



Control Number: 46831



Item Number: 193

Addendum StartPage: 0

SOAH DOCKET NO. 473-17-2686
PUC DOCKET NO. 46831

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APPLICATION OF EL PASO
ELECTRIC COMPANY TO
CHANGE RATES

§
§
§

BEFORE THE STATE OFFICE
OF
ADMINISTRATIVE HEARINGS

PUBLIC UTILITY COMMISSION
CLERK

EL PASO ELECTRIC COMPANY'S RESPONSE TO
TEXAS INDUSTRIAL ENERGY CONSUMERS'
THIRD REQUEST FOR INFORMATION
QUESTION NOS. TIEC 3-1 THROUGH TIEC 3-10
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APPLICATION OF EL PASO	§	BEFORE THE STATE OFFICE
ELECTRIC COMPANY TO	§	OF
CHANGE RATES	§	ADMINISTRATIVE HEARINGS

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QUESTION NOS. TIEC 3-1 THROUGH TIEC 3-10

TIEC 3-1:

Please explain the conceptual difference between the two 12 CP allocators, DPROD12 and DTRAN12.

RESPONSE:

As shown on TIEC 3-2 Attachment 1, the DPROD12 allocator is composed of the sum of: (1) the annual average demand by rate class multiplied by the 1 coincident peak total system load factor of 0.519255, and (2) the excess demand by rate class multiplied by 0.480745 (or 1 Minus the Load Factor). It is used to allocate account 556 (System Control and Load Dispatching).

The DTRAN12 is based on the average of the 12 coincident peak demands of each rate class and it is used to allocate account 561 (Load Dispatching).

Preparer: Adrian Hernandez

Title: Senior Rate Analyst – Rates & Regulatory Affairs

Sponsor: Adrian Hernandez

Title: Senior Rate Analyst – Rates & Regulatory Affairs

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QUESTION NOS. TIEC 3-1 THROUGH TIEC 3-10

TIEC 3-2:

Please provide workpapers, in Excel format with formulas intact, that show the derivation of the DPROD12 and DTRAN12 class allocators.

RESPONSE:

Please see TIEC 3-2 Attachment 1 for the DPROD12 and DTRAN12 class allocators.

Preparer: Enedina Soto

Title: Economist - Senior

Sponsor: George Novela

Title: Manager – Economic Research

		Coincident Demand at Source (kW)											
Line No.	Rate	Texas Rate Class	Annual Energy at Source, kWh	Energy Allocator	Oct 2015	Nov 2015	Dec 2015	Jan 2016	Feb 2016	Mar 2016	Apr 2016		
		Texas											
1	TXRT01	Residential Service	2,296,885,516	36.5904%	393,612	280,677	329,297	338,803	298,600	223,466	248,377		
2	TXRT02	Small General Service	301,435,284	4.8020%	59,669	31,390	33,921	31,411	37,072	35,620	51,136		
3	TXRT03	Residential DG Service	15,205,413	0.2422%	6,048	2,783	2,495	3,906	2,795	2,065	592		
4	TXRT07	Outdoor Recreational Lighting Service	5,775,741	0.0920%	0	6,541	5,419	4,176	5,795	5,558	0		
5	TXRT08	Street Lighting	36,103,432	0.5751%	0	8,366	8,366	8,366	8,366	8,366	0		
6	TXRT09	Traffic Signals	2,088,302	0.0333%	253	253	253	253	253	253	253		
7	TXRT11	Municipal Pumping Service	0	0.0000%	0	0	0	0	0	0	0		
8	TXRT11T	Municipal Pumping Service - TOU	172,102,511	2.7417%	23,739	23,636	20,359	18,589	17,922	17,133	21,907		
9	TXRT15	Electrolytic Refining Service	57,995,920	0.9239%	10,359	9,782	7,886	8,450	10,359	10,359	8,677		
10	TXRTWH	Off Peak Water Heating Service	9,412,542	0.1499%	647	1,445	498	1,051	1,967	617	1,600		
11	TXRT22	Irrigation Service	5,481,727	0.0873%	641	412	348	173	254	732	1,805		
12	TXRT24	General Service	1,664,816,977	26.5213%	365,992	230,547	258,379	248,517	249,283	258,795	327,520		
13	TXRT25	Large Power Service	726,294,187	11.5702%	109,959	84,341	83,112	81,932	84,651	90,043	101,202		
14	TXRT25A	Large Power Off-Peak Service	0	0.0000%	0	0	0	0	0	0	0		
15	TXRT26	Petroleum Refining Service	345,769,686	5.5083%	41,693	41,693	41,693	41,693	41,693	41,693	41,693		
16	TXRT28	Private Area Lighting Service	29,532,131	0.4705%	0	6,909	6,902	6,907	6,969	6,948	0		
17	TXRT30	Electric Furnace Rate	19,077,434	0.3039%	5,160	5,160	5,160	5,160	5,160	5,160	5,160		
18	TXRT31	Military Reservation Service	273,931,170	4.3638%	43,344	39,206	42,609	41,805	42,862	40,996	39,239		
19	TXRT34	Cotton Gin Service	1,742,382	0.0278%	25	908	895	836	11	11	3		
20	TXRT41	City and County Service	313,639,684	4.9964%	59,723	40,702	43,851	38,235	42,091	39,792	48,908		
21		Texas Firm	6,277,290,041	100.0000%	1,120,865	814,751	891,444	880,265	856,104	787,609	898,072		
22		Texas Non-Firm	376,724,045		52,452	40,604	40,336	25,283	45,612	39,974	41,730		
23		Total Texas	6,654,014,086		1,173,317	855,355	931,780	905,548	901,716	827,582	939,802		

