	84	87	91	93	89	91	90	92	96	100	100	96	93	88	83	79	79	81	87	100	
9/28/2023	81	72	62	79	69	81	81	85	90	92	92	88	94	40	97	98	97	95	91	89	85	79	79	80	83	98	
9/29/2023	78	79	79	79	81	82	82	86	90	94	96	97	99	100	96	95	95	94	91	87	82	79	81	83	88	100	
9/30/2023	84	75	82	82	82	83	84	88	87	90	94	92	92	94	96	94	89	86	81	78	74	75	75	70	84	96	
																										Monthly Average	Monthly Max
																										85	114

EL PASO ELECTRIC  
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	HE 1	HE 2	HE 3	HE 4	HE 5	HE 6	HE 7	HE 8	HE 9	HE 10	HE 11	HE 12	HE 13	HE 14	HE 15	HE 16	HE 17	HE 18	HE 19	HE 20	HE 21	HE 22	HE 23	HE 24	Daily Average	Daily Max
10/1/2023	72	68	69	69	70	70	71	78	88	72	78	93	93	93	92	92	86	82	78	77	49	76	76	76	78	93
10/2/2023	77	78	79	79	79	79	81	82	88	93	96	99	100	103	103	97	89	82	80	79	80	80	83	75	86	103
10/3/2023	81	69	79	79	79	83	80	82	86	90	83	98	77	77	97	92	86	80	80	62	48	77	78	77	80	98
10/4/2023	76	60	76	76	76	80	79	83	89	90	89	91	93	95	94	87	84	80	73	76	76	74	71	72	81	95
10/5/2023	72	75	76	74	74	75	76	79	83	84	84	85	85	70	76	76	85	81	77	73	71	70	71	71	77	85
10/6/2023	70	69	62	61	71	72	73	75	77	76	76	72	75	79	81	82	81	77	70	70	69	67	65	64	72	82
10/7/2023	64	56	63	63	63	64	65	68	69	39	59	67	68	69	72	74	73	70	69	66	66	64	62	61	65	74
10/8/2023	61	62	62	62	62	63	58	68	70	69	69	69	69	69	70	73	75	72	69	66	65	63	61	61	66	75
10/9/2023	63	44	66	66	67	69	68	55	70	69	68	29	75	76	77	79	79	76	75	72	70	70	69	65	67	79
10/10/2023	69	69	69	66	68	70	71	69	70	71	73	75	79	77	68	69	18	73	71	70	71	69	67	67	68	79
10/11/2023	68	68	67	69	68	70	71	74	78	82	83	85	86	85	83	83	78	74	72	71	61	70	69	70	74	86
10/12/2023	70	70	69	69	71	72	71	73	67	79	86	91	90	91	90	87	82	76	76	47	75	74	73	38	74	91
10/13/2023	70	71	71	63	66	73	75	75	61	36	79	80	80	82	80	79	78	76	75	75	73	72	63	71	72	82
10/14/2023	71	72	73	73	72	71	72	72	71	73	74	71	74	73	73	79	77	72	72	71	71	70	70	70	72	79
10/15/2023	72	72	72	72	72	73	74	74	75	75	76	76	75	76	74	75	72	71	72	73	74	73	68	68	73	76
10/16/2023	66	66	68	68	69	71	71	76	76	73	78	76	75	74	73	73	79	90	91	93	94	92	90	87	78	94
10/17/2023	91	91	93	94	96	96	97	97	100	103	101	103	101	77	41	100	101	112	111	112	116	114	112	104	98	116
10/18/2023	78	60	101	110	111	113	103	80	81	83	84	84	86	83	83	93	118	116	115	114	109	109	110	105	97	118
10/19/2023	101	102	102	103	105	106	105	104	104	84	85	87	88	92	108	108	108	105	105	108	111	59	97	96	99	111
10/20/2023	98	53	94	87	89	91	90	88	79	99	98	100	105	103	104	104	98	98	99	102	91	100	99	94	94	105
10/21/2023	81	108	109	108	109	110	101	82	91	88	78	85	100	99	98	95	100	105	106	106	107	108	106	108	99	110
10/22/2023	106	106	108	109	109	109	108	103	85	87	86	86	88	87	85	96	106	109	108	106	106	109	108	95	100	109
10/23/2023	78	90	108	109	110	112	110	109	113	118	116	111	89	90	90	100	113	116	112	110	106	105	104	98	105	118
10/24/2023	78	71	79	80	82	100	99	98	100	101	82	83	87	85	84	82	95	90	91	91	91	89	87	86	88	101
10/25/2023	89	89	89	90	91	93	91	90	80	83	82	84	84	83	95	110	109	101	102	87	101	95	39	65	88	110
10/26/2023	71	71	72	72	72	75	75	78	79	82	83	85	88	79	89	91	86	81	80	79	80	77	75	62	78	91
10/27/2023	77	75	75	77	78	80	80	80	82	84	86	85	86	86	86	89	86	79	74	78	78	76	77	75	80	89
10/28/2023	77	77	76	77	77	79	80	65	84	85	62	64	88	85	86	84	76	80	79	79	79	78	66	49	76	88
10/29/2023	52	75	75	75	77	76	57	80	83	89	92	93	80	95	94	89	82	82	78	78	77	74	73	72	79	95
10/30/2023	74	75	45	32	71	66	73	74	76	82	84	84	84	84	81	80	76	75	76	77	75	75	77	75	74	84
10/31/2023	76	74	77	77	79	81	80	78	80	84	89	90	90	88	69	82	75	73	72	73	73	72	47	70	77	90
	Monthly Average																									Monthly Max
	81																									118

	HE 1	HE 2	HE 3	HE 4	HE 5	HE 6	HE 7	HE 8	HE 9	HE 10	HE 11	HE 12	HE 13	HE 14	HE 15	HE 16	HE 17	HE 18	HE 19	HE 20	HE 21	HE 22	HE 23	HE 24	Daily Average	Daily Max
11/1/2023	60	73	75	77	78	81	80	81	80	83	85	88	88	86	84	81	77	77	77	76	74	72	73	72	78	88
11/2/2023	72	72	50	71	78	79	68	78	81	82	86	84	83	81	81	80	77	75	74	74	73	71	71	54	75	86
11/3/2023	78	61	62	78	78	80	82	79	79	81	79	81	81	81	80	79	77	76	77	75	75	72	71	72	76	82
11/4/2023	65	47	76	77	78	80	78	78	79	82	83	72	85	84	83	78	77	77	77	75	76	74	73	73	76	85
11/5/2023	36	79	77	77	79	79	78	81	85	88	86	84	82	81	80	78	76	74	75	75	74	73	72	71	77	88
11/6/2023	72	71	63	67	71	75	77	78	80	88	90	90	71	88	86	87	85	83	84	83	81	80	78	79	79	90
11/7/2023	75	79	73	74	81	82	65	81	83	83	84	87	88	91	88	90	90	81	84	85	84	83	82	83	82	91
11/8/2023	83	82	81	81	82	80	82	85	88	89	96	101	103	103	100	99	95	87	83	82	81	81	82	82	88	103
11/9/2023	82	81	80	80	79	79	78	80	85	89	97	97	96	94	93	88	84	80	80	80	80	79	78	79	84	97
11/10/2023	79	77	78	78	78	79	79	80	72	66	92	94	97	95	90	88	83	79	77	77	76	79	78	74	81	97
11/11/2023	74	42	73	71	74	73	73	73	77	79	79	81	80	80	79	77	79	74	74	74	75	79	80	73	75	81
11/12/2023	72	72	74	73	73	72	72	70	71	74	77	77	77	77	77	77	74	71	71	72	72	75	72	72	74	77
11/13/2023	71	69	70	70	71	71	72	72	72	73	75	77	78	77	76	73	73	76	72	78	77	75	74	72	74	78
11/14/2023	76	72	71	72	72	72	72	71	74	81	83	83	83	68	80	78	72	70	70	72	72	73	71	72	74	83
11/15/2023	76	77	77	77	78	77	79	73	11	74	78	78	74	76	76	79	80	81	80	79	78	77	75	75	74	81
11/16/2023	78	49	75	75	78	80	80	81	80	80	83	83	83	80	80	81	78	79	79	79	77	77	74	75	78	83
11/17/2023	76	74	74	74	74	76	79	81	81	81	82	83	83	83	84	83	81	80	80	81	81	79	78	76	79	84
11/18/2023	77	75	67	78	78	76	75	77	79	81	84	84	83	85	89	88	83	82	82	82	81	79	77	75	80	89
11/19/2023	77	77	77	77	78	78	74	79	67	60	88	88	89	89	89	88	86	83	82	82	81	81	80	80	80	89
11/20/2023	78	77	76	75	76	77	75	75	76	85	89	89	89	88	88	88	85	82	81	81	80	80	77	77	81	89
11/21/2023	75	75	75	75	75	75	77	78	78	87	88	92	92	92	90	87	82	82	82	81	81	80	80	80	82	92
11/22/2023	67	79	79	79	80	80	81	54	80	87	88	86	88	88	88	85	72	81	81	80	80	77	78	77	80	88
11/23/2023	78	75	73	75	73	76	77	77	78	79	80	85	86	88	90	90	88	82	77	77	75	75	77	76	79	90
11/24/2023	77	76	74	74	77	76	77	77	78	85	67	89	89	88	86	88	84	80	80	80	80	79	79	79	80	89
11/25/2023	79	55	78	79	80	79	80	80	82	91	94	95	95	95	96	93	89	83	82	82	83	83	83	83	84	96
11/26/2023	84	81	81	82	81	81	80	80	81	85	90	94	96	95	92	89	85	84	83	85	84	83	82	81	85	96
11/27/2023	82	77	80	80	80	82	82	81	82	87	93	95	94	93	95	94	89	85	84	86	85	84	83	83	86	95
11/28/2023	84	82	83	78	83	84	77	78	66	86	92	91	93	94	92	91	85	85	84	86	68	56	82	82	82	94
11/29/2023	84	82	82	83	83	83	82	83	85	65	85	85	82	84	87	89	86	85	85	85	84	82	80	80	83	89
11/30/2023	82	67	82	82	78	83	84	82	81	82	83	84	85	85	83	58	84	85	86	85	84	83	82	82	81	86
																									Monthly Average	Monthly Max
																									80	103

	HE 1	HE 2	HE 3	HE 4	HE 5	HE 6	HE 7	HE 8	HE 9	HE 10	HE 11	HE 12	HE 13	HE 14	HE 15	HE 16	HE 17	HE 18	HE 19	HE 20	HE 21	HE 22	HE 23	HE 24	Daily Average	Daily Max	
12/1/2023	85	82	74	70	82	83	86	85	84	87	91	93	92	91	92	93	91	52	86	83	83	82	81	81	84	93	
12/2/2023	81	80	80	79	79	78	79	79	80	88	92	94	94	94	94	92	93	84	82	81	82	81	59	80	83	94	
12/3/2023	50	79	74	79	78	78	79	80	71	87	93	95	98	96	95	92	84	82	83	83	85	85	83	83	83	98	
12/4/2023	83	83	82	81	84	83	84	81	81	73	91	95	94	93	94	94	91	87	55	67	83	83	80	79	83	95	
12/5/2023	84	82	68	81	72	83	84	81	66	90	96	98	103	99	104	102	92	89	58	84	83	82	81	83	85	104	
12/6/2023	84	81	82	82	83	82	86	83	83	91	98	99	98	98	96	95	87	82	82	76	82	84	85	63	86	99	
12/7/2023	85	78	79	79	81	77	82	80	62	89	98	101	104	105	107	98	96	65	77	82	81	82	63	79	85	107	
12/8/2023	82	81	64	30	79	80	80	80	82	85	88	92	96	95	94	92	86	83	82	65	80	78	65	81	80	96	
12/9/2023	80	74	79	78	78	77	79	77	79	85	93	95	95	96	94	92	84	70	41	81	80	78	77	76	81	96	
12/10/2023	74	73	51	73	73	72	68	68	69	73	80	84	84	84	68	75	71	70	72	72	73	71	71	72	72	84	
12/11/2023	78	76	47	74	76	77	77	77	77	78	72	75	69	78	78	79	80	64	79	79	79	78	76	77	75	80	
12/12/2023	78	74	73	73	76	79	79	80	80	80	76	64	77	90	92	91	89	83	82	79	79	79	78	77	79	92	
12/13/2023	78	77	77	78	79	77	74	75	78	83	93	96	98	99	101	98	91	82	82	81	78	77	74	74	83	101	
12/14/2023	75	70	71	67	72	72	73	78	76	76	78	77	79	84	86	85	81	79	71	78	79	77	72	74	76	86	
12/15/2023	79	66	79	82	81	80	82	84	85	88	89	90	93	94	92	91	92	88	84	86	89	89	88	84	86	94	
12/16/2023	86	85	86	87	83	86	80	80	81	84	88	71	92	94	94	88	81	78	77	78	78	78	77	75	83	94	
12/17/2023	76	69	82	78	75	73	72	73	75	74	78	81	85	90	89	87	84	82	82	37	78	79	79	75	77	90	
12/18/2023	64	77	77	78	76	77	77	81	83	83	84	85	83	85	84	87	85	72	84	83	83	83	81	79	80	87	
12/19/2023	81	63	70	79	80	81	81	76	75	79	74	79	80	81	82	79	84	71	83	80	80	80	80	72	78	84	
12/20/2023	83	76	80	80	80	80	80	79	82	77	81	91	88	86	84	88	91	90	89	87	88	89	89	89	84	91	
12/21/2023	92	83	70	83	39	82	82	79	78	81	83	89	91	91	90	90	67	89	88	88	89	89	83	81	82	92	
12/22/2023	79	86	65	86	85	88	91	89	87	81	85	84	82	83	81	57	81	81	81	81	82	81	81	62	81	91	
12/23/2023	82	62	83	83	77	71	66	74	74	77	78	75	75	77	78	81	78	75	74	74	77	77	74	77	76	83	
12/24/2023	80	79	78	77	77	65	78	78	76	77	82	82	78	76	88	91	84	78	77	77	77	76	75	75	78	91	
12/25/2023	67	78	80	80	79	79	77	76	77	81	88	92	90	92	91	90	89	80	80	82	67	81	80	80	81	92	
12/26/2023	78	76	79	66	75	79	78	77	79	82	85	86	88	92	92	90	86	84	85	85	82	80	81	80	82	92	
12/27/2023	80	80	81	77	81	64	79	79	81	76	86	88	89	90	93	92	83	83	82	80	83	82	83	83	82	93	
12/28/2023	83	60	83	54	78	80	79	79	67	81	82	69	88	92	91	89	88	87	83	83	83	82	81	80	80	92	
12/29/2023	80	77	68	73	65	75	76	75	74	76	79	80	82	61	83	80	78	80	79	80	80	79	77	67	76	83	
12/30/2023	80	77	82	74	82	82	82	80	79	81	82	83	85	89	90	90	82	79	77	78	79	78	59	78	80	90	
12/31/2023	78	77	78	67	78	77	76	72	71	74	80	82	81	81	78	78	78	70	74	74	74	74	73	69	76	82	
																										Monthly Average	Monthly Max
																										81	107

