PVNGS UNIT #3 MONTHLY OPERATING WORKSHEET
December 2017

		January 2017	February 2017	March 2017	April 2017	May 2017	June 2017	July 2017	August 2017	September 2017	October 2017	November 2017	December 2017
1	Hours in Month (HRS)	744	672	744	720	744	720	744	744	720	744	720	744
2	Generator On-Line (HRS)	744.0	672.0	744.00	720.00	624.12	705.73	744.00	744.00	720.00	744.00	720.00	744.00
3	Unit Reserve (HRS)	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	Adjusted Net (MWHe)	993,425.34	895,074.00	989,113.26	953,546.63	709,891.22	910,719.13	971,889.10	973,996.31	947,431.91	983,918.23	954,324.67	990,251.75
13	Net Max Depend Cap (MW)	1312	1312	1312	1312	1312	1312	1312	1312	1312	1312	1312	1312
18	Capacity Factor (MDC) (%)	101.8%	101.5%	101.3%	100.9%	72.7%	96.4%	99.6%	99.8%	100.3%	100.8%	101.0%	101.4%
20	Equiv Avail Factor (%)	99.7%	99.4%	99.3%	98.9%	72.1%	94.7%	97.7%	97.9%	98.4%	98.9%	99.0%	99.4%
35	Equiv Unit Derated Hrs	1.71	2.09	2.60	4.87	83.93	17.61	5.20	5.19	1.89	2.02	2.63	2.37
36	Equiv Season Derated Hrs	0.53	1.81	2.47	2.85	3.93	6.59	11.58	10.21	9.68	6.27	4.59	2.32
37	Equiv Forced Derated Hrs	1.05	0.95	1.05	1.02	80.25	13.11	1.05	1.06	1.01	1.04	1.03	0.95
	EAF- Calculation	99.7%	99.4%	99.3%	98.9%	72.1%	94.7%	97.7%	97.9%	98.4%	98.9%	99.0%	99.4%
	Cap Factor (MDC) Calculation	101.8%	101.5%	101.3%	100.9%	72.7%	96.4%	99.6%	99.8%	100.3%	100.8%	101.0%	101.4%

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PVNGS UNIT #1 MONTHLY OPERATING WORKSHEET
December 2018

		January 2018	February 2018	March 2018	April 2018	May 2018	June 2018	July 2018	August 2018	September 2018	October 2018	November 2018	December 2018
1	Hours in Month (HRS)	744	672	744	720	744	720	744	744	720	744	720	744
2	Generator On-Line (HRS)	744.00	590.82	744.00	720.00	744.00	720.00	720.37	744.00	720.00	744.00	720.00	744.00
3	Unit Reserve (HRS)	0	0	0	0	0	0	0	0	0.0	0	0	0
9	Adjusted Net (MWHe)	995,289.60	759,808.01	992,317.98	821,589.83	990,348.25	951,141.71	839,991.94	976,824.28	950,843.10	986,854.77	961,142.04	994,726.52
13	Net Max Depend Cap (MW)	1311.0	1311.0	1311.0	1311.0	1311.0	1311	1311	1311	1311	1311	1311.0	1311
18	Capacity Factor (MDC) (%)	102.0%	86.2%	101.7%	87.0%	101.5%	100.8%	86.1%	100.1%	100.7%	101.2%	101.8%	102.0%
20	Equiv Avail Factor (%)	100.0%	84.9%	99.5%	85.8%	99.4%	98.7%	84.9%	98.1%	98.7%	99.1%	99.8%	99.9%
35	Equiv Unit Derated Hrs	1.32	21.11	4.25	99.42	0.97	4.10	75.77	1.72	0.88	0.83	1.15	1.35
36	Equiv Season Derated Hrs	-0.95	-0.63	-0.37	3.11	3.79	5.46	12.96	12.28	8.62	5.59	0.10	-0.58
37	Equiv Forced Derated Hrs	0.00	19.85	1.34	97.75	0.00	1.93	73.23	0.05	0.00	0.00	0.00	0.00
	EAF- Calculation	100.0%	84.9%	99.5%	85.8%	99.4%	98.7%	84.9%	98.1%	98.7%	99.1%	99.8%	99.9%
	Cap Factor (MDC) Calculation	102.0%	86.2%	101.7%	87.0%	101.5%	100.8%	86.1%	100.1%	100.7%	101.2%	101.8%	102.0%

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December 2018

		January 2018	February 2018	March 2018	April 2018	May 2018	June 2018	July 2018	August 2018	September 2018	October 2018	November 2018	December 2018
1	Hours in Month (HRS)	744	672	744	720	744	720	744	744	720	744	720	744
2	Generator On-Line (HRS)	744.00	672.00	744.00	720.00	661.08	720.00	744.00	744.00	720.00	120.00	0.00	634.73
3	Unit Reserve (HRS)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	Adjusted Net (MWHe)	999,092.98	902,468.30	996,444.93	959,689.91	852,902.44	951,788.54	978,808.82	977,194.72	914,348.98	135,990.55	0.00	789,296.31
13	Net Max Depend Cap (MW)	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314
18	Capacity Factor (MDC) (%)	102.2%	102.2%	101.9%	101.4%	87.2%	100.6%	100.1%	100.0%	96.6%	13.9%	0.0%	80.7%
20	Equiv Avail Factor (%)	100.2%	100.3%	100.0%	99.6%	85.9%	99.0%	98.3%	98.2%	95.1%	14.2%	0.0%	79.8%
35	Equiv Unit Derated Hrs	0.56	0.21	1.28	2.44	20.69	2.92	0.87	0.33	25.25	12.92	0.00	41.51
36	Equiv Season Derated Hrs	-1.95	(1.95)	(1.21)	0.76	1.22	4.43	11.74	13.32	10.19	1.27	0.00	(0.13)
37	Equiv **Forced** Derated Hrs	0.00	0.00	0.63	1.57	19.61	0.08	0.00	0.00	17.35	0.00	0.00	0.37
	EAF- Calculation	100.2%	100.3%	100.0%	99.6%	85.9%	99.0%	98.3%	98.2%	95.1%	14.2%	0.0%	79.8%
	Cap Factor (MDC) Calculation	102.2%	102.2%	101.9%	101.4%	87.2%	100.6%	100.1%	100.0%	96.6%	13.9%	0.0%	80.7%

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					U3R20	U3R20							
		January 2018	**February 2018**	**March 2018**	**April 2018**	**May 2018**	**June 2018**	**July 2018**	**August 2018**	**September 2018**	**October 2018**	**November 2018**	**December 2018**
1	Hours in Month (HRS)	744	672	744	720	744	720	744	744	720	744	720	744
2	Generator On-Line (HRS)	744.0	672.0	744.00	143.95	633.43	647.20	732.53	744.00	720.00	744.00	720.00	744.00
3	Unit Reserve (HRS)	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	Adjusted Net (MWHe)	989,647.81	893,775.20	988,662.90	181,326.26	787,002.63	847,367.63	911,508.40	969,365.09	942,363.19	978,790.90	952,141.97	985,496.10
13	Net Max Depend Cap (MW)	1312	1312	1312	1312	1312	1312	1312	1312	1312	1312	1312	1312
18	Capacity Factor (MDC) (%)	101.4%	101.4%	101.3%	19.2%	80.6%	89.7%	93.4%	99.3%	99.8%	100.3%	100.8%	101.0%
20	Equiv Avail Factor (%)	99.3%	99.3%	99.3%	19.3%	79.6%	88.5%	91.9%	97.4%	97.8%	98.4%	98.8%	98.9%
35	Equiv Unit Derated Hrs	2.62	1.97	1.56	3.88	35.23	1.61	34.33	2.32	2.53	3.25	3.12	4.45
36	Equiv Season Derated Hrs	2.79	2.85	4.00	1.23	5.96	8.70	14.52	16.69	13.04	8.85	5.20	3.53
37	Equiv Forced Derated Hrs	0.95	0.00	0.26	0.00	0.00	0.00	29.31	0.00	0.00	0.06	0.00	0.00
	EAF- Calculation	99.3%	99.3%	99.3%	19.3%	79.6%	88.5%	91.9%	97.4%	97.8%	98.4%	98.8%	98.9%
	Cap Factor (MDC) Calculation	101.4%	101.4%	101.3%	19.2%	80.6%	89.7%	93.4%	99.3%	99.8%	100.3%	100.8%	101.0%

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December 2019

					U1R21	U1R21							
		January 2019	February 2019	March 2019	April 2019	May 2019	June 2019	July 2019	August 2019	September 2019	October 2019	November 2019	December 2019
1	Hours in Month (HRS)	744	672	744	720	744	720	744	744	720	744	720	744
2	Generator On-Line (HRS)	744.00	672.00	744.00	120.00	547.37	720.00	744.00	744.00	720.00	744.00	720.00	744.00
3	Unit Reserve (HRS)	0	0	0	0	0	0	0	0	0.0	0	0	0
9	Adjusted Net (MWHe)	994,351.63	898,111.47	992,691.66	152,861.86	671,818.20	953,457.72	980,065.07	977,512.86	949,582.29	991,218.78	959,214.89	994,281.81
13	Net Max Depend Cap (MW)	1311.0	1311.0	1311.0	1311.0	1311.0	1311	1311	1311	1311	1311	1311.0	1311
18	Capacity Factor (MDC) (%)	101.9%	101.9%	101.8%	16.2%	68.9%	101.0%	100.5%	100.2%	100.6%	101.6%	101.6%	101.9%
20	Equiv Avail Factor (%)	99.8%	99.8%	99.6%	16.3%	68.2%	98.9%	98.3%	98.1%	98.6%	99.6%	99.6%	99.9%
35	Equiv Unit Derated Hrs	1.65	1.60	1.41	1.87	37.55	2.46	2.64	3.30	1.44	0.60	1.90	0.63
36	Equiv Season Derated Hrs	0.05	-0.33	1.48	0.52	2.25	5.81	9.64	10.64	8.82	2.32	0.87	0.26
37	Equiv Forced Derated Hrs	0.00	0.03	0.41	0.30	0.55	0.04	0.00	0.64	0.01	0.00	0.10	0.00
	EAF- Calculation	99.8%	99.8%	99.6%	16.3%	68.2%	98.9%	98.3%	98.1%	98.6%	99.6%	99.6%	99.9%
	Cap Factor (MDC) Calculation	101.9%	101.9%	101.8%	16.2%	68.9%	101.0%	100.5%	100.2%	100.6%	101.6%	101.6%	101.9%

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December 2019

		January 2019	February 2019	March 2019	April 2019	May 2019	June 2019	July 2019	August 2019	September 2018	October 2019	November 2019	December 2019
1	Hours in Month (HRS)	744	672	744	720	744	720	744	744	720	744	720	744
2	Generator On-Line (HRS)	744.00	672.00	744.00	720.00	744.00	720.00	744.00	654.23	720.00	744.00	720.00	744.00
3	Unit Reserve (HRS)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	Adjusted Net (MWHe)	997,771.71	899,976.81	991,739.11	958,152.56	990,810.36	955,282.77	983,955.72	833,876.40	948,993.61	920,395.70	959,655.60	993,899.94
13	Net Max Depend Cap (MW)	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314
18	Capacity Factor (MDC) (%)	102.1%	101.9%	101.4%	101.3%	101.3%	101.0%	100.6%	85.3%	100.3%	94.1%	101.4%	101.7%
20	Equiv Avail Factor (%)	99.9%	99.9%	99.4%	99.3%	99.4%	99.1%	98.8%	84.2%	98.5%	92.7%	99.2%	99.6%
35	Equiv Unit Derated Hrs	1.81	2.77	3.70	3.16	3.61	3.55	1.35	19.18	4.95	53.99	6.20	5.28
36	Equiv Season Derated Hrs	-1.26	(1.95)	0.58	1.94	0.79	3.06	7.63	8.66	5.81	0.21	(0.36)	(2.58)
37	Equiv **Forced** Derated Hrs	0.80	0.05	0.20	0.82	0.00	0.00	0.00	17.71	2.35	51.04	1.82	1.12
	EAF- Calculation	99.9%	99.9%	99.4%	99.3%	99.4%	99.1%	98.8%	84.2%	98.5%	92.7%	99.2%	99.6%
	Cap Factor (MDC) Calculation	102.1%	101.9%	101.4%	101.3%	101.3%	101.0%	100.6%	85.3%	100.3%	94.1%	101.4%	101.7%

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December 2019

		January 2019	February 2019	March 2019	April 2019	May 2019	June 2019	July 2019	August 2019	September 2019	October 2019	November 2019	December 2019
1	Hours in Month (HRS)	744	672	744	720	744	720	744	744	720	744	720	744
2	Generator On-Line (HRS)	744.0	672.0	744.00	720.00	744.00	720.00	744.00	744.00	720.00	96.00	235.30	744.00
3	Unit Reserve (HRS)	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	Adjusted Net (MWHe)	986,139.26	888,255.83	982,306.75	951,348.28	980,950.90	945,248.47	972,036.21	970,143.15	940,220.13	116,080.08	254,863.21	982,098.38
13	Net Max Depend Cap (MW)	1312	1312	1312	1312	1312	1312	1312	1312	1312	1312	1312	1312
18	Capacity Factor (MDC) (%)	101.0%	100.7%	100.6%	100.7%	100.5%	100.1%	99.6%	99.4%	99.5%	11.9%	27.0%	100.6%
20	Equiv Avail Factor (%)	98.9%	98.9%	98.7%	98.8%	98.6%	98.2%	97.7%	97.6%	97.7%	12.2%	27.5%	98.6%
35	Equiv Unit Derated Hrs	3.43	2.95	3.51	2.01	2.88	2.56	2.30	1.85	3.05	4.12	35.57	6.43
36	Equiv Season Derated Hrs	4.90	4.47	6.42	6.98	7.90	10.65	14.74	16.16	13.40	1.17	1.50	4.21
37	Equiv Forced Derated Hrs	2.00	1.78	2.00	0.12	0.82	0.81	0.63	0.74	0.68	0.06	1.47	1.76
	EAF- Calculation	98.9%	98.9%	98.7%	98.8%	98.6%	98.2%	97.7%	97.6%	97.7%	12.2%	27.5%	98.6%
	Cap Factor (MDC) Calculation	101.0%	100.7%	100.6%	100.7%	100.5%	100.1%	99.6%	99.4%	99.5%	11.9%	27.0%	100.6%

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December 2020

		January 2020	February 2020	March 2020	April 2019	May 2020	June 2020	July 2020	August 2020	September 2020	October 2020	November 2020	December 2020
1	Hours in Month (HRS)	744	696	744	720	744	720	744	744	720	744	720	744
2	Generator On-Line (HRS)	744.00	696.00	744.00	720.00	744.00	720.00	744.00	744.00	720.00	216.00	0.00	677.88
3	Unit Reserve (HRS)	0	0	0	0	0	0	0	0	0.0	0	0	0
9	Adjusted Net (MWHe)	995,024.41	927,991.91	991,350.05	960,890.43	989,125.28	953,859.15	977,451.62	972,941.35	949,344.33	269,850.14	0.00	830,649.74
13	Net Max Depend Cap (MW)	1311.0	1311.0	1311.0	1311.0	1311.0	1311	1311	1311	1311	1311	1311.0	1311
18	Capacity Factor (MDC) (%)	102.0%	101.7%	101.6%	101.8%	101.4%	101.1%	100.2%	99.7%	100.6%	27.7%	0.0%	85.2%
20	Equiv Avail Factor (%)	99.8%	99.6%	99.5%	99.7%	99.3%	99.0%	98.2%	97.8%	98.5%	27.5%	0.0%	83.8%
35	Equiv Unit Derated Hrs	1.42	2.69	1.42	0.73	1.18	2.41	4.76	7.96	4.73	10.93	0.00	57.53
36	Equiv Season Derated Hrs	-0.21	0.15	1.95	1.12	3.95	5.05	8.75	8.69	5.76	0.52	0.00	-2.98
37	Equiv Forced Derated Hrs	0.03	0.91	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	8.11
	EAF- Calculation	99.8%	99.6%	99.5%	99.7%	99.3%	99.0%	98.2%	97.8%	98.5%	27.5%	0.0%	83.8%
	Cap Factor (MDC) Calculation	102.0%	101.7%	101.6%	101.8%	101.4%	101.1%	100.2%	99.7%	100.6%	27.7%	0.0%	85.2%

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December 2020

		January 2020	February 2020	March 2020	April 2020	May 2020	June 2020	July 2020	August 2020	September 2020	October 2020	November 2020	December 2020
1	Hours in Month (HRS)	744	696	744	720	744	720	744	744	720	744	720	744
2	Generator On-Line (HRS)	744.00	696.00	646.17	71.87	640.50	720.00	744.00	744.00	720.00	744.00	720.00	744.00
3	Unit Reserve (HRS)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	Adjusted Net (MWHe)	997,550.14	932,018.88	824,245.37	88,821.84	801,303.83	954,477.92	980,914.87	978,848.36	953,100.31	992,461.62	965,796.19	996,834.07
13	Net Max Depend Cap (MW)	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314	1314
18	Capacity Factor (MDC) (%)	102.0%	101.9%	84.3%	9.4%	82.0%	100.9%	100.3%	100.1%	100.7%	101.5%	102.1%	102.0%
20	Equiv Avail Factor (%)	99.6%	99.9%	83.2%	9.7%	80.9%	98.9%	98.4%	98.2%	98.7%	99.4%	100.0%	99.7%
35	Equiv Unit Derated Hrs	5.09	2.92	24.95	1.99	36.17	4.07	3.49	4.29	4.26	4.51	2.32	5.35
36	Equiv Season Derated Hrs	-2.42	(1.97)	1.92	0.22	2.13	3.72	8.27	8.85	4.79	(0.32)	(2.04)	(3.26)
37	Equiv **Forced** Derated Hrs	1.02	0.15	21.04	0.00	2.49	0.00	0.00	0.00	0.00	0.76	0.01	1.92
	EAF- Calculation	99.6%	99.9%	83.2%	9.7%	80.9%	98.9%	98.4%	98.2%	98.7%	99.4%	100.0%	99.7%
	Cap Factor (MDC) Calculation	102.0%	101.9%	84.3%	9.4%	82.0%	100.9%	100.3%	100.1%	100.7%	101.5%	102.1%	102.0%

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		January 2020	February 2020	March 2020	April 2020	May 2020	June 2020	July 2020	August 2020	September 2020	October 2020	November 2020	December 2020
1	Hours in Month (HRS)	744	696	744	720	744	720	744	744	720	744	720	744
2	Generator On-Line (HRS)	744.0	499.02	744.00	720.00	744.00	720.00	744.00	744.00	720.00	744.00	720.00	744.00
3	Unit Reserve (HRS)	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	Adjusted Net (MWHe)	983,419.59	631,602.01	980,589.14	949,586.19	978,830.41	943,222.47	970,701.55	969,282.10	943,864.23	980,857.25	949,805.21	985,824.42
13	Net Max Depend Cap (MW)	1312	1312	1312	1312	1312	1312	1312	1312	1312	1312	1312	1312
18	Capacity Factor (MDC) (%)	100.7%	69.2%	100.5%	100.5%	100.3%	99.8%	99.4%	99.3%	99.9%	100.5%	100.5%	101.0%
20	Equiv Avail Factor (%)	98.7%	68.4%	98.4%	98.6%	98.3%	97.9%	97.6%	97.4%	98.0%	98.5%	98.6%	98.9%
35	Equiv Unit Derated Hrs	5.64	20.77	6.17	3.27	3.18	4.75	3.09	3.01	3.09	3.53	5.40	4.72
36	Equiv Season Derated Hrs	4.37	2.33	5.79	7.03	9.16	10.14	15.06	16.01	11.31	7.48	4.79	3.48
37	Equiv Forced Derated Hrs	1.53	17.62	2.61	0.07	0.13	0.958	0.49	0.64	0.39	0.42	0.52	0.19
	EAF- Calculation	98.7%	68.4%	98.4%	98.6%	98.3%	97.9%	97.6%	97.4%	98.0%	98.5%	98.6%	98.9%
	Cap Factor (MDC) Calculation	100.7%	69.2%	100.5%	100.5%	100.3%	99.8%	99.4%	99.3%	99.9%	100.5%	100.5%	101.0%

SOAH Docket No. 473-21-2606
PUC Docket No. 52195
FMI's 2nd, Q. No. FMI 2-4
Attachment 1
Page 28 of 28

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

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

EL PASO ELECTRIC COMPANY'S RESPONSE TO
FREEPORT-MCMORAN, INC'S SECOND REQUEST FOR INFORMATION
QUESTION NOS. FMI 2-1 THROUGH FMI 2-19

FMI 2-5:

Referring to EPE's Response to CEP 1-26, Schedule H-5-2b:

a. Please explain in detail the benefit analysis used by EPE for the capital costs. For projects where EPE did not perform a benefit analysis, please explain why not.

b. Please provide the detailed benefit analyses for the projects identified by EPE where a benefit analysis was performed. Please provide in Excel format with all formulas and links intact.

RESPONSE:

a. Please refer to El Paso Electric Company's ("EPE") response to FMI 2-3 for information on benefit analysis. Not all projects have a cost benefit analysis performed. Cost benefit analyses are not performed with projects that are considered to be non-discretionary. An example of a non-discretionary project would be the Newman Lake Liner Replacement Project. An example of a discretionary project would be the U4/GT1 & GT2 Turbine Capital Replacement Parts (W501B6) Project (see FMI 2-5, Attachment 10). EPE performs cost benefits analyses for projects that are discretionary or for which alternatives are available.