EL PASO ELECTRIC COMPANY
TEXAS CLASS ALLOCATION FACTORS
DPROD12 and DTRAN12 ALLOCATORS
FOR THE PERIOD ENDED SEPTEMBER 30, 2016

SOAH Docket No. 473-17-2686
PUC Docket no. 46831
TIEC's 3RD, Q. No. TIEC 3-2
Attachment 1
Page 2 of 2

Coincident Demand at Source (kW)												
Line No.	Rate	Texas Rate Class	May 2016	Jun 2016	Jul 2016	Aug 2016	Sep 2016	12-CP Average Demand, kW	Annual Average Demand, kW	Excess Demand, kW	DPROD12	DTRAN12
Texas												
1	TXRT01	Residential Service	435,415	629,916	609,510	579,622	483,917	404,268	261,485	142,783	38.0055%	37.6171%
2	TXRT02	Small General Service	59,006	83,246	82,684	67,833	75,337	54,027	34,316	19,711	5.1172%	5.0272%
3	TXRT03	Residential DG Service	1,924	3,266	4,532	5,672	4,951	3,419	1,731	1,688	0.3505%	0.3182%
4	TXRT07	Outdoor Recreational Lighting Service	0	0	0	0	0	2,291	658	1,633	0.2652%	0.2132%
5	TXRT08	Street Lighting	0	0	0	0	0	3,486	4,110	0	0.2986%	0.3244%
6	TXRT09	Traffic Signals	253	253	253	253	253	253	238	15	0.0193%	0.0236%
7	TXRT11	Municipal Pumping Service	0	0	0	0	0	0	0	0	0.0000%	0.0000%
8	TXRT11T	Municipal Pumping Service - TOU	22,156	28,908	24,081	20,489	25,012	21,994	19,593	2,402	1.7433%	2.0466%
9	TXRT15	Electrolytic Refining Service	9,139	10,095	10,165	1,511	10,024	8,901	6,602	2,298	0.7857%	0.8282%
10	TXRTWH	Off Peak Water Heating Service	1,690	1,354	514	508	1,013	1,075	1,072	4	0.0784%	0.1001%
11	TXRT22	Irrigation Service	1,243	1,177	1,461	1,157	705	842	624	218	0.0744%	0.0784%
12	TXRT24	General Service	341,868	406,837	387,551	394,944	379,288	320,793	189,528	131,265	31.2440%	29.8498%
13	TXRT25	Large Power Service	105,170	113,400	115,973	115,177	109,145	99,509	82,684	16,825	8.2474%	9.2593%
14	TXRT25A	Large Power Off-Peak Service	0	0	0	0	0	0	0	0	0.0000%	0.0000%
15	TXRT26	Petroleum Refining Service	41,693	41,693	41,693	41,693	41,693	41,693	39,364	2,330	3.1703%	3.8795%
16	TXRT28	Private Area Lighting Service	0	0	0	0	0	2,886	3,362	0	0.2443%	0.2686%
17	TXRT30	Electric Furnace Rate	5,160	5,160	5,160	4,613	5,160	5,114	2,172	2,943	0.5495%	0.4759%
18	TXRT31	Military Reservation Service	43,344	43,344	43,344	43,344	43,344	42,232	31,185	11,047	3.7364%	3.9297%
19	TXRT34	Cotton Gin Service	2	15	14	14	13	229	198	31	0.0185%	0.0213%
20	TXRT41	City and County Service	54,380	86,813	85,898	94,738	105,015	61,679	35,706	25,973	6.0517%	5.7392%
21		Texas Firm	1,122,446	1,455,478	1,412,835	1,371,570	1,284,870	1,074,692	714,628	361,165	100.0000%	100.0000%
22		Texas Non-Firm	46,142	60,323	53,525	39,183	60,252					
23		Total Texas	1,168,588	1,515,800	1,466,360	1,410,753	1,345,122					
										Load Factor = 0.519255		
										Minus Load Factor = 0.480745		