EL PASO ELECTRIC COMPANY  
SRSR HOURLY REQUIREMENT

SOAH Docket No. 473-25-05084  
FUC Docket No. 57149  
VS's 1st, Q. No. VS 1-7  
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	HE 1	HE 2	HE 3	HE 4	HE 5	HE 6	HE 7	HE 8	HE 9	HE 10	HE 11	HE 12	HE 13	HE 14	HE 15	HE 16	HE 17	HE 18	HE 19	HE 20	HE 21	HE 22	HE 23	HE 24	Daily Average	Daily Max
1/1/2024	69	67	72	72	53	72	71	69	68	68	69	70	74	74	75	65	78	73	72	73	72	72	70	70	70	78
1/2/2024	73	71	63	43	64	67	68	67	63	67	67	84	82	87	83	81	64	70	75	69	73	74	74	71	71	87
1/3/2024	67	49	64	66	65	69	61	68	73	75	57	44	78	79	79	63	74	75	75	74	75	75	75	62	68	79
1/4/2024	63	50	61	56	76	76	75	67	76	77	80	82	83	87	88	89	85	63	39	82	82	82	81	80	74	89
1/5/2024	79	71	70	71	70	73	74	74	78	79	78	79	80	80	81	82	84	79	77	76	76	76	73	73	76	84
1/6/2024	62	73	72	64	71	71	71	72	73	78	82	79	69	93	91	85	79	78	76	76	75	76	75	75	76	93
1/7/2024	67	75	75	75	75	75	74	74	74	74	77	80	81	82	81	79	77	24	64	70	70	69	69	69	72	82
1/8/2024	49	60	69	68	67	66	65	66	65	71	78	81	81	84	60	68	53	77	72	74	70	63	47	75	68	84
1/9/2024	76	56	70	70	69	68	71	69	70	73	78	86	84	93	92	92	88	77	78	75	78	76	74	73	76	93
1/10/2024	73	69	70	68	67	65	67	70	57	83	88	79	93	90	95	93	86	35	70	73	70	69	68	66	73	95
1/11/2024	67	67	63	66	66	59	62	69	73	76	78	82	84	83	82	83	87	80	77	73	71	72	73	73	74	87
1/12/2024	76	71	71	70	69	68	66	67	72	79	83	86	91	91	89	89	82	74	72	72	71	71	69	67	75	91
1/13/2024	67	66	49	64	65	63	64	65	68	75	80	80	81	80	82	83	81	76	71	69	69	69	64	71	83	
1/14/2024	69	69	48	67	68	68	67	66	67	72	75	77	79	80	81	80	78	73	72	71	70	70	71	71	71	81
1/15/2024	73	73	72	70	69	57	51	68	67	73	80	82	82	82	81	82	80	74	72	66	73	73	71	70	72	82
1/16/2024	64	68	73	74	73	72	72	71	73	78	83	85	81	83	82	82	80	38	64	74	76	73	78	79	74	85
1/17/2024	79	75	75	74	72	71	71	71	71	71	61	76	78	79	81	80	78	23	71	70	70	70	71	70	71	81
1/18/2024	43	68	52	67	67	66	66	66	65	69	73	77	81	82	76	60	79	69	73	71	71	66	69	68	69	82
1/19/2024	67	66	65	66	66	66	65	67	70	67	35	74	78	78	76	40	70	70	69	69	71	66	71	71	67	78
1/20/2024	68	72	72	73	73	72	71	71	72	57	71	71	73	73	64	72	73	75	74	71	41	74	73	72	70	75
1/21/2024	74	53	40	69	72	72	72	71	71	70	70	71	72	74	74	75	73	71	70	71	71	71	72	73	70	75
1/22/2024	76	75	75	74	74	73	71	70	70	73	71	71	70	70	71	71	71	70	70	71	71	71	71	42	70	76
1/23/2024	74	76	76	78	78	75	74	55	37	75	76	77	76	78	78	80	77	74	74	74	73	73	73	74	73	80
1/24/2024	76	72	71	73	72	70	72	70	71	75	77	77	78	79	80	82	80	77	57	52	75	78	78	78	74	82
1/25/2024	80	78	78	70	77	75	75	77	75	28	74	78	81	84	84	83	81	79	75	75	76	76	76	77	75	84
1/26/2024	78	70	73	72	71	73	71	71	71	76	79	84	66	79	72	81	79	76	73	71	73	72	73	73	74	84
1/27/2024	74	72	72	73	73	72	71	71	75	75	79	82	83	83	83	79	76	75	73	55	72	72	73	72	74	83
1/28/2024	73	71	73	74	74	74	72	72	75	78	78	53	79	79	79	77	78	74	72	72	72	73	74	68	74	79
1/29/2024	73	74	74	74	74	72	73	73	75	79	84	84	86	85	83	84	79	72	70	67	71	71	45	71	75	86
1/30/2024	72	71	67	68	71	67	70	69	70	73	74	83	82	85	83	73	73	74	72	58	69	68	66	66	72	85
1/31/2024	67	65	66	67	71	60	65	66	67	73	76	78	80	79	79	80	77	70	70	69	70	71	72	45	70	80
Monthly Average																									Monthly Max	
72																									95	



EL PASO ELECTRIC COMPANY  
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	HE 1	HE 2	HE 3	HE 4	HE 5	HE 6	HE 7	HE 8	HE 9	HE 10	HE 11	HE 12	HE 13	HE 14	HE 15	HE 16	HE 17	HE 18	HE 19	HE 20	HE 21	HE 22	HE 23	HE 24	Daily Average	Daily Max
2/1/2024	67	61	64	60	62	62	67	70	69	72	45	70	43	70	70	69	71	68	72	71	62	71	70	69	66	72
2/2/2024	64	65	65	67	50	67	70	69	69	70	74	77	79	78	80	79	77	74	73	72	72	72	52	72	70	80
2/3/2024	52	69	69	70	67	71	71	71	72	74	79	81	82	82	81	80	80	76	73	73	73	73	72	71	73	82
2/4/2024	63	71	71	71	71	72	70	69	70	70	70	72	74	76	80	80	77	72	72	72	73	72	73	72	72	80
2/5/2024	72	71	71	71	71	70	70	70	72	74	73	72	73	76	76	76	62	64	71	72	73	73	72	70	71	76
2/6/2024	75	73	72	72	71	70	69	69	70	71	63	64	56	67	65	71	46	24	35	43	71	71	72	52	63	75
2/7/2024	65	78	73	76	78	72	74	74	31	72	71	76	81	80	83	79	77	68	76	76	76	76	70	71	73	83
2/8/2024	80	57	63	77	78	46	62	74	77	72	85	84	85	83	83	86	86	82	80	79	74	75	76	75	76	86
2/9/2024	77	75	50	74	71	71	51	71	77	83	87	92	93	93	93	90	87	86	87	85	80	79	79	78	80	93
2/10/2024	80	79	45	67	80	80	79	78	81	82	85	83	85	91	93	91	90	93	86	88	86	85	84	78	82	93
2/11/2024	79	77	77	71	69	70	75	77	86	88	93	95	90	90	90	91	90	86	83	83	58	85	81	60	81	95
2/12/2024	81	81	82	81	81	80	78	78	78	80	81	84	85	87	87	86	85	85	26	73	79	79	78	69	79	87
2/13/2024	80	79	78	78	78	77	75	60	51	80	82	84	84	87	88	87	86	85	81	80	79	79	79	79	79	88
2/14/2024	78	78	76	76	58	79	78	78	78	83	82	85	86	87	88	86	84	82	79	77	76	75	75	75	79	88
2/15/2024	76	71	65	66	67	74	72	72	74	75	80	82	85	84	83	83	82	79	77	76	75	75	75	75	76	85
2/16/2024	77	75	77	63	56	58	69	71	73	81	76	87	88	87	85	82	83	82	76	74	74	74	75	76	76	88
2/17/2024	75	73	75	72	75	76	74	76	75	79	87	90	89	92	79	83	81	80	80	83	83	84	84	87	81	92
2/18/2024	90	88	70	88	89	87	85	83	82	86	89	91	91	90	90	88	89	89	83	81	81	83	84	65	85	91
2/19/2024	71	77	77	82	85	83	81	76	78	48	80	82	77	87	86	84	44	56	59	58	79	80	53	34	71	87
2/20/2024	82	76	73	73	75	78	76	77	77	80	80	69	58	86	87	83	81	81	80	79	78	79	79	74	77	87
2/21/2024	77	77	79	78	80	79	78	76	79	82	86	88	88	88	89	88	88	83	77	76	75	75	75	77	81	89
2/22/2024	81	79	63	81	79	78	75	77	80	83	90	92	91	92	92	90	88	85	72	83	81	82	81	82	82	92
2/23/2024	84	63	83	83	83	81	79	79	71	74	79	84	86	87	85	83	82	77	81	78	78	61	78	79	79	87
2/24/2024	79	78	78	57	46	77	76	76	74	77	84	86	85	86	87	83	82	75	38	57	68	71	69	69	73	87
2/25/2024	68	57	68	67	67	67	67	66	72	79	82	84	84	70	82	83	68	76	75	74	72	73	70	67	72	84
2/26/2024	70	43	42	69	68	68	70	72	71	72	73	73	76	78	77	74	74	73	51	74	74	68	71	72	69	78
2/27/2024	70	67	50	68	72	74	73	73	75	82	87	82	88	88	85	87	85	78	74	54	71	71	71	71	75	88
2/28/2024	56	66	62	71	72	46	49	71	71	81	70	77	91	90	88	84	81	79	77	77	78	75	75	77	73	91
2/29/2024	73	73	72	64	73	71	72	72	71	81	88	88	86	85	86	85	83	78	74	72	70	72	72	72	76	88
																									Monthly Average	Monthly Max
																									76	95

	HE 1	HE 2	HE 3	HE 4	HE 5	HE 6	HE 7	HE 8	HE 9	HE 10	HE 11	HE 12	HE 13	HE 14	HE 15	HE 16	HE 17	HE 18	HE 19	HE 20	HE 21	HE 22	HE 23	HE 24	Daily Average	Daily Max
3/1/2024	71	70	70	69	71	72	72	74	78	76	86	87	87	87	88	88	86	82	75	75	73	73	73	73	77	88
3/2/2024	75	73	75	74	74	67	73	76	79	75	85	86	87	87	87	86	85	82	75	70	73	74	75	73	78	87
3/3/2024	73	74	74	74	75	74	73	74	79	85	90	92	94	93	92	91	88	85	79	75	72	74	75	75	80	94
3/4/2024	78	78	78	48	56	68	75	77	76	83	91	95	96	98	89	97	96	88	79	79	78	80	79	78	81	98
3/5/2024	83	76	49	64	66	43	75	77	79	87	90	95	95	95	95	88	91	86	82	79	78	79	80	79	80	95
3/6/2024	80	79	75	78	78	76	75	77	83	88	91	81	91	90	94	87	85	82	68	78	78	78	78	66	81	94
3/7/2024	76	76	70	78	77	76	76	73	77	86	90	92	91	79	93	92	86	86	75	67	76	79	73	78	80	93
3/8/2024	67	76	69	69	75	69	74	79	84	91	97	97	97	98	99	98	94	89	84	81	80	80	79	79	83	99
3/9/2024	79	61	78	79	79	77	76	78	84	92	97	99	98	101	99	96	94	88	83	82	82	82	81	81	85	101
3/10/2024	75	70	60	83	82	81	80	78	81	93	95	97	97	99	98	96	90	84	81	80	80	80	42	58	82	99
3/11/2024	82	81	68	83	82	82	80	82	86	93	97	98	98	97	97	96	91	84	81	80	79	78	59	79	85	98
3/12/2024	79	80	79	80	77	80	79	75	81	84	88	91	94	93	92	91	88	84	80	56	79	78	78	79	82	94
3/13/2024	80	78	79	79	79	79	78	80	85	92	96	99	97	98	97	96	90	87	82	79	79	79	78	64	84	99
3/14/2024	80	51	63	79	62	80	79	79	83	86	93	100	90	102	103	103	102	98	89	88	86	85	84	79	85	103
3/15/2024	78	75	58	76	76	75	74	72	74	78	78	64	56	80	81	79	78	79	79	79	79	78	76	75	75	81
3/16/2024	76	73	70	71	64	69	70	71	73	68	85	90	85	91	90	89	88	80	41	68	76	76	75	76	76	91
3/17/2024	78	76	76	72	74	74	74	75	77	82	89	90	90	92	94	91	87	82	78	75	76	75	74	75	80	94
3/18/2024	76	75	75	73	72	71	70	71	77	85	92	93	94	96	96	92	86	79	42	54	68	73	74	74	77	96
3/19/2024	77	75	77	76	76	77	75	74	80	89	92	57	94	94	94	94	85	85	77	74	73	72	71	72	79	94
3/20/2024	73	72	72	72	73	72	72	73	82	87	84	95	97	96	95	92	91	82	75	74	73	73	61	73	79	97
3/21/2024	76	76	75	75	75	75	75	77	70	70	96	97	89	99	96	97	89	82	74	74	72	71	70	70	80	99
3/22/2024	73	72	51	73	73	73	46	66	82	87	79	94	95	77	94	93	84	82	73	72	72	72	71	66	76	95
3/23/2024	45	46	70	73	73	71	73	74	80	77	85	88	92	93	92	91	86	82	76	72	72	72	51	69	75	93
3/24/2024	42	66	63	72	72	42	72	74	83	86	89	94	91	90	90	84	86	79	63	73	72	72	69	71	75	94
3/25/2024	46	71	46	72	72	73	70	73	82	88	92	95	96	95	95	91	82	71	72	70	69	67	68	69	76	96
3/26/2024	64	60	66	59	62	66	37	74	82	87	89	92	94	93	94	93	92	83	75	68	68	66	49	65	74	94
3/27/2024	68	66	65	66	65	36	66	68	80	88	89	92	87	88	89	88	85	78	66	67	65	65	65	50	73	92
3/28/2024	69	67	67	67	67	66	65	69	76	85	87	88	88	88	88	85	68	76	66	64	46	62	61	62	72	88
3/29/2024	64	48	64	64	44	35	39	66	73	83	85	79	87	87	87	65	82	69	59	58	63	62	62	58	66	87
3/30/2024	49	67	56	51	68	66	40	45	70	57	72	78	81	84	82	78	74	70	68	66	49	64	63	35	64	84
3/31/2024	52	66	39	62	66	57	67	67	74	78	79	80	81	81	79	79	80	78	72	67	68	66	66	53	69	81
																									Monthly Average	Monthly Max
																									78	103

## A. Introduction

1. **Title:** Disturbance Control Standard – Contingency Reserve for Recovery from a Balancing Contingency Event
2. **Number:** BAL-002-2
3. **Purpose:** To ensure the Balancing Authority or Reserve Sharing Group balances resources and demand and returns the Balancing Authority's or Reserve Sharing Group's Area Control Error to defined values (subject to applicable limits) following a Reportable Balancing Contingency Event.
4. **Applicability:**
  - 4.1. **Responsible Entity**
    - 4.1.1. **Balancing Authority**
      - 4.1.1.1. A Balancing Authority that is a member of a Reserve Sharing Group is the Responsible Entity only in periods during which the Balancing Authority is not in active status under the applicable agreement or governing rules for the Reserve Sharing Group.
    - 4.1.2. **Reserve Sharing Group**
5. **Effective Date:** See the Implementation Plan for BAL-002-2.
6. **Background:**

Reliably balancing an Interconnection requires frequency management and all of its aspects. Inputs to frequency management include Tie-Line Bias Control, Area Control Error (ACE), and the various Requirements in NERC Resource and Demand Balancing Standards, specifically BAL-001-2 Real Power Balancing Control Performance and BAL-003-1 Frequency Response and Frequency Bias Setting.