   For every generation capital project whose costs are estimated to be at least $100,000, EPE performs a business justification analysis as part of routine management review and monitoring. Please refer to EPE's response to CEP 13-7.

b. Project cost-benefit analyses can be found in FMI 2-5, Attachments 1 through 27.

Preparer: Pedro Vega Title: Senior Accountant – Power Generation

Sponsor: J Kyle Olson Title: Manager – Power Generation Engineering

Original Version:	06/16/2016
Date of Current Version:	06/16/2016
Dates Revised:	Click here to enter a date.

This form and supplemental documentation should be submitted to Financial Forecasting when requesting funds for a capital project greater than $500,000 and for an individual work order, included in a blanket project, over $500,000.

PROJECT OVERVIEW

Project Description:* MPS Portable RO_EDI Water Treatment System	**Project Manager:*** Stephanie Lopez
Project Number:* GM106	**Project Manager Phone Number:*** 915-543-5865, 915-487-0620
Owning Cost Center:* 5140	**Project Location:*** 55-TX Montana Station Common
Business Segment:* 180 Montana Station Common	Must tie to Upload Template Total Project Cost; excludes AFUDC **Total Project Cost:*** $458,458
Has the RFP process been completed? ☐ **Yes** ☒ **No** **If yes, Bid Estimate Date:***	Excludes AFUDC; mandatory if RFP process complete **Bid Estimate:***
First month of cash estimates **Anticipated Start Date:*** 02/01/2017	Last month of cash estimates **Anticipated Closing Date:*** 07/31/2017
Enter "N/A" if no associated projects **Associated Projects:*** N/A	
Project overview/scope:* This project consists of developing a specification, obtaining bids, purchasing equipment, installation and start-up of portable water treatment equipment.	

Reason for Expenditure:*

External Mandate (and/or):

☒ Obligation to Serve/Reliability ☐ Safety ☐ Program ☐ Law ☐ Other

Describe: Montana Power Station has added two more units and therefore the water requirements have doubled from last year. The existing reverse osmosis/electrodeionization (RO/EDI) unit has produced good quality water but has been jeopardized a number of times this past year (2016) leaving Montana without an RO/EDI. Copper, Rio, and Newman Power Plants have also experienced a need for a portable unit in the past. Newman Power Station has experienced a shortage of Deionization (DI) water and had to rent portable units. The company providing the units did not have one readily available and this caused a derate. Renting a portable unit is costly and not always readily available. Therefore, owning a portable unit will reduce the risk of El Paso Electric being derated due to a shortage of DI water.

Required by: Choose an item.

Internal or Customer Request:

☒ Capacity Expansion/Growth

If yes, ☐ Voltage/Load ☒ Future Expansion ☐ Customer Load

Identify customer, if applicable: El Paso Electric Power Generation Stations

What is the timing requirement?

☒ System Performance and Reliability (describe): Ultra-pure water production requirements.

☐ Quality Enhancement/New Technology (describe):

☐ Other (describe):

Has Environmental been contacted? ☐ **Yes** ☒ No **If "No", please explain why not?** There is no Environmental impact due to this project.

List and provide evidence for expenditure (i.e. impact study and/or load forecast including version & date)**:** Renting a 100 gpm RO unit from GE Mobile Water costs $2,500 onetime prep charge, plus $640/day rental, and $0.30/1000 gallons permeate produced. In addition, to rent the EDI trailer it costs $5,000 onetime prep charge, plus a $500/day rental charge. These numbers are based on a daily rate at a 30 day term.

Does this project replace another asset? ☐ Yes ☒ No	**If yes, please identify asset being replaced:**

Please list major milestones:*

Milestone:	Completed by:
Develop Engineering Plan	08/01/2016
Develop Water Treatment Specifications, Request Bids, Evaluate and Issue PO.	10/03/2016
Receive Equipment exp type 060 $400,000	02/06/2017
Install Unit/Quick Connections exp type 070 $30,000	03/06/2017
Electrical Requirements and Connections exp type 070 $25,000	04/03/2017
Start up System	06/05/2017
Closing of Project	07/31/2017

		Click here to enter a date.		

Please list internal and external resources assigned to this project:*

Resource Name:	Department/Company:	Have you contacted this resource about the project & related timing:		
Power Plant Personnel	El Paso Electric Power Generation	☒ Yes	☐ No	If no, explain why not:
External TBD	TBD	☐ Yes	☒ No	If no, explain why not: Going out for bids.
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:

Please identify any risks and/or constraints related to this project:

CASH FLOW ANALYSIS

Proposed Project:*

A Capital Budget Upload Template for all proposed projects must be submitted separately. Please use the GEN Templates Ready for Updates form located under the *2017 Capital Budget May 2016 Actuals* folder in Livelink.

Do your cash flows include any incremental revenue enhancements and/or cost reductions?	☐ Yes	☒ No

- If yes, please describe in detail (by year if necessary):
- If yes, please identify the date to verify that the benefits of the project have been implemented:

Alternative Project:

A financial analysis is required only when alternatives are considered. If applicable, an NPV analysis must be submitted for each alternative. Please use the Generation Cash Flow for Alternative form located under the *2017 Capital Budget May 2016 Actuals* folder in Livelink.

Were alternatives considered?* ☒ Yes ☐ No	**Describe alternatives:** Leaving the system as is which increases the risk of derating incase of shortage of DI water. Renting, which is not cost effective and not always readily available. Also, considered converting existing RO from Rio Grande Power Station into a portable.

What was the reason for selecting the proposed project over the alternatives considered? Reliability and cost.

CHECKLIST FOR ITEMS TO BE SUBMITTED

Have all the applicable line items on the Business Case Overview been completed?	☒ Yes	☐ No	
Do the milestones you identified take into consideration availability of resources?	☒ Yes	☐ No	
Cash flow projection with detail must be submitted for the project, is it enclosed?	☒ Yes	☐ No	
Did you provide supporting documents for cash flows (i.e. L&R, Promod)?	☐ Yes	☒ No	
Does the Total Project Cost on page 1 equal the Total Project Cost on your cash flow analysis?	☒ Yes	☐ No	
If applicable, did you attach the financial analysis for each alternative?	☐ Yes	☐ No	☒ N/A

Please provide additional information not disclosed for the committee's consideration:

Preparer:*	
Name: Stephanie M. Lopez Date:06/16/2016	

Generation Business Case Overview

Original Version:	07/26/2018
Date of Current Version:	11/30/2018
Dates Revised:	11/30/2018

This form and supplemental documentation should be submitted to Financial Forecasting when requesting funds for a capital project greater than $500,000 and for an individual work order, included in a blanket project, over $500,000.

PROJECT OVERVIEW

Project Description:* MONTANA CAP SPARE CRITICAL PARTS	**Project Manager:*** Albert Montano
Project Number:* GM120	**Project Manager Phone Number:*** (915) 319-0254
Owning Cost Center:* 5140	**Project Location:*** 55-TX Montana Station Common
Business Segment:* 180 Montana Station Common	Must tie to Upload Template Total Project Cost; excludes AFUDC **Total Project Cost:*** $12,913,145
Are dollars included in a blanket for this project? ☐ **Yes** ☒ **No** **If yes, what is the dollar amount?**	**Have dollars for this project been booked in FERC Account 183000?** ☐ **Yes** ☒ **No** **If yes, what is the dollar amount?** **Are the dollars included in the Total Project Cost?** ☐ **Yes** ☒ **No**
Has the RFP process been completed? ☐ **Yes** ☒ **No** **If yes, Bid Estimate Date:***	Excludes AFUDC; mandatory if RFP process complete **Bid Estimate:***
First month of cash estimates **Anticipated Start Date:*** September 03, 2018	Last month of cash estimates **Anticipated Closing Date:*** January 31, 2019

Enter "N/A" if no associated projects
Associated Projects:* N/A

Project overview/scope:* This capital project is for the procurement of Spare Parts for the General Electric (GE) LMS100 package spares. EPE has determined that package spares are necessary to improve and maintain reliability. The package is considered all non-consumable parts located within the perimeter of the Gas Turbine Skid together with the related General Electric Mark Vie Speedtronic Turbine Control System, Generator, and the following associated auxiliaries:

SPARE (GE) LMS100 Booster or Low Pressure Compressor Rotor Assembly and the Stage 0-5 Vane and Ring Assemblies. ($1,860,000)
SPARE GE) LMS100 Power Turbine Rotor and Power Turbine Stator Assembly (Part Number L57080G06). ($5,670,000)

- Mineral lube oil system
- Synthetic lube oil system
- Hydraulic starter system
- Water wash system
- Water injection system
- Intercooler
- Intercooler water pump skid
- Variable bleed valves ("VBV")
- Supercore Tubing, Hoses and Brackets

A spare parts list, "Exhibit A - LMS100 Spare Parts Revision 0", totaling $4,000,000 was develop with assistance from General Electric. The spare parts list were determined by using the following criteria: Past Failure Frequency, Lead Time, Cost, and Number of Parts installed on package. As part of the Multi-Year Service Agreement with GE, GE will repair or replace parts, components, or Parts of the turbine to address and correct unplanned events.

The package equipment has in between 6,000 and 12,000 hours of operation depending on commercial date of the associated units and components.

Payment Terms:
Upon Purchase Order Receipt – Net 30, 25% of fixed price
Upon first shipment of parts or by October 5, 2018 – Net 30 , 50% of fixed price
Upon second shipment of parts or by December 21, 2018 – Net 30, 75% of fixed price
Upon final shipment of parts – Net 30, 100% of fixed price

Why this project is needed?:* LMS100 Fleet Reliability and reduction of outage time and failures to start

Reason for Expenditure:*

External Mandate (and/or):

☐ Obligation to Serve/Reliability ☐ Safety ☐ Program ☐ Law ☒ Other
Describe: LMS100 Fleet does not have an appropriate stock critical spares or replacement spares onhand
Required by: Choose an item.

Internal or Customer Request:

☐ Capacity Expansion/Growth

Generation Business Case Overview

If yes, ☐ Voltage/Load ☐ Future Expansion ☐ Customer Load
Identify customer, if applicable:
What is the timing requirement?

☒ System Performance and Reliability (describe): Reliability will be increase if components are replaced during the summer preparation outages or by having the spare component on the shelf and having the ability to replace the component.

☐ Quality Enhancement/New Technology (describe):

☐ Other (describe):

Has Environmental been contacted? ☐ **Yes** ☒ No **If "No", please explain why not?** PARTS ONLY

List and provide evidence for expenditure (i.e. impact study and/or load forecast including version & date)**:**

Does this project replace another asset? ☒ Yes ☐ No	**If yes, please identify asset being replaced:** PARTS AS NEEDED

Please list major milestones:*

Milestone:	Completed by:
50% of invoiced total completed.	09/30/2018
Second large shipment due on December 21 (Invoice 25%).	01/21/2019
Final Shipments due in Spring of 2019 (Invoice final 25% upon completion of final shipments).	03/31/2019
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.

Please list internal and external resources assigned to this project:*

Resource Name:	Department/Company:	Have you contacted this resource about the project & related timing:		
Ron Lamontine	Power Generation	☒ Yes	☐ No	If no, explain why not:
David Aranda	Power Generation	☒ Yes	☐ No	If no, explain why not:
Eric Jacquez	Power Generation	☒ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:

Please identify any risks and/or constraints related to this project:

CASH FLOW ANALYSIS

Proposed Project:*

A Capital Budget Upload Template for all proposed projects must be submitted separately. Please use the GEN Templates Ready for Updates form located under the current Capital Budget Revision folder in Livelink.

Do your cash flows include any incremental revenue enhancements and/or cost reductions?	☐ Yes	☒ No

- If yes, please describe in detail (by year if necessary):
- If yes, please identify the date to verify that the benefits of the project have been implemented:

Alternative Project:

A financial analysis is required only when alternatives are considered. If applicable, an NPV analysis must be submitted for each alternative. Please use the Generation Cash Flow for Alternatives form located under the current Capital Budget Revision folder in Livelink.

Were alternatives considered?* ☐ Yes ☒ No	**Describe alternatives:**

Generation Business Case Overview

What was the reason for selecting the proposed project over the alternatives considered?			
CHECKLIST FOR ITEMS TO BE SUBMITTED			
Have all the applicable line items on the Business Case Overview been completed?	☒ Yes	☐ No	
Do the milestones you identified take into consideration availability of resources?	☒ Yes	☐ No	
Cash flow projection with detail must be submitted for the project, is it enclosed?	☒ Yes	☐ No	
Did you provide supporting documents for cash flows (i.e. L&R, Promod)?	☐ Yes	☒ No	
Does the Total Project Cost on page 1 equal the Total Project Cost on your cash flow analysis?	☒ Yes	☐ No	
If applicable, did you attach the financial analysis for each alternative?	☐ Yes	☐ No	☒ N/A
Please provide additional information not disclosed for the committee's consideration:			

Preparer:*	
Name: Albert Montaño Date:11/30/2018	

Project Number:	
Project Description:	MPS Gas Compressor A&B 8,000hr New Kit Replacement Assembly
Total Project Capital Cost:	$825,955
Reporting Date:	3/26/2019

This form and supplemental documentation should be submitted to Financial Forecasting when requesting funds for a capital project greater than $500,000 and for an individual work order, included in a blanket project, over $500,000.

PROJECT OVERVIEW

Project Manager:	Trey Frisbie	**Project Manager Phone Number:**	915-258-5320
Owning Cost Center:	5140 MONTANA POWER STATION	**Major Project Location:**	50 - TX MONTANA POWER STATION - COMMON
Project Functional Class:	Other Production	**Business Segment:**	180 MONTANA PWR STATION - COMMON
Associated Projects:	**None**		
In-Lieu of Component			
Project Priority	HIGH - Important and Urgent		
Project overview/scope:	Remove gas compressor A & B for shipping to Houston for installation of New 8,000 hour replacement kit assembly.		
Business Justification:	Kobelco recommends installation of new asssembly kit to be performed after 8,000-12,000 hours of run time. The new kits will have improved seals. This work needs to be performed to ensure that the compressor is reliable for our summer run.		
Project Risks and Constraints:	While the work is being performed we would not have a spare gas compressor avialable.		
Primary Reason for Expenditure	Reliability		
Secondary Reason for Expenditure	Quality Improvement/Enhancement		
Has the RFP process been completed	☐ Yes ☑ No	**Excludes AFUDC; mandatory if RFP process complete**	
If yes, Bid Estimate Date:		**Bid Estimate:**	$ -
If dollars are included in a blanket project, what is the amount?	$ -	**Total dollars included in FERC account 183000. That amount must be included in project cost**	
Estimated Start Date:	5/1/2019	**Estimated Completion Date:**	6/28/2019

If applicable, describe and identify asset being replaced/retired

The gas compressor New Kit Replacement Assembly.

Please descrive the potential Cost Savings and/or Cost Avoidance for this project:

The cost savings would be seen in the improved availabiliy of this piece of equipment.

Describe alternatives considered:

None

What was the reason for selecting the proposed project over the alternatives considered?

Kobelco is the OEM and the only qualified to perform the work.

COST/BENEFIT ANALYSIS

Select Best Alternative: **Status Quo - Do Nothing**

	10 Year Total	30 Year Total	10 Year PV	30 Year PV
COST				
Capital Expenditures:	**$825,955**	**$825,955**	**$771,740**	**$771,740**
O&M Expenses:	**$0**	**$0**	**$0**	**$0**
Financing Costs (Benefit):	**$132,174**	**($528,398)**	**$105,248**	**($50,699)**
Income Tax Exp (Benefit):	**$216,418**	**$555,943**	**$149,477**	**$252,933**
TOTAL COSTS	**$1,174,547**	**$853,500**	**$1,026,465**	**$973,974**
BENEFITS				
Revenue Requirement:	**$1,107,041**	**$1,871,471**	**$785,763**	**$1,062,079**
Cost Savings:	**$0**	**$0**	**$0**	**$0**
Cost Avoidance:	**$0**	**$0**	**$0**	**$0**
AFUDC:	**$17,270**	**$17,270**	**$16,137**	**$16,137**
Other Benefits:	**$0**	**$0**	**$0**	**$0**
TOTAL BENEFITS	**$1,124,311**	**$1,888,741**	**$801,899**	**$1,078,216**

BENEFIT-COST RATIO	0.78	1.11

Please list major milestones:

Milestone:	Completed by:
Remove gas compressor "B" for shipping to Houston.	4/30/2019
Install compressor 8,000 hr. replacement kit assembly.	5/17/2019
Oil flush piping with external pumping unit.	5/10/2019
Ship gas compressor back to El Paso and install.	5/17/2019
Complete start up checks and put back inservice.	5/18/2019
Remove gas compressor "A" for shipping to Houston.	6/1/2019
Install compressor 8,000 hr. replacement kit assembly.	6/12/2019
oil flush piping with external pumping unit, complete startup checks and put back inservice.	6/28/2019

Please list internal and external resources assigned to this project:*

Resource Name:	Department/Company:	Have you contacted this resource about the project & related timing:			
Kobelco	Trey Frisbie	☑ Yes	☐ No	If no, explain why not:	
B&M	Trey Frisbie	☑ Yes	☐ No	If no, explain why not:	
ITC	Trey Frisbie	☑ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	

checklist for items to be submitted		
Has Environmental been contacted?	☑ Yes	☐ No
If applicable, has land been secured for this project?	☐ Yes	☐ No
Have all the applicable line items on the Business Case Overview been completed?	☑ Yes	☐ No
Do the milestones you identified take into consideration availability of resources?	☑ Yes	☐ No
Cash flow projection with detail must be submitted for the project, is it enclosed?	☑ Yes	☐ No
Did you provide supporting documents for cash flows (i.e. L&R, Promod)?	☑ Yes	☐ No
Does the Total Project Cost on page 1 equal the Total Project Cost on your cash flow analysis?	☑ Yes	☐ No
If applicable, did you attach the financial analysis for each alternative?	☐ Yes	☐ No

Please provide additional information not disclosed for the committee's consideration:

Project Manager / Preparer Signature:	
Name:	Trey Frisbie
Date:	3/26/2019

Sponsor / Approver Signature:	
Name:	Albert Montano
Date:	3/26/2019

Please fill in the white areas with no shading.

Use this form if the new project has not been created in PowerPlant after requesting a new project through Cherwell

Project Number:	GM126
Project Description:	MPS lightning protection
Total Project Capital Cost:	$311,798
Reporting Date:	6/25/2019

This form and supplemental documentation should be submitted to Financial Forecasting when requesting funds for a capital project greater than $500,000 and for an individual work order, included in a blanket project, over $500,000.

PROJECT OVERVIEW

Project Manager:	Lusheng Su	**Project Manager Phone Number:**	915-235-7087
Owning Cost Center:	5140 MONTANA POWER STATION	**Major Project Location:**	50 - TX MONTANA POWER STATION - COMMON
Project Functional Class:	General	**Business Segment:**	180 MONTANA PWR STATION - COMMON
Associated Projects:	None		
In-Lieu of Component			
Project Priority	MEDIUM - Important but Not Urgent		
Project overview/scope:	Install lightning protection for MPS		
Business Justification:	On 08/23/2016 at a time of 9:52 PM unit1 was struck, unit 2 took a lightning strike 20 minutes later. This damaged GE90-30 PLC which is obsoleted in October, 2015. So MPS upgraded the PLC to GE RX31 platform which cost $77,766. Baca lightning protection LLC performed a site tour, and recommended to design and install the lightning protection by an LPI certified Master Installer Designer to meet the requirements specified by NFPA-780. In order to prevent such incidents happening again, a lightning protection system is recommended to be installed for the plant.		
Project Risks and Constraints:			
Primary Reason for Expenditure	Safety & Security		
Secondary Reason for Expenditure	System Reliabilty & Improvement		
Has the RFP process been completed	☐ Yes ☑ No	**Excludes AFUDC; mandatory if RFP process complete**	
If yes, Bid Estimate Date:		**Bid Estimate:**	$ -
If dollars are included in a blanket project, what is the amount?	$ -	**Total dollars included in FERC account 183000. That amount must be included in project cost**	$ -
Estimated Start Date:	8/1/2019	**Estimated Completion Date:**	12/31/2019
If applicable, describe and identify asset being replaced/retired			
Please describe the potential Cost Savings and/or Cost Avoidance for this project:	The lightning struck the MPS U1 in 2016 which caused unit shut down due to thermo couple cards fried and $77,766 for repair.		
Describe alternatives considered:			
What was the reason for selecting the proposed project over the alternatives considered?			

COST/BENEFIT ANALYSIS

Select Best Alternative: **Alternative A**

	10 Year Total	30 Year Total	10 Year PV	30 Year PV
COST				
Capital Expenditures:	$311,798	$311,798	$311,798	$311,798
O&M Expenses:	$0	$0	$0	$0
Financing Costs (Benefit):	$45,859	($208,677)	$40,196	($21,598)
Income Tax Exp (Benefit):	$90,716	$208,541	$65,357	$101,700
TOTAL COSTS	$448,373	$311,662	$417,351	$391,899
BENEFITS				
Revenue Requirement:	$450,090	$694,300	$334,575	$425,636
Cost Savings:	$0	$0	$0	$0
Cost Avoidance:	$0	$0	$0	$0
AFUDC:	$3,693	$3,693	$3,693	$3,693
Other Benefits:	$0	$0	$0	$0
TOTAL BENEFITS	$453,783	$697,993	$338,269	$429,330

BENEFIT-COST RATIO	**0.81**	**1.10**

Please list major milestones:

Milestone:	Completed by:
Lightning protection installallation completed	12/31/2019
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.