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QUESTION NOS. TIEC 3-1 THROUGH TIEC 3-10

TIEC 3-3:

Please provide all source documents for the inputs used in the calculation of the DPROD12 and DTRAN12 class allocators in Excel format, or cite to where in the Company's filing these Excel format documents are located. These documents should include the CP demands of each customer class for each month included in the allocator calculations.

RESPONSE:

Please see TIEC 3-3 Attachment 1 for the monthly coincident peak (CP) demands for each customer class by voltage level used in the calculation of the DPROD12 and DTRAN12 class allocators.

Also, see response to TIEC 3-2 Attachment 1 for class allocation calculations.

Preparer: Enedina Soto

Title: Economist - Senior

Sponsor: George Novela

Title: Manager – Economic Research

EL PASO ELECTRIC COMPANY
ADJUSTED COINCIDENT DEMAND AT SOURCE
FOR THE PERIOD ENDED SEPTEMBER 30, 2016

No Rate & Voltage	Texas Coincident Demand at Source	October 2015	November 2015	December 2015	January 2016	February 2016	March 2016
1 TXRT01 - S	Residential Service - S	393,612	280,677	329,297	338,803	298,600	223,466.
2 TXRT02 - S	Small Commercial Service - S	59,669	31,390	33,921	31,411	37,072	35,620
3 TXRT03 - S	Residential Distributed Generation - S	6,048	2,783	2,495	3,906	2,795	2,065
4 TXRT07 - S	Outdoor Recreational Lighting Service - S	0	6,365	5,271	3,949	5,508	5,326
5 TXRT07 - P	Outdoor Recreational Lighting Service - P	0	176	148	227	287	232
6 TXRT08 - S	Street Lighting	0	8,366	8,366	8,366	8,366	8,366
7 TXRT09 - S	Traffic Signals	253	253	253	253	253	253
8 TXRT11 - S	Municipal Pumping Service - S	0	0	0	0	0	0
9 TXRT11 - S TOU	Municipal Pumping Service TOU - S	17,756	17,503	14,395	12,290	11,201	10,399
10 TXRT11 - P TOU	Municipal Pumping Service TOU - P	5,983	6,132	5,964	6,299	6,721	6,735
11 TXRT15 - Sta	Electrolytic Refining Service - Sta	10,359	9,782	7,886	8,450	10,359	10,359
12 TXRT15/A-Sta	Curtailable Electrolytic Refining Service - Sta	260	0	0	0	1,545	2,344
13 TXRTWH	Water Heating Service	647	1,445	498	1,051	1,967	617
14 TXRT22 - S	Irrigation Service - S	641	412	348	173	254	732
15 TXRT24 - S	General Service - S	359,257	225,759	253,148	242,458	243,638	254,069
16 TXRT24 - P	General Service - P	6,735	4,788	5,231	6,059	5,645	4,727
17 TXRT25 - S	Large Power Service - S	80,851	59,621	61,581	58,794	60,090	64,147
18 TXRT25 - P	Large Power Service - P	27,560	23,172	19,983	21,591	23,013	24,348
19 TXRT25 - T/115	Large Power Service - T	1,548	1,548	1,548	1,548	1,548	1,548
20 TXRT26 - T/115	Petroleum Refining Service - T	41,693	41,693	41,693	41,693	41,693	41,693
21 TXRT28 - S	Private Area Lighting Service - S	0	6,909	6,902	6,907	6,969	6,948
22 TXRT30 - T/69	Electric Furnace Rate - T/69	1,360	1,880	1,439	2,845	1,496	1,469
23 TXRT30 - T/115	Electric Furnace Rate - T/115	3,800	3,280	3,721	2,315	3,664	3,691
24 TXRT31 - T/115	Military Reservation Service - T.	43,344	39,206	42,609	41,805	42,862	40,996
25 TXRT34 - S	Cotton Gin Service - S	25	908	895	836	11	11
26 TXRT38 - P	Interruptible Service Rate - Large Power - P	4,565	2,572	2,436	2,690	2,372	2,862
27 TXRT38 - 25/115	Interruptible Power Rate - Transmission Service	2,866	4,225	4,136	3,289	2,420	2,308
28 TXRT38 - 26/115	Interruptible Power Rate - Petroleum Refining	8,819	7,749	7,392	7,571	8,329	7,392
29 TXRT38 - 30/115	Interruptible Power Service - Electric Furnace	25,109	26,057	26,371	11,733	30,946	25,068
30 TXRT38 - 31/115	Interruptible Power Service - Military Service.	10,833	0	0	0	0	0
31 TXRT41 - 24 S	City and County Service - S	51,510	34,928	37,980	32,768	36,246	34,395
32 TXRT41 - 24 P	City and County Service - P	8,212	5,773	5,871	5,467	5,845	5,397
	Total Texas	1,173,317	855,355	931,780	905,548	901,716	827,582