## B. Requirements and Measures

- R1. The Responsible Entity experiencing a Reportable Balancing Contingency Event shall: *[Violation Risk Factor: High] [Time Horizon: Real-time Operations]*
  - 1.1. within the Contingency Event Recovery Period, demonstrate recovery by returning its Reporting ACE to at least the recovery value of:
    - zero (if its Pre-Reporting Contingency Event ACE Value was positive or equal to zero); however, any Balancing Contingency Event that occurs during the Contingency Event Recovery Period shall reduce the required recovery: (i) beginning at the time of, and (ii) by the magnitude of, such individual Balancing Contingency Event,
  - or,
  - its Pre-Reporting Contingency Event ACE Value (if its Pre-Reporting Contingency Event ACE Value was negative); however, any Balancing

Contingency Event that occurs during the Contingency Event Recovery Period shall reduce the required recovery: (i) beginning at the time of, and (ii) by the magnitude of, such individual Balancing Contingency Event.

- 1.2. document all Reportable Balancing Contingency Events using CR Form 1.
- 1.3. deploy Contingency Reserve, within system constraints, to respond to all Reportable Balancing Contingency Events, however, it is not subject to compliance with Requirement R1 part 1.1 if:
  - 1.3.1 the Responsible Entity:
    - is a Balancing Authority experiencing a Reliability Coordinator declared Energy Emergency Alert Level or is a Reserve Sharing Group whose member, or members, are experiencing a Reliability Coordinator declared Energy Emergency Alert level, and
    - is utilizing its Contingency Reserve to mitigate an operating emergency in accordance with its emergency Operating Plan, and
    - has depleted its Contingency Reserve to a level below its Most Severe Single Contingency

or,

- 1.3.2 the Responsible Entity experiences:
    - multiple Contingencies where the combined MW loss exceeds its Most Severe Single Contingency and that are defined as a single Balancing Contingency Event, or
    - multiple Balancing Contingency Events within the sum of the time periods defined by the Contingency Event Recovery Period and Contingency Reserve Restoration Period whose combined magnitude exceeds the Responsible Entity's Most Severe Single Contingency.
- M1.** Each Responsible Entity shall have, and provide upon request, as evidence, a CR Form 1 with date and time of occurrence to show compliance with Requirement R1. If Requirement R1 part 1.3 applies, then dated documentation that demonstrates compliance with Requirement R1 part 1.3 must also be provided.
  - R2.** Each Responsible Entity shall develop, review and maintain annually, and implement an Operating Process as part of its Operating Plan to determine its Most Severe Single Contingency and make preparations to have Contingency Reserve equal to, or greater than the Responsible Entity's Most Severe Single Contingency available for maintaining system reliability. *[Violation Risk Factor: High] [Time Horizon: Operations Planning]*

- M2.** Each Responsible Entity will have the following documentation to show compliance with Requirement R2:
- a dated Operating Process;
  - evidence to indicate that the Operating Process has been reviewed and maintained annually; and,
  - evidence such as Operating Plans or other operator documentation that demonstrate that the entity determines its Most Severe Single Contingency and that Contingency Reserves equal to or greater than its Most Severe Single Contingency are included in this process.
- R3.** Each Responsible Entity, following a Reportable Balancing Contingency Event, shall restore its Contingency Reserve to at least its Most Severe Single Contingency, before the end of the Contingency Reserve Restoration Period, but any Balancing Contingency Event that occurs before the end of a Contingency Reserve Restoration Period resets the beginning of the Contingency Event Recovery Period. *[Violation Risk Factor: Medium] [Time Horizon: Real-time Operations]*
- M3.** Each Responsible Entity will have documentation demonstrating its Contingency Reserve was restored within the Contingency Reserve Restoration Period, such as historical data, computer logs or operator logs.

## **C. Compliance**

### **1. Compliance Monitoring Process**

#### **1.1. Compliance Enforcement Authority**

As defined in the NERC Rules of Procedure, "Compliance Enforcement Authority" means NERC or the Regional Entity in their respective roles of monitoring and enforcing compliance with the NERC Reliability Standards.

#### **1.2. Evidence Retention**

The following evidence retention period(s) identify the period of time an entity is required to retain specific evidence to demonstrate compliance. For instances where the evidence retention period specified below is shorter than the time since the last audit, the Compliance Enforcement Authority may ask an entity to provide other evidence to show that it was compliant for the full-time period since the last audit.

The Responsible Entity shall retain data or evidence to show compliance for the current year, plus three previous calendar years, unless directed by its Compliance Enforcement Authority to retain specific evidence for a longer period of time as part of an investigation.

If a Responsible Entity is found noncompliant, it shall keep information related to the noncompliance until found compliant, or for the time period specified above, whichever is longer.

The Compliance Enforcement Authority shall keep the last audit records and all subsequent requested and submitted records.

**1.3. Compliance Monitoring and Assessment Processes:**

As defined in the NERC Rules of Procedure, "Compliance Monitoring and Assessment Processes" refers to the identification of the processes that will be used to evaluate data or information for the purpose of assessing performance or outcomes with the associated Reliability Standard.

**1.4. Additional Compliance Information**

The Responsible Entity may use Contingency Reserve for any Balancing Contingency Event and as required for any other applicable standards.

Table of Compliance Elements

R #	Time Horizon	VRF	Violation Severity Levels			
			Lower VSL	Moderate VSL	High VSL	Severe VSL
<b>R1.</b>	<b>Real-time Operations</b>	<b>Medium</b>	The Responsible Entity achieved less than 100% but at least 90% of required recovery from a Reportable Balancing Contingency Event during the Contingency Event Recovery Period  OR The Responsible Entity failed to use CR Form 1 to document a Reportable Balancing Contingency Event.	The Responsible Entity achieved less than 90% but at least 80% of required recovery from a Reportable Balancing Contingency Event during the Contingency Event Recovery Period.	The Responsible Entity achieved less than 80% but at least 70% of required recovery from a Reportable Balancing Contingency Event during the Contingency Event Recovery Period.	The Responsible Entity achieved less than 70% of required recovery from a Reportable Balancing Contingency Event during the Contingency Event Recovery Period.
<b>R2.</b>	<b>Operations Planning</b>	<b>Medium</b>	The Responsible Entity developed and implemented an Operating Process to determine its Most Severe Single Contingency and to have Contingency Reserve equal to, or	N/A	The Responsible Entity developed an Operating Process to determine its Most Severe Single Contingency and to have Contingency Reserve equal to, or greater than the	The Responsible Entity failed to develop an Operating Process to determine its Most Severe Single Contingency and to have Contingency Reserve equal to, or greater than the

			greater than the Responsible Entity's Most Severe Single Contingency but failed to maintain annually the Operating Process.		Responsible Entity's Most Severe Single Contingency but failed to implement the Operating Process.	Responsible Entity's Most Severe Single Contingency..
<b>R3</b>	<b>Real-time Operations</b>	<b>Medium</b>	The Responsible Entity restored less than 100% but at least 90% of required Contingency Reserve following a Reportable Balancing Contingency Event during the Contingency Event Restoration Period.	The Responsible Entity restored less than 90% but at least 80% of required Contingency Reserve following a Reportable Balancing Contingency Event during the Contingency Event Restoration Period.	The Responsible Entity restored less than 80% but at least 70% of required Contingency Reserve following a Reportable Balancing Contingency Event during the Contingency Event Restoration Period.	The Responsible Entity restored less than 70% of required Contingency Reserve following a Reportable Balancing Contingency Event during the Contingency Event Restoration Period.

#### **D. Regional Variances**

None.

#### **E. Interpretations**

None.

#### **F. Associated Documents**

BAL-002-2 Contingency Reserve for Recovery from a Balancing Contingency Event Background Document

CR Form 1



### Version History

Version	Date	Action	Change Tracking
0	April 1, 2005	Effective Date	New
0	August 8, 2005	Removed "Proposed" from Effective Date	Errata
0	February 14, 2006	Revised graph on page 3, "10 min." to "Recovery time." Removed fourth bullet.	Errata
1	September 9, 2010	Filed petition for revisions to BAL-002 Version 1 with the Commission	Revision
1	January 10, 2011	FERC letter ordered in Docket No. RD10-15-00 approving BAL-002-1	
1	April 1, 2012	Effective Date of BAL-002-1	
1a	November 7, 2012	Interpretation adopted by the NERC Board of Trustees	
1a	February 12, 2013	Interpretation submitted to FERC	
2	November 5, 2015	Adopted by NERC Board of Trustees	Complete revision
2	January 19, 2017	FERC Order approved BAL-002-2. Docket No. RM16-7-000	
2	October 2, 2017	FERC letter Order issued approving raising the VRF for Requirement R1 and R2 from Medium to High. Docket No. RD17-6-000.	

## **Rationale**

During development of this standard, text boxes were embedded within the standard to explain the rationale for various parts of the standard. Upon BOT adoption, the text from the rationale text boxes was moved to this section.

### **Rationale for Requirement R1:**

Requirement R1 reflects the operating principles first established by NERC Policy 1 (Generation Control and Performance). Its objective is to assure the Responsible Entity balances resources and demand and returns its Reporting Area Control Error (ACE) to defined values (subject to applicable limits) following a Reportable Balancing Contingency Event. It requires the Responsible Entity to recover from events that would be less than or equal to the Responsible Entity's MSSC. It establishes the amount of Contingency Reserve and recovery and restoration timeframes the Responsible Entity must demonstrate in a compliance evaluation. It is intended to eliminate the ambiguities and questions associated with the existing standard. In addition, it allows Responsible Entities to have a clear way to demonstrate compliance and support the Interconnection to the full extent of its MSSC.

Requirement R1 does not apply when an entity experiences a Balancing Contingency Event that exceeds its MSSC (which includes multiple Balancing Contingency Events as described in R1 part 1.3.2 below) because a fundamental goal of the SDT is to assure the Responsible Entity has enough flexibility to maintain service to Demand while managing reliability. The SDT's intent is to eliminate any potential overlap or conflict with any other NERC Reliability Standard to eliminate duplicative reporting, and other issues.

Commenters suggested a Quarterly Compliance similar to the current reports sent to NERC. The drafting team attempted to draft measurement language and VSL's for quarterly monitoring of compliance to R1. But the drafting team found that the VSL levels developed were likely to place smaller BA's and RSGs in a severe violation regardless of the size of the failure. Therefore, the drafting team has not adopted a quarterly compliance calculation. Also, the proposed requirement and compliance process meets the directive in Paragraph 354 of Order 693.

Finally, commenters have suggested that the language in R1 part 1.3 be changed to specifically state under which EEA level the exclusion applies. The drafting team disagrees with this proposal. NERC is in the process of changing the EEA levels and what is expected in each level. The current EEA levels suggest that when an entity is experiencing an EEA Level 2 or 3 it is short of Contingency Reserves as normally defined to exclude readiness to curtail a specific amount of Firm Demand. Under the proposed EEA process, this would only be during an EEA Level 3. In order to reduce the need for consequent modifications of the BAL-002 standard, the drafting team has developed the proposed language in Requirement 1 Part 1.3.1 such that it addresses both current and future EEA process. In addition, the drafting team has added some clarifying language to 1.3.1 since comments were presented in previous postings expressing a concern only a Balancing Authority may request declaration of an EEA and a RSG cannot request an EEA. The standard drafting team's intent has always been if a BA is experiencing an EEA event under

which its contingency reserve has been activated, the RSG in which it resides would also be considered to be exempt from R1 compliance.

**Rationale for Requirement R2:**

R2 establishes the need to actively plan in the near term (e.g., day-ahead) for expected Reportable Balancing Contingency Events. This requirement is similar to the current standard which requires an entity to have available a level of contingency reserves equal to or greater than its Most Severe Single Contingency.

**Rationale for Requirement R3:**

This requirement is similar to the existing requirement that an entity that has experienced an event shall restore its Contingency Reserves within 105 minutes of the event. Note that if an entity is experiencing an EEA it may need to depend on potential availability (or make ready for potential curtailment) of its firm loads to restore Contingency Reserve. This is the reason for the changes to the definition of Contingency Reserve in the posting.

SOAH DOCKET NO. 473-25-05084  
PUC DOCKET NO. 57149

APPLICATION OF EL PASO	§	BEFORE THE STATE OFFICE
ELECTRIC COMPANY FOR AUTHORITY	§	
TO RECONCILE FUEL COSTS	§	OF
	§	
	§	ADMINISTRATIVE HEARINGS

EL PASO ELECTRIC COMPANY'S RESPONSE TO  
VINTON STEEL, LLC'S  
FIRST REQUESTS FOR INFORMATION  
QUESTION NOS. VS 1-1 THROUGH VS 1-21

VS 1-8:

Please refer to the testimony of Victor Martinez, page 10, line 2. What “portion” of operating reserves is EPE required to make available to other entities within the SRSG?

RESPONSE:

All SRSG participants must make their entire hourly reserve requirements available to all other SRSG participants for any qualifying event.