Please list internal and external resources assigned to this project:

Resource Name:	Department/Company:	Have you contacted this resource about the project & related timing:			
Lusheng Su	Power Gen/EPE	☑ Yes	☐ No	If no, explain why not:	
Contractor TBD	External	☐ Yes	☑ No	If no, explain why not:	In the process of bidding out
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	

checklist for items to be submitted		
Has Environmental been contacted?	☐ Yes	☑ No
If applicable, has land been secured for this project?	☐ Yes	☑ No
Have all the applicable line items on the Business Case Overview been completed?	☑ Yes	☐ No
Do the milestones you identified take into consideration availability of resources?	☑ Yes	☐ No
Cash flow projection with detail must be submitted for the project, is it enclosed?	☑ Yes	☐ No
Did you provide supporting documents for cash flows (i.e. L&R, Promod)?	☐ Yes	☑ No
Does the Total Project Cost on page 1 equal the Total Project Cost on your cash flow analysis?	☑ Yes	☐ No
If applicable, did you attach the financial analysis for each alternative?	☐ Yes	☑ No

Please provide additional information not disclosed for the committee's consideration:

Project Manager / Preparer Signature:	
Name:	Lusheng Su
Date:	6/25/2019

Approver Signature:	
Name:	
Date:	

Please fill in the white areas with no shading.

Use this form if the new project has not been created in PowerPlant after requesting a new project through Cherwell

Run Spell Check Function

Project Number:	GMxxx
Project Description:	MPS3 CO Catalyst Gasket Retention System
Total Project Capital Cost:	$111,573
Reporting Date:	7/9/2019

This form and supplemental documentation should be submitted to Financial Forecasting when requesting funds for a capital project greater than $500,000 and for an individual work order, included in a blanket project, over $500,000.

PROJECT OVERVIEW

Project Manager:	Albert Montaño	**Project Manager Phone Number:**	(915) 543-2074
Owning Cost Center:	5140 MONTANA POWER STATION	**Major Project Location:**	54 - TX MONTANA POWER STATION - UNIT 3
Project Functional Class:	General	**Business Segment:**	183 MONTANA PWR STATION - UNIT 3
Associated Projects:	None		
In-Lieu of Component	None		
Project Priority	MEDIUM - Important but Not Urgent		
Project overview/scope:	A Gasket Retention System for the CO catalyst in the SCR was installed on MPS units 1 and 2 and Rio Grande Unit 9 in 2019. The LMS100 fleet SCR's were inspected during the summer preparation outages this spring and the CO Catalyst gaskets have fallen out and require reinstallation or adjustments to the water flow into the turbine combustion section. Reinstallation of the gasket requires a complete unstacking of the CO modules and a 5-day outage. The gaskets seal in between the catalyst modules. With the gaskets out of place CO emissions exceedances can occur due to bypass or leakage around the catalyst. Sisu Energy & Environmental, LLC (Sisu) has created a Gasket Retention System that is a new enhancement in order to keep the gaskets in place. By use of the Sisu's "H-Trays" the gasket is retained or captured in place and does not allow for the gasket to come loose or fall out of place. The project includes the new gasket retention system, remova/reinstallationl of the catalyst, scaffolding, and a confined space attendant for $110,000 per unit.		
Business Justification:	New retention system will keep CO catalyst gasket in place. Catalyst removal and reinstallation of gasket is being performed frequently and requires a 5-day outage. This new system will resolve this issue and insure there is no CO bypass in the SCR. This system has been implemented on MPS1, MPS2 and RG9.		
Project Risks and Constraints:	CO Catalyst modules may get damaged during installation. Work can be performed during the summer preparation outages.		
Primary Reason for Expenditure	Quality Enhancement		
Secondary Reason for Expenditure	Regulatory/Compliance/Environmental		
Has the RFP process been completed	☐ Yes ☑ No	**Excludes AFUDC; mandatory if RFP process complete**	
If yes, Bid Estimate Date:		**Bid Estimate:**	$ -
If dollars are included in a blanket project, what is the amount?	$ 110,000.00	**Total dollars included in FERC account 183000. That amount must be included in project cost**	$ -
Estimated Start Date:	2/1/2020	**Estimated Completion Date:**	2/28/2020
If applicable, describe and identify asset being replaced/retired			

Please describe the potential Cost Savings and/or Cost Avoidance for this project:

Avoiding removal of CO catalyst to reinstall gaskets frequently and insure that the exhaust gas is passing thru the catalyst and not bypassing it.

Describe alternatives considered:

No other technology or system is available to address this issue. Sisu has become the OEM supplier for the LMS100 Fleet.

What was the reason for selecting the proposed project over the alternatives considered?

COST/BENEFIT ANALYSIS

Select Best Alternative: **Alternative A**

	10 Year Total	30 Year Total	10 Year PV	30 Year PV
COST				
Capital Expenditures:	**$111,573**	**$111,573**	**$104,249**	**$104,249**

O&M Expenses:	**$0**	**$0**	**$0**	**$0**
Financing Costs (Benefit):	**$18,154**	**($73,520)**	**$14,454**	**($7,138)**
Income Tax Exp (Benefit):	**$29,199**	**$76,845**	**$20,042**	**$34,487**
TOTAL COSTS	**$158,926**	**$114,898**	**$138,745**	**$131,599**
BENEFITS				
Revenue Requirement:	**$150,160**	**$257,239**	**$106,166**	**$144,647**
Cost Savings:	**$0**	**$0**	**$0**	**$0**
Cost Avoidance:	**$0**	**$0**	**$0**	**$0**
AFUDC:	**$3,361**	**$3,361**	**$3,141**	**$3,141**
Other Benefits:	**$0**	**$0**	**$0**	**$0**
TOTAL BENEFITS	**$153,521**	**$260,600**	**$109,307**	**$147,787**
BENEFIT-COST RATIO			**0.79**	**1.12**

Please list major milestones:

Milestone:	Completed by:
Payment for Services	3/1/2019
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.

Please list internal and external resources assigned to this project:

Resource Name:	Department/Company:	Have you contacted this resource about the project & related timing:			
Sisu Maintenance Staff	Sisu	☐ Yes	☑ No	If no, explain why not:	
O&M Staff	Power Gen, EPE	☐ Yes	☑ No	If no, explain why not:	performed
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	

checklist for items to be submitted

Has Environmental been contacted?	☐ Yes	☑ No
If applicable, has land been secured for this project?	☐ Yes	☑ No
Have all the applicable line items on the Business Case Overview been completed?	☑ Yes	☐ No
Do the milestones you identified take into consideration availability of resources?	☑ Yes	☐ No
Cash flow projection with detail must be submitted for the project, is it enclosed?	☑ Yes	☐ No
Did you provide supporting documents for cash flows (i.e. L&R, Promod)?	☐ Yes	☑ No
Does the Total Project Cost on page 1 equal the Total Project Cost on your cash flow analysis?	☑ Yes	☐ No
If applicable, did you attach the financial analysis for each alternative?	☐ Yes	☑ No

Please provide additional information not disclosed for the committee's consideration:

Project Manager / Preparer Signature:

Name:	Albert Montaño
Date:	7/9/2019

Approver Signature:	
Name:	
Date:	

Please fill in the white areas with no shading.

Use this form if the new project has not been created in PowerPlant after requesting a new project through Cherwell

Run Spell Check Function

Project Number:	GM133
Project Description:	MONTANA DCS CIP_CYBER IMPRVMNTS
Total Project Capital Cost:	$199,730
Reporting Date:	8/23/2019

This form and supplemental documentation should be submitted to Financial Forecasting when requesting funds for a capital project greater than $500,000 and for an individual work order, included in a blanket project, over $500,000.

PROJECT OVERVIEW

Project Manager:	J Kyle Olson	**Project Manager Phone Number:**	915-521-4678
Owning Cost Center:	5140 MONTANA POWER STATION	**Major Project Location:**	50 - TX MONTANA POWER STATION - COMMON
Project Functional Class:	Other Production	**Business Segment:**	180 MONTANA PWR STATION - COMMON
Associated Projects:	N/A		
In-Lieu of Component			
Project Priority	HIGH - Important and Urgent		
Project overview/scope:	Plant wide Digital Control System improvements to comply with Critical Intrastructure Protection-003-7 and improve overall Digital Control System cyber security systems.		
Business Justification:	Needed to comply with Critical Intrastructure Protection-0003-7 and improve Digital Control System Cyber Security Systems		
Project Risks and Constraints:	Short timeline due to Critical Intrastructure Protection-003-7 becoming effective 1/1/2020		
Primary Reason for Expenditure	Regulatory/Compliance/Environmental		
Secondary Reason for Expenditure	System Reliabilty & Improvement		
Has the RFP process been completed	☐ Yes ☑ No	**Excludes AFUDC; mandatory if RFP process complete**	
If yes, Bid Estimate Date:		**Bid Estimate:**	$ -
If dollars are included in a blanket project, what is the amount?	$ -	**Total dollars included in FERC account 183000. That amount must be included in project cost**	$ -
Estimated Start Date:	12/1/2019	**Estimated Completion Date:**	12/31/2019
If applicable, describe and identify asset being replaced/retired			
Please describe the potential Cost Savings and/or Cost Avoidance for this project:			
Describe alternatives considered:			
What was the reason for selecting the proposed project over the alternatives considered?			

COST/BENEFIT ANALYSIS

Select Best Alternative: **Alternative A**

	10 Year Total	30 Year Total	10 Year PV	30 Year PV
COST				
Capital Expenditures:	**$199,730**	**$199,730**	**$199,730**	**$199,730**
O&M Expenses:	**$0**	**$0**	**$0**	**$0**
Financing Costs (Benefit):	**$28,734**	**($128,310)**	**$25,189**	**($13,063)**
Income Tax Exp (Benefit):	**$58,058**	**$129,455**	**$42,166**	**$64,338**
TOTAL COSTS	**$286,522**	**$200,875**	**$267,085**	**$251,005**
BENEFITS				

Revenue Requirement:	**$286,390**	**$434,559**	**$214,005**	**$269,753**
Cost Savings:	**$0**	**$0**	**$0**	**$0**
Cost Avoidance:	**$0**	**$0**	**$0**	**$0**
AFUDC:	**$0**	**$0**	**$0**	**$0**
Other Benefits:	**$0**	**$0**	**$0**	**$0**
TOTAL BENEFITS	**$286,390**	**$434,559**	**$214,005**	**$269,753**
BENEFIT-COST RATIO			**0.80**	**1.07**

Please list major milestones:

Milestone:	Completed by:
Issue Purchase Order	9/15/2019
Parts on site	11/15/2019
Installation Complete	12/15/2019
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.

Please list internal and external resources assigned to this project:

Resource Name:	Department/Company:	Have you contacted this resource about the project & related timing:			
Kyle Olson	Power Generation	☑ Yes	☐ No	If no, explain why not:	
Tanisha House	Power Generation	☑ Yes	☐ No	If no, explain why not:	
Tracy Van Slyke	Operation Technology	☑ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	

checklist for items to be submitted

Has Environmental been contacted?	☑ Yes	☐ No
If applicable, has land been secured for this project?	☐ Yes	☑ No
Have all the applicable line items on the Business Case Overview been completed?	☑ Yes	☐ No
Do the milestones you identified take into consideration availability of resources?	☑ Yes	☐ No
Cash flow projection with detail must be submitted for the project, is it enclosed?	☑ Yes	☐ No
Did you provide supporting documents for cash flows (i.e. L&R, Promod)?	☐ Yes	☑ No
Does the Total Project Cost on page 1 equal the Total Project Cost on your cash flow analysis?	☑ Yes	☐ No
If applicable, did you attach the financial analysis for each alternative?	☐ Yes	☑ No

Please provide additional information not disclosed for the committee's consideration:

Project Manager / Preparer Signature:

Name: J Kyle Olson

Date: 8/23/2019

Approver Signature:	
Name:	
Date:	

Please fill in the white areas with no shading.

Use this form if the new project has not been created in PowerPlant after requesting a new project through Cherwell

Run Spell Check Function

Generation Business Case Overview

Original Version:	07/14/2016
Date of Current Version:	07/14/2016
Dates Revised:	Click here to enter a date.

This form and supplemental documentation should be submitted to Financial Forecasting when requesting funds for a capital project greater than $500,000 and for an individual work order, included in a blanket project, over $500,000.

PROJECT OVERVIEW

Project Description:* Newman U4 ST Rotor Replacement	**Project Manager:*** Adam Davila
Project Number:* GN160	**Project Manager Phone Number:*** x2960
Owning Cost Center:* 5110	**Project Location:*** 10-TX Newman Unit 4
Business Segment:* 114 Newman-Unit 4	Must tie to Upload Template Total Project Cost; excludes AFUDC **Total Project Cost:*** 2,015,200
Has the RFP process been completed? ☒ **Yes** ☐ **No** **If yes, Bid Estimate Date:*** 7/12/2016	Excludes AFUDC; mandatory if RFP process complete **Bid Estimate:*** 1,667,500
First month of cash estimates **Anticipated Start Date:*** 8/15/2016	Last month of cash estimates **Anticipated Closing Date:*** 10/15/2016
Enter "N/A" if no associated projects **Associated Projects:*** N/A	

Project overview/scope:*

On June 2, 2016, the Newman U4 steam turbine was removed from service to investigate high turbine vibration that prevented the unit from operating. Inspection of the unit revealed that the thrust bearing had failed causing the internal components of the steam turbine to become damaged. Inspection of the rotor revealed that heavy rubbing of the row 5 & 6 turbine disks on the stationary row 6 & 7 diaphragms caused the downstream side of the rotor disks to harden. Because of this hardness, the row 5 & 6 turbine disks were deemed no longer fit for service.

Two options were presented to EPE for consideration. One, machine off the row 5 & 6 turbine disks and restore them by weld build up of new disks. The cost of this option ranged from $1.1M to $1.7M (excluding installation of the repaired rotor) with lead times ranging from 11 to 15 weeks plus approximately 2 weeks for installation. Two, replace the rotor with a refurbished rotor from Siemens. The cost of this option is $1.7M for the replacement rotor plus approximately $250K for the installation. The lead time for this option is 6 weeks for the rotor in the Siemens shop plus approximately 2 weeks for installation.

Newman Block 4 is capable of providing 230MW with both gas turbines and the steam turbine in operation. Currently, the gas turbines are available in dry mode, but are limited to 30MW each.

It is recommended to purchase the replacement rotor for the following reasons: 1) The cost for the replacement rotor is comparable to cost for repairing the existing rotor, 2) the lead time for the replacement rotor option is shorter than the repair option, and 3) the replacement rotor has fewer service hours than the existing rotor (176K versus 250K+).

Reason for Expenditure:*

External Mandate (and/or):

☒ Obligation to Serve/Reliability ☐ Safety ☐ Program ☐ Law ☐ Other
Describe: The loss of 170MW from Block 4 potentially affects EPE's ability to serve & reliability
Required by: Choose an item.

Internal or Customer Request:

☐ Capacity Expansion/Growth
If yes, ☐ Voltage/Load ☐ Future Expansion ☐ Customer Load
Identify customer, if applicable:
What is the timing requirement?

☒ System Performance and Reliability (describe): The loss of 170MW from Block 4 potentially affects EPE's ability to serve & reliability

☐ Quality Enhancement/New Technology (describe):

☐ Other (describe):

Has Environmental been contacted? ☐ **Yes** ☒ No **If "No", please explain why not?** Like kind replacement

List and provide evidence for expenditure (i.e. impact study and/or load forecast including version & date)**:**

Does this project replace another asset? ☒ Yes ☐ No	**If yes, please identify asset being replaced:** Exisiting U4 ST rotor

Please list major milestones:*

Milestone:	Completed by:

Generation Business Case Overview

Order replacement rotor	07/18/2016
Receive replacement rotor	08/31/2016
Install replacement rotor	09/14/2016
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.

Please list internal and external resources assigned to this project:*

Resource Name:	Department/Company:	Have you contacted this resource about the project & related timing:		
Adam Davila	Power Generation	☒ Yes	☐ No	If no, explain why not:
Siemens	Siemens	☒ Yes	☐ No	If no, explain why not:
Chris Carroll	Power Generation	☒ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:

Please identify any risks and/or constraints related to this project: N/A

CASH FLOW ANALYSIS

Proposed Project:*

A Capital Budget Upload Template for all proposed projects must be submitted separately. Please use the GEN Templates Ready for Updates form located under the *2017 Capital Budget May 2016 Actuals* folder in Livelink.

Do your cash flows include any incremental revenue enhancements and/or cost reductions?	☐ Yes	☐ No

- If yes, please describe in detail (by year if necessary):
- If yes, please identify the date to verify that the benefits of the project have been implemented:

Alternative Project:

A financial analysis is required only when alternatives are considered. If applicable, an NPV analysis must be submitted for each alternative. Please use the Generation Cash Flow for Alternative form located under the *2017 Capital Budget May 2016 Actuals* folder in Livelink.

Were alternatives considered?* ☒ Yes ☐ No **Describe alternatives:** See above

What was the reason for selecting the proposed project over the alternatives considered? See above

CHECKLIST FOR ITEMS TO BE SUBMITTED

Have all the applicable line items on the Business Case Overview been completed?	☒ Yes	☐ No	
Do the milestones you identified take into consideration availability of resources?	☒ Yes	☐ No	
Cash flow projection with detail must be submitted for the project, is it enclosed?	☒ Yes	☐ No	
Did you provide supporting documents for cash flows (i.e. L&R, Promod)?	☐ Yes	☐ No	
Does the Total Project Cost on page 1 equal the Total Project Cost on your cash flow analysis?	☐ Yes	☐ No	
If applicable, did you attach the financial analysis for each alternative?	☐ Yes	☐ No	☐ N/A

Please provide additional information not disclosed for the committee's consideration:

Preparer:*

Generation Business Case Overview

Name: Chris Carroll Date:07/14/2016	

Generation Business Case Overview

Original Version:	10/04/2016
Date of Current Version:	10/04/2016
Dates Revised:	Click here to enter a date.

This form and supplemental documentation should be submitted to Financial Forecasting when requesting funds for a capital project greater than $500,000 and for an individual work order, included in a blanket project, over $500,000.

PROJECT OVERVIEW

Project Description:* U4 W501B6 Spare GT Parts	**Project Manager:*** Chris Carroll
Project Number:* GN163	**Project Manager Phone Number:*** 2924
Owning Cost Center:* 5110	**Project Location:*** 10-TX Newman Unit 4
Business Segment:* 118 Newman-Gas Turbine 2	Must tie to Upload Template Total Project Cost; excludes AFUDC **Total Project Cost:*** 1,007,600
Has the RFP process been completed? ☒ **Yes** ☐ **No** **If yes, Bid Estimate Date:*** 9/21/2016	Excludes AFUDC; mandatory if RFP process complete **Bid Estimate:*** $1,000,000
First month of cash estimates **Anticipated Start Date:*** November 2016	Last month of cash estimates **Anticipated Closing Date:*** November 2016

Enter "N/A" if no associated projects
Associated Projects:* N/A

Project overview/scope:* EPE has the opportunity to purchase refurbished turbine components (turbine blades & vanes and combustion hardware) for the Newman Unit 4 Gas Turbines. Magers Turbines LLC, is currently selling the refurbished parts (See attached quote for parts listing).

The turbine blades will provide EPE with the ability to install the blades on the spare rotor that was refurbished earlier this year. With the turbine blades, the rotor will be complete and ready for installation when the time comes for the rotor to be installed. The other components are replaced at each outage and sent out for refurbishing. The addition of the additional components would allow EPE to be prepared with more than one set of components in the event of multiple outages occurring at the same time or within a couple of months of each other.

Additionally, the added components would allow EPE to search for better pricing on repairs and refurbishment on the used components pulled out during and outage. It would also allow EPE to hold off sending the replaced components out until peak generating season when repair shops are looking for work and more likely to offer discounts on inspection, refurbishment, and repairs. Typical discounts offered range from 10% to 30%.

Cost:
The cost of this project is $1,000,000. That includes the parts and shipping. The seller is giving EPE a 15% discount if all the parts in the attached quote are purchased, and an additional 30% discount is offered if all the parts are purchased by October 17th, 2016. The seller will also provide at no charge sets of fuel nozzles, clamshells, baskets, and transitions with seals if the October 17th date is met. If purchased new from the OEM, the parts would cost approximately $7,000,000.

External Mandate (and/or):

☒ Obligation to Serve/Reliability ☐ Safety ☐ Program ☐ Law ☐ Other
Describe:
Required by: Choose an item.

Internal or Customer Request:

Reason for Expenditure:*

☐ Capacity Expansion/Growth
If yes, ☐ Voltage/Load ☐ Future Expansion ☐ Customer Load
Identify customer, if applicable:
What is the timing requirement?

☒ System Performance and Reliability (describe): Spare components to maintain units.

☐ Quality Enhancement/New Technology (describe):

☐ Other (describe):

Has Environmental been contacted? ☐ **Yes** ☒ No **If "No", please explain why not?** Like kind replacement parts.