EL PASO ELECTRIC COMPANY
ADJUSTED COINCIDENT DEMAND AT SOURCE
FOR THE PERIOD ENDED SEPTEMBER 30, 2016

No	Rate & Voltage	Texas Coincident Demand at Source	April 2016	May 2016	June 2016	July 2016	August 2016	September 2016
1	TXRT01 - S	Residential Service - S	248,377	435,415	629,916	609,510	579,622	483,917
2	TXRT02 - S	Small Commercial Service - S	51,136	59,006	83,246	82,684	67,833	75,337
3	TXRT03 - S	Residential Distributed Generation - S	592	1,924	3,266	4,532	5,672	4,951
4	TXRT07 - S	Outdoor Recreational Lighting Service - S	0	0	0	0	0	0
5	TXRT07 - P	Outdoor Recreational Lighting Service - P	0	0	0	0	0	0
6	TXRT08 - S	Street Lighting	0	0	0	0	0	0
7	TXRT09 - S	Traffic Signals	253	253	253	253	253	253
8	TXRT11 - S	Municipal Pumping Service - S	0	0	0	0	0	0
9	TXRT11 - S TOU	Municipal Pumping Service TOU - S	15,789	16,543	21,492	19,192	15,857	19,708
10	TXRT11 - P TOU	Municipal Pumping Service TOU - P	6,119	5,613	7,416	4,889	4,632	5,304
11	TXRT15 - Sta	Electrolytic Refining Service - Sta	8,677	9,139	10,095	10,165	1,511	10,024
12	TXRT15/A-Sta	Curtailable Electrolytic Refining Service - Sta	0	0	0	0	0	0
13	TXRTWH	Water Heating Service	1,600	1,690	1,354	514	508	1,013
14	TXRT22 - S	Irrigation Service - S	1,805	1,243	1,177	1,461	1,157	705
15	TXRT24 - S	General Service - S	321,881	335,314	398,697	379,358	386,220	371,352
16	TXRT24 - P	General Service - P	5,639	6,554	8,140	8,193	8,724	7,936
17	TXRT25 - S	Large Power Service - S	74,341	75,277	82,175	83,712	82,992	79,384
18	TXRT25 - P	Large Power Service - P	25,312	28,344	29,676	30,713	30,637	28,213
19	TXRT25 - T/115	Large Power Service - T	1,548	1,548	1,548	1,548	1,548	1,548
20	TXRT26 - T/115	Petroleum Refining Service - T	41,693	41,693	41,693	41,693	41,693	41,693
21	TXRT28 - S	Private Area Lighting Service - S	0	0	0	0	0	0
22	TXRT30 - T/69	Electric Furnace Rate - T/69	1,576	1,182	1,595	1,671	4,613	1,251
23	TXRT30 - T/115	Electric Furnace Rate - T/115	3,584	3,978	3,565	3,489	0	3,909
24	TXRT31 - T/115	Military Reservation Service - T	39,239	43,344	43,344	43,344	43,344	43,344
25	TXRT34 - S	Cotton Gin Service - S	3	2	15	14	14	13
26	TXRT38 - P	Interruptible Service Rate - Large Power - P	3,665	7,912	8,115	5,951	8,713	6,822
27	TXRT38 - 25/115	Interruptible Power Rate - Transmission Service	3,378	2,955	3,390	637	3,456	3,155