Preparer: Jaime Reyes

Title: Manager – Energy Resources

Sponsor: Victor Martinez

Title: Director – Energy Resources

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EL PASO ELECTRIC COMPANY'S RESPONSE TO  
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FIRST REQUESTS FOR INFORMATION  
QUESTION NOS. VS 1-1 THROUGH VS 1-21

VS 1-9:

Please refer to the testimony of Victor Martinez, page 10, lines 6-7. Please name the generating entities that make up the Northwestern Power Pool (NWPP). Also, what is the reserve margin that EPE is required to carry within the NWPP?

RESPONSE:

NWPP members include: Alberta Electric System Operator, Arizona Public Service, Avangrid, Avista Utilities, Balancing Authority of Northern California, BC Hydro, BHE Montana, Bonneville Power Administration, Capital Power – Arlington Valley, Public Utility District - Chelan County, Douglas County PUD, El Paso Electric Company, Grant PUD, Gridforce, Idaho Power, Northwest Energy, NV Energy, PacifiCorp, Portland General PGE, Xcel Energy, Public Service Company of New Mexico, Puget Sound Energy, Salt River Project, Seattle City Light, Tacoma Power, Turlock Irrigation District, and Western Area Power Administration.

The NWPP hourly reserve requirements consist of approximately 3% of EPE's native load plus 3% of EPE's generation resources online.

Preparer: Jaime Reyes

Title: Manager – Energy Resources

Sponsor: Victor Martinez

Title: Director – Energy Resources

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FIRST REQUESTS FOR INFORMATION  
QUESTION NOS. VS 1-1 THROUGH VS 1-21

VS 1-10:

Please refer to Exhibit VM-9. Are all of the members of the SRSG included in the list shown on Exhibit VM-9? If not, please provide the natural gas price comparison for those members that are not included.

RESPONSE:

No. Not all the members of the SRSG are included in VM-9. VM-9 illustrates how EPE's natural gas prices compared to its neighboring utilities in the Southwest region. EPE does not track the natural gas prices paid by the other SRSG members; therefore, EPE does not have the requested natural gas price comparison.

Preparer: Jaime Reyes

Title: Manager – Energy Resources

Sponsor: Victor Martinez

Title: Director – Energy Resources

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	§	
	§	ADMINISTRATIVE HEARINGS

EL PASO ELECTRIC COMPANY'S RESPONSE TO  
VINTON STEEL, LLC'S  
FIRST REQUESTS FOR INFORMATION  
QUESTION NOS. VS 1-1 THROUGH VS 1-21

VS 1-11:

Please refer to Exhibit VM-10. Are all of the members of the SRSG included in the list shown on Exhibit VM-10? If not, please provide the purchased power prices for those members that are not included.

RESPONSE:

No. Not all members of the SRSG are included in VM-10. VM-10 illustrates how EPE's purchased power prices compared to its neighboring utilities in the Southwest region. EPE does not track the purchased power prices of the other SRSG members not included in VM-10.

Preparer: Jaime Reyes

Title: Manager – Energy Resources

Sponsor: Victor Martinez

Title: Director – Energy Resources

SOAH DOCKET NO. 473-25-05084  
PUC DOCKET NO. 57149

APPLICATION OF EL PASO	§	BEFORE THE STATE OFFICE
ELECTRIC COMPANY FOR AUTHORITY	§	
TO RECONCILE FUEL COSTS	§	OF
	§	
	§	ADMINISTRATIVE HEARINGS

EL PASO ELECTRIC COMPANY'S RESPONSE TO  
VINTON STEEL, LLC'S  
FIRST REQUESTS FOR INFORMATION  
QUESTION NOS. VS 1-1 THROUGH VS 1-21

VS 1-12:

Please refer to the testimony of Victor Martinez, page 11, lines 27-29 and Exhibit VM-14. Provide a definition of each of the column headings shown in the Exhibit that details the approximate \$18.9 million saved by EPE through participation in CAISO.

RESPONSE:

Please see CEP 2-3 Attachment 1.

Preparer: Daniel Dominguez

Title: Supervisor – Real Time Trading & EIM

Sponsor: Victor Martinez

Title: Director – Energy Resources



SOAH DOCKET NO. 473-25-05084  
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EL PASO ELECTRIC COMPANY'S RESPONSE TO  
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FIRST REQUESTS FOR INFORMATION  
QUESTION NOS. VS 1-1 THROUGH VS 1-21

VS 1-13:

Please refer to the testimony of Victor Martinez, page 24, lines 29-30. Explain why the New Mexico PRC denied certifying Newman Unit 6. Provide the final order issued by the NMPRC denying certification.

RESPONSE:

Please see VS 1-13 Attachment 1 for a copy of the final order referenced above. Please see VS 1-13 Attachment 2 for the Recommended Decision. Attachments 1 and 2 explain why the New Mexico PRC denied certifying Newman Unit 6.

Preparer: George Novela

Title: Senior Director – Regulatory Policy and Rates

Sponsor: George Novela

Title: Senior Director – Regulatory Policy and Rates

**BEFORE THE NEW MEXICO PUBLIC REGULATION COMMISSION**

**IN THE MATTER OF EL PASO ELECTRIC COMPANY'S )  
APPLICATION FOR A CERTIFICATE OF PUBLIC )  
CONVENIENCE AND NECESSITY TO CONSTRUCT, ) Docket No. 19-00349-UT  
OWN, AND OPERATE GENERATING UNIT 6 AT THE )  
NEWMAN GENERATING STATION )**

**ERRATA NOTICE TO ORDER ADOPTING RECOMMENDED DECISION WITH  
ADDITIONAL INSTRUCTION**

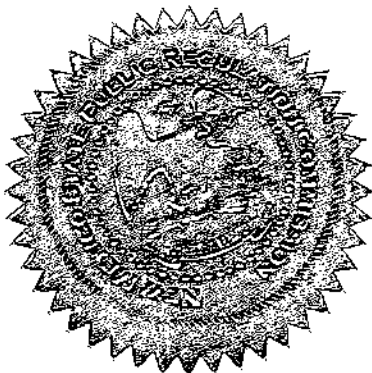
Pursuant to 1.2.2.37(G)(1) NMAC and 1.2.2.30 NMAC, the Commission gives notice that the **Order Adopting Recommended Decision with Additional Instruction**, issued by the Commission on December 16<sup>th</sup>, 2020 (the "Order") is corrected as follows:

1. Paragraph C of the Decretal portion of the Order is modified to correct the reference to a paragraph number of the Recommended Decision. The corrected text of this paragraph now reads: "C. EPE is hereby ordered to provide, in its next application for approval of any resource acquisition, the plan described in Paragraph 33, above."

**IT IS THEREFORE ORDERED:**

- A. The Order is corrected and revised as provided above.
- B. This Errata Notice is effective immediately.
- C. A copy of this Errata Notice shall be served on all persons listed on the attached certificate of service via email.

**ISSUED at Santa Fe, New Mexico, this 24<sup>th</sup> day of December, 2020.**



**NEW MEXICO PUBLIC REGULATION COMMISSION**

**/s/ Valerie Espinoza, electronically signed  
COMMISSIONER VALERIE ESPINOZA**

**BEFORE THE NEW MEXICO PUBLIC REGULATION COMMISSION**

**IN THE MATTER OF EL PASO ELECTRIC COMPANY'S )  
APPLICATION FOR A CERTIFICATE OF PUBLIC )  
CONVENIENCE AND NECESSITY TO CONSTRUCT, ) Docket No. 19-00349-UT  
OWN, AND OPERATE GENERATING UNIT 6 AT THE )  
NEWMAN GENERATING STATION )**

**CERTIFICATE OF SERVICE**

**I HEREBY CERTIFY** that a true and correct copy of the foregoing **Errata Notice to Order Adopting Recommended Decision with Additional Instruction** issued by the New Mexico Public Regulation Commission on December 24<sup>th</sup>, 2020 was sent via email to the parties indicated below:

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**DATED** this 24<sup>th</sup> day of December, 2020.

**NEW MEXICO PUBLIC REGULATION COMMISSION**

/s/ Isaac Sullivan-Leshin, electronically signed

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**BEFORE THE NEW MEXICO PUBLIC REGULATION COMMISSION**

**IN THE MATTER OF EL PASO ELECTRIC COMPANY'S )  
APPLICATION FOR A CERTIFICATE OF PUBLIC )  
CONVENIENCE AND NECESSITY TO CONSTRUCT, ) Docket No. 19-00349-UT  
OWN, AND OPERATE GENERATING UNIT 6 AT THE )  
NEWMAN GENERATING STATION )**

**ORDER ADOPTING RECOMMENDED DECISION WITH ADDITIONAL  
INSTRUCTION**

**THIS MATTER** comes before the New Mexico Public Regulation Commission (“Commission”) upon the Recommended Decision issued by the Hearing Examiner, the exceptions filed thereto, the responses to the exceptions, and the motion for leave to reply, described below.

Whereupon, being duly informed,

**THE COMMISSION FINDS AS FOLLOWS:**

1. Hearing Examiner Elizabeth Hurst issued her Recommended Decision in this case on November 16, 2020.
2. On November 25, 2020, El Paso Electric Company (“EPE”) filed its exceptions to the Recommended Decision. On December 4, 2020, responses to EPE’s exceptions were filed by Merrie Lee Soules, the Coalition for Clean Affordable Energy (“CCAЕ”), the City of Las Cruces (the “City”), and Vote Solar.
3. On December 11, 2020, EPE filed a Motion for Leave to File Reply, seeking leave from the Commission to file a reply to the responses to exceptions filed in this matter, except for those filed by Merrie Lee Soules. In support of the motion, EPE argues that these responses are misleading and that they mischaracterize EPE’s positions and arguments in the exceptions. EPE states in the motion that, due to time constraints, it did not seek the positions of the other parties to the case.

4. On December 11, 2020, CCAE filed a response to the motion, opposing it as untimely as EPE chose to wait an entire week after receiving the responses to exceptions to file a reply.

5. The Commission finds that the motion should be denied. The Commission disagrees with CCAE that the reply is untimely. The Commission's Rules of Procedure allow for a reply to a response to an exception to be filed as late as thirteen days from the service of the response. 1.2.2.37(C)(1)(d) NMAC. The Commission instead denies leave to file the reply on the basis that it will not assist the Commission. The Commission can dispose of EPE's exceptions to the RD without reference to the responses to the exceptions. The arguments raised in the exceptions, as well as the arguments made in the responses to those exceptions, were extensively briefed to the Hearing Examiner. Thus, the Recommended Decision and the underlying record themselves contain the factual and legal arguments that compel the Commission to reject each of EPE's exceptions. It would be superfluous to entertain an additional dispute based solely on the content of the responses.

EPE Exception No. 1

6. EPE first argues that building Newman Unit 6 is in the public interest because it is the most cost effective option among feasible alternatives. EPE contends that there is no more cost-effective way for EPE to provide for the existing and future demand for electricity than by constructing Newman Unit 6. EPE goes on to argue that the Hearing Examiner "entirely disregarded the costs of electrical service to the consumer in the Recommended Decision." EPE further argues that the alternative scenario preferred by the Hearing Examiner, involving continued use of the older Newman Units 1 & 2, and Rio Grande Unit 7, were not selected in

EPE's modeling as part of the lowest reasonable cost portfolio to reliably serve customer load because the extensions are not economic.

7. Additionally, EPE argues that the "Intervenors introduced no modeling analyses, no alternative cost or reliability studies, and no evaluation whatsoever of the proposals bid into the 2017 RFP to counter those performed by EPE and E3." EPE contends that the Intervenor thus "do not, and cannot, offer the Commission any cost-effective, feasible alternative to Newman Unit 6." The modeling performed by EPE was thorough and proper, using two well-established and accepted modeling programs.

8. EPE further argues that it has demonstrated need for the generation capacity set out in its loads and resource analysis ("L&R"). The question before the Commission now is whether EPE will provide that needed generation capacity with a new, economically advantageous unit, or with old, economically disadvantageous units.

9. The Commission rejects this exception and accepts the reasoning of the Hearing Examiner. Further, the Commission notes that it is incumbent upon the applicant to show that a proposed facility is the most cost effective among feasible alternatives. It is not the burden of the intervenors to provide their own modeling analyses. It is sufficient for them to do, as they have done in this matter, show that the modeling performed by the applicant was based upon poor or false assumptions.

10. Moreover, as pointed out by the Hearing Examiner, EPE in its generation resource selection process was required to consider the changes in New Mexico law regarding renewable resources and carbon emission standards that were effective when EPE filed this application. Compliance with New Mexico law is not merely a factor to be weighed against other factors when determining what serves the public interest. The Commission must ensure that EPE follows New

Mexico law. What is particularly troubling about EPE's positions and arguments in this matter, made even more explicit in the exceptions, is that they manifest an intent on the part of EPE not to comply with the heightened requirements of the recent legislation. For example, EPE cites expert testimony to the effect that compliance with the renewable portfolio and zero-carbon requirements of the law are unfeasible. The Commission cannot accept this as a premise of the application. It is incumbent upon the Commission to make decisions that are consistent with a pathway toward compliance with the milestones set out in the recent legislation. In considering the public interest, the Commission must consider the public policy inherent in that legislation. It is clearly against the public interest to issue a CCN based on a record indicating an intent not to reach those milestones and including assumptions disregarding the law as well as assumptions inaccurately disfavoring renewable resources. EPE's disregard for New Mexico law is more than sufficient reason to deny the application.

EPE Exception No. 2

11. EPE contends that approval of Newman Unit 6 will not result in stranded costs. EPE further argues that the issue of stranded costs is not presented in this proceeding, and that the Recommended Decision's finding that EPE failed to consider or address this issue is both unsupported by the record and contrary to applicable law and longstanding regulatory principles. EPE contends that New Mexico customers will have no obligation to pay for Newman Unit 6 after 2045 if the unit is no longer serving New Mexico customers.

12. EPE argues that the Recommended Decision should be rejected on this issue for two related reasons. First, EPE argues that the Recommended Decision correctly notes that EPE has made "no specific ratemaking requests in this case." EPE further argues that "this fact alone



should preclude a stranded cost analysis under current law because it underscores that the Parties did not create a complete record on this issue.”

13. Second, EPE argues that, to the extent that stranded costs are a relevant concern at this time, there is no evidence to support a conclusion that “current law” precluding use of Newman Unit 6 for its 40 year useful life will result in “New Mexico ratepayers . . . being obligated to pay millions of dollars in stranded costs or accelerated costs.” EPE argues that New Mexico customers will not be charged for any costs associated with Newman Unit 6 if or when it is no longer serving New Mexico customers. EPE argues that the 40-year depreciation period used by EPE for Newman Unit 6 is a benefit to New Mexico customers, because it means they will only pay for the amount of time of Newman Unit 6’s operating life when they are actually benefitting from the unit. EPE states that the Commission has previously found that a public utility bears the risk that costs associated with approved projects will not be recoverable and argues that Newman Unit 6 is no exception.