List and provide evidence for expenditure (i.e. impact study and/or load forecast including version & date)**:**

Does this project replace another asset? ☐ Yes ☒ No	**If yes, please identify asset being replaced:**

Please list major milestones:*

Milestone:	Completed by:
Receive Proposal	09/21/2016
Complete Business Case	10/04/2016

Generation Business Case Overview

Submit Business Case for review	10/04/2016
Receive approval to purchase	10/07/2016
Submit Purchase Requisition	10/07/2016
Receive components to stock	10/31/2016
Close Project	11/30/2016
	Click here to enter a date.

Please list internal and external resources assigned to this project:*

Resource Name:	Department/Company:	Have you contacted this resource about the project & related timing:		
Joe Magers	Magers Turbines LLC	☒ Yes	☐ No	If no, explain why not:
Chris Carroll	Outage	☒ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:
		☐ Yes	☐ No	If no, explain why not:

Please identify any risks and/or constraints related to this project:

CASH FLOW ANALYSIS

Proposed Project:*

A Capital Budget Upload Template for all proposed projects must be submitted separately. Please use the GEN Templates Ready for Updates form located under the *2017 Capital Budget May 2016 Actuals* folder in Livelink.

Do your cash flows include any incremental revenue enhancements and/or cost reductions?	☐ Yes	☒ No

- If yes, please describe in detail (by year if necessary):
- If yes, please identify the date to verify that the benefits of the project have been implemented:

Alternative Project:

A financial analysis is required only when alternatives are considered. If applicable, an NPV analysis must be submitted for each alternative. Please use the Generation Cash Flow for Alternative form located under the *2017 Capital Budget May 2016 Actuals* folder in Livelink.

Were alternatives considered?* ☐ Yes ☒ No	**Describe alternatives:**

What was the reason for selecting the proposed project over the alternatives considered?

CHECKLIST FOR ITEMS TO BE SUBMITTED

Have all the applicable line items on the Business Case Overview been completed?	☒ Yes	☐ No	
Do the milestones you identified take into consideration availability of resources?	☒ Yes	☐ No	
Cash flow projection with detail must be submitted for the project, is it enclosed?	☐ Yes	☒ No	
Did you provide supporting documents for cash flows (i.e. L&R, Promod)?	☐ Yes	☒ No	
Does the Total Project Cost on page 1 equal the Total Project Cost on your cash flow analysis?	☐ Yes	☒ No	
If applicable, did you attach the financial analysis for each alternative?	☐ Yes	☐ No	☒ N/A

Please provide additional information not disclosed for the committee's consideration:

Preparer:*	
Name: Chris Carroll	

Generation Business Case Overview

Date:10/04/2016	

Project Number:	GN209
Project Description:	GT3 Boiler Feed Pump Upgrade
Total Project Capital Cost:	$159,237
Reporting Date:	2/6/2019

This form and supplemental documentation should be submitted to Financial Forecasting when requesting funds for a capital project greater than $500,000 and for an individual work order, included in a blanket project, over $500,000.

PROJECT OVERVIEW

Project Manager:	Juan A. Sanchez Jr	**Project Manager Phone Number:**	915-543-2940
Owning Cost Center:	5110 POWER PLANT NEWMAN	**Major Project Location:**	11 - TX NEWMAN - UNIT 5
Project Functional Class:	Steam Production	**Business Segment:**	115 NEWMAN - UNIT 5 GT3
Associated Projects:	**N/A**		
In-Lieu of Component	N/A		
Project Priority	HIGH - Important and Urgent		
Project overview/scope:	Upgrade and replace kit parts to Newman GT3 Boiler Feed Pump		
Business Justification:	Pump was removed due to pump failure and due to time restraints to upgrade and return this pump back in time for our summer run, we had no choice but to have this pump sent to the OEM for review and upgrade of pump. This pump suffered a catastrophic event on or about June 1, 2018 which rendered this unit inoperable. The pump was sent to a repair shop for dissasemble, clean and inspect (DCI) and a quote has been provided with a detailed quote depicting labor and kit (parts) list and prices. This pump is required for reliability of Unit 5's HRSG 3 unit. The pump was sent to the OEM repair shop for sole sourcing.		
Project Risks and Constraints:	If we don't get this pump back in time for our Summer run, we risk on operating Newman's Block 5 fleet to a less than optimal operation. Newman Block 5 has two HRSG units and each one has a Boiler Feed Pump that is the main piece of equipment to feed water to the Heat Recovery Steam Generator (HRSG). Without this pump, the steam turbine will is reduced to half load.		
Primary Reason for Expenditure	Reliability		
Secondary Reason for Expenditure	Quality Improvement/Enhancement		
Has the RFP process been completed	☐ Yes ☑ No	**Excludes AFUDC; mandatory if RFP process complete**	
If yes, Bid Estimate Date:		**Bid Estimate:**	$ -
If dollars are included in a blanket project, what is the amount?	$ -	**Total dollars included in FERC account 183000. That amount must be included in project cost**	
Estimated Start Date:	4/8/2019	**Estimated Completion Date:**	4/30/2019

If applicable, describe and identify asset being replaced/retired

Replacement of internal pump kit(s).

Please descrive the potential Cost Savings and/or Cost Avoidance for this project:

risk on operating Newman's Block 5 fleet to a less than optimal operation.

Describe alternatives considered:

None

What was the reason for selecting the proposed project over the alternatives considered?

COST/BENEFIT ANALYSIS

Select Best Alternative: **Alternative A**

	10 Year Total	30 Year Total	10 Year PV	30 Year PV
COST				
Capital Expenditures:	**$159,237**	**$159,237**	**$148,785**	**$148,785**
O&M Expenses:	**$0**	**$0**	**$0**	**$0**
Financing Costs (Benefit):	**$25,624**	**($102,884)**	**$20,403**	**($9,912)**
Income Tax Exp (Benefit):	**$41,706**	**$108,004**	**$28,746**	**$48,914**
TOTAL COSTS	**$226,567**	**$164,357**	**$197,934**	**$187,787**
BENEFITS				
Revenue Requirement:	**$213,720**	**$362,901**	**$151,499**	**$205,317**

Cost Savings:	**$0**	**$0**	**$0**	**$0**
Cost Avoidance:	**$0**	**$0**	**$0**	**$0**
AFUDC:	**$3,816**	**$3,816**	**$3,566**	**$3,566**
Other Benefits:	**$0**	**$0**	**$0**	**$0**
TOTAL BENEFITS	**$217,536**	**$366,717**	**$155,065**	**$208,882**
BENEFIT-COST RATIO			**0.78**	**1.11**

Please list major milestones:

Milestone:	Completed by:
Quote	1/11/2019
Capital request	1/11/2019
Purchase Requisition	1/14/2019
Purchase Order	1/21/2019
Pump received on site	2/25/2019
Invoiced	3/4/2019
PO Closed	4/30/2019
	Click here to enter a date.

Please list internal and external resources assigned to this project:*

Resource Name:	Department/Company:	Have you contacted this resource about the project & related timing:			
Juan A. Sanchez	Power Generation	☑ Yes	☐ No	If no, explain why not:	
Repair Shop	Flowserve	☑ Yes	☐ No	If no, explain why not:	
Enrique Acosta	Supply Chain Management	☐ Yes	☑ No	If no, explain why not:	Waiting on all approvals
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	

checklist for items to be submitted

Has Environmental been contacted?	☐ Yes	☑ No
If applicable, has land been secured for this project?	☐ Yes	☑ No
Have all the applicable line items on the Business Case Overview been completed?	☑ Yes	☐ No
Do the milestones you identified take into consideration availability of resources?	☑ Yes	☐ No
Cash flow projection with detail must be submitted for the project, is it enclosed?	☑ Yes	☐ No
Did you provide supporting documents for cash flows (i.e. L&R, Promod)?	☐ Yes	☑ No
Does the Total Project Cost on page 1 equal the Total Project Cost on your cash flow analysis?	☑ Yes	☐ No
If applicable, did you attach the financial analysis for each alternative?	☑ Yes	☐ No

Please provide additional information not disclosed for the committee's consideration:

Project Manager / Preparer Signature:

Name:	Juan A. Sanchez Jr.
Date:	2/13/2019

Sponsor / Approver Signature:

Name:	
Date:	

Please fill in the white areas with no shading.

Use this form if the new project has not been created in PowerPlant after requesting a new project through Cherwell

Project Number:	GN210
Project Description:	U4/GT1 & GT2 Turbine Capital Replacement Parts (W501B6)
Total Project Capital Cost:	$6,894,966
Reporting Date:	

This form and supplemental documentation should be submitted to Financial Forecasting when requesting funds for a capital project greater than $500,000 and for an individual work order, included in a blanket project, over $500,000.

PROJECT OVERVIEW

Project Manager:	Chris Carroll	**Project Manager Phone Number:**	915-
Owning Cost Center:	5110 POWER PLANT NEWMAN	**Major Project Location:**	10 - TX NEWMAN - UNIT 4
Project Functional Class:	Other Production	**Business Segment:**	114 NEWMAN - UNIT 4
Associated Projects:			
In-Lieu of Component			
Project Priority	HIGH - Important and Urgent		
Project overview/scope:	Procurement of replacement capital parts for Newman GT1 and GT2 - W501B6 units.		
Business Justification:	Have a complete (one) set of turbine components for GT1 and GT2 in the event parts need to be replaced with urgency reliable operation.		
Project Risks and Constraints:			
Primary Reason for Expenditure	Reliability		
Secondary Reason for Expenditure	Quality Improvement/Enhancement		
Has the RFP process been completed	☐ Yes ☐ No	**Excludes AFUDC; mandatory if RFP process complete**	
If yes, Bid Estimate Date:		**Bid Estimate:**	$ -
If dollars are included in a blanket project, what is the amount?	$ -	**Total dollars included in FERC account 183000. That amount must be included in project cost**	
Estimated Start Date:	5/29/2019	**Estimated Completion Date:**	4/30/2020

If applicable, describe and identify asset being replaced/retired

Turbine components of the W501B6 units (NM4 GT1 & GT2) will be replaced as needed with the replacement parts being procured as part of this project.

Please descrive the potential Cost Savings and/or Cost Avoidance for this project:

Having turbine components readily available will reduce GT1/GT2 shut down time for equipment failure referred to turbine components.

Describe alternatives considered:

Bying replacement parts as needed.

What was the reason for selecting the proposed project over the alternatives considered?

Extremely long lead times.

COST/BENEFIT ANALYSIS

Select Best Alternative: **Status Quo - Do Nothing**

	10 Year Total	30 Year Total	10 Year PV	30 Year PV
COST				
Capital Expenditures:	$6,894,966	$6,894,966	$6,019,517	$6,019,517
O&M Expenses:	$0	$0	$0	$0
Financing Costs (Benefit):	$1,120,677	($3,946,876)	$824,303	($338,261)
Income Tax Exp (Benefit):	$1,611,987	$4,457,863	$1,081,163	$1,945,250
TOTAL COSTS	$9,627,630	$7,405,953	$7,924,984	$7,626,506
BENEFITS				
Revenue Requirement:	$8,421,571	$15,353,471	$5,756,813	$8,217,273
Cost Savings:	$0	$0	$0	$0

Cost Avoidance:	**$0**	**$0**	**$0**	**$0**
AFUDC:	**$81,674**	**$81,674**	**$71,304**	**$71,304**
Other Benefits:	**$0**	**$0**	**$0**	**$0**
TOTAL BENEFITS	**$8,503,245**	**$15,435,144**	**$5,828,117**	**$8,288,577**
BENEFIT-COST RATIO			**0.74**	**1.09**

Please list major milestones:

Milestone:	Completed by:
Letter of Intent to EthosEnergy for replacement capital parts procurement	5/29/2019
Issue PO to EthosEnergy	6/15/2019
Manufacturing of Parts	3/31/2020
Delivery of First Set - Stationary Parts	4/1/2020
Delivery of Second Set of Parts	4/30/2020
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.

Please list internal and external resources assigned to this project:*

Resource Name:	Department/Company:	Have you contacted this resource about the project & related timing:			
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	

checklist for items to be submitted

Has Environmental been contacted?	☐ Yes	☑ No
If applicable, has land been secured for this project?	☐ Yes	☑ No
Have all the applicable line items on the Business Case Overview been completed?	☑ Yes	☐ No
Do the milestones you identified take into consideration availability of resources?	☑ Yes	☐ No
Cash flow projection with detail must be submitted for the project, is it enclosed?	☑ Yes	☐ No
Did you provide supporting documents for cash flows (i.e. L&R, Promod)?	☐ Yes	☑ No
Does the Total Project Cost on page 1 equal the Total Project Cost on your cash flow analysis?	☐ Yes	☐ No
If applicable, did you attach the financial analysis for each alternative?	☐ Yes	☐ No

Please provide additional information not disclosed for the committee's consideration:

Project Manager / Preparer Signature:

Name:	Chris Carroll
Date:	5/29/2019

Sponsor / Approver Signature:

Name:	
Date:	

Please fill in the white areas with no shading.

Use this form if the new project has not been created in PowerPlant after requesting a new project through Cherwell

Project Number:	GN211
Project Description:	GE 7EAs Capital Parts Replacement- Newman GT3 & GT4 Units
Total Project Capital Cost:	$0
Reporting Date:	

This form and supplemental documentation should be submitted to Financial Forecasting when requesting funds for a capital project greater than $500,000 and for an individual work order, included in a blanket project, over $500,000.

PROJECT OVERVIEW

Project Manager:	Chris Carroll	**Project Manager Phone Number:**	915-543-2924
Owning Cost Center:	5110 POWER PLANT NEWMAN	**Major Project Location:**	11 - TX NEWMAN - UNIT 5
Project Functional Class:	Other Production	**Business Segment:**	115 NEWMAN - UNIT 5 GT3
Associated Projects:			
In-Lieu of Component			
Project Priority	HIGH - Important and Urgent		
Project overview/scope:	Procurement of replacement capital parts for Newman GT3 and GT3 - 7EA GE units. These parts will be installed into the machines next spring in preparation for the 2020 summer operation. The parts to be procured are the stage 3 buckets, nozzles and shrouds.		
Business Justification:	GT3 and GT4 provide 140MW of capacity support in simple cycle confirmation and 282 MW in combined cycle configuration. The need for the requested spare buckets, nozzles, and shrouds is required to mitigate lead time acquisition. Current lead times are in excess of 40 weeks and depending on the timing of the need, could result in capacity shortfalls for peak season operation. In addition to needing to import (likely higher priced) replacement power during summer run, depending on system conditions, EPIC may not be sufficient to support reliable system operations across peak hours. Having turbine components readily available will reduce GT3/GT4 down time for equipment failure referred to turbine components.Have a complete (one) set of turbine stage 3 components for GT3 and GT4 in the event parts need to be replaced with urgency reliable operation. EPIC currently owns a spare set of turbine stage 1 and stage 2 components.		
Project Risks and Constraints:	The project risks are failure to receive parts soon enough to perform outages before the 2020 summer season. It is critical to get the purchase of these parts approved in order to make the manufacturing window. From a reliability viewpoint, the current turbine components are at the end of their usable life. Risk of failure is difficult to dertermine but it does increase with the age of the current parts and the cost of a failure can be several million dollars on average.		
Primary Reason for Expenditure	Reliability		
Secondary Reason for Expenditure	Quality Improvement/Enhancement		
Has the RFP process been completed	☐ Yes ☑ No	**Excludes AFUDC; mandatory if RFP process complete**	
If yes, Bid Estimate Date:		**Bid Estimate:**	$ -
If dollars are included in a blanket project, what is the amount?	$ -	**Total dollars included in FERC account 183000. That amount must be included in project cost**	
Estimated Start Date:	1/0/1900	**Estimated Completion Date:**	1/0/1900

If applicable, describe and identify asset being replaced/retired

Turbine components of the GE 7EAS units (NM5 GT3 & GT4) will be replaced with the new components during next spring's outage season.

Please descrive the potential Cost Savings and/or Cost Avoidance for this project:

The cost savings is in the risk avoidance. A failed turbine bucket can quote to millions in unplanned and unbudgeted repair costs.

Describe alternatives considered:

Alternatives considered in the past have been to purchase "grey market" or used parts and to destructively test a sample of existing parts to determine the status of the remaining parts in the set and replace just the part tested.

What was the reason for selecting the proposed project over the alternatives considered?

Experience has shown that the "pedigree" or history of grey market parts is too unreliable and with the advanced age of existing parts, destructive testing of a sample does not necessarily provide an accurate assesment of the remaining parts.

COST/BENEFIT ANALYSIS

Select Best Alternative: **Alternative B**

	10 Year Total	30 Year Total	10 Year PV	30 Year PV
COST				
Capital Expenditures:	**$0**	**$0**	**$0**	**$0**
O&M Expenses:	**$0**	**$0**	**$0**	**$0**

Financing Costs (Benefit):	**$0**	**$0**	**$0**	**$0**
Income Tax Exp (Benefit):	**$0**	**$0**	**$0**	**$0**
TOTAL COSTS	**$0**	**$0**	**$0**	**$0**
BENEFITS				
Revenue Requirement:	**$0**	**$0**	**$0**	**$0**
Cost Savings:	**$0**	**$0**	**$0**	**$0**
Cost Avoidance:	**$0**	**$0**	**$0**	**$0**
AFUDC:	**$0**	**$0**	**$0**	**$0**
Other Benefits:	**$0**	**$0**	**$0**	**$0**
TOTAL BENEFITS	**$0**	**$0**	**$0**	**$0**
BENEFIT-COST RATIO			**0.00**	**0.00**

Please list major milestones:

Milestone:	Completed by:
Inform Vendor of parts procurement	6/10/2019
Issue a PO to Vendor	6/11/2019
Manufacturing of Parts	6/12/2019
Delivery of Parts	1/15/2020
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.

Please list internal and external resources assigned to this project:*

Resource Name:	Department/Company:	Have you contacted this resource about the project & related timing:			
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	

checklist for items to be submitted

Has Environmental been contacted?	☐ Yes	☐ No
If applicable, has land been secured for this project?	☐ Yes	☑ No
Have all the applicable line items on the Business Case Overview been completed?	☑ Yes	☐ No
Do the milestones you identified take into consideration availability of resources?	☑ Yes	☐ No
Cash flow projection with detail must be submitted for the project, is it enclosed?	☑ Yes	☐ No
Did you provide supporting documents for cash flows (i.e. L&R, Promod)?	☐ Yes	☑ No
Does the Total Project Cost on page 1 equal the Total Project Cost on your cash flow analysis?	☐ Yes	☐ No
If applicable, did you attach the financial analysis for each alternative?	☐ Yes	☑ No

Please provide additional information not disclosed for the committee's consideration:

Project Manager / Preparer Signature:

Name:	Chris Carroll
Date:	6/5/2019

Sponsor / Approver Signature:	
Name:	
Date:	

Please fill in the white areas with no shading.

Use this form if the new project has not been created in PowerPlant after requesting a new project through Cherwell

Project Number:	
Project Description:	NW U2 AUTO VOLT REGULATOR OVATION UPGRADE
Total Project Capital Cost:	$192,320
Reporting Date:	6/26/2019

This form and supplemental documentation should be submitted to Financial Forecasting when requesting funds for a capital project greater than $500,000 and for an individual work order, included in a blanket project, over $500,000.

PROJECT OVERVIEW

Project Manager:	Jesus Marquez	**Project Manager Phone Number:**	915-543-2935
Owning Cost Center:	5110 POWER PLANT NEWMAN	**Major Project Location:**	8 - TX NEWMAN - UNIT 2
Project Functional Class:	Steam Production	**Business Segment:**	112 NEWMAN - UNIT 2
Associated Projects:	NONE		
In-Lieu of Component			
Project Priority	MEDIUM - Important but Not Urgent		
Project overview/scope:	Unit 2 Auto voltage regulator front end upgrade. Change out the controls from VME technology to Ovation.		
Business Justification:	In 2013. U2 AVR was upgraded to a DGC (VME) Emerson, at that moment Emerson had not developed the Ovation AVR controls. Now that they have Ovation controls for the AVR, upgrading to Ovation would enhance the operation of the AVR. Further Newman is upgrading all their controls to Ovation, this would provide a better interface between the DCS and the AVR. In addition , Emerson has notified us that they will support VME technology for 5 more years.		
Project Risks and Constraints:			
Primary Reason for Expenditure	Quality Enhancement		
Secondary Reason for Expenditure	New Technology		
Has the RFP process been completed	☐ Yes ☑ No	**Excludes AFUDC; mandatory if RFP process complete**	
If yes, Bid Estimate Date:		**Bid Estimate:**	$ -
If dollars are included in a blanket project, what is the amount?	$ -	**Total dollars included in FERC account 183000. That amount must be included in project cost**	$ -
Estimated Start Date:	1/20/2020	**Estimated Completion Date:**	5/15/2020

If applicable, describe and identify asset being replaced/retired

Emerson DGC VME Controller

Please describe the potential Cost Savings and/or Cost Avoidance for this project:

The VME technology will not be supported in 5 years and not many qualified people around to service equipment at this moment.

Describe alternatives considered:

What was the reason for selecting the proposed project over the alternatives considered?