28	TXRT38 - 26/115	Interruptible Power Rate - Petroleum Refining	9,042	8,552	8,462	8,240	8,552	8,284
29	TXRT38 - 30/115	Interruptible Power Service - Electric Furnace	25,644	24,329	22,910	19,565	0	29,560
30	TXRT38 - 31/115	Interruptible Power Service - Military Service	0	2,394	17,446	19,133	18,462	12,430
31	TXRT41 - 24 S	City and County Service - S	41,730	46,415	78,126	77,377	85,940	96,202
32	TXRT41 - 24 P	City and County Service - P	7,177	7,966	8,687	8,521	8,798	8,813
		Total Texas	939,802	1,168,588	1,515,800	1,466,360	1,410,753	1,345,122

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QUESTION NOS. TIEC 3-1 THROUGH TIEC 3-10

TIEC 3-4:

Please indicate the day and hour of each month's coincident peak included in the DPROD12 and DTRAN12 calculations.

RESPONSE:

Below are the dates and times of each month's coincident peak used in the DPROD12 and DTRAN12 calculations:

- October 1, 2015 @ 16:00
- November 30, 2015 @ 20:00
- December 15, 2015 @ 20:00
- January 4, 2016 @ 20:00
- February 2, 2016 @ 20:00
- March 2, 2016 @ 20:00
- April 22, 2016 @ 20:00
- May 13, 2016 @ 16:00
- June 23, 2016 @ 16:00
- July 14, 2016 @ 16:00
- August 8, 2016 @ 16:00
- September 21, 2016 @ 16:00

Please note, all hours are in MST (Mountain Standard Time).

Prepared: Enedina Soto

Title: Economist - Senior

Sponsor: George Novela

Title: Manager – Economic Research

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QUESTION NOS. TIEC 3-1 THROUGH TIEC 3-10

TIEC 3-5:

Please provide Mr. Schichtl's Exhibit JS-2, and all supporting workpapers, in Excel format with formulas intact.

RESPONSE:

Please see EPE's response to FMI 1-2.

Preparer: Curtis Hutcheson

Title: Regulatory Case Manager-Principal

Sponsor: James Schichtl

Title: Vice President-Regulatory Affairs

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QUESTION NOS. TIEC 3-1 THROUGH TIEC 3-10

TIEC 3-6:

Does the Company routinely take its local generating units off-line for major planned overhauls? If so, please explain the types of maintenance activities typically performed during major planned overhauls, and the typical frequency and duration of major planned overhauls for EPE's different types of local generating units.