14. The Commission rejects this exception and accepts the reasoning of the Hearing Examiner. To that, the Commission adds that it disagrees with the argument that the Commission cannot consider the potential for stranded costs in a CCN proceeding that does not include a request for ratemaking treatment. The public convenience and necessity standard (identical to the “public interest,” as noted by the Hearing Examiner) is capacious enough to allow consideration of this issue. Moreover, it is wholly disingenuous of EPE to take the positions described above when, in the same set of exceptions, EPE cites the potential for imposition of stranded costs upon New Mexico ratepayers as a reason to reject the alternative approach described by the Hearing Examiner.

///

EPE Exception No. 3

15. EPE argues that the Recommended Decision fails to consider the “additional public benefits of Newman Unit 6.” EPE contends that the Recommended Decision is incorrect in finding that “EPE’s choice to construct, own and operate a natural generation plant with a projected lifespan of at least 40 years will not result in a net benefit to EPE’s New Mexico ratepayers.”

16. First, EPE argues that it “put forward unopposed evidence that Newman Unit 6 offers significant environmental benefits as compared to life extensions of Newman Units 1 and 2 and Rio Grande Unit 7.” EPE contends that its testimony establishes that Newman Units 1 and 2 and Rio Grande Unit 7 predate the passage of the Clean Air Act in 1970 and, unlike Newman Unit 6, are not equipped with pollution controls for NO<sub>x</sub> and CO.

17. Second, EPE argues that Newman Unit 6 would play a critical role in facilitating EPE’s transition to renewable resources. EPE contends that “the notion that Newman Unit 6 cannot form a part of the transition to renewable energy is simply incorrect.” EPE states that “it is undisputed that renewables are an intermittent resource.” EPE contends that “[w]ind generation profiles are even less consistent and more variable than solar.” EPE argues that, “[t]o satisfy its obligation to provide reliable service, firm resources such as Newman Unit 6 are required to satisfy the needs of EPE’s customers in the future.”

18. EPE goes on to cite expert testimony to the effect that “other potential sources of zero-carbon firm capacity . . . are not viable for EPE. EPE contends, citing the expert, that, “[w]ithout firm capacity, ‘reducing carbon emissions beyond approximately 90% becomes very expensive and likely infeasible’.” EPE concludes that “[i]t necessarily follows that in order for EPE to satisfy the needs of its customers, some level of natural gas resources will be necessary, even in 2045.”

19. The Commission rejects this exception and accepts the reasoning of the Hearing Examiner. The Commission adds that even if the Commission were to accept the argument that the Hearing Examiner failed to weigh these considerations properly, which the Commission does not, the Commission finds that such benefits would not outweigh EPE's disregard for the renewable and zero-carbon requirements of New Mexico evidenced by the record and EPE's exceptions.

EPE Exception No. 4

20. EPE argues that "the Recommendation to the Commission to deny authorization of a CCN for Newman Unit 6 in New Mexico was made without any acknowledgement, much less consideration, of the multi-jurisdictional effects, long term negative impacts for the EPE system, or adverse consequences for EPE's New Mexico customers of rejecting Newman Unit 6 in light of the recent approval of a CCN by Texas."

21. EPE goes on to note that EPE is a multi-jurisdictional utility with responsibility for serving customers in both New Mexico and Texas. EPE states, "Approximately 80% of EPE's customers are in Texas, and EPE has an obligation to comply with Texas utility law and the decisions of the PUCT [(the Public Utility Commission of Texas)]." EPE further notes that the PUCT granted EPE a CCN to construct, own and operate Newman Unit 6. EPE contends that "the PUCT final order contains considerably more evaluation and analysis of the issues surrounding a CCN for Newman Unit 6 than the Recommended Decision." EPE asks the Commission to "re-evaluate the potential consequences for EPE customers, for EPE, and for the Commission."

22. EPE further argues that the Recommended Decision "fails to consider the challenges for EPE of complying with inconsistent orders, the potential operational issues, and the economies of scale that New Mexico ratepayers currently enjoy by virtue of sharing system

resources with Texas customers” EPE goes on to say that “[d]enial of a CCN in New Mexico, in light of approval in Texas, will force EPE to reconsider its long-term resource planning and procurement processes given that a system resource that it finds to be in the best interests of all of its customers may not be permitted to serve customers across both jurisdictions.”

23. EPE further argues that, if the Commission accepts the Recommended Decision, “it will relinquish authority over Newman Unit 6 and deny itself the ability to influence the operation of the unit.” EPE claims that “the Recommended Decision fails to address the Commission’s duty to take into account EPE’s resource planning requirements in Texas (of which the construction, ownership and operation of Newman Unit 6 is now one) and to authorize EPE, as a multi-jurisdictional utility, to implement plans that coordinate its Texas resource planning requirements.” EPE concludes that, “given the PUCT decision granting a CCN for Newman Unit 6 and the fact that Newman Unit 6 is proceeding in Texas, the prudent approach for the Commission is to approve the CCN in New Mexico.”

24. The Commission rejects this exception and accepts the reasoning of the Hearing Examiner. The Commission adds that EPE’s arguments are beyond troubling. EPE’s contentions do not ask the Commission merely to consider the effects of differing Texas law and policy. EPE asks the Commission to subordinate the law of New Mexico to that of Texas and to disregard New Mexico law insofar as it is inconsistent or even inconvenient. It is incumbent upon a multi-jurisdictional entity such as EPE to plan for compliance with the law in all jurisdictions that it serves.

EPE Exception No. 5

25. While “not conced[ing] that the REA applies to this proceeding or that it is a legally relevant consideration,” EPE argues that the Recommended Decision “ignored extensive record

evidence that EPE seriously considered the REA and RPS requirements in selecting the resource portfolio of which Newman Unit 6 was a part, and that the selection is consistent with and supports REA compliance.” EPE argues that it “provided detailed testimony explaining how EPE’s case demonstrates that Newman Unit 6 is an integral part of the selected resource portfolio that helps EPE comply with the RPS requirements.”

26. EPE contends that “the Recommended Decision arbitrarily fails to recognize that Newman Unit 6 will be an important and integral part of the transition to renewable energy and will position EPE to comply with the RPS requirements in a cost-effective manner.” EPE further contends that “a generator such as Newman Unit 6 that can be turned on and off rapidly and on a daily basis can be used during EPE’s peak load hours throughout the year, provide reliability support to EPE’s system during non-peak hours, and be economically dispatched to displace more expensive energy.” Therefore, EPE argues that “Newman Unit 6 is an ideal complement to the intermittent nature of renewable resources such as solar and wind for reliably meeting EPE’s highest load levels during the summer months.”

27. The Commission rejects this exception and accepts the reasoning of the Hearing Examiner. The Commission acknowledges that such considerations as those described by EPE include some relevant considerations. However, when such considerations are included as part of a deeply flawed analysis by EPE which, among other flaws, overstates the unreliability of renewable resources, the Commission cannot conclude that the proposed facility would actually contribute to compliance with the renewable and zero-carbon energy requirements of the law.

EPE Exception No. 6

28. EPE argues that the Recommended Decision fails to comport with the Public Utility Act because it lacks the detailed findings of fact necessary to determine whether the public

convenience and necessity requires denial of a certificate for construction or operation of Newman Unit 6. EPE cites the provision of the Public Utility Act that requires that “the order of the commission shall be based upon []findings of fact” which shall consist of “ultimate facts as are necessary to determine the controverted questions presented by the proceeding [which] shall be separately stated and numbered.” NMSA 1978, § 62-10-14 (1941).

29. EPE argues that “[t]he controverted question presented by EPE’s Application in this proceeding is whether the public convenience and necessity requires the construction or operation of Newman Unit 6.” EPE further argues that “[t]he Recommended Decision is void of the required findings necessary to make a determination on that that question.”

30. The Commission rejects this exception and accepts the Recommended Decision as written. The Recommended Decision includes detailed findings, in the “Hearing Examiner Determination” section, to support the conclusion that “EPE’s failure to comply with the New Mexico legal requirements is not in the public interest,” which is the “ultimate fact” supporting the recommendation. As noted above, the Hearing Examiner, following Commission precedent, notes that “the public interest” is identical to the “public convenience and necessity.” This ultimate fact is, in accordance with the requirements of the Public Utility Act, separately stated and numbered in the “Findings of Fact and Conclusions of Law” section.

31. The Commission has jurisdiction over the parties and the subject matter of this case.

32. The Commission accepts and adopts all findings of fact and conclusions of law throughout the Recommended Decision.

33. The Commission further finds that EPE should be ordered to provide, in its next application for approval of any resource acquisition, whether by CCN or long-term purchased

power agreement, a comprehensive plan showing how EPE will comply with the renewable energy and zero-carbon energy requirements of New Mexico law.

**IT IS THEREFORE ORDERED:**

A. The Decretal Paragraphs contained in the Recommended Decision are incorporated by reference as if fully set forth herein and are ADOPTED, APPROVED, and ACCEPTED as orders of the Commission.

B. The Recommended Decision is ADOPTED, APPROVED, and ACCEPTED in its entirety.

C. EPE is hereby ordered to provide, in its next application for approval of any resource acquisition, the plan described in Paragraph 35, above.

D. EPE's Motion for Leave to Reply is DENIED.

E. This Order is effective immediately.

F. A copy of this Order shall be served upon all parties listed on the attached certificate of service via email, if the email addresses are known, and if not known, by regular mail.

G. This docket is now closed.

**ISSUED** under the Seal of the Commission at Santa Fe, New Mexico, this 16<sup>th</sup> day of  
**December, 2020.**

**NEW MEXICO PUBLIC REGULATION COMMISSION**

*/s/ Cynthia B. Hall, electronically signed*

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*/s/ Jefferson Byrd, electronically signed*

**JEFFERSON L. BYRD, COMMISSIONER DISTRICT 2**

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**STEPHEN FISCHMANN, COMMISSIONER DISTRICT 5**



**BEFORE THE NEW MEXICO PUBLIC REGULATION COMMISSION**

**IN THE MATTER OF EL PASO ELECTRIC COMPANY'S )  
APPLICATION FOR A CERTIFICATE OF PUBLIC )  
CONVENIENCE AND NECESSITY TO CONSTRUCT, ) Docket No. 19-00349-UT  
OWN, AND OPERATE GENERATING UNIT 6 AT THE )  
NEWMAN GENERATING STATION )**

**CERTIFICATE OF SERVICE**

**I HEREBY CERTIFY** that a true and correct copy of the foregoing **Order Adopting Recommended Decision with Additional Instruction** issued by the New Mexico Public Regulation Commission on December 16<sup>th</sup>, 2020 was sent via email to the parties indicated below:

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**DATED** this 16<sup>th</sup> day of December, 2020.

**NEW MEXICO PUBLIC REGULATION COMMISSION**

**/s/ Isaac Sullivan-Leshin, electronically signed**

**Isaac Sullivan-Leshin, Paralegal**

**Isaac.sullivan-leshin@state.nm.us**

**BEFORE THE NEW MEXICO PUBLIC REGULATION COMMISSION**

IN THE MATTER OF EL PASO ELECTRIC	)	
COMPANY'S APPLICATION FOR A	)	
CERTIFICATE OF PUBLIC CONVENIENCE AND	)	
NECESSITY TO CONSTRUCT, OWN, AND	)	Case No. 19-00349-UT
OPERATE GENERATING UNIT 6 AT THE	)	
NEWMAN GENERATING STATION.	)	
	)	
<u>EL PASO ELECTRIC COMPANY, APPLICANT</u>	)	

**RECOMMENDED DECISION**

**NOVEMBER 16, 2020**

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**BEFORE THE NEW MEXICO PUBLIC REGULATION COMMISSION**

<b>IN THE MATTER OF EL PASO ELECTRIC</b>	)	
<b>COMPANY'S APPLICATION FOR A</b>	)	
<b>CERTIFICATE OF PUBLIC CONVENIENCE</b>	)	<b>Case No. 19-00349-UT</b>
<b>AND NECESSITY TO CONSTRUCT, OWN,</b>	)	
<b>AND OPERATE GENERATING UNIT 6</b>	)	
<b>AT THE NEWMAN GENERATING STATION</b>	)	
	)	
<b>EL PASO ELECTRIC COMPANY,</b>	)	
<b>Applicant.</b>	)	
_____	)	

**RECOMMENDED DECISION OF THE HEARING EXAMINER**

Elizabeth C. Hurst, Hearing Examiner for this case, submits this Recommended Decision to the New Mexico Public Regulation Commission ("NMPRC" or "Commission") pursuant to NMSA 1978, Section 8-8-14 and in accordance with 1.2.2.29(D)(4) and 1.2.2.37(B) NMAC. The Hearing Examiner recommends that the Commission adopt the following statement of the case, discussion, findings of fact, and conclusions of law and decretal paragraphs in a final order.

**I. STATEMENT OF THE CASE**

On November 18, 2019, El Paso Electric Company ("EPE" or "Company") filed an Application for issuance of a Certificate of Public Convenience and Necessity ("CCN") in accordance with the New Mexico Public Utility Act ("NMPUA") NMSA 1978, Sections 62-9-1 and 62-9-6 to construct, own, and operate a new approximately 228 Megawatt ("MW") natural gas-fired combustion turbine

("Newman Unit 6") at EPE's existing Newman Generating Station ("Newman Station") in northeast El Paso, El Paso County, Texas. EPE requests that pursuant to 17.3.580 NMAC ("Rule 580") the Commission approve EPE's certificated estimated cost for Newman Unit 6 of \$159.3 million, including \$ 18.2 million of Allowances for Funds Used During Construction ("AFUDC").

On November 20, 2019, the Commission issued an Order Appointing Hearing Examiner.

On November 20, 2019, the Hearing Examiner issued an Order Setting Pre-hearing Conference.

On November 21, 2019, EPE filed an Errata Notice Related to the Direct Testimony of Wayne Oliver.

The pre-hearing conference was held on November 22, 2019 and was attended by representatives of EPE, the City of Las Cruces ("City"), Dona Ana County ("County"), the New Mexico Attorney General ("Attorney General"), and the Staff of the Commission's Utility Division ("Staff"). The parties discussed procedural matters and agreed upon a procedural schedule.