COST/BENEFIT ANALYSIS

Select Best Alternative: **Alternative A**

	10 Year Total	30 Year Total	10 Year PV	30 Year PV
COST				
Capital Expenditures:	**$192,320**	**$192,320**	**$179,696**	**$179,696**
O&M Expenses:	**$0**	**$0**	**$0**	**$0**
Financing Costs (Benefit):	**$31,466**	**($127,976)**	**$25,053**	**($12,474)**
Income Tax Exp (Benefit):	**$50,310**	**$133,484**	**$34,458**	**$59,634**
TOTAL COSTS	**$274,096**	**$197,828**	**$239,207**	**$226,857**
BENEFITS				
Revenue Requirement:	**$259,193**	**$445,987**	**$183,014**	**$250,015**
Cost Savings:	**$0**	**$0**	**$0**	**$0**

Cost Avoidance:	**$0**	**$0**	**$0**	**$0**
AFUDC:	**$6,392**	**$6,392**	**$5,972**	**$5,972**
Other Benefits:	**$0**	**$0**	**$0**	**$0**
TOTAL BENEFITS	**$265,584**	**$452,378**	**$188,987**	**$255,987**
BENEFIT-COST RATIO			**0.79**	**1.13**

Please list major milestones:

Milestone:	Completed by:
Issue PO	9/15/2019
Receive equipment	3/15/2020
Install equipment	4/1/2020
Complete installation and testing	4/14/2020
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.

Please list internal and external resources assigned to this project:

Resource Name:	Department/Company:	Have you contacted this resource about the project & related timing:			
Jesus Marquez	Power Gen/EPE	☑ Yes	☐ No	If no, explain why not:	
TBD	Power Gen/EPE	☐ Yes	☑ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	

checklist for items to be submitted

Has Environmental been contacted?	☐ Yes	☑ No
If applicable, has land been secured for this project?	☐ Yes	☑ No
Have all the applicable line items on the Business Case Overview been completed?	☑ Yes	☐ No
Do the milestones you identified take into consideration availability of resources?	☑ Yes	☐ No
Cash flow projection with detail must be submitted for the project, is it enclosed?	☑ Yes	☐ No
Did you provide supporting documents for cash flows (i.e. L&R, Promod)?	☐ Yes	☑ No
Does the Total Project Cost on page 1 equal the Total Project Cost on your cash flow analysis?	☑ Yes	☐ No
If applicable, did you attach the financial analysis for each alternative?	☐ Yes	☑ No

Please provide additional information not disclosed for the committee's consideration:

Project Manager / Preparer Signature:

Name:	Jesus Marquez
Date:	6/26/2019

Approver Signature:

Name:	
Date:	

Please fill in the white areas with no shading.

Use this form if the new project has not been created in PowerPlant after requesting a new project through Cherwell

Run Spell Check Function

Project Number:	
Project Description:	NW U3 AUTO VOLT REGULATOR OVATION UPGRADE
Total Project Capital Cost:	$192,320
Reporting Date:	6/26/2019

This form and supplemental documentation should be submitted to Financial Forecasting when requesting funds for a capital project greater than $500,000 and for an individual work order, included in a blanket project, over $500,000.

PROJECT OVERVIEW

Project Manager:	Jesus Marquez	**Project Manager Phone Number:**	915-543-2935
Owning Cost Center:	5110 POWER PLANT NEWMAN	**Major Project Location:**	9 - TX NEWMAN - UNIT 3
Project Functional Class:	Steam Production	**Business Segment:**	113 NEWMAN - UNIT 3
Associated Projects:	NONE		
In-Lieu of Component			
Project Priority	MEDIUM - Important but Not Urgent		
Project overview/scope:	Unit 3 Auto voltage regulator front end upgrade. Change out the controls from VME technology to Ovation.		
Business Justification:	In 2016. U2 AVR was upgraded to a DGC (VME) Emerson, at that moment Emerson had not developed the Ovation AVR controls. Now that they have Ovation controls for the AVR, upgrading to Ovation would enhance the operation of the AVR. Further Newman is upgrading all their controls to Ovation, this would provide a better interface between the DCS and the AVR. In addition , Emerson has notified us that they will support VME technology for 5 more years.		
Project Risks and Constraints:			
Primary Reason for Expenditure	Quality Enhancement		
Secondary Reason for Expenditure	New Technology		
Has the RFP process been completed	☐ Yes ☑ No	**Excludes AFUDC; mandatory if RFP process complete**	
If yes, Bid Estimate Date:		**Bid Estimate:**	$ -
If dollars are included in a blanket project, what is the amount?	$ -	**Total dollars included in FERC account 183000. That amount must be included in project cost**	$ -
Estimated Start Date:	1/13/2020	**Estimated Completion Date:**	5/29/2020

If applicable, describe and identify asset being replaced/retired

Emerson DGC VME Controller

Please describe the potential Cost Savings and/or Cost Avoidance for this project:

The VME technology will not be supported in 5 years and not many qualified people around to service equipment at this moment.

Describe alternatives considered:

What was the reason for selecting the proposed project over the alternatives considered?

COST/BENEFIT ANALYSIS

Select Best Alternative: **Alternative A**

	10 Year Total	30 Year Total	10 Year PV	30 Year PV
COST				
Capital Expenditures:	**$192,320**	**$192,320**	**$179,696**	**$179,696**
O&M Expenses:	**$0**	**$0**	**$0**	**$0**
Financing Costs (Benefit):	**$31,466**	**($127,976)**	**$25,053**	**($12,474)**
Income Tax Exp (Benefit):	**$50,310**	**$133,484**	**$34,458**	**$59,634**
TOTAL COSTS	**$274,096**	**$197,828**	**$239,207**	**$226,857**
BENEFITS				
Revenue Requirement:	**$259,193**	**$445,987**	**$183,014**	**$250,015**
Cost Savings:	**$0**	**$0**	**$0**	**$0**
Cost Avoidance:	**$0**	**$0**	**$0**	**$0**

AFUDC:	**$6,392**	**$6,392**	**$5,972**	**$5,972**
Other Benefits:	**$0**	**$0**	**$0**	**$0**
TOTAL BENEFITS	**$265,584**	**$452,378**	**$188,987**	**$255,987**
BENEFIT-COST RATIO			**0.79**	**1.13**

Please list major milestones:

Milestone:	Completed by:
Issue PO	9/15/2019
Receive equipment	3/15/2020
Install equipment	4/14/2020
Complete installation and testing	4/30/2020
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.

Please list internal and external resources assigned to this project:

Resource Name:	Department/Company:	Have you contacted this resource about the project & related timing:			
Jesus Marquez	Power Gen/EPE	☑ Yes	☐ No	If no, explain why not:	
TBD	Power Gen/EPE	☐ Yes	☑ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	

checklist for items to be submitted

Has Environmental been contacted?	☐ Yes	☑ No
If applicable, has land been secured for this project?	☐ Yes	☑ No
Have all the applicable line items on the Business Case Overview been completed?	☑ Yes	☐ No
Do the milestones you identified take into consideration availability of resources?	☑ Yes	☐ No
Cash flow projection with detail must be submitted for the project, is it enclosed?	☑ Yes	☐ No
Did you provide supporting documents for cash flows (i.e. L&R, Promod)?	☐ Yes	☑ No
Does the Total Project Cost on page 1 equal the Total Project Cost on your cash flow analysis?	☑ Yes	☐ No
If applicable, did you attach the financial analysis for each alternative?	☐ Yes	☑ No

Please provide additional information not disclosed for the committee's consideration:

Project Manager / Preparer Signature:

Name:	Jesus Marquez
Date:	6/26/2019

Approver Signature:

Name:	
Date:	

Please fill in the white areas with no shading.

Use this form if the new project has not been created in PowerPlant after requesting a new project through Cherwell

Run Spell Check Function

Project Number:	
Project Description:	NW U3 UNINTERUPTIBLE POWER SUPPLY UPGRADE
Total Project Capital Cost:	$293,672
Reporting Date:	6/26/2019

This form and supplemental documentation should be submitted to Financial Forecasting when requesting funds for a capital project greater than $500,000 and for an individual work order, included in a blanket project, over $500,000.

PROJECT OVERVIEW

Project Manager:	Jesus Marquez	**Project Manager Phone Number:**	915-543-2935
Owning Cost Center:	5110 POWER PLANT NEWMAN	**Major Project Location:**	9 - TX NEWMAN - UNIT 3
Project Functional Class:	Steam Production	**Business Segment:**	113 NEWMAN - UNIT 3
Associated Projects:	NONE		
In-Lieu of Component			
Project Priority	MEDIUM - Important but Not Urgent		
Project overview/scope:	Turnkey Project to Upgrade current UPS to new 20kva UPS to include engineering , removal and installation. Also to include line condtioner,battery charger and all required panels to critical equipment.		
Business Justification:	The current UPS was installed in 1995, the last two years we have had issue with the UPS failing. The failures have caused units to trip and go off line. On 5/17/2019 we tripped Unit 1 and Unit 3 due to a failure on the UPS, further we are having a hard time finding parts to repair the UPS and the repairs are very costly.		
Project Risks and Constraints:			
Primary Reason for Expenditure	System Reliability & Improvement		
Secondary Reason for Expenditure	Quality Enhancement		
Has the RFP process been completed	☐ Yes ☑ No	**Excludes AFUDC; mandatory if RFP process complete**	
If yes, Bid Estimate Date:		**Bid Estimate:**	$ -
If dollars are included in a blanket project, what is the amount?	$ -	**Total dollars included in FERC account 183000. That amount must be included in project cost**	$ -
Estimated Start Date:	1/6/2020	**Estimated Completion Date:**	5/15/2020

If applicable, describe and identify asset being replaced/retired

SCI 20KVA UPS ,battery charger with 2 input sources.

Please describe the potential Cost Savings and/or Cost Avoidance for this project:

Upgrading UPS will reduce unit trips. The trips are costly due to unit downtime .

Describe alternatives considered:

What was the reason for selecting the proposed project over the alternatives considered?

COST/BENEFIT ANALYSIS

Select Best Alternative: **Alternative A**

	10 Year Total	30 Year Total	10 Year PV	30 Year PV
COST				
Capital Expenditures:	**$293,672**	**$293,672**	**$274,396**	**$274,396**
O&M Expenses:	**$0**	**$0**	**$0**	**$0**
Financing Costs (Benefit):	**$48,049**	**($195,417)**	**$38,255**	**($19,047)**
Income Tax Exp (Benefit):	**$76,824**	**$203,822**	**$52,619**	**$91,061**
TOTAL COSTS	**$418,545**	**$302,077**	**$365,270**	**$346,410**
BENEFITS				
Revenue Requirement:	**$395,785**	**$681,019**	**$279,462**	**$381,772**
Cost Savings:	**$0**	**$0**	**$0**	**$0**
Cost Avoidance:	**$0**	**$0**	**$0**	**$0**

AFUDC:	**$9,760**	**$9,760**	**$9,119**	**$9,119**
Other Benefits:	**$0**	**$0**	**$0**	**$0**
TOTAL BENEFITS	**$405,546**	**$690,779**	**$288,581**	**$390,891**
BENEFIT-COST RATIO			**0.79**	**1.13**

Please list major milestones:

Milestone:	Completed by:
Issue PO	10/1/2019
Receive equipment	2/1/2020
Install equipment	4/1/2020
Complete installation and testing	4/14/2020
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.

Please list internal and external resources assigned to this project:

Resource Name:	Department/Company:	Have you contacted this resource about the project & related timing:			
Jesus Marquez	Power Gen/EPE	☑ Yes	☐ No	If no, explain why not:	
TBD	Power Gen/EPE	☐ Yes	☑ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	

checklist for items to be submitted

Has Environmental been contacted?	☑ Yes	☐ No
If applicable, has land been secured for this project?	☐ Yes	☑ No
Have all the applicable line items on the Business Case Overview been completed?	☑ Yes	☐ No
Do the milestones you identified take into consideration availability of resources?	☑ Yes	☐ No
Cash flow projection with detail must be submitted for the project, is it enclosed?	☑ Yes	☐ No
Did you provide supporting documents for cash flows (i.e. L&R, Promod)?	☐ Yes	☑ No
Does the Total Project Cost on page 1 equal the Total Project Cost on your cash flow analysis?	☑ Yes	☐ No
If applicable, did you attach the financial analysis for each alternative?	☐ Yes	☑ No

Please provide additional information not disclosed for the committee's consideration:

Project Manager / Preparer Signature:

Name:	Jesus Marquez
Date:	6/26/2019

Approver Signature:

Name:	
Date:	

Please fill in the white areas with no shading.

Use this form if the new project has not been created in PowerPlant after requesting a new project through Cherwell

Run Spell Check Function

Project Number:	
Project Description:	NW U4 COOLING TOWER TRANSFORMER REPLACEMENT
Total Project Capital Cost:	$119,609
Reporting Date:	6/26/2019

This form and supplemental documentation should be submitted to Financial Forecasting when requesting funds for a capital project greater than $500,000 and for an individual work order, included in a blanket project, over $500,000.

PROJECT OVERVIEW

Project Manager:	Jesus Marquez	**Project Manager Phone Number:**	915 543-935
Owning Cost Center:	5110 POWER PLANT NEWMAN	**Major Project Location:**	10 - TX NEWMAN - UNIT 4
Project Functional Class:	Steam Production	**Business Segment:**	114 NEWMAN - UNIT 4
Associated Projects:	NONE		
In-Lieu of Component			
Project Priority	HIGH - Important and Urgent		
Project overview/scope:	Cooling tower transformer, disconnect switch and under ground cable replacement		
Business Justification:	On May 16, 2019. the transformer of the A side to the cooling tower load center faulted. The fault damaged the disconnect switch and the under ground feeder cable. The cooling tower switch gear has a redundant transformer and is currently running on that side. The A side transformer, switch and underground cable needs to be replaced ASAP to assure Unit 4 stays on line. Loss of the B side will cause a total loss of Block 4		
Project Risks and Constraints:			
Primary Reason for Expenditure	System Reliability & Improvement		
Secondary Reason for Expenditure	Safety & Security		
Has the RFP process been completed	☑ Yes ☐ No	**Excludes AFUDC; mandatory if RFP process complete**	
If yes, Bid Estimate Date:		**Bid Estimate:**	$ -
If dollars are included in a blanket project, what is the amount?	$ 117,000.00	**Total dollars included in FERC account 183000. That amount must be included in project cost**	$ -
Estimated Start Date:	7/1/2019	**Estimated Completion Date:**	10/31/2019

If applicable, describe and identify asset being replaced/retired

1500 kva transformer 4160v /480v 3 phase , 4160v switch and 1500ft of 250 mcm cable.

Please describe the potential Cost Savings and/or Cost Avoidance for this project:

If we lose the B side of load center there will be a loss of 268 mw

Describe alternatives considered:

What was the reason for selecting the proposed project over the alternatives considered?

COST/BENEFIT ANALYSIS

Select Best Alternative: **Alternative A**

	10 Year Total	30 Year Total	10 Year PV	30 Year PV
COST				
Capital Expenditures:	**$119,609**	**$119,609**	**$119,609**	**$119,609**
O&M Expenses:	**$0**	**$0**	**$0**	**$0**
Financing Costs (Benefit):	**$17,690**	**($80,865)**	**$15,505**	**($8,403)**
Income Tax Exp (Benefit):	**$34,808**	**$80,622**	**$25,026**	**$39,135**
TOTAL COSTS	**$172,107**	**$119,366**	**$160,140**	**$150,342**
BENEFITS				
Revenue Requirement:	**$172,952**	**$267,889**	**$128,395**	**$163,719**
Cost Savings:	**$0**	**$0**	**$0**	**$0**
Cost Avoidance:	**$0**	**$0**	**$0**	**$0**

AFUDC:	**$1,776**	**$1,776**	**$1,776**	**$1,776**
Other Benefits:	**$0**	**$0**	**$0**	**$0**
TOTAL BENEFITS	**$174,728**	**$269,665**	**$130,171**	**$165,495**
BENEFIT-COST RATIO			**0.81**	**1.10**

Please list major milestones:

Milestone:	Completed by:
Issue PO for Transformer	7/8/2019
Issue PO for Switch	7/8/2019
Install equipment	9/16/2019
Complete installation and testing	10/1/2019
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.

Please list internal and external resources assigned to this project:

Resource Name:	Department/Company:	Have you contacted this resource about the project & related timing:			
Jesus Marquez	Power Gen/EPE	☑ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	

checklist for items to be submitted

Has Environmental been contacted?	☐ Yes	☐ No
If applicable, has land been secured for this project?	☐ Yes	☑ No
Have all the applicable line items on the Business Case Overview been completed?	☑ Yes	☐ No
Do the milestones you identified take into consideration availability of resources?	☑ Yes	☐ No
Cash flow projection with detail must be submitted for the project, is it enclosed?	☑ Yes	☐ No
Did you provide supporting documents for cash flows (i.e. L&R, Promod)?	☐ Yes	☑ No
Does the Total Project Cost on page 1 equal the Total Project Cost on your cash flow analysis?	☑ Yes	☐ No
If applicable, did you attach the financial analysis for each alternative?	☐ Yes	☑ No

Please provide additional information not disclosed for the committee's consideration:

Project Manager / Preparer Signature:

Name:	Jesus Marquez
Date:	6/26/2019

Approver Signature:

Name:	
Date:	

Please fill in the white areas with no shading.

Use this form if the new project has not been created in PowerPlant after requesting a new project through Cherwell

Run Spell Check Function

Project Number:	
Project Description:	NW U2 UNINTERUPTIBLE POWER SUPPLY UPGRADE
Total Project Capital Cost:	$293,672
Reporting Date:	6/26/2019

This form and supplemental documentation should be submitted to Financial Forecasting when requesting funds for a capital project greater than $500,000 and for an individual work order, included in a blanket project, over $500,000.

PROJECT OVERVIEW

Project Manager:	Jesus Marquez	**Project Manager Phone Number:**	915-543-2935
Owning Cost Center:	5110 POWER PLANT NEWMAN	**Major Project Location:**	8 - TX NEWMAN - UNIT 2
Project Functional Class:	Steam Production	**Business Segment:**	112 NEWMAN - UNIT 2
Associated Projects:	NONE		
In-Lieu of Component			
Project Priority	MEDIUM - Important but Not Urgent		
Project overview/scope:	Turnkey Project to install new 20 KVA UPS to include engineering , removal and installation. To include line conditioner ,battery charger and all required cable and panels to critical equipment.		
Business Justification:	Currently the UPS on Unit 3 is supplying power to Unit 1 and Unit 2. The UPS is loaded heavily and is running at maximum load. U2 and U1 loads need to be separated from Unit 3 UPS to assure better reliability for all units. Further, it will make maintenance on UPS much easier and assure better unit radiality		
Project Risks and Constraints:			
Primary Reason for Expenditure	System Reliability & Improvement		
Secondary Reason for Expenditure	Quality Enhancement		
Has the RFP process been completed	☐ Yes ☑ No	**Excludes AFUDC; mandatory if RFP process complete**	
If yes, Bid Estimate Date:		**Bid Estimate:**	$ -
If dollars are included in a blanket project, what is the amount?	$ -	**Total dollars included in FERC account 183000. That amount must be included in project cost**	$ -
Estimated Start Date:	2/7/2020	**Estimated Completion Date:**	5/29/2020
If applicable, describe and identify asset being replaced/retired			
Please describe the potential Cost Savings and/or Cost Avoidance for this project: Installing a new UPS will reduce multiple unit trips. The trips are costly due to unit downtime .			
Describe alternatives considered:			
What was the reason for selecting the proposed project over the alternatives considered?			

COST/BENEFIT ANALYSIS

Select Best Alternative: **Alternative A**

	10 Year Total	30 Year Total	10 Year PV	30 Year PV
COST				
Capital Expenditures:	**$293,672**	**$293,672**	**$274,396**	**$274,396**
O&M Expenses:	**$0**	**$0**	**$0**	**$0**
Financing Costs (Benefit):	**$47,783**	**($193,517)**	**$38,045**	**($18,790)**
Income Tax Exp (Benefit):	**$76,855**	**$202,270**	**$52,752**	**$90,775**
TOTAL COSTS	**$418,310**	**$302,425**	**$365,192**	**$346,381**
BENEFITS				
Revenue Requirement:	**$395,239**	**$677,084**	**$279,443**	**$380,728**
Cost Savings:	**$0**	**$0**	**$0**	**$0**
Cost Avoidance:	**$0**	**$0**	**$0**	**$0**

AFUDC:	**$8,848**	**$8,848**	**$8,267**	**$8,267**
Other Benefits:	**$0**	**$0**	**$0**	**$0**
TOTAL BENEFITS	**$404,087**	**$685,931**	**$287,710**	**$388,994**
BENEFIT-COST RATIO			**0.79**	**1.12**

Please list major milestones:

Milestone:	Completed by:
Issue PO	10/1/2019
Receive equipment	2/1/2020
Install equipment	4/14/2020
Complete installation and testing	4/30/2020
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.

Please list internal and external resources assigned to this project:

Resource Name:	Department/Company:	Have you contacted this resource about the project & related timing:			
Jesus Marquez	Power Gen/EPE	☑ Yes	☐ No	If no, explain why not:	
TBD	Power Gen/EPE	☐ Yes	☑ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	

checklist for items to be submitted

Has Environmental been contacted?	☑ Yes	☐ No
If applicable, has land been secured for this project?	☐ Yes	☑ No
Have all the applicable line items on the Business Case Overview been completed?	☑ Yes	☐ No
Do the milestones you identified take into consideration availability of resources?	☑ Yes	☐ No
Cash flow projection with detail must be submitted for the project, is it enclosed?	☑ Yes	☐ No
Did you provide supporting documents for cash flows (i.e. L&R, Promod)?	☐ Yes	☑ No
Does the Total Project Cost on page 1 equal the Total Project Cost on your cash flow analysis?	☑ Yes	☐ No
If applicable, did you attach the financial analysis for each alternative?	☐ Yes	☑ No

Please provide additional information not disclosed for the committee's consideration:

Project Manager / Preparer Signature:

Name:	Jesus Marquez
Date:	6/26/2019

Approver Signature:

Name:	
Date:	

Please fill in the white areas with no shading.