RESPONSE:

Yes, the Company routinely takes its local generating units off-line for major planned overhauls. Please see the direct testimony of EPE witness Andres Ramirez's at page 26, lines 8 through 11.

EPE has an assorted fleet of different types of gas and steam turbines. While not all inspections are identical, the major category of inspections and maintenance activities for a steam turbine major overhaul can be, but are not limited to, the following:

- Disassembly of turbine;
- Clean and inspect rotating and stationary components using different techniques such as dye penetrant and magnetic particle inspection and repair or replace as necessary;
- Inspect bearings;
- Inspect pumps;
- Disassembly of major valves, inspect and repair as needed;
- Disassembly of generator;
- Electrically inspect and test generator;
- Make repairs based off of findings from inspections; and
- Reassemble the units.

For a gas turbine major overhaul, repair activities would be items such as:

- Inspect and repair as necessary the compressor section;
- Inspect and repair the combustor section;
- Inspect and repair the turbine section; and
- Inspect and test the generator.

The typical frequency between major turbine inspections is 60,000 hours for steam turbines, 48,000 hours for a heavy frame gas turbines, and 50,000 hours for an aeroderivative gas turbine.

The typical duration for a plant major outage depends on the type of turbine and the scope of repair work needed. However, a standard that EPE uses for outage durations is as follows for the different turbines in EPE's fleet:

- Steam turbine major outages average 84 days;
- 7EA (Newman Unit 5) gas turbine major outages average 42 days;
- 501B (Newman Unit 4) gas turbine major outages average 56 days; and
- Aeroderivative (LMS-100) major outages average 3-7 days with the use of rotatable components.

Preparer: M. Martin Lopez

Title: Director-Generation Operations

Sponsor: Andrés R. Ramirez

Title: Vice President-Power Generation

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QUESTION NOS. TIEC 3-1 THROUGH TIEC 3-10

TIEC 3-7:

Are major planned overhauls routinely performed on the Palo Verde generating units? If so, please explain the types of maintenance activities typically performed during major planned overhauls, and the typical frequency and duration of major planned overhauls for Palo Verde.

RESPONSE:

“Major planned overhaul” (a term commonly understood to apply to fossil-fired generation plants) activities are undertaken during planned refueling outages. Palo Verde Nuclear Generating Station conducts refueling outages on an 18 month per unit cycle frequency and a typical duration of 30 days. Please see Schedule H-6.1 for the historical and planned outage schedule. For a list of frequently performed “major overhaul” maintenance activities, please see below:

- Low/High Pressure turbine inspections and replacement/repair of degraded components as necessary (Every 9 years);
- Main Generator/Turbine testing (Every Outage);
- Low Pressure turbine blade inspection (Every 4.5 years);
- All LP rotors have been replaced after approximately 20+ years of run time

Preparer: Nadia Powell

Title: Director – Remote Asset Management

Sponsor: John Cadogan

Title: Senior Vice President-Site Operations-
PVNGS

SOAH DOCKET NO. 473-17-2686
PUC DOCKET NO. 46831

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

EL PASO ELECTRIC COMPANY'S RESPONSE TO
TEXAS INDUSTRIAL ENERGY CONSUMERS'
THIRD REQUEST FOR INFORMATION
QUESTION NOS. TIEC 3-1 THROUGH TIEC 3-10

TIEC 3-8:

For each year 2011 through 2016, please provide in Excel format, by generating unit and FERC account, the actual major overhaul expense incurred, on a Total Company and Texas jurisdictional basis. If actual data is not yet available for 2016, please provide the Company's best estimate. For the Palo Verde units, the Total Company amount should reflect EPE's share of costs.

RESPONSE:

Please see TIEC 3-8 Attachment 1 for the actual major overhaul expense incurred for local generating units and TIEC 3-8 Attachment 2 Confidential for Palo Verde Nuclear Generating Station, on a Total Company and Texas jurisdictional basis for each year 2011 through 2016.