On November 25, 2019, the Hearing Examiner issued a Procedural Order setting forth the procedural details and deadlines for this case. The procedural schedule: (1) required EPE to publish the Notice attached to the Procedural Order one time in a newspaper of general circulation in every county where EPE provides service by December 6, 2019 and immediately post a copy of the Notice on its website by December 6, 2019; (2) set an intervention deadline of January

17, 2020; (3) required Staff and permitted any Intervenors to file direct testimony by April 9, 2020; (4) required any stipulation to be filed by April 9, 2020; (5) required any opposition to a stipulation to be filed by April 14 and testimony in opposition to a stipulation to be filed by April 21, 2020; (6) required any rebuttal testimony to be filed by April, 28 2020; and (7) set May 11, 2020 as the date for a public hearing in this matter.

On December 2, 2019, Merrie Lee Soules filed a Motion to Intervene and on December 9, 2019, Ms. Soules filed a protest.

On December 17, 2019, Philip B. Simpson and Allen H. Downs filed Motions to Intervene.

On December 20, 2019, EPE filed an Affidavit of Publication reflecting that the Notice was published in the *Las Cruces Sun News* and an Affidavit of Proof of Publication and Web Posting reflecting that the Notice was published on EPE's website, <https://www.epelectric.com/company/public-notice>, in accordance with the Hearing Examiner's Procedural Order.

On December 20, 2019, EPE filed a Motion for Entry of Protective Order.

On December 23, 2019, the City filed a Motion to Intervene.

On January 8, 2020, the Hearing Examiner issued a Protective Order.

On January 13, 2020, Vote Solar filed a Motion to Intervene.

On January 15, 2020, the County filed a Motion to Intervene.

On January 21, 2020, the Coalition for Clean Affordable Energy ("CCAEE") and Ryan Brown filed Motions to Intervene. Ryan Brown filed an Amended Motion to intervene on January 24, 2020.

On January 21, 2020, the City filed a Motion to Strike Certain Portions of the Pre-filed Direct Testimony and Exhibits of EPE Witness Omar Gallegos.

On January 31, 2020, EPE filed an Objection to Ryan Brown's Motion for Leave to Intervene as amended.

EPE filed a Response in Opposition to the Motion to Strike on February 3, 2020.

On February 4, 2020, the Hearing Examiner issued an Order granting Ryan Brown's Motion to Intervene.

On February 4, 2020, the Attorney General filed an Unopposed Motion for Leave to Intervene out of Time.

On February 25, 2020, in response to a Motion to Amend Procedural Order filed by Philip B. Simpson to delay the hearing one day, the Hearing Examiner issued a Second Procedural Order postponing the start of the public hearing to May 12, 2020.

On March 24, 2020, Vote Solar filed a Motion for Admission of Sara Gersen, Raghu Murthy, and Charles Carter Hall to Appear *Pro Hac Vice*.

On March 27, 2020, Vote Solar filed a Motion to Compel and Adjust the Procedural Schedule requesting EPE be ordered to produce answers to certain of



Vote Solar's Discovery Requests and to delay the procedural schedule by six weeks in part because of COVID-19. A Notice of Errata was also filed.

On April 2, 2020, EPE filed a Motion to Set Discovery Limits.

On April 7, 2020, Vote Solar and CCAE filed a Response to EPE's Motion to Set Discovery Limits.

On April 8, 2020, the Hearing Examiner issued an Order Holding Procedural Order in Abeyance which held the procedural deadlines in abeyance pending resolution of Vote Solar's Motion to Compel and EPE's Motion to Set Discovery Limits.

EPE filed its Response to Vote Solar's Motion to Compel on April 9, 2020 and the County, the City, the Attorney General, and pro se intervenors Brown, Downs, Simpson, and Soules filed a Joint Response to EPE's Motion to Set Discovery Limits on April 13, 2020.

On April 10, 2020, the Hearing Examiner issued an Order Setting Status Conference.

A telephonic status conference was held on April 14, 2020 and was attended by representatives of EPE, Ms. Soules, Mr. Downs, Mr. Simpson, the City, Vote Solar, the County, CCAE, Mr. Brown, the Attorney General, and Staff. During that conference, Counsel for Vote Solar indicated that EPE had supplemented its responses and Vote Solar did not wish to pursue the Motion to Compel. The Hearing Examiner also asked the parties to consider making further attempts to cooperate during the discovery process during the current work at home

constraints occurring due to Covid-19. The Hearing Examiner expressed concerns about current health gathering and travel restrictions that could impact holding the hearing in this case. The parties agreed upon new procedural dates for testimony and a public hearing.

On April 15, 2020, the Hearing Examiner issued a Third Procedural Order extending the deadline for Staff and any intervenors to file direct testimony to April 24, 2020 and the deadline to file a rebuttal testimony to June 5, 2020, holding EPE's Motion to Set Discovery Limits in abeyance and resetting the public hearing to July 20, 2020 given health gathering and travel restrictions in place due to the COVID-19 pandemic.

On April 24, 2020, the following witnesses filed direct testimony: Andrea C. Crane, on behalf of the Attorney General; Marc A. Tupler and Jack Sidler on behalf of Staff; Patrick J. O'Connell, on behalf of CCAE; Jose F. Provencio and Lisa LaRocque, on behalf of the City; Rick Gilliam and Michael Goggin, on behalf of Vote Solar; and Philip B. Simpson and Merrie Lee Soules, *Pro Se*. An Affirmation supporting the testimony and exhibits was filed by Ms. Soules on April 27, 2020.

On May 20, 2020, the Commission on its own Motion issued an Order extending the statutory review period by three months to November 18, 2020.

On June 5, 2020, the following witnesses filed rebuttal testimony: David Hawkins, Wayne Oliver, Arne Olson, George Novela, Jessica Christianson, James Schichtl, and Omar Gallegos on behalf of EPE; and Michael Goggin on behalf of Vote Solar.

On June 8, 2020, the Hearing Examiner issued a Bench Request to EPE.

EPE filed its Response to the Bench Request on June 19, 2020.

On June 22, 2020, the Hearing Examiner issued a Pre-Hearing Memorandum Order directing all Parties to file a pre-hearing memorandum by July 6, 2020 identifying: (1) the names and availability of all witnesses the party intends to present at hearing; (2) the exhibits the party intends to present or use during cross examination will need to be pre-marked and e-mailed to all parties on the official certificate of service and the Hearing Examiner by July 13, 2020; and (3) the amount of time need for cross examination of each witness. The Pre-Hearing Memorandum Order further directed EPE to provide, after consultation with Staff and all parties, a proposed order of presentation of witnesses and proposed order of cross examination.

On June 25, 2020, Vote Solar filed a Motion to Strike Portions of Omar Gallegos and Wayne Oliver's Rebuttal Testimony.

On July 6, 2020, EPE, the County, Staff, CCAE, Allen Downs, the Attorney General, Merrie Lee Soules, Philip Simpson, the City, and Vote Solar all filed pre-hearing memorandums. Ryan Brown filed his pre-hearing memorandum on July 15, 2020. Revised pre-hearing memorandums were subsequently filed by Allen Downs, Vote Solar, CCAE, Merrie Lee Soules, the AG, and the City.

On July 6, 2020, EPE filed a Motion for Admission of Casey A. Bell to Appear *Pro Vac Vice*.

On July 7, 2020, Vote Solar filed a Motion for Leave for Non-local Attorneys to Participate Remotely in any public hearing that includes in-person appearances.

On July 8, 2020, EPE filed its Response in Opposition to Vote Solar's Motion to Strike Portions of the Rebuttal Testimony of Omar Gallegos and Wayne Oliver.

An Order Granting Admissions *Pro Hac Vice* was issued by the Hearing Examiner on July 14, 2020.

On July 15, 2020, upon stipulation by all parties, the Hearing Examiner issued an e-mail stating AG witness Andrea Crane's direct testimony would be stipulated into the hearing record and her appearance at the public hearing would be excused.

On July 16, 2020, the Hearing Examiner issued an Order Denying Vote Solar's Motion to Strike.

On July 17, 2020, EPE filed Objections and Motions to Limit the Direct Testimonies of Phillip B. Simpson and Merrie Lee Soules.

Mr. Simpson and Ms. Soules filed Responses in Opposition to EPE's Objections and Motions to Limit Testimonies on July 22, 2020.

A public hearing was held on July 20-24, 2020. The following appearances were entered at the hearing:

**For EPE**

Nancy B. Burns  
El Paso Electric Company

Jeffrey J. Wechsler  
Kari E. Olson

Montgomery & Andrews, P.A.

Casey Bell  
Duggins Wren Mann & Romero, LLP

**For City**

Anastasia S. Stevens  
Stevens Law, LLC

**For County**

Keith W. Hermann  
Stelzner, Winter, Warburton, Flores, Sanchez & Dawes, P.A.

**For Attorney General**

Robert F. Lundin

**For CCAE**

Stephanie L. Dzur

**For Vote Solar**

Jason Marks  
Jason Marks Law, LLC

Sara Gersen  
Raghu Murthy  
Carter Hall  
Earthjustice

**For Staff**

Bradford Borman

**Pro Se:**

Merrie Lee Soules  
Philip Simpson  
Allen Downs  
Ryan Brown

NMPRC Commissioner Stephen Fischmann also appeared and participated in portions of the hearing.

The following witnesses appeared at the hearing and were examined on their respective pre-filed testimonies:

**For EPE:**

James Schichtl  
Omar Gallegos  
Wayne Oliver  
David Hawkins  
Jessica Christianson  
Arne Olson  
George Novela

**For City:**

Lisa LaRocque  
Jose Provencio

**For Vote Solar**

Richard Gilliam  
Michael Goggin

**For CCAE:**

Patrick J. O'Connell

**For Staff:**

Jack Sidler  
Marc A. Tupler

**Pro Se:**

Merrie Lee Soules  
Philip B. Simpson

No one appeared during the hearing to provide public comment.

During the public hearing, Commissioner Fischmann asked that certain information be submitted by EPE in the form of responses to Bench Requests.

On July 24, 2020, Mr. Simpson filed Exhibit PBS-5 to his Revised Direct Testimony.

On July 31, 2020, the Hearing Examiner issued an Order Setting Bench Request Deadlines that ordered: (1) EPE to file responses to Bench Requests by August 7, 2020, (2) any replies to the Bench Request responses be filed by August

20, 2020, and (3) if requested, a hearing on the Bench Request responses would be held on August 28, 2020.

On August 7, 2020, EPE filed its Responses to the Bench Requests issued during the public hearing.

On August 17, 2020, Vote Solar and the City filed Replies to EPE's Responses to the Bench Requests.

No party requested a hearing on the Bench Request responses pursuant to 1.2.2.35(K) NMAC, Additional Evidence.

On August 3, 5, and 6, 2020, the Transcripts ("Tr.") of the July 20-24, 2020 hearings were filed with the Commission.

On August 18 and 19, 2020, EPE and CCAE each filed corrections to the hearing transcripts.

On September 4, 2020, Initial Post Hearing Briefs were filed by Staff, Attorney General, CCAE, Vote Solar, the City, Mr. Simpson, Ms. Soules, and EPE. A Corrected Initial Brief was also filed by CCAE. An Errata Notice was also filed by the City on September 21, 2020.

On September 10, 2020, EPE filed an Unopposed Motion for Extension of Deadline to File Response Briefs.

On September 11, 2020, the Hearing Examiner issued an Order Granting Motion for Extension of Time that allowed response briefs to be filed by noon on September 21, 2020.

On September 21, 2020, Response Briefs were filed by CCAE, Vote Solar, the City, EPE, and Ms. Soules.

On October 21, 2020, the Commission issued an Order Further Extending Consideration of the Application by One Month.

On October 28, 2020, a public comment by Tom Reavey who supported the CCN was filed with the Commission.

## **II. SUMMARY OF EPE'S REQUESTS, PARTIES' POSITIONS, AND THE HEARING EXAMINER'S RECOMMENDATIONS**

### **A. EPE's Requests**

EPE requested Commission authorization to construct, own, and operate a new approximately 228 MW natural gas-fired combustion turbine, Newman Unit 6, at EPE's existing Newman Station in northeast El Paso, Texas. EPE also requested that pursuant to Rule 580, the Commission approve EPE's certificated estimated cost for Newman Unit 6 of \$159.3 million, including \$18.2 million of AFUDC. EPE asserted that Newman Unit 6 combined with the two solar long-term purchased power agreements ("LTPPAs") and the battery storage capacity resource for which EPE sought Commission approval in Case No. 19-00348-UT ("companion case") provided the most cost-effective portfolio available through EPE's competitive bidding process to safely and reliably serve customer load over EPE's entire system while considering the economics of planned retirements versus potential life-extensions of older, inefficient units.



EPE asserted that it would need 370 MW of additional resources by summer 2023 (50 MW in 2022 and 320 MW in 2023) to meet increasing customer demand and to replace the capacity of the retiring Newman Units 1 and 2 and Rio Grande Unit 7. EPE also argued that the latest Loads and Resources ("L&R") document, based on EPE's 2019 load forecast, is consistent with EPE's 2017 forecast and projects an even greater capacity need for 2022 and 2023.

EPE argued that Newman Unit 6's operational characteristics will allow EPE to use the facility to meet peaking (meeting high demand at maximum output for a few hours in the day) and load following (operating longer hours to balance load variability) requirements. Further, EPE asserted that it provided testimony that approving Newman Unit 6 would provide safe, reliable, and economic electric utility service to EPE's customers without unnecessary duplication or economic waste. EPE further argued that the Commission should give weight to the Public Utility Commission of Texas's probable approval of Newman 6.

## **B. Staff Position**

Staff supported EPE's request for Commission approval of a CCN for Newman Unit 6. Staff conditioned its support upon certain EPE filing requirements tied to the Commercial Operation Date ("COD") of Newman Unit 6. EPE would be required to file the proposed abandonments for Newman Units 1 and 2 and Rio Grande 7 within a specified period after the COD. Other permit, cost, and fuel information from EPE would be required in future filings.

## **C. Intervenor's Positions**

The Intervenors - Ms. Soules, Mr. Simpson, Mr. Downs, City, Vote Solar, County, CCAE, Mr. Brown, and Attorney General, opposed EPE's CCN request. Intervenors asserted that there were numerous flaws and deficiencies with EPE's Application. Some Intervenors claimed that the RFP and bid selection process had been skewed in favor of EPE's self-build option. There was also a claim that post-bid processes were biased. Intervenors argued that EPE failed to show need and had utilized a non-accepted IRP that the Commission had determined had been rendered largely obsolete by the recent 2019 Legislation (ETA and amendments to the RPS). Some Intervenors criticized EPE's load and resources modeling as being inaccurate especially in its low percent awarded toward capacity for renewable resources. Other Intervenors claimed EPE failed to actually choose a lower cost portfolio. Further, Intervenors asserted that EPE's capacity claim was too high because of the incorrect usage of a 15% reserve margin. Other Intervenors argued that Newman 6 is unnecessary and would lead to waste and unnecessary duplication. Intervenors also argued that EPE's cost justification for not wanting to extend existing plant was erroneous. Finally, Intervenors argued that contrary to New Mexico Law, EPE had failed to consider the ETA and changed RPS in its analysis and evaluation leading to the choice of Newman 6. Several Intervenors concluded that significant regulatory and technological uncertainty justified rejection of the CCN request at this time. Further, Intervenors suggested that near term load could be met by existing resources and that EPE could choose to issue a new RFP procurement process

based upon new information utilizing New Mexico RPS requirements and a new IRP.