Use this form if the new project has not been created in PowerPlant after requesting a new project through Cherwell

Run Spell Check Function

Project Number:	GN228
Project Description:	U2 GENERATOR PROTECTION RELAY UPGRADE
Total Project Capital Cost:	$172,194
Reporting Date:	6/25/2019

This form and supplemental documentation should be submitted to Financial Forecasting when requesting funds for a capital project greater than $500,000 and for an individual work order, included in a blanket project, over $500,000.

PROJECT OVERVIEW

Project Manager:	Lusheng Su	**Project Manager Phone Number:**	915-235-7087
Owning Cost Center:	5110 POWER PLANT NEWMAN	**Major Project Location:**	8 - TX NEWMAN - UNIT 2
Project Functional Class:	Steam Production	**Business Segment:**	112 NEWMAN - UNIT 2
Associated Projects:	NONE		
In-Lieu of Component			
Project Priority	MEDIUM - Important but Not Urgent		
Project overview/scope:	Replace ABB relays to SEL relays for U2		
Business Justification:	SEL relays can be synchronized to GPS so that each trip or misoperation can be analyzed on one sitieth of a second level. While the ABB relay's time stamp is hard to set, it is difficult to analyze the root cause of the trip or misoperations with the time stamp ABB relay provided. So it is hard to decide the orders of events. With the function of event reports from SEL relays, it is easy to decide the root cause of the unit trip or misoperation PRC-004. Plus, the SEL relays will provide live phase analysis and advanced protection elements.		
Project Risks and Constraints:			
Primary Reason for Expenditure	System Reliabilty & Improvement		
Secondary Reason for Expenditure	New Technology		
Has the RFP process been completed	☐ Yes ☑ No	**Excludes AFUDC; mandatory if RFP process complete**	
If yes, Bid Estimate Date:		**Bid Estimate:**	$ -
If dollars are included in a blanket project, what is the amount?	$ -	**Total dollars included in FERC account 183000. That amount must be included in project cost**	$ -
Estimated Start Date:	11/1/2019	**Estimated Completion Date:**	3/31/2020
If applicable, describe and identify asset being replaced/retired	Five ABB relays will be replaced by SEL relays		
Please describe the potential Cost Savings and/or Cost Avoidance for this project:	SEL relay will help analyze the root cause of unit trip or misoperation.		
Describe alternatives considered:			
What was the reason for selecting the proposed project over the alternatives considered?			

COST/BENEFIT ANALYSIS

Select Best Alternative: **Alternative A**

	10 Year Total	30 Year Total	10 Year PV	30 Year PV
COST				
Capital Expenditures:	**$172,194**	**$172,194**	**$162,720**	**$162,720**
O&M Expenses:	**$0**	**$0**	**$0**	**$0**
Financing Costs (Benefit):	**$28,711**	**($103,125)**	**$23,020**	**($8,165)**
Income Tax Exp (Benefit):	**$44,956**	**$111,993**	**$31,247**	**$51,830**
TOTAL COSTS	**$245,861**	**$181,062**	**$216,986**	**$206,385**
BENEFITS				
Revenue Requirement:	**$229,983**	**$381,943**	**$164,077**	**$219,460**
Cost Savings:	**$0**	**$0**	**$0**	**$0**

Cost Avoidance:	**$0**	**$0**	**$0**	**$0**
AFUDC:	**$1,855**	**$1,855**	**$1,739**	**$1,739**
Other Benefits:	**$0**	**$0**	**$0**	**$0**
TOTAL BENEFITS	**$231,838**	**$383,798**	**$165,816**	**$221,199**
BENEFIT-COST RATIO			**0.76**	**1.07**

Please list major milestones:

Milestone:	Completed by:
SEL relays mounted and wires terminated	3/1/2020
SEL relays programmed and commissioned	3/30/2020
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.

Please list internal and external resources assigned to this project:

Resource Name:	Department/Company:	Have you contacted this resource about the project & related timing:			
Lusheng Su	Power Gen/EPE	☑ Yes	☐ No	If no, explain why not:	
TBD		☐ Yes	☑ No	If no, explain why not:	In the process of bidding out
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	

checklist for items to be submitted

Has Environmental been contacted?	☐ Yes ☐ No
If applicable, has land been secured for this project?	☐ Yes ☐ No
Have all the applicable line items on the Business Case Overview been completed?	☐ Yes ☐ No
Do the milestones you identified take into consideration availability of resources?	☐ Yes ☐ No
Cash flow projection with detail must be submitted for the project, is it enclosed?	☐ Yes ☐ No
Did you provide supporting documents for cash flows (i.e. L&R, Promod)?	☐ Yes ☐ No
Does the Total Project Cost on page 1 equal the Total Project Cost on your cash flow analysis?	☐ Yes ☐ No
If applicable, did you attach the financial analysis for each alternative?	☐ Yes ☐ No

Please provide additional information not disclosed for the committee's consideration:

Project Manager / Preparer Signature:

Name:	Lusheng Su
Date:	6/25/2019

Approver Signature:

Name:	
Date:	

Please fill in the white areas with no shading.

Use this form if the new project has not been created in PowerPlant after requesting a new project through Cherwell

Run Spell Check Function

Project Number:	GN232
Project Description:	Newman DCS Improvements CIP and Cyber Security Improvements
Total Project Capital Cost:	$341,335
Reporting Date:	8/23/2019

This form and supplemental documentation should be submitted to Financial Forecasting when requesting funds for a capital project greater than $500,000 and for an individual work order, included in a blanket project, over $500,000.

PROJECT OVERVIEW

Project Manager:	J Kyle Olson	**Project Manager Phone Number:**	915-521-4678
Owning Cost Center:	5110 POWER PLANT NEWMAN	**Major Project Location:**	6 - TX NEWMAN - COMMON
Project Functional Class:	Steam Production	**Business Segment:**	110 NEWMAN - JOINT
Associated Projects:			
In-Lieu of Component			
Project Priority	HIGH - Important and Urgent		
Project overview/scope:	Plant wide Digital Control System improvements to comply with Critical Infrastructure Protection-003-7 and improve overall Digital Control System cyber security systems.		
Business Justification:	Needed to comply with Critical Infrastructure Protection-0003-7 and improve Digital Control System Cyber Security Systems		
Project Risks and Constraints:	Short timeline due to Critical Infrastructure Protection-003-7 becoming effective 1/1/2020		
Primary Reason for Expenditure	Regulatory/Compliance/Environmental		
Secondary Reason for Expenditure	System Reliabilty & Improvement		
Has the RFP process been completed	☐ Yes ☑ No	**Excludes AFUDC; mandatory if RFP process complete**	
If yes, Bid Estimate Date:		**Bid Estimate:**	$ -
If dollars are included in a blanket project, what is the amount?	$ -	**Total dollars included in FERC account 183000. That amount must be included in project cost**	$ -
Estimated Start Date:	12/1/2019	**Estimated Completion Date:**	12/31/2019
If applicable, describe and identify asset being replaced/retired			
Please describe the potential Cost Savings and/or Cost Avoidance for this project:			
Describe alternatives considered:			
What was the reason for selecting the proposed project over the alternatives considered?			

COST/BENEFIT ANALYSIS

Select Best Alternative: **Alternative A**

	10 Year Total	30 Year Total	10 Year PV	30 Year PV
COST				
Capital Expenditures:	**$341,335**	**$341,335**	**$341,335**	**$341,335**
O&M Expenses:	**$0**	**$0**	**$0**	**$0**
Financing Costs (Benefit):	**$49,106**	**($219,280)**	**$43,048**	**($22,325)**
Income Tax Exp (Benefit):	**$99,222**	**$221,246**	**$72,062**	**$109,956**
TOTAL COSTS	**$489,663**	**$343,301**	**$456,445**	**$428,966**
BENEFITS				
Revenue Requirement:	**$489,436**	**$742,653**	**$365,731**	**$461,002**
Cost Savings:	**$0**	**$0**	**$0**	**$0**

Cost Avoidance:	**$0**	**$0**	**$0**	**$0**
AFUDC:	**$0**	**$0**	**$0**	**$0**
Other Benefits:	**$0**	**$0**	**$0**	**$0**
TOTAL BENEFITS	**$489,436**	**$742,653**	**$365,731**	**$461,002**
BENEFIT-COST RATIO			**0.80**	**1.07**

Please list major milestones:

Milestone:	Completed by:
Issue Purchase Order	9/15/2019
Parts on site	11/15/2019
Installation Complete	12/15/2019
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.

Please list internal and external resources assigned to this project:

Resource Name:	Department/Company:	Have you contacted this resource about the project & related timing:			
Kyle Olson	Power Generation	☑ Yes	☐ No	If no, explain why not:	
Tanisha House	Power Generation	☑ Yes	☐ No	If no, explain why not:	
Tracy Van Slyke	Operation Technology	☑ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	

checklist for items to be submitted

Has Environmental been contacted?	☑ Yes	☐ No
If applicable, has land been secured for this project?	☐ Yes	☑ No
Have all the applicable line items on the Business Case Overview been completed?	☑ Yes	☐ No
Do the milestones you identified take into consideration availability of resources?	☑ Yes	☐ No
Cash flow projection with detail must be submitted for the project, is it enclosed?	☑ Yes	☐ No
Did you provide supporting documents for cash flows (i.e. L&R, Promod)?	☐ Yes	☑ No
Does the Total Project Cost on page 1 equal the Total Project Cost on your cash flow analysis?	☑ Yes	☐ No
If applicable, did you attach the financial analysis for each alternative?	☐ Yes	☑ No

Please provide additional information not disclosed for the committee's consideration:

Project Manager / Preparer Signature:

Name:	J Kyle Olson
Date:	8/23/2019

Approver Signature:

Name:	
Date:	

Please fill in the white areas with no shading.

Use this form if the new project has not been created in PowerPlant after requesting a new project through Cherwell

Run Spell Check Function

Project Number:	GN238
Project Description:	NM2 LPT Packing Replacement
Total Project Capital Cost:	$342,040
Reporting Date:	1/8/2020

This form and supplemental documentation should be submitted to Financial Forecasting when requesting funds for a capital project greater than $500,000 and for an individual work order, included in a blanket project, over $500,000.

PROJECT OVERVIEW

Project Manager:	Eustacio Alderette	**Project Manager Phone Number:**	(915) 543-4086
Owning Cost Center:	5110 POWER PLANT NEWMAN	**Major Project Location:**	8 - TX NEWMAN - UNIT 2
Project Functional Class:	Steam Production	**Business Segment:**	112 NEWMAN - UNIT 2
Associated Projects:	WK151014.0014 - U2 TURBINE JOURNAL BEARING 3; WK180909.0007 - U2 TURBINE JOURNAL BEARING 2		
In-Lieu of Component	New replacement parts (packing, gland steam seals) are being fabricated to address steam leaks.		
Project Priority	HIGH - Important and Urgent		
Project overview/scope:	Replacement of NM2 low pressure turbine packing replacement to address steam leaking, blow-by.		
Business Justification:	The steam leak creates operational, reliability, and safety concerns.		
Project Risks and Constraints:	There is a specific time constraint to address the issue to avoid impacting reliability. There are a limited number of vendors who can reverse engineer the packing and perform installation.		
Primary Reason for Expenditure	System Reliability & Improvement		
Secondary Reason for Expenditure	Safety & Security		
Has the RFP process been completed	☐ Yes ☑ No	**Excludes AFUDC; mandatory if RFP process complete**	
If yes, Bid Estimate Date:		**Bid Estimate:**	$ -
If dollars are included in a blanket project, what is the amount?	$ -	**Total dollars included in FERC account 183000. That amount must be included in project cost**	$ -
Estimated Start Date:	1/9/2020	**Estimated Completion Date:**	3/31/2020

If applicable, describe and identify asset being replaced/retired

Newman Unit 2 Low Pressure Turbine Gland Seal Steam Packing.

Please describe the potential Cost Savings and/or Cost Avoidance for this project:

EPE avoids delaying resolution and running the risk of an unplanned outage. Also, EPE avoids maintaining a safety issue and concern.

Describe alternatives considered:

Continue to run without fully addressing the issue.

What was the reason for selecting the proposed project over the alternatives considered?

An unplanned outage runs the risk of higher costs during peak season (with tighter resource constraints - contractors, reliability, replacement power).

COST/BENEFIT ANALYSIS

Select Best Alternative: **Alternative A**

	10 Year Total	30 Year Total	10 Year PV	30 Year PV
COST				
Capital Expenditures:	**$342,040**	**$342,040**	**$319,589**	**$319,589**
O&M Expenses:	**$0**	**$0**	**$0**	**$0**
Financing Costs (Benefit):	**$55,963**	**($227,604)**	**$44,556**	**($22,184)**
Income Tax Exp (Benefit):	**$89,478**	**$237,401**	**$61,286**	**$106,060**
TOTAL COSTS	**$487,481**	**$351,837**	**$425,431**	**$403,465**
BENEFITS				
Revenue Requirement:	**$460,972**	**$793,184**	**$325,490**	**$444,650**
Cost Savings:	**$0**	**$0**	**$0**	**$0**

Cost Avoidance:	**$0**	**$0**	**$0**	**$0**
AFUDC:	**$11,368**	**$11,368**	**$10,621**	**$10,621**
Other Benefits:	**$0**	**$0**	**$0**	**$0**
TOTAL BENEFITS	**$472,340**	**$804,552**	**$336,111**	**$455,272**
BENEFIT-COST RATIO			**0.79**	**1.13**

Please list major milestones:

Milestone:	Completed by:
Contractor to mobilize to site	1/10/2020
Operations Turnover	1/27/2020
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.

Please list internal and external resources assigned to this project:

Resource Name:	Department/Company:	Have you contacted this resource about the project & related timing:			
Eustacio Alderette	Outage Department	☑ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	

checklist for items to be submitted

Has Environmental been contacted?	☐ Yes	☑ No
If applicable, has land been secured for this project?	☐ Yes	☑ No
Have all the applicable line items on the Business Case Overview been completed?	☑ Yes	☐ No
Do the milestones you identified take into consideration availability of resources?	☑ Yes	☐ No
Cash flow projection with detail must be submitted for the project, is it enclosed?	☑ Yes	☐ No
Did you provide supporting documents for cash flows (i.e. L&R, Promod)?	☐ Yes	☑ No
Does the Total Project Cost on page 1 equal the Total Project Cost on your cash flow analysis?	☑ Yes	☐ No
If applicable, did you attach the financial analysis for each alternative?	☐ Yes	☑ No

Please provide additional information not disclosed for the committee's consideration:

Project Manager / Preparer Signature:

Name: Eustacio Alderette

Date: 1/8/2020

Approver Signature:

Name:

Date:

Please fill in the white areas with no shading.

Use this form if the new project has not been created in PowerPlant after requesting a new project through Cherwell

Run Spell Check Function

Project Number:	GN263
Project Description:	NW U4GT1 Generator Hydrogen Cooler Retube
Total Project Capital Cost:	$114,679
Reporting Date:	9/3/2020

This form and supplemental documentation should be submitted to Financial Forecasting when requesting funds for a capital project greater than $500,000 and for an individual work order, included in a blanket project, over $500,000.

PROJECT OVERVIEW

Project Manager:	Nathaniel Campos	**Project Manager Phone Number:**	915-238-7718
Owning Cost Center:	5110 POWER PLANT NEWMAN	**Major Project Location:**	10 - TX NEWMAN - UNIT 4
Project Functional Class:	Steam Production	**Business Segment:**	117 NEWMAN - GAS TURBINE 1
Associated Projects:	GN264 GT2 Generator Hydrogen Cooler Retube		
In-Lieu of Component			
Project Priority	HIGH - Important and Urgent		
Project overview/scope:	Brimhall Industries will retube the 2 generator hydrogen coolers and prepare them for shipment back to El Paso Electric.		
Business Justification:	The retubing is done as preventative maintenacne. These coolers were inspected during the 2020 Major Inspection. They were in poor condition and a retube was recomeneded. The retube did not fit the schedule, so it was postponed and scheduled for the DCS upgrade. If the tubes fail, water will leak into the generator causing high risk or arcing.		
Project Risks and Constraints:	If the tubes fail, water will leak into the generator and the risk of arcing will be high. Arcing can leak to extensive generator damage, and possible rewind. The cost associated with the failure is very high.		
Primary Reason for Expenditure	System Reliabilty & Improvement		
Secondary Reason for Expenditure	Quality Enhancement		
Has the RFP process been completed	☐ Yes ☑ No	**Excludes AFUDC; mandatory if RFP process complete**	
If yes, Bid Estimate Date:		**Bid Estimate:**	$ -
If dollars are included in a blanket project, what is the amount?	$ -	**Total dollars included in FERC account 183000. That amount must be included in project cost**	$ -
Estimated Start Date:	10/1/2020	**Estimated Completion Date:**	1/1/2021

If applicable, describe and identify asset being replaced/retired

Old generator hydrogen cooler tubes and tube sheets.

Please describe the potential Cost Savings and/or Cost Avoidance for this project:

The cost associated with the failure of the hydrogen coolers is extremely high. The RG 7 rewind was $2.5 million. The GT1 FO caused by arcing was $942,000.

Describe alternatives considered:

none

What was the reason for selecting the proposed project over the alternatives considered?

N/A

COST/BENEFIT ANALYSIS

Select Best Alternative: **Alternative A**

	10 Year Total	30 Year Total	10 Year PV	30 Year PV
COST				
Capital Expenditures:	**$114,679**	**$114,679**	**$107,917**	**$107,917**
O&M Expenses:	**$0**	**$0**	**$0**	**$0**
Financing Costs (Benefit):	**$18,501**	**($67,850)**	**$14,798**	**($5,669)**
Income Tax Exp (Benefit):	**$29,998**	**$73,479**	**$20,946**	**$34,345**
TOTAL COSTS	**$163,178**	**$120,308**	**$143,661**	**$136,593**
BENEFITS				
Revenue Requirement:	**$152,604**	**$251,187**	**$109,148**	**$145,233**
Cost Savings:	**$0**	**$0**	**$0**	**$0**

Cost Avoidance:	**$0**	**$0**	**$0**	**$0**
AFUDC:	**$440**	**$440**	**$416**	**$416**
Other Benefits:	**$0**	**$0**	**$0**	**$0**
TOTAL BENEFITS	**$153,044**	**$251,627**	**$109,563**	**$145,649**
BENEFIT-COST RATIO			**0.76**	**1.07**

Please list major milestones:

Milestone:	Completed by:
Bidding to start	8/1/2020
Award of Contract	8/20/2020
Procurment of parts (Tubes)	9/1/2020
Coolers sent offsite	10/9/2020
Coolers back onsite	11/21/2020
Coolers reinstalled	11/27/2020
Completed	11/27/2020
In service date	12/19/2020

Please list internal and external resources assigned to this project:

Resource Name:	Department/Company:	Have you contacted this resource about the project & related timing:			
Nathaniel Campos	Outage	☑ Yes	☐ No	If no, explain why not:	
Mark Brimhall	Brimhall Industries	☑ Yes	☐ No	If no, explain why not:	
EPE Employee	Mechanics	☐ Yes	☑ No	If no, explain why not:	Preliminary stage of project.
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	

checklist for items to be submitted

Has Environmental been contacted?	☐ Yes	☑ No
If applicable, has land been secured for this project?	☐ Yes	☑ No
Have all the applicable line items on the Business Case Overview been completed?	☑ Yes	☐ No
Do the milestones you identified take into consideration availability of resources?	☑ Yes	☐ No
Cash flow projection with detail must be submitted for the project, is it enclosed?	☑ Yes	☐ No
Did you provide supporting documents for cash flows (i.e. L&R, Promod)?	☐ Yes	☑ No
Does the Total Project Cost on page 1 equal the Total Project Cost on your cash flow analysis?	☑ Yes	☐ No
If applicable, did you attach the financial analysis for each alternative?	☐ Yes	☑ No

Please provide additional information not disclosed for the committee's consideration:

Project Manager / Preparer Signature:

Name:	Nathaniel Campos
Date:	9/3/2020

Approver Signature:

Name:	
Date:	

Please fill in the white areas with no shading.

Use this form if the new project has not been created in PowerPlant after requesting a new project through Cherwell

Run Spell Check Function

Project Number:	GN264
Project Description:	NW U4GT2 Generator Hydrogen Cooler Retube
Total Project Capital Cost:	$114,679
Reporting Date:	9/3/2020

This form and supplemental documentation should be submitted to Financial Forecasting when requesting funds for a capital project greater than $500,000 and for an individual work order, included in a blanket project, over $500,000.