Allocators and factors are included within the attached table as currently presented in the Texas cost of service.

Preparer: Monica L. Brady

Title: Manager-Financial Systems and Budget

Sponsor: Andres R. Ramirez
Rene F. Gonzalez

Title: Vice President-Power Generation
Senior Rate Analyst – Rates & Regulatory
Affairs

(a)		(b)	(c)	(d)	(e)	(f)	(g)		
Total Company		2011	2012	2013	2014	2015	2016	Allocator	Factor
Line No.	FERC Acct Description								
Major Overhaul Expense									
Newman 2									
1	505000 Electric Expenses	-	-	-	9,329	-	-	E1ENERGY	78.47%
2	512000 Maintenance of Boiler Plant	-	-	118	-	-	-	E1ENERGY	78.47%
3	513000 Maintenance of Electric Plant	-	-	1,891,066	1,088,688	124,274	-	E1ENERGY	78.47%
4	Total Newman 2 Expense	\$ -	\$ -	\$ 1,891,184	\$ 1,098,017	\$ 124,274	\$ -		
Newman 4									
5	507000 Rents	-	-	-	497	-	-	D1PROD	81.63%
6	510000 Maintenance Supervision & Engineering	106	-	-	-	-	-	D1PROD	81.63%
7	512000 Maintenance of Boiler Plant	177,872	(1,067)	-	-	-	-	D1PROD	81.63%
8	513000 Maintenance of Electric Plant	2,054,892	160,918	171	728,003	40,064	-	D1PROD	81.63%
9	Total Newman 4 Expense	\$ 2,232,870	\$ 159,851	\$ 171	\$ 728,500	\$ 40,064	\$ -		
Rio Grande 8									
10	505000 Electric Expenses	-	722	-	-	-	-	E1ENERGY	78.47%
11	510000 Maintenance Supervision & Engineering	-	29,908	-	-	-	-	D1PROD	81.63%
12	512000 Maintenance of Boiler Plant	38,583	835,775	2,392	-	-	-	D1PROD	81.63%
13	513000 Maintenance of Electric Plant	2,557	1,845,707	-	(14,448)	-	-	D1PROD	81.63%
14	Total Rio Grande 8 Expense	\$ 41,140	\$ 2,712,112	\$ 2,392	\$ (14,448)	\$ -	\$ -		
15	Total Major Overhaul Expense	\$ 2,274,010	\$ 2,871,963	\$ 1,893,747	\$ 1,812,069	\$ 164,338	\$ -		

Texas Jurisdiction		(a)	(b)	(c)	(d)	(e)	(f)	(g)
Line	FERC	Description	2011	2012	2013	2014	2015	2016
No	Acct.							
Major Overhaul Expense								
Newman 2								
1	505000	Electric Expenses	-	-	-	7,321	-	-
2	512000	Maintenance of Boiler Plant	-	-	93	-	-	-
3	513000	Maintenance of Electric Plant	-	-	1,483,985	854,331	97,522	-
4		Total Newman 2 Expense	\$ -	\$ -	\$ 1,484,077	\$ 861,652	\$ 97,522	\$ -
Newman 4								
5	507000	Rents	-	-	-	406	-	-
6	510000	Maintenance Supervision & Engineering	87	-	-	-	-	-
7	512000	Maintenance of Boiler Plant	145,198	(871)	-	-	-	-
8	513000	Maintenance of Electric Plant	1,677,419	131,358	140	594,272	32,704	-
9		Total Newman 4 Expense	\$ 1,822,703	\$ -	\$ 130,487	\$ 594,678	\$ 32,704	\$ -
Rio Grande 8								
10	505000	Electric Expenses	-	567	-	-	-	-
11	510000	Maintenance Supervision & Engineering	-	24,414	-	-	-	-
12	512000	Maintenance of Boiler Plant	31,495	682,247	1,953	-	-	-
13	513000	Maintenance of Electric Plant	2,087	1,506,660	-	(11,794)	-	-
14		Total Rio Grande 8 Expense	\$ 33,583	\$ 2,213,888	\$ 1,953	\$ (11,794)	\$ -	\$ -
15		Total Major Overhaul Expense	\$ 1,856,286	\$ 2,344,375	\$ 1,486,170	\$ 1,444,536	\$ 130,227	\$ -

This schedule does not include expenses for Four Corners through the time of sale in July 2016. EPE is not requesting recovery of the Four Corners costs in this proceeding.