#### **D. Hearing Examiner's Recommendations**

The Hearing Examiner finds that EPE failed to consider New Mexico law, specifically, Senate Bill 489 and the amendments to the Renewable Energy Act ("REA") in its RFP, bid selection, and resource evaluation process. The REA amendments require that renewable energy comprise the following minimum percentages of each public utility's total retail sales to New Mexico customers:

- (1) 20% by January 1, 2020;
- (2) 40% by January 1, 2025;
- (3) 50% by January 1, 2030; and
- (4) 80% by January 1, 2040.

Ultimately, the REA amendments require, by January 1, 2045, that zero carbon resources supply 100% of all retail sales of electricity in New Mexico.

EPE's choice of natural gas generation with a projected lifespan of at least 40 years will not result in a net benefit to New Mexico citizens and EPE's failure to consider the amended REA requirements and 2045 zero carbon emission requirement in its resource selection process is not in New Mexico citizens' public interest. Authorizing a CCN for Newman Unit 6 could subject EPE's ratepayers to paying stranded costs for some of the years of service lives that will be lost. Further, a preponderance of credible evidence shows that there is no immediate need for Newman Unit 6 because the renewable resources approved in Case No. 19-00348-UT, as well as other existing EPE resources, recently offered renewable

resources<sup>1</sup>, along with a brief delay in abandonments of Rio Grande 7, and Newman 1 and 2, should afford capacity in the near term to provide adequate safe and reliable electric service, at least until EPE evaluates and seeks approval for resource selections that are compliant with New Mexico law.

### **III. LEGAL STANDARDS**

#### **A. PUA**

The applicable standards for governing public utilities are set forth in the PUA and cases decided under that act. Under the PUA, the Commission has "general and exclusive power and jurisdiction to regulate and supervise every public utility in respect to its rates and service regulation and in respect to its securities..." NMSA 1978, Section 62-6-4(A). The PUA requires public utilities to obtain a CCN before constructing or operating any new public utility plant or system.<sup>2</sup> In determining whether to issue a CCN, the Commission must consider whether the new public utility plant or system is consistent with the public convenience and necessity.<sup>3</sup> The "public convenience and necessity" standard implies a net public benefit.<sup>4</sup> The utility applicant has the burden to show that the

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<sup>1</sup> See 19-0099-UT, Amended Application for Approval of El Paso Electric Company's Amended 2019 Renewable Energy Act Plan and 2020 Renewable Energy Act Plan Pursuant to the Renewable Energy Act and 17.5.8.571 MNAC and Third Revised Rate No. 38.

<sup>2</sup> NMSA 1978, Section 62-9-1(A).

<sup>3</sup> NMSA 1978, Section 62-9-1(A) and NMSA 1978, Section 62-9-6.

<sup>4</sup> *Re Valle Vista Water Utility Co.*, 212 P.U.R.4th 305, 309 (2001).

resource it proposes is the most cost effective resource among feasible alternatives.<sup>5</sup>

In prior cases, the Commission has equated the "public convenience and necessity" with the public interest.<sup>6</sup>

## **B. Evidentiary Standard**

EPE bears the burden of demonstrating, by a preponderance of evidence in the record, that the LTPPAs satisfy the requirements of Rule 551.8 and are reasonable and in the public interest. The burden of proof in this case is established as a matter of law.<sup>7</sup> The rule in administrative proceedings, in general and Commission adjudications in particular, is that unless a statute provides otherwise, the proponent of an order or moving party has the burden of proof.<sup>8</sup> The burden of proof is two-pronged: it includes both the burden of adducing sufficient evidence to go forward with a claim and the burden of ultimate

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<sup>5</sup> See Corrected Recommended Decision, Case No. 15-00261-UT (Aug. 15, 2016), at 89, 96-99, approved in Final Order Partially Adopting Corrected Recommended Decision (Sept. 28, 2016); Final Order, Case No. 13-00390-UT (Dec. 16, 2015), at 5-11; Order Partially Granting PNM Motion to Vacate and Addressing Joint Motion to Dismiss, Case No. 15-00205-UT (Dec. 22, 2015), at 10-11; *In Re Public Service Company of New Mexico*, Case No. 2382, 166 P.U.R. 4th 318, 337, 355-356 (1995).

<sup>6</sup> *Re Public Service Co.*, 119 P.U.R. 4th 48, 50 (1990); *aff'd, Public Serv. Co. of N.M. v. New Mexico Pub. Serv. Comm'n*, 112 N.M. 379, 815 P.2d 1169 (1991).

<sup>7</sup> See, e.g., *In the Matter of Southwestern Public Service Company's Application Requesting: (1) Acceptance of its 2014 Annual Energy Efficiency and Load Management Report; (2) Approval of its 2016 EE/LM Plan and Associated Programs; (3) Approval of its Cost Recovery Tariff Rider; and (4) a Determination Whether a Separate Process Should be Established to Analyze a Smart-Meter Pilot Program*, Case No. 15-0119-UT, Certification of Stipulation at 16 (Dec. 18, 2015) (citing *Gray v. State ex rel. Wyoming Workers' Safety and Compensation Div.*, 193 P.3d 246, 251 (Wyo. 2008)); see also NMSA 1978 § 62-8-7(A).

<sup>8</sup> Davis, Kenneth Culp, *Administrative Law Treatise* Section 169 at 255-57 (2 ed. 1980). See *Int'l Minerals and Chemical Corp. v. New Mexico Pub. Serv. Comm'n*, 81 N.M. 280, 283, 466 P.2d 557, 560 (1970) ("although the statute does not specifically place any burden of proof on (Complainant) International, the courts have uniformly imposed on administrative agencies the customary common-law rule that the moving party has the burden of proof").

persuasion. The standard of proof in administrative adjudications is, unless expressly provided otherwise, the preponderance of the evidence.<sup>9</sup> It is evidence that, when weighed with that opposed to it, has more convincing force. It has superior evidentiary weight that, though not sufficient to free the mind wholly from all reasonable doubt, is still sufficient to incline a fair and impartial mind to one side of the issue rather than the other.<sup>10</sup>

### **C. Commission Rule Requirements**

With respect to project costs, EPE must notify the Commission regarding anticipated transmission and distribution or generation plant extensions and additions of a certain size or dollar amount. 17.5.440 NMAC ("Rule 440"). EPE must also provide the Commission with notice and cost information for new capacity additions. 17.8.570 NMAC ("Rule 570"). Furthermore, Rule 580 provides that no cost overruns incurred in the construction of new generating plant will be included in rates unless the Commission determines such overruns were prudently incurred. Rule 580 also provides that the total cost of construction of electric generating plant for a utility, including AFUDC, as estimated by the utility at the

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<sup>9</sup> See Davis, *supra*, Section 16.9 at 256 ("One can never prove a fact by something less than a preponderance of the evidence")(emphasis in original). See *Re Public Southwestern Pub. Serv. Co.*, Case No. 2678, P.U.R. Slip Copy, 1997 WL 78696 (NMPUC) \*11.

<sup>10</sup> *Black's Law Dictionary* 547 (2nd pocket ed. 2001). See *Lujan v. Circle K. Corp.*, 1980-NMCA-107, ¶18, 94 N.M. 719 (the preponderance of evidence standard of proof essentially means "substantial support in the evidence for the findings."..."That being true,... the fact that there may have been contrary evidence which would have supported a different finding or conclusion does not permit this court, on appeal, to weigh the evidence, (citations omitted) or speculate as to what the trial court might have done.") (quoting *Mascarenas v. J.L. Kennedy*, 74 N.M. 665, 668-69, 397 P.2d 213).

time of issuance of the CCN by the Commission, should be reflected in the order issuing the CCN. Any cost overrun that exceeds the certificated estimated cost is subject to an additional prudence review in a general rate case before being included in the utility's rates.

#### **D. Senate Bill 489**

Senate Bill 489 ("S.B. 489," 2019 N.M. Laws, ch. 65) and the Energy Transition Act are often considered one and the same legislation. But the ETA is only one part of Senate Bill 489. Senate Bill 489 includes 82 pages of double-spaced provisions. It contains primarily a new 49-page chapter of the Public Utility Act<sup>11</sup> entitled Energy Transition Act (ETA),<sup>12</sup> major revisions to the Renewable Energy Act (REA),<sup>13</sup> an amendment to the Air Quality Control Act,<sup>14</sup> and several other related amendments to the Public Utility Act.

The amendments to the Renewable Energy Act are intended more generally to increase the use of renewable energy by the state's electric public utilities. Senate Bill 489's amendments to the Renewable Energy Act require that renewable energy comprise the following minimum percentages of each public utility's total retail sales to New Mexico customers:

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<sup>11</sup>NMSA 1978, §§ 62-1-1 to -7 (1909, as amended through 1993), 62-2-1 to -22 (1887, as amended through 2013), 62-3-1 to -5 (1967, as amended through 2019), 62-4-1 (1998), 62-6-4 to -28 (1941, as amended through 2018), 62-8-1 to -13-16 (1941, as amended through 2019). See *Tri-State Generation and Transmission Ass'n v. N.M. Pub. Regulation Comm'n*, 2015-NMSC-013, ¶ 8 n.1, 347 P.3d 274 (listing the foregoing statutory provisions of the "entire PUA" and noting that § 62-13-1 specifies "the range of articles in Chapter 62 that comprised the PUA in 1993.").

<sup>12</sup> NMSA 1978, §§ 62-18-1 to -23 (2019).

<sup>13</sup> NMSA 1978, §§ 62-16-1 to -10 (2004, as amended through 2019).

<sup>14</sup> NMSA 1978, § 74-2-5 (1967, as amended 2019).

- (1) 20% by January 1, 2020;
- (2) 40% by January 1, 2025;
- (3) 50% by January 1, 2030; and
- (4) 80% by January 1, 2040.

Ultimately, the REA amendments require, by January 1, 2045, that zero carbon resources supply 100% of all retail sales of electricity in New Mexico.

#### **IV. DISCUSSION**

EPE requested Commission authorization to construct, own, and operate a new approximately 228 MW natural gas-fired combustion turbine, Newman Unit 6, at EPE's existing Newman Station in northeast El Paso, Texas. EPE also requested that pursuant to Rule 580, the Commission approve EPE's certificated estimated cost for Newman Unit 6 of \$159.3 million, including \$18.2 million of AFUDC. EPE asserted that Newman Unit 6 combined with the two solar LTPPAs and the battery storage capacity resource for which EPE sought Commission approval in Case No. 19-00348-UT ("companion case"), provided the most cost-effective portfolio available through EPE's competitive bidding process to safely and reliably serve customer load over EPE's entire system while considering the economics of planned retirements versus potential life-extensions of older, inefficient units.

##### **A. EPE's Application**

Newman 6 is scheduled to be in service for the peak seasons of 2023. The Operating and Maintenance ("O&M") costs are estimated to average



approximately \$4.8 million annualized maintenance cycle costs in 2019 dollars. Once in operation, EPE intends that the fuel costs associated with Newman 6, together with any fuel savings that may be achieved, will flow through EPE's existing Fuel and Purchased Power Cost Adjustment Clause. EPE will seek base rate treatment of the capital costs and ongoing plant maintenance and operation expenses for Newman and related transmission facilities in a future general ratemaking proceeding.

Newman Unit 6 will be a Mitsubishi Hitachi Power Systems Americas G-Series Air-Cooled Simple Cycle Facility with a nameplate rating of approximately 228 MW based on the elevation of the Newman Generating Station and summer peak conditions. Newman Unit 6's operational characteristics will allow EPE to use the facility to meet peaking (meeting high demand at maximum output for a few hours in the day) and load following (operating longer hours to balance load variability) requirements. Specifically, Newman Unit 6 will have "quick-start" capability, meaning it can come online in 4.5 minutes and reach 100% load capability in under 12 minutes. Even in regular start-up mode, the facility will come online in 20 minutes and achieve full load in 35 minutes.

EPE asserts that this quick-start capability will also help EPE meet its Southwest Reserve Sharing Group ("SRSG") operating reserve requirement as a non-spinning reserve, instead of having to carry the reserves on one of its less efficient and flexible retiring units or purchase power or reserves on the market. Its operational characteristics make Newman Unit 6 well-suited to respond to the

intermittency of the growing penetration of renewable resources on EPE's system. Given its strategic location within EPE's service territory, EPE averred that Newman Unit 6 will enhance overall system reliability by providing voltage support within EPE's load area and will reduce the risk of outages due to transmission system failure. Moreover, according to EPE, incremental O&M costs will be minimized because Newman Unit 6 will use the existing O&M staff at the Newman Generating Station, and fuel costs will also be minimized because the unit will run primarily on natural gas available from an El Paso Natural Gas transmission pipeline that has provided natural gas from multiple suppliers in the Permian and San Juan basins to the Newman Generating Station since 1960.<sup>15</sup>

EPE provided testimony that Newman Unit 6's heat rate of approximately 10,101 BTU per kWh (based on information from the manufacturer) will be lower than the average heat rate of 11,960 Btu per kWh for the retiring units, EPE's modeling estimates that fuel costs will decline by approximately \$4.3 million in the unit's first full year of operation.<sup>16</sup> EPE claimed that from an environmental standpoint, Newman Unit 6 will emit nearly 95% less NO<sub>x</sub> and 50% less CO than the units slated for retirement.<sup>17</sup>

EPE asserted that the evidence shows that the construction of Newman Unit 6 will provide a net public benefit to both EPE's customers (with respect to electrical service specifically) and residents of southern New Mexico and west

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<sup>15</sup> Hawkins Direct at 7, 9.

<sup>16</sup> Schichtl Direct at 18.

<sup>17</sup> Christianson Direct at 11.