PROJECT OVERVIEW

Project Manager:	Nathaniel Campos	**Project Manager Phone Number:**	915-238-7718
Owning Cost Center:	5110 POWER PLANT NEWMAN	**Major Project Location:**	10 - TX NEWMAN - UNIT 4
Project Functional Class:	Steam Production	**Business Segment:**	118 NEWMAN - GAS TURBINE 2
Associated Projects:	GN263 U4GT1 Generator Hydrogen Cooler Retube		
In-Lieu of Component			
Project Priority	HIGH - Important and Urgent		
Project overview/scope:	Brimhall Industries will retube the 2 generator hydrogen coolers and prepare them for shipment back to El Paso Electric.		
Business Justification:	The retubing is done as preventative maintenacne. These coolers were inspected during the 2020 Major Inspection. They were in poor condition and a retube was recomeneded. The retube did not fit the schedule, so it was postponed and scheduled for the DCS upgrade. If the tubes fail, water will leak into the generator causing high risk or arcing.		
Project Risks and Constraints:	If the tubes fail, water will leak into the generator and the risk of arcing will be high. Arcing can leak to extensive generator damage, and possible rewind. The cost associated with the failure is very high.		
Primary Reason for Expenditure	System Reliabilty & Improvement		
Secondary Reason for Expenditure	Quality Enhancement		
Has the RFP process been completed	☐ Yes ☑ No	**Excludes AFUDC; mandatory if RFP process complete**	
If yes, Bid Estimate Date:		**Bid Estimate:**	$ -
If dollars are included in a blanket project, what is the amount?	$ -	**Total dollars included in FERC account 183000. That amount must be included in project cost**	$ -
Estimated Start Date:	10/1/2020	**Estimated Completion Date:**	1/1/2021

If applicable, describe and identify asset being replaced/retired

Old generator hydrogen cooler tubes and tube sheets.

Please describe the potential Cost Savings and/or Cost Avoidance for this project:

The cost associated with the failure of the hydrogen coolers is extremely high. The RG 7 rewind was $2.5 million. The GT1 FO caused by arcing was $942,000.

Describe alternatives considered:

none

What was the reason for selecting the proposed project over the alternatives considered?

N/A

COST/BENEFIT ANALYSIS

Select Best Alternative: **Alternative A**

	10 Year Total	30 Year Total	10 Year PV	30 Year PV
COST				
Capital Expenditures:	**$114,679**	**$114,679**	**$107,917**	**$107,917**
O&M Expenses:	**$0**	**$0**	**$0**	**$0**
Financing Costs (Benefit):	**$18,501**	**($67,850)**	**$14,798**	**($5,669)**
Income Tax Exp (Benefit):	**$29,998**	**$73,479**	**$20,946**	**$34,345**
TOTAL COSTS	**$163,178**	**$120,308**	**$143,661**	**$136,593**
BENEFITS				
Revenue Requirement:	**$152,604**	**$251,187**	**$109,148**	**$145,233**
Cost Savings:	**$0**	**$0**	**$0**	**$0**

Cost Avoidance:	**$0**	**$0**	**$0**	**$0**
AFUDC:	**$440**	**$440**	**$416**	**$416**
Other Benefits:	**$0**	**$0**	**$0**	**$0**
TOTAL BENEFITS	**$153,044**	**$251,627**	**$109,563**	**$145,649**
BENEFIT-COST RATIO			**0.76**	**1.07**

Please list major milestones:

Milestone:	Completed by:
Bidding to start	8/1/2020
Award of Contract	8/20/2020
Procurment of parts (Tubes)	9/1/2020
Coolers sent offsite	10/9/2020
Coolers back onsite	11/21/2020
Coolers reinstalled	11/27/2020
Completed	11/27/2020
In service date	12/19/2020

Please list internal and external resources assigned to this project:

Resource Name:	Department/Company:	Have you contacted this resource about the project & related timing:			
Nathaniel Campos	Outage	☑ Yes	☐ No	If no, explain why not:	
Mark Brimhall	Brimhall Industries	☑ Yes	☐ No	If no, explain why not:	
EPE Employee	Mechanics	☐ Yes	☑ No	If no, explain why not:	Preliminary stage of project.
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	

checklist for items to be submitted

Has Environmental been contacted?	☐ Yes	☑ No
If applicable, has land been secured for this project?	☐ Yes	☑ No
Have all the applicable line items on the Business Case Overview been completed?	☑ Yes	☐ No
Do the milestones you identified take into consideration availability of resources?	☑ Yes	☐ No
Cash flow projection with detail must be submitted for the project, is it enclosed?	☑ Yes	☐ No
Did you provide supporting documents for cash flows (i.e. L&R, Promod)?	☐ Yes	☑ No
Does the Total Project Cost on page 1 equal the Total Project Cost on your cash flow analysis?	☑ Yes	☐ No
If applicable, did you attach the financial analysis for each alternative?	☐ Yes	☑ No

Please provide additional information not disclosed for the committee's consideration:

Project Manager / Preparer Signature:

Name:	Nathaniel Campos
Date:	9/3/2020

Approver Signature:

Name:	
Date:	

Please fill in the white areas with no shading.

Use this form if the new project has not been created in PowerPlant after requesting a new project through Cherwell

Run Spell Check Function

Project Number:	GR165
Project Description:	RG PLANT WELL WATER PIPING REPL
Total Project Capital Cost:	$388,523
Reporting Date:	6/21/2019

This form and supplemental documentation should be submitted to Financial Forecasting when requesting funds for a capital project greater than $500,000 and for an individual work order, included in a blanket project, over $500,000.

PROJECT OVERVIEW

Project Manager:	JESUS JIMENEZ	**Project Manager Phone Number:**	915-543-2972
Owning Cost Center:	5131 POWER PLANT RIO GRANDE	**Major Project Location:**	17 - NM RIO GRANDE - COMMON
Project Functional Class:	Steam Production	**Business Segment:**	120 RIO GRANDE - JOINT
Associated Projects:	N/A		
In-Lieu of Component			
Project Priority	HIGH - Important and Urgent		
Project overview/scope:	Replace deteiorated sections of the well piping supplying cooling water to the Rio Grande Power Plant		
Business Justification:	The well water piping supplying cooling water to Rio Grande was installed iapproximately 40 years ago. During the 2019 summer run, 20 ft of pipe was replaced due to pipe deterioration and subsequent pipe rupture. The power plant was required to install a temporary patch to complete summer run.. If pipe ruptures continue, Rio Grande Power Plant may exerience complete loss of cooling water. This BCO is submitted for the replacement of 2300 linear feet of pipe.		
Project Risks and Constraints:	Project Risk - MW Curtailment/ Potential Outage due to loss of cooling water Project Contraints - Rio Grande Operational Schhedule		
Primary Reason for Expenditure	System Reliabilty & Improvement		
Secondary Reason for Expenditure	Safety & Security		
Has the RFP process been completed	☐ Yes ☑ No	**Excludes AFUDC; mandatory if RFP process complete**	
If yes, Bid Estimate Date:		**Bid Estimate:**	$ -
If dollars are included in a blanket project, what is the amount?	$ -	**Total dollars included in FERC account 183000. That amount must be included in project cost**	$ -
Estimated Start Date:	1/1/2020	**Estimated Completion Date:**	7/31/2020

If applicable, describe and identify asset being replaced/retired

Well Field Distribution Piping

Please describe the potential Cost Savings and/or Cost Avoidance for this project:

Describe alternatives considered:

Initiate Eddy Testing on the existing piping, determine condition of piping and continue monitoring existing piping

What was the reason for selecting the proposed project over the alternatives considered?

COST/BENEFIT ANALYSIS

Select Best Alternative: **Alternative A**

	10 Year Total	30 Year Total	10 Year PV	30 Year PV
COST				
Capital Expenditures:	**$388,523**	**$388,523**	**$363,021**	**$363,021**
O&M Expenses:	**$0**	**$0**	**$0**	**$0**
Financing Costs (Benefit):	**$63,569**	**($258,532)**	**$50,611**	**($25,198)**
Income Tax Exp (Benefit):	**$101,637**	**$269,657**	**$69,614**	**$120,472**
TOTAL COSTS	**$553,729**	**$399,648**	**$483,246**	**$458,295**
BENEFITS				
Revenue Requirement:	**$523,617**	**$900,975**	**$369,723**	**$505,077**
Cost Savings:	**$0**	**$0**	**$0**	**$0**

Cost Avoidance:	**$0**	**$0**	**$0**	**$0**
AFUDC:	**$12,912**	**$12,912**	**$12,065**	**$12,065**
Other Benefits:	**$0**	**$0**	**$0**	**$0**
TOTAL BENEFITS	**$536,529**	**$913,887**	**$381,788**	**$517,142**
BENEFIT-COST RATIO			**0.79**	**1.13**

Please list major milestones:

Milestone:	Completed by:
Order Pipe	11/1/2019
Pipe Delivery	1/1/2020
Perform Eddy Current Testing	1/1/2020
Commence Excavation	2/15/2020
Install Piping	3/1/2020
Complete Pipe Install	4/30/2020
Final Invoicing	5/30/2019
	Click here to enter a date.

Please list internal and external resources assigned to this project:

Resource Name:	Department/Company:	Have you contacted this resource about the project & related timing:		
Jesus Jimenez	Power Generation -Rio Grande Engineering	☑ Yes ☐ No	If no, explain why not:	
Environmental Rep	EPE - Environmental Group	☐ Yes ☑ No	If no, explain why not:	Project SOW in Deveopment
Contractor Replacing Pipe	TBD	☐ Yes ☑ No	If no, explain why not:	Project SOW in Deveopment
Contractor Performing Eddy Current Testing	TBD	☐ Yes ☑ No	If no, explain why not:	Project SOW in Deveopment
		☐ Yes ☑ No	If no, explain why not:	
		☐ Yes ☑ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	

checklist for items to be submitted

Has Environmental been contacted?	☐ Yes	☑ No
If applicable, has land been secured for this project?	☐ Yes	☑ No
Have all the applicable line items on the Business Case Overview been completed?	☑ Yes	☐ No
Do the milestones you identified take into consideration availability of resources?	☑ Yes	☐ No
Cash flow projection with detail must be submitted for the project, is it enclosed?	☑ Yes	☐ No
Did you provide supporting documents for cash flows (i.e. L&R, Promod)?	☐ Yes	☑ No
Does the Total Project Cost on page 1 equal the Total Project Cost on your cash flow analysis?	☑ Yes	☐ No
If applicable, did you attach the financial analysis for each alternative?	☐ Yes	☑ No

Please provide additional information not disclosed for the committee's consideration:

Project Manager / Preparer Signature:

Name:	Jesus Jimenez
Date:	6/21/2019

Approver Signature:

Name:	
Date:	

Please fill in the white areas with no shading.

Use this form if the new project has not been created in PowerPlant after requesting a new project through Cherwell

Run Spell Check Function

Project Number:	
Project Description:	Replace Power Rail on 100 Ton Crane
Total Project Capital Cost:	$172,385
Reporting Date:	7/8/2019

This form and supplemental documentation should be submitted to Financial Forecasting when requesting funds for a capital project greater than $500,000 and for an individual work order, included in a blanket project, over $500,000.

PROJECT OVERVIEW

Project Manager:	Ronald L Heckman	**Project Manager Phone Number:**	915-472-0697
Owning Cost Center:	5131 POWER PLANT RIO GRANDE	**Major Project Location:**	17 - NM RIO GRANDE - COMMON
Project Functional Class:	Steam Production	**Business Segment:**	120 RIO GRANDE - JOINT
Associated Projects:	NONE		
In-Lieu of Component			
Project Priority	MEDIUM - Important but Not Urgent		
Project overview/scope:	Replace existing Duct-o-Bar power rail with a span guard power rail system		
Business Justification:	We installed the Duct-O-Bar system in 2005. At the time it was $24,784 less than a better system. Since that time we have spent $73,600 on maintenance. At todays rates it will cost $26,430 more to install the improved system over a bar system.		
Project Risks and Constraints:			
Primary Reason for Expenditure	Quality Enhancement		
Secondary Reason for Expenditure	Cost Savings		
Has the RFP process been completed	☐ Yes ☑ No	**Excludes AFUDC; mandatory if RFP process complete**	
If yes, Bid Estimate Date:		**Bid Estimate:**	$ -
If dollars are included in a blanket project, what is the amount?	$ -	**Total dollars included in FERC account 183000. That amount must be included in project cost**	$ -
Estimated Start Date:	10/1/2019	**Estimated Completion Date:**	12/30/2019

If applicable, describe and identify asset being replaced/retired

The existing Duct-O-Rail power system is being replaced.

Please describe the potential Cost Savings and/or Cost Avoidance for this project:

With the new system we will save approximately $4,000 per year on equipmental rental and $1,000 per year contractor cost for maintenance of the power rail

Describe alternatives considered:

there were additional quotes using a Bar system one was more expensive and one was less.

What was the reason for selecting the proposed project over the alternatives considered?

The proposed system is a continuous run with no joints and the collector system will withstand 6 inch movement both horizontal and vertical.

COST/BENEFIT ANALYSIS

Select Best Alternative: **Alternative A**

	10 Year Total	30 Year Total	10 Year PV	30 Year PV
COST				
Capital Expenditures:	**$172,385**	**$172,385**	**$172,385**	**$172,385**
O&M Expenses:	**$0**	**$0**	**$0**	**$0**
Financing Costs (Benefit):	**$25,075**	**($113,045)**	**$21,981**	**($11,606)**
Income Tax Exp (Benefit):	**$50,132**	**$113,507**	**$36,265**	**$55,878**
TOTAL COSTS	**$247,592**	**$172,847**	**$230,630**	**$216,656**
BENEFITS				
Revenue Requirement:	**$248,007**	**$379,436**	**$184,841**	**$234,065**
Cost Savings:	**$0**	**$0**	**$0**	**$0**

Cost Avoidance:	**$0**	**$0**	**$0**	**$0**
AFUDC:	**$1,015**	**$1,015**	**$1,015**	**$1,015**
Other Benefits:	**$0**	**$0**	**$0**	**$0**
TOTAL BENEFITS	**$249,022**	**$380,451**	**$185,856**	**$235,080**
BENEFIT-COST RATIO			**0.81**	**1.09**

Please list major milestones:

Milestone:	Completed by:
Bids already completed	7/9/2019
Write PO awaiting Project number to write work order	8/1/2019
Start Work 9/1/2019	9/1/2019
Complete Work 10/1/2019	10/1/2019
billing 12/15/2019	12/15/2019
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.

Please list internal and external resources assigned to this project:

Resource Name:	Department/Company:	Have you contacted this resource about the project & related timing:		
Ronald L Heckman	Power Gen Engineer	☑ Yes ☐ No	If no, explain why not:	
Twin City Crane	Sub Contractor	☑ Yes ☐ No	If no, explain why not:	
United Rental		☐ Yes ☑ No	If no, explain why not:	Project planning stage
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	

checklist for items to be submitted

Has Environmental been contacted?	☐ Yes	☑ No
If applicable, has land been secured for this project?	☐ Yes	☑ No
Have all the applicable line items on the Business Case Overview been completed?	☑ Yes	☐ No
Do the milestones you identified take into consideration availability of resources?	☑ Yes	☐ No
Cash flow projection with detail must be submitted for the project, is it enclosed?	☑ Yes	☐ No
Did you provide supporting documents for cash flows (i.e. L&R, Promod)?	☐ Yes	☑ No
Does the Total Project Cost on page 1 equal the Total Project Cost on your cash flow analysis?	☑ Yes	☐ No
If applicable, did you attach the financial analysis for each alternative?	☐ Yes	☑ No

Please provide additional information not disclosed for the committee's consideration:

Project Manager / Preparer Signature:

Name:	Ronald L Heckman
Date:	7/9/2019

Approver Signature:

Name:	
Date:	

Please fill in the white areas with no shading.

Use this form if the new project has not been created in PowerPlant after requesting a new project through Cherwell

Run Spell Check Function

Project Number:	GR175
Project Description:	Rio 8 4160V Switchgear Breaker Upgrade
Total Project Capital Cost:	$283,851
Reporting Date:	4/30/2020

This form and supplemental documentation should be submitted to Financial Forecasting when requesting funds for a capital project greater than $500,000 and for an individual work order, included in a blanket project, over $500,000.

PROJECT OVERVIEW

Project Manager:	Jeff Hughes	**Project Manager Phone Number:**	915-543-2958
Owning Cost Center:	5131 POWER PLANT RIO GRANDE	**Major Project Location:**	20 - NM RIO GRANDE - UNIT 8
Project Functional Class:	Steam Production	**Business Segment:**	128 RIO GRANDE - UNIT 8
Associated Projects:	NONE		
In-Lieu of Component			
Project Priority	MEDIUM - Important but Not Urgent		
Project overview/scope:	Upgrade the 4160 Volt switchgear breakers from the OEM install of 1973.		
Business Justification:	To ensure proper circuit disconnect on a 4160V trip event in order to protect downstream equipment.		
Project Risks and Constraints:	Unit must be in outage to exchange breakers.		
Primary Reason for Expenditure	Safety & Security		
Secondary Reason for Expenditure	System Reliabilty & Improvement		
Has the RFP process been completed	☐ Yes ☑ No	**Excludes AFUDC; mandatory if RFP process complete**	
If yes, Bid Estimate Date:		**Bid Estimate:**	$ -
If dollars are included in a blanket project, what is the amount?	$ -	**Total dollars included in FERC account 183000. That amount must be included in project cost**	
Estimated Start Date:	3/1/2020	**Estimated Completion Date:**	4/30/2020

If applicable, describe and identify asset being replaced/retired

Qty 10, GE OEM breakers AM-4.76-250-7H 1200A, AM-4.76-250-7H 2000A

Please describe the potential Cost Savings and/or Cost Avoidance for this project:

Minimize risk of a failed circuit disconnect on 4160V switchgear.

Describe alternatives considered:

N/A

What was the reason for selecting the proposed project over the alternatives considered?

N/A

COST/BENEFIT ANALYSIS

Select Best Alternative: **Alternative A**

	10 Year Total	30 Year Total	10 Year PV	30 Year PV
COST				
Capital Expenditures:	**$283,851**	**$283,851**	**$265,219**	**$265,219**
O&M Expenses:	**$0**	**$0**	**$0**	**$0**
Financing Costs (Benefit):	**$45,929**	**($185,218)**	**$36,570**	**($17,915)**
Income Tax Exp (Benefit):	**$74,317**	**$194,013**	**$51,117**	**$87,467**
TOTAL COSTS	**$404,097**	**$292,646**	**$352,907**	**$334,772**
BENEFITS				
Revenue Requirement:	**$381,495**	**$650,658**	**$270,078**	**$366,991**
Cost Savings:	**$0**	**$0**	**$0**	**$0**

Cost Avoidance:	**$0**	**$0**	**$0**	**$0**
AFUDC:	**$7,675**	**$7,675**	**$7,171**	**$7,171**
Other Benefits:	**$0**	**$0**	**$0**	**$0**
TOTAL BENEFITS	**$389,170**	**$658,333**	**$277,249**	**$374,162**
BENEFIT-COST RATIO			**0.79**	**1.12**

Please list major milestones:

Milestone:	Completed by:
Order Breakers for build up.	10/31/2019
Receive and inspect breakers.	1/31/2020
Install and Commission by contracotor.	3/30/2020
Training for Sire personnell on Operation and Maintenance.	3/31/2020
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.

Please list internal and external resources assigned to this project:

Resource Name:	Department/Company:	Have you contacted this resource about the project & related timing:		
Wilson Tademy	Generation	☑ Yes ☐ No	If no, explain why not:	
Kyle Olson	Generation	☑ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	

checklist for items to be submitted

Has Environmental been contacted?	☐ Yes	☑ No
If applicable, has land been secured for this project?	☐ Yes	☑ No
Have all the applicable line items on the Business Case Overview been completed?	☑ Yes	☐ No
Do the milestones you identified take into consideration availability of resources?	☑ Yes	☐ No
Cash flow projection with detail must be submitted for the project, is it enclosed?	☑ Yes	☐ No
Did you provide supporting documents for cash flows (i.e. L&R, Promod)?	☐ Yes	☑ No
Does the Total Project Cost on page 1 equal the Total Project Cost on your cash flow analysis?	☑ Yes	☐ No
If applicable, did you attach the financial analysis for each alternative?	☐ Yes	☑ No

Please provide additional information not disclosed for the committee's consideration:

Project Manager / Preparer Signature:

Name:	Jeff Hughes
Date:	7/16/2019

Approver Signature:

Name:	
Date:	

Please fill in the white areas with no shading.

Use this form if the new project has not been created in PowerPlant after requesting a new project through Cherwell

Run Spell Check Function

Project Number:	GR176
Project Description:	RG U8 FEED WATER REGULATORS UPGRADE
Total Project Capital Cost:	$283,211
Reporting Date:	7/16/2019

This form and supplemental documentation should be submitted to Financial Forecasting when requesting funds for a capital project greater than $500,000 and for an individual work order, included in a blanket project, over $500,000.

PROJECT OVERVIEW

Project Manager:	Jeff Hughes	**Project Manager Phone Number:**	915-543-2958
Owning Cost Center:	5131 POWER PLANT RIO GRANDE	**Major Project Location:**	20 - NM RIO GRANDE - UNIT 8
Project Functional Class:	Steam Production	**Business Segment:**	128 RIO GRANDE - UNIT 8
Associated Projects:	NONE		
In-Lieu of Component			
Project Priority	MEDIUM - Important but Not Urgent		
Project overview/scope:	Upgrade. Specify design and install new Main and Start Up Feed Water Regulators.		
Business Justification:	Ensure proper control of boiler feed water and eliminate unit swings due to stepping movement of current regulator.		
Project Risks and Constraints:	Rio 8 must be in outage for installation. Current FW regulator is extremely de-tuned to prevent swings.		
Primary Reason for Expenditure	System Reliability & Improvement		
Secondary Reason for Expenditure	Growth & Increased Capacity		
Has the RFP process been completed	☐ Yes ☑ No	**Excludes AFUDC; mandatory if RFP process complete**	
If yes, Bid Estimate Date:		**Bid Estimate:**	$ -
If dollars are included in a blanket project, what is the amount?	$ -	**Total dollars included in FERC account 183000. That amount must be included in project cost**	
Estimated Start Date:	10/1/2019	**Estimated Completion Date:**	4/1/2020

If applicable, describe and identify asset being replaced/retired

Mogas Air actuated ball valves with position control.