*Allocation factors based on EPE's current Texas rate case, Docket No. 46831

PUBLIC

TIEC 3-8 Attachment 2 is a CONFIDENTIAL and/or HIGHLY SENSITIVE PROTECTED MATERIALS attachment.

SOAH DOCKET NO. 473-17-2686
PUC DOCKET NO. 46831

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TIEC 3-9:

For the unadjusted and adjusted Test Year separately, please provide in Excel format, by generating unit and FERC account, the major overhaul expense included in this case, on a Total Company and Texas jurisdictional basis. For the Palo Verde units, the Total Company amount should reflect EPE's share of costs.

RESPONSE:

EPE did not incur major overhaul expense during the unadjusted and adjusted test year for EPE's local units. Please see TIEC 3-9 Attachment 1 for Palo Verde major overhaul unadjusted and adjusted expenses.

Preparer: Monica L. Brady M. Martin Lopez	Title: Manager-Financial Systems and Budget Director-Generation Operations
Sponsor: Andres R. Ramirez	Title: Vice President-Power Generation

Palo Verde Major Overhaul Expense - Total Company ÉPE

Unit 1	FERC	2015	2016
Main Generator Major Inspection			
Boresonic Testing			
HP Turbine	530		
HP Turbine - Main Turb Governor	530		
LP 'A' Turbine	530		
LP 'B' Turbine	530		230,857
LP 'C' Turbine	530		
Unit 2			
Main Generator Major Inspection	530		
Boresonic Testing			
HP Turbine	530		
HP Turbine - Main Turb Governor	530		
LP 'A' Turbine	530	227,724	
LP 'B' Turbine	530		
LP 'C' Turbine	530		
Total		227,724	230,857

Palo Verde Major Overhaul Expense - Texas Jurisdictional adjusted/unadjusted

Unit 1	FERC	2015	2016	Allocator	Factor
Main Generator Major Inspection					
Boresonic Testing					
HP Turbine	530				
HP Turbine - Main Turb Governor	530				
LP 'A' Turbine	530				
LP 'B' Turbine	530		181,162	E1ENERGY	78.47%
LP 'C' Turbine	530				
Unit 2					
Main Generator Major Inspection	530				
Boresonic Testing					
HP Turbine	530				
HP Turbine - Main Turb Governor	530				
LP 'A' Turbine	530	178,703		E1ENERGY	78.47%
LP 'B' Turbine	530				
LP 'C' Turbine	530				
Total		178,703	181,162		

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TIEC 3-10:

For each year 2017 through 2020, please provide in Excel format, by generating unit and FERC account, the projected major overhaul expense, on a Total Company and Texas jurisdictional basis. For the Palo Verde units, the Total Company amount should reflect EPE's share of costs.

RESPONSE:

Please see TIEC 3-10 Attachment 1 Confidential for the projected major overhaul expense, on a Total Company and Texas jurisdictional basis for the local generation units.

Please refer to TIEC 3-8 Attachment 2 for the projected major overhaul expense, on a Total Company and Texas jurisdictional basis for the Palo Verde Nuclear Generating Station units.

The expenses included in the attachments are allocated to the Texas Jurisdiction with the allocation factors as currently presented in the Texas cost of service.

Preparer: Chad Kline	Title: Manager – Outages & Generation Projects
Sponsor: Andres R. Ramirez	Title: Vice President-Power Generation
John Cadogan	Senior Vice President-Site Operations-
	PVNGS
Rene Gonzales	Senior Rate Analyst – Rates & Regulatory
	Affairs

PUBLIC

TIEC 3-10 Attachment 1 is a CONFIDENTIAL and/or HIGHLY SENSITIVE PROTECTED MATERIALS attachment.