Texas generally (with respect to environmental considerations). The Application is supported by the testimonies and evidence of EPE and Staff. EPE argued that this testimony establishes that Newman Unit 6 will provide safe, reliable, and economic electric utility service to EPE's customers without unnecessary duplication or economic waste.<sup>18</sup> EPE concluded that its continued customer demand growth and impending retirement of very old natural-gas fired units (Newman Units 1 and 2 and Rio Grande Unit 7) at the end of their useful lives, combined with EPE's reserve margin requirements, mandates the addition of new generating resources, and specifically additional peak generating capacity, beginning in 2022.<sup>19</sup>

EPE alleged that Newman Unit 6 will not be duplicative; its capacity is necessary to meet forecasted load growth and replace that of EPE's much older Newman Units 1 and 2 and Rio Grande Unit 7 that are already beyond their expected useful lives and will be retired in the near future.<sup>20</sup>

EPE asserted that Newman Unit 6's impact on the rates paid by EPE customers will be minor. Once operational, inclusion of Newman Unit 6 in rates should result in a small increase in base rates coupled with a small decrease in fuel rates, with the net impact being a 1.85% increase per month for an average customer during the first full year of operation.<sup>21</sup>

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<sup>18</sup> Schichtl Direct at 12.

<sup>19</sup> Schichtl Direct at 6, 8-9.

<sup>20</sup> Schichtl Direct at 13.

<sup>21</sup> Schichtl Direct at 18-19.

## **1. Loads and Resources Analysis**

EPE currently meets its customer's electricity demand through its owned generation resources (which include thirteen gas-fired units, three uranium-fueled units, and 8 MW of solar photovoltaic ["PV"] systems) and 107 MW of solar LTPAs.<sup>22</sup> Occasionally, EPE also purchases power from wholesale suppliers under capacity and/or energy contracts.<sup>23</sup> Although these resources are currently sufficient to meet customer demand, recent planning analyses performed by EPE clearly show that in the near future, EPE asserted that it will require additional plant capacity in order to safely and reliably serve its customers. EPE uses ongoing annual planning processes to forecast its future energy demands, beginning with the development of a load forecast and analysis of the age and condition of existing resources.<sup>24</sup> EPE's load forecasts, which predict expected, upper and lower bounds for energy and peak demand, are generated for a 20-year period.<sup>25</sup> EPE claimed that the 2019 forecast supports EPE's request for a CCN in this case, confirming that EPE's load growth supports the need to add Newman Unit 6 to EPE's portfolio.<sup>26</sup>

Supply, demand, and reserve information from EPE's system is compiled into EPE's L&R analysis. EPE averred that the L&R document reflects the balance or imbalance of generating and purchase power resources and expected load,

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<sup>22</sup> Gallegos Direct at 6-7, Table OG-02.

<sup>23</sup> Gallegos Direct at 7.

<sup>24</sup> Gallegos Direct at 8-9.

<sup>25</sup> Novela Direct at 5.

<sup>26</sup> Novela Direct at 5.

considering the appropriate reserve margin and assuming no new capacity added. EPE's 2017 L&R document (based on the April 2017 load forecast, planned retirements, and the reserve margin) showed that EPE would need additional capacity with daily cycling ability starting in 2022, and that its capacity need would increase over the subsequent years.<sup>27</sup> According to EPE, the 2017 L&R document shows that EPE would need 370 MW of additional resources by summer 2023 (50 MW in 2022 and 320 MW in 2023) to meet increasing customer demand and to replace the capacity of the retiring Newman Units 1 and 2 and Rio Grande Unit 7.<sup>28</sup> EPE asserted that the latest L&R document, based on EPE's 2019 load forecast, is consistent with EPE's 2017 forecast and projects an even greater capacity need for 2022 and 2023.<sup>29</sup> Specifically, the 2019 forecast predicts that native system energy will grow from 8,602 Gigawatt-hours ("GWH") in 2018, to 9,617 GWH in 2028, and then to 11,106 GWH by 2038, for a Compound Annual Growth Rate ("CAGR") of 1.3% over the 20-year period. It also projects native system peak demand to increase from 1,929 MW in 2018 to 2,169 MW in 2028 and 2,528 MW in 2038, for a 20-year 1.4% CAGR.<sup>30</sup>

## **2. Load Forecast**

EPE is a summer peaking utility, so its system experiences a significantly higher load during the day between May and September than it experiences the

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<sup>27</sup> Gallegos Direct at 13, 18, Exhibit OG-2.

<sup>28</sup> Gallegos Direct at 13, 18, OG-2.

<sup>29</sup> Gallegos Direct at 13-14, Table OG-03, Exhibit OG-3; Novela Direct at 4.

<sup>30</sup> Novela Direct at 7, Exhibit GN-1.

rest of the year. Demand in off-peak hours during the summer decreases significantly due to diurnal temperature swings in EPE's service area. Therefore, to efficiently meet peak demand, EPE asserted that its generation must be readily available during the day in the summer and be able to cycle or completely shut down during off-peak periods (including nights, weekends and the winter) and turn on without limit as soon as needed. This decreasing load factor results from a decreasing share of energy consumption by large industrial customers (loads with higher load factors) coupled with an increasing use of refrigerated air conditioners relative to evaporative coolers (lower load factor loads). The downward load factor trend means demand is growing faster than energy, and over time, the swings in demand become more pronounced in the summer months, requiring additional generation.<sup>31</sup> The native system energy and demand data from April 2020 (when stay-at-home orders were in place in EPE's service territory) indicates that although energy decreased by 5.7% on a year-over-year basis, the native system peak demand increased by 9.8% on a year-over-year basis.

Native system peak demand, upon which reserve margin planning is based, continued to grow through both of the most recent recessionary periods. These growth trends tend to show that peak demand is especially resistant to economic downturns.<sup>32</sup>

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<sup>31</sup> Novela Direct at 23-24.

<sup>32</sup> Novela Rebuttal at 6-7.

During the pendency of this case, EPE asserted that it experienced a new record native system peak demand of 2,173 MW between the hours of 4:00 p.m. MDT and 5:00 p.m. MDT on July 13, 2020.<sup>33</sup> Before the summer of 2020, EPE had not anticipated reaching that native system peak demand until 2026 – six years from now.<sup>34</sup>

### **3. Planning Reserve Margin**

According to EPE, the planning reserve margin, or the amount of firm resources above projected peak load required to sustain system reliability in excess of project annual firm demand, is widely accepted as a necessary and prudent element of resource planning. EPE averred that it's physical location and resulting transmission import limits must be considered in EPE's long-term planning and establishment of an appropriate reserve margin.<sup>35</sup> EPE argued that it's current reserve margin of 15 percent is consistent with the 2020 minimum reserve margin thresholds in the Western Electricity Coordinating Council ("WECC"), has been used in EPE's planning processes since 2012.

EPE averred that according to E3 witness Arne Olson, the appropriate reserve margin is different for each power system, and EPE's may be higher than those of other utilities for several reasons. First, because EPE has a smaller peak load and fewer and less diverse resources, a single outage is more likely to result

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<sup>33</sup> July 22, 2020 Hearing Transcript at 708:23-25; 726:21-727:8.

<sup>34</sup> *Id.*

<sup>35</sup> Gallegos Direct at 10.

in loss-of-load.<sup>36</sup> Further, because a large share of EPE's capacity comes from a single resource (Palo Verde nuclear, in Arizona) connected to load by a long-distance transmission tie, there will be an outsized effect on loss-of-load if there is a point-of-failure at that resource or at the transmission level.<sup>37</sup> Finally, EPE is sparsely connected to the rest of the Western Interconnection, so it cannot always rely on its neighbors in emergency situations. These connections are heavily utilized to bring in Palo Verde generation, leaving little room for additional transfers, and a single transmission outage could interrupt the Palo Verde supply and any external market purchases by EPE, thus reducing the capacity contribution of these incremental purchases.<sup>38</sup>

#### **4. Retirements of Newman Units 1 and 2 and Rio Grande Unit 7**

EPE plans to retire Newman Units 1 and 2 and Rio Grande Unit 7 in 2022, at which time they will be approximately 62, 59, and 64 years old, respectively. By 2022 these conventional steam turbine units will have exceeded industry average lives for that type of technology and their initial expected useful life.<sup>39</sup> The loss of 198 MW of capacity resulting from these planned retirements was considered in the 370 MW resource requirement shown in the 2017 L&R document.<sup>40</sup>

EPE hired Burns & McDonnell, conducted an analysis to determine the estimated O&M and investment costs for extending the retirements of these units.

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<sup>36</sup> Olson Rebuttal at 26-27.

<sup>37</sup> Olson Rebuttal at 27.

<sup>38</sup> Olson Rebuttal at 27-28.

<sup>39</sup> Gallegos Direct at 14, 16; Hawkins Rebuttal at 11.

<sup>40</sup> Gallegos Direct at 16.



Based on these costs, EPE's analyses established that such extensions would not be cost-effective and would entail other risks.<sup>41</sup> There are numerous maintenance items that would be required for even one more cycle of reliable operation of these units beyond their currently planned 2022 retirements.<sup>42</sup> Retirement extensions would result in higher O&M costs coupled with declines in reliability and availability.<sup>43</sup> Burns & McDonnell found the costs per kilowatt (kW) to extend Newman Units 1 and 2 until 2037 (\$841/kW) and to extend Rio Grande Unit 7 until 2027 (\$1,337/kW) to be much higher than the base cost of Newman Unit 6 (approximately \$620/kW).<sup>44</sup>

EPE also claimed that the operational benefits of Newman Unit 6 clearly outweigh those of Newman Units 1 and 2 and Rio Grande Unit 7 for meeting load and resource balancing requirements.<sup>45</sup> Because Newman Units 1 and 2 and Rio Grande Unit 7 are older steam turbine technologies, their operating characteristics are inflexible. They were not meant for cycling during summer peak loads; they have been most reliable when turned on and left on, and cycling these units has had significant wear-and-tear impacts, increased maintenance costs, and shortened their lives.<sup>46</sup> Their start-up times are referred to in days, not minutes.<sup>47</sup> These units also have no pollution controls, which were

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<sup>41</sup> Gallegos Direct at 14.

<sup>42</sup> Hawkins Rebuttal at 6-7, Exhibits DCH-2-R, DCH-3-R.

<sup>43</sup> Gallegos Direct at 14.

<sup>44</sup> Exhibit DCH-2-R, Table 10-3, p. 10-10; Exhibit DCH-3-R, Table 10-2, p. 10-10.

<sup>45</sup> Hawkins Rebuttal at 12.

<sup>46</sup> Hawkins Direct at 8; Hawkins Rebuttal at 11.

<sup>47</sup> Hawkins Rebuttal at 11.

not required when they were originally put into service, and they consume large volumes of water.<sup>48</sup> EPE claimed that it thoroughly evaluated and analyzed the option of extending the retirement dates of Newman Units 1 and 2 and Rio Grande Unit 7 as an alternative to Newman Unit 6.

## **5. Evaluation of 2017 RFP Bids and Reviewing Portfolio Selection**

EPE first analyzed the 81 bids received from 36 different companies in the 2017 RFP (71 of which were renewable and/or battery storage proposals) to ensure they met eligibility and threshold requirements, including timeliness, payment of fee, responsiveness to RFP, operational requirements, similar project experience, site control, technology risk and financial capability. EPE then conducted a qualitative review of project development feasibility, resource reliability, operational viability and characteristics, and flexibility.<sup>49</sup> EPE further calculated the levelized cost of energy ("LCOE") of each proposal, which EPE claimed is an effective tool for ranking resources of the same technology type (solar, wind, solar plus storage, demand response, conventional combustion turbine [CT], conventional combined cycle, etc.) against each other.<sup>50</sup> The LCOE rankings and the qualitative review resulted in creation of a bidder shortlist, and those bidders were asked to submit best and final proposals.

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<sup>48</sup> Hawkins Rebuttal at 12; Christianson Direct at 11.

<sup>49</sup> Gallegos Direct at 21:1-10.

<sup>50</sup> Gallegos Direct at 21:14-23.

The best and final proposals from the shortlisted bidders were evaluated based on LCOE and re-ranked by technology types. EPE then used Strategist capacity expansion modeling software and the AURORA model, which performs production cost modeling at a much more detailed level, to evaluate the bids. Both Strategist and AURORA are widely accepted in the industry for his purpose. With the exception of solar and storage (which were limited based on operational and reliability considerations discussed below), EPE modeled all shortlisted bids in Strategist.<sup>51</sup> Proposals that did not meet EPE's total capacity need were combined with other options to create portfolios that would meet capacity requirements. Solar and solar plus storage bids were modeled in batches with varying amounts of solar only versus solar with storage to determine how to optimally apply the 300 MW of solar that may contribute to peak. EPE alleged this also involved analysis of the interrelationships of solar resources and proximity to EPE's service territory and associated transmission upgrade costs. EPE claimed that the Strategist modeling results determined the most cost-effective portfolios of resources selected by ranking them according to lowest Present Value Utility Cost from 2018 to 2037.<sup>52</sup> EPE then evaluated those portfolios to ensure they met reliability requirements such as reserve margin throughout a peak load day.<sup>53</sup> EPE concluded that the portfolio with the lowest Present Value Utility Cost that met operational requirements and the 15 percent reserve margin was selected – a

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<sup>51</sup> Gallegos Direct at 37:12-14.

<sup>52</sup> Gallegos Direct at 22:1-12, 37:14-22.

<sup>53</sup> Gallegos Direct at 36:17-19, 38: 1-3.

combination of four bids: (1) the Hecate Project 100 MW solar LTPPA, (2) the Buena Vista Project 100 MW solar plus 50 MW battery storage LTPPA, (3) the Canutillo Project 50 MW battery storage LTPPA, and (4) Newman Unit 6.

## **6. Analysis of Renewables Bid into 2017 RFP**

EPE received a large number of solar and storage bids (both combined and stand-alone) in the 2017 RFP, prompting EPE to analyze how much solar power could be reliably used to meet peak demand and load curve, and solar resources' effect of shifting the peak hour into the evening.<sup>54</sup> Solar resources do help serve EPE's daytime peak load, but as more solar resources are added to the system, the late afternoon net peak load (which can be served by solar) is reduced to the point that it is lower than the evening load at sunset (which cannot be served by stand-alone solar). Therefore, the net load at sunset becomes the new evening peak load.<sup>55</sup> EPE's analysis showed that a total of 400 MW nameplate of solar resources (including its existing 115 MW of solar) would create the new evening peak, and that only an additional 300 MW of solar would contribute to meeting peak load.<sup>56</sup>

All resources bid into the RFP were evaluated based on their respective abilities to reliably serve peak load, and therefore analyzed based on their specific performance characteristics.<sup>57</sup> Because solar power output is non-

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<sup>54</sup> Gallegos Direct at 25, l. 2-10.

<sup>55</sup> Gallegos Direct at 25, l. 10-14 and 28, l. 7-14.

<sup>56</sup> Gallegos Direct at 28:16-21.

<sup>57</sup> Gallegos Direct at 26:1-7.