Please describe the potential Cost Savings and/or Cost Avoidance for this project:

Improved reliability and response of the Feed Water system.

Describe alternatives considered:

N/A

What was the reason for selecting the proposed project over the alternatives considered?

N/A

COST/BENEFIT ANALYSIS

Select Best Alternative: **Alternative A**

	10 Year Total	30 Year Total	10 Year PV	30 Year PV
COST				
Capital Expenditures:	**$283,211**	**$283,211**	**$269,589**	**$269,589**
O&M Expenses:	**$2,000**	**$2,000**	**$1,869**	**$1,869**
Financing Costs (Benefit):	**$48,927**	**($170,525)**	**$39,445**	**($12,423)**
Income Tax Exp (Benefit):	**$74,119**	**$186,154**	**$51,407**	**$85,744**
TOTAL COSTS	**$408,257**	**$300,840**	**$362,310**	**$344,779**
BENEFITS				
Revenue Requirement:	**$382,352**	**$636,138**	**$272,994**	**$365,293**
Cost Savings:	**$0**	**$0**	**$0**	**$0**

Cost Avoidance:	**$0**	**$0**	**$0**	**$0**
AFUDC:	**$4,707**	**$4,707**	**$4,428**	**$4,428**
Other Benefits:	**$0**	**$0**	**$0**	**$0**
TOTAL BENEFITS	**$387,059**	**$640,846**	**$277,421**	**$369,721**
BENEFIT-COST RATIO			**0.77**	**1.07**

Please list major milestones:

Milestone:	Completed by:
Specify Valves	10/31/2019
Engineer installation	12/31/2019
Installation by contractor.	3/1/2020
Calibrate, commission and test valves.	3/31/2020
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.

Please list internal and external resources assigned to this project:

Resource Name:	Department/Company:	Have you contacted this resource about the project & related timing:		
Wilson Tademy	Generation	☑ Yes ☐ No	If no, explain why not:	
Kyle Olson	Generation	☑ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	

checklist for items to be submitted

Has Environmental been contacted?	☐ Yes	☑ No
If applicable, has land been secured for this project?	☐ Yes	☑ No
Have all the applicable line items on the Business Case Overview been completed?	☑ Yes	☐ No
Do the milestones you identified take into consideration availability of resources?	☑ Yes	☐ No
Cash flow projection with detail must be submitted for the project, is it enclosed?	☑ Yes	☐ No
Did you provide supporting documents for cash flows (i.e. L&R, Promod)?	☐ Yes	☑ No
Does the Total Project Cost on page 1 equal the Total Project Cost on your cash flow analysis?	☑ Yes	☐ No
If applicable, did you attach the financial analysis for each alternative?	☐ Yes	☑ No

Please provide additional information not disclosed for the committee's consideration:

Project Manager / Preparer Signature:

Name:	Jeff Hughes
Date:	7/16/2019

Approver Signature:

Name:	
Date:	

Please fill in the white areas with no shading.

Use this form if the new project has not been created in PowerPlant after requesting a new project through Cherwell

Run Spell Check Function

Project Number:	GR177
Project Description:	RIO GRANDE DCS CIP_CYBER IMPRVMNTS
Total Project Capital Cost:	$232,496
Reporting Date:	8/23/2019

This form and supplemental documentation should be submitted to Financial Forecasting when requesting funds for a capital project greater than $500,000 and for an individual work order, included in a blanket project, over $500,000.

PROJECT OVERVIEW

Project Manager:	J Kyle Olson	**Project Manager Phone Number:**	915-521-4678
Owning Cost Center:	5131 POWER PLANT RIO GRANDE	**Major Project Location:**	17 - NM RIO GRANDE - COMMON
Project Functional Class:	Steam Production	**Business Segment:**	120 RIO GRANDE - JOINT
Associated Projects:	N/A		
In-Lieu of Component			
Project Priority	HIGH - Important and Urgent		
Project overview/scope:	Plant wide Digital Control System improvements to comply with Critical Intrastructure Protection-003-7 and improve overall Digital Control System cyber security systems.		
Business Justification:	Needed to comply with Critical Intrastructure Protection-0003-7 and improve Digital Control System Cyber Security Systems		
Project Risks and Constraints:	Short timeline due to Critical Intrastructure Protection-003-7 becoming effective 1/1/2020		
Primary Reason for Expenditure	Regulatory/Compliance/Environmental		
Secondary Reason for Expenditure	System Reliabilty & Improvement		
Has the RFP process been completed	☐ Yes ☑ No	**Excludes AFUDC; mandatory if RFP process complete**	
If yes, Bid Estimate Date:		**Bid Estimate:**	$ -
If dollars are included in a blanket project, what is the amount?	$ -	**Total dollars included in FERC account 183000. That amount must be included in project cost**	$ -
Estimated Start Date:	12/1/2019	**Estimated Completion Date:**	12/31/2019
If applicable, describe and identify asset being replaced/retired			
Please describe the potential Cost Savings and/or Cost Avoidance for this project:			
Describe alternatives considered:			
What was the reason for selecting the proposed project over the alternatives considered?			

COST/BENEFIT ANALYSIS

Select Best Alternative: **Alternative A**

	10 Year Total	30 Year Total	10 Year PV	30 Year PV
COST				
Capital Expenditures:	**$232,496**	**$232,496**	**$232,496**	**$232,496**
O&M Expenses:	**$0**	**$0**	**$0**	**$0**
Financing Costs (Benefit):	**$33,448**	**($149,360)**	**$29,322**	**($15,206)**
Income Tax Exp (Benefit):	**$67,584**	**$150,700**	**$49,085**	**$74,895**
TOTAL COSTS	**$333,528**	**$233,836**	**$310,902**	**$292,185**
BENEFITS				
Revenue Requirement:	**$333,373**	**$505,849**	**$249,113**	**$314,006**
Cost Savings:	**$0**	**$0**	**$0**	**$0**

Cost Avoidance:	**$0**	**$0**	**$0**	**$0**
AFUDC:	**$0**	**$0**	**$0**	**$0**
Other Benefits:	**$0**	**$0**	**$0**	**$0**
TOTAL BENEFITS	**$333,373**	**$505,849**	**$249,113**	**$314,006**
BENEFIT-COST RATIO			**0.80**	**1.07**

Please list major milestones:

Milestone:	Completed by:
Issue Purchase Order	9/15/2019
Parts on site	11/15/2019
Installation Complete	12/15/2019
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.
	Click here to enter a date.

Please list internal and external resources assigned to this project:

Resource Name:	Department/Company:	Have you contacted this resource about the project & related timing:		
Kyle Olson	Power Generation	☑ Yes ☐ No	If no, explain why not:	
Tanisha House	Power Generation	☑ Yes ☐ No	If no, explain why not:	
Tracy Van Slyke	Operation Technology	☑ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	
		☐ Yes ☐ No	If no, explain why not:	

checklist for items to be submitted

Has Environmental been contacted?	☑ Yes	☐ No
If applicable, has land been secured for this project?	☐ Yes	☑ No
Have all the applicable line items on the Business Case Overview been completed?	☑ Yes	☐ No
Do the milestones you identified take into consideration availability of resources?	☑ Yes	☐ No
Cash flow projection with detail must be submitted for the project, is it enclosed?	☑ Yes	☐ No
Did you provide supporting documents for cash flows (i.e. L&R, Promod)?	☐ Yes	☑ No
Does the Total Project Cost on page 1 equal the Total Project Cost on your cash flow analysis?	☑ Yes	☐ No
If applicable, did you attach the financial analysis for each alternative?	☐ Yes	☑ No

Please provide additional information not disclosed for the committee's consideration:

Project Manager / Preparer Signature:

Name:	J Kyle Olson
Date:	8/23/2019

Approver Signature:

Name:	
Date:	

Please fill in the white areas with no shading.

Use this form if the new project has not been created in PowerPlant after requesting a new project through Cherwell

Run Spell Check Function

Project Number:	GR180
Project Description:	Rio Grande Unit 7 Generator Rewind
Total Project Capital Cost:	$2,231,459
Reporting Date:	1/20/2020

This form and supplemental documentation should be submitted to Financial Forecasting when requesting funds for a capital project greater than $500,000 and for an individual work order, included in a blanket project, over $500,000.

PROJECT OVERVIEW

Project Manager:	Chris Carroll	**Project Manager Phone Number:**	x2924
Owning Cost Center:	5131 POWER PLANT RIO GRANDE	**Major Project Location:**	19 - NM RIO GRANDE - UNIT 7
Project Functional Class:	Steam Production	**Business Segment:**	127 RIO GRANDE - UNIT 7
Associated Projects:	N/A		
In-Lieu of Component	Purchase power agreement RFP had no responses.		
Project Priority	HIGH - Important and Urgent		
Project overview/scope:	The Rio Grande Unit 7 will have the generator disassembled, inspected and reassembled after it is rewound with new hardware.		
Business Justification:	This unit is needed to support local generation during summer months.		
Project Risks and Constraints:	The greates risk to the project is threefold, Scope, schedule and budget. This is an unplanned forced outage. The full extent of all repairs will not be known until the unit is fully disassembled. There is a risk of cost increases.		
Primary Reason for Expenditure	System Reliabilty & Improvement		
Secondary Reason for Expenditure	Safety & Security		
Has the RFP process been completed	☐ Yes ☑ No	**Excludes AFUDC; mandatory if RFP process complete**	
If yes, Bid Estimate Date:		**Bid Estimate:**	$ -
If dollars are included in a blanket project, what is the amount?	$ -	**Total dollars included in FERC account 183000. That amount must be included in project cost**	$ -
Estimated Start Date:	1/25/2020	**Estimated Completion Date:**	5/31/2020

If applicable, describe and identify asset being replaced/retired

The assets being retired and replaced include the stator bars, 104 in total, a full set of stator wedges, ripple springs, ring blocking, radial rings, all tapes ties, blocks, resin, paint and miscellaneious bolting and parts needed to perform a rewind.

Please describe the potential Cost Savings and/or Cost Avoidance for this project:

The best cost avoidance at this juncture is a well managed project that maintains strict schedule and scope control to prevent avoidable delays. Cost for repair is less expensive than purchase of possibly unavailable power during peak summer months.

Describe alternatives considered:

A Purchase power agreement to replace the lost generation

What was the reason for selecting the proposed project over the alternatives considered?

There were no responses to the PPA RFP

COST/BENEFIT ANALYSIS

Select Best Alternative: **Alternative A**

	10 Year Total	30 Year Total	10 Year PV	30 Year PV
COST				
Capital Expenditures:	**$2,231,459**	**$2,231,459**	**$2,084,989**	**$2,084,989**
O&M Expenses:	**$0**	**$0**	**$0**	**$0**
Financing Costs (Benefit):	**$365,102**	**($1,484,873)**	**$290,683**	**($144,727)**
Income Tax Exp (Benefit):	**$583,748**	**$1,548,763**	**$399,823**	**$691,928**
TOTAL COSTS	**$3,180,309**	**$2,295,349**	**$2,775,495**	**$2,632,190**
BENEFITS				
Revenue Requirement:	**$3,007,367**	**$5,174,705**	**$2,123,485**	**$2,900,883**

Cost Savings:	**$0**	**$0**	**$0**	**$0**
Cost Avoidance:	**$0**	**$0**	**$0**	**$0**
AFUDC:	**$74,162**	**$74,162**	**$69,294**	**$69,294**
Other Benefits:	**$0**	**$0**	**$0**	**$0**
TOTAL BENEFITS	**$3,081,528**	**$5,248,866**	**$2,192,779**	**$2,970,177**
BENEFIT-COST RATIO			**0.79**	**1.13**

Please list major milestones:

Milestone:	Completed by:
Place order with GE	1/25/2020
Generator disassembly; Ship rotor off site for rings off inspection	2/15/2020
Engineering complete	2/15/2020
Material ships	3/17/2020
Stator rewind begins on site	4/1/2020
Rewind and generator reassembly complete	4/30/2020
	Click here to enter a date.
	Click here to enter a date.

Please list internal and external resources assigned to this project:

Resource Name:	Department/Company:	Have you contacted this resource about the project & related timing:			
General Electric		☑ Yes	☐ No	If no, explain why not:	
PG Outage Group		☑ Yes	☐ No	If no, explain why not:	
PG Engineering		☑ Yes	☐ No	If no, explain why not:	
RG Management		☑ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	
		☐ Yes	☐ No	If no, explain why not:	

checklist for items to be submitted		
Has Environmental been contacted?	☐ Yes	☑ No
If applicable, has land been secured for this project?	☐ Yes	☐ No
Have all the applicable line items on the Business Case Overview been completed?	☑ Yes	☐ No
Do the milestones you identified take into consideration availability of resources?	☑ Yes	☐ No
Cash flow projection with detail must be submitted for the project, is it enclosed?	☑ Yes	☐ No
Did you provide supporting documents for cash flows (i.e. L&R, Promod)?	☐ Yes	☑ No
Does the Total Project Cost on page 1 equal the Total Project Cost on your cash flow analysis?	☑ Yes	☐ No
If applicable, did you attach the financial analysis for each alternative?	☐ Yes	☐ No

Please provide additional information not disclosed for the committee's consideration:

Project Manager / Preparer Signature:	
Name:	Chris Carroll
Date:	1/20/2020

Approver Signature:	
Name:	
Date:	

Please fill in the white areas with no shading.

Use this form if the new project has not been created in PowerPlant after requesting a new project through Cherwell

Run Spell Check Function

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

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

EL PASO ELECTRIC COMPANY'S RESPONSE TO
FREEPORT-MCMORAN, INC'S SECOND REQUEST FOR INFORMATION
QUESTION NOS. FMI 2-1 THROUGH FMI 2-19

FMI 2-6:

Referring to EPE's Response to CEP 6-1, please provide the following in Excel format with all formulas and links intact:

a. Attachment 1, pages 1, 25, and 35.
b. Attachment 2
c. Attachment 3
d. Attachment 4

Please provide all supporting data for the pivot tables where applicable.

RESPONSE:

The attachments to EPE's response to CEP 6-1 were provided in Excel format in Kiteworks server with all supporting data for the pivot tables included.

Preparer: Curtis Hutcheson Title: Manager – Regulatory Case Management

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

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

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

EL PASO ELECTRIC COMPANY'S RESPONSE TO
FREEPORT-MCMORAN, INC'S SECOND REQUEST FOR INFORMATION
QUESTION NOS. FMI 2-1 THROUGH FMI 2-19

FMI 2-7:

Referring to EPE's Response to CEP 6-3, please provide Attachments 1 and 2 in Excel format with all formulas and links intact.

RESPONSE:

Attached are CEP 6-3, Attachments 1 and 2 in Excel format. El Paso Electric Company ("EPE") is unable to provide the Excel formulas and links intact, as this information was downloaded from EPE's OATI system.

To clarify, Attachment 2, reflects an estimate of February 2021's system marginal cost on a daily and hourly basis. EPE does not have natural gas, diesel fuel and nuclear fuel amounts for each day of February 2021, as EPE is invoiced monthly for those fuel sources.

In reference to EPE's response to CEP 6-3, to clarify, the reconcilable fuel amount provided of $9,935,796.88 only reflects natural gas and diesel fuel costs, offset by the Winter Storm credits received from EPE's Gas Counterparties (amounts received in April 2021). The total reconcilable fuel and purchased power amount for the month of February 2021, as reported in EPE's February 2021 monthly fuel report filed with the Public Utility Commission of Texas and which includes nuclear fuel and net purchased power costs, is $11,564,727.

Preparer: Jesse Gonzalez — Title: Manager – Day Ahead & Long-Term Trading

Sponsor: David C. Hawkins — Title: Vice President – Strategy & Sustainability

El Paso Electric Company
February 2021
Account 555 - Energy Purchases

SOAH Docket No. 473-21-2606
PUC Docket No. 52195
FMI's 2nd, Q. No. FMI 2-7
Attachment 1
Page 1 of 6

Date	Counterparty	Type	Data	HE1	HE2	HE3	HE4	HE5	HE6	HE7	HE8	HE9	HE10	HE11	HE12	HE13	HE14	HE15	HE16	HE17	HE18	HE19	HE20	HE21	HE22	HE23	HE24	MW Total	Trade Value*
2/1/2021	FREEPORT	Purchase	MWh	-125	-125	-125	-125	-125	-125	-124	-124	-121	-124	-124	-124	-123	-123	-124	-123	-123	-124	-124	-125	-124	-124	-124	-124	-2,976	0.00
2/1/2021	FREEPORT	Purchase	$/MWh																										
2/1/2021	MACHO	Purchase	MWh		-9609																							-9,609	-556,384.14
2/1/2021	MACHO	Purchase	$/MWh		57.9																								
2/1/2021	NEWSOL	Purchase	MWh		-1955																							-1,955	-107524.94
2/1/2021	NEWSOL	Purchase	$/MWh		55																								
2/1/2021	RAIN	Purchase	MWh		-5	-5	-5	-5	-5	-5																	-5	-35	-765.80
2/1/2021	RAIN	Purchase	$/MWh		21.88	21.88	21.88	21.88	21.88	21.88																	21.88		
2/1/2021	RAIN	Purchase	MWh		-12	-12	-12	-12	-12	-12																	-8	-80	-1750.4
2/1/2021	RAIN	Purchase	$/MWh		21.88	21.88	21.88	21.88	21.88	21.88																	21.88		
2/1/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-46554
2/1/2021	TENASKA	Purchase	$/MWh	21.56	23.88	23.88	23.88	23.88	23.88	23.88	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	23.88		
2/1/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-46,554.00
2/1/2021	TENASKA	Purchase	$/MWh	21.56	23.88	23.88	23.88	23.88	23.88	23.88	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	23.88		
2/2/2021	FREEPORT	Purchase	MWh	-124	-125	-125	-125	-125	-125	-124	-125	-124	-124	-124	-124	-124	-6					-1	-22	-78	-125	-125	-122	-124	-2,221	0.00
2/2/2021	FREEPORT	Purchase	$/MWh																										
2/2/2021	RAIN	Purchase	MWh	-5																								-5	-109.40
2/2/2021	RAIN	Purchase	$/MWh	21.88																									
2/2/2021	RAIN	Purchase	MWh	-8																								-8	-175.04
2/2/2021	RAIN	Purchase	$/MWh	21.88																									
2/2/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-43,992.75
2/2/2021	TENASKA	Purchase	$/MWh	23.88	23.63	23.63	23.63	23.63	23.63	23.63	24.83	24.83	24.83	24.83	24.83	24.83	24.83	24.83	24.83	24.83	24.83	24.83	24.83	24.83	24.83	24.83	23.63		
2/2/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-43,992.75
2/2/2021	TENASKA	Purchase	$/MWh	23.88	23.63	23.63	23.63	23.63	23.63	23.63	24.83	24.83	24.83	24.83	24.83	24.83	24.83	24.83	24.83	24.83	24.83	24.83	24.83	24.83	24.83	24.83	23.63		
2/3/2021	FREEPORT	Purchase	MWh	-124	-124	-124	-124	-124	-124	-124	-125	-124	-123	-124	-123	-124	-124	-124	-124	-124	-125	-124	-124	-125	-124	-124	-124	-2,977	0.00
2/3/2021	FREEPORT	Purchase	$/MWh																										
2/3/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-41,354.25
2/3/2021	TENASKA	Purchase	$/MWh	23.63	24.08	24.08	24.08	24.08	24.08	24.08	22.45	22.45	22.45	22.45	22.45	22.45	22.45	22.45	22.45	22.45	22.45	22.45	22.45	22.45	22.45	22.45	24.08		
2/3/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-41,354.25
2/3/2021	TENASKA	Purchase	$/MWh	23.63	24.08	24.08	24.08	24.08	24.08	24.08	22.45	22.45	22.45	22.45	22.45	22.45	22.45	22.45	22.45	22.45	22.45	22.45	22.45	22.45	22.45	22.45	24.08		
2/3/2021	TENASKA	Purchase	MWh													-17												-17	-442.85
2/3/2021	TENASKA	Purchase	$/MWh													26.05													
2/3/2021	TENASKA	Purchase	MWh													-8												-8	-208.40
2/3/2021	TENASKA	Purchase	$/MWh													26.05													
2/4/2021	FREEPORT	Purchase	MWh	-124	-124	-123	-124	-124	-124	-124	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-122	-125	-125	-125	-125	-2,989	0.00
2/4/2021	FREEPORT	Purchase	$/MWh																										
2/4/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-42,488.25
2/4/2021	TENASKA	Purchase	$/MWh	24.08	23.25	23.25	23.25	23.25	23.25	23.25	23.73	23.73	23.73	23.73	23.73	23.73	23.73	23.73	23.73	23.73	23.73	23.73	23.73	23.73	23.73	23.73	23.25		
2/4/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-42,488.25
2/4/2021	TENASKA	Purchase	$/MWh	24.08	23.25	23.25	23.25	23.25	23.25	23.25	23.73	23.73	23.73	23.73	23.73	23.73	23.73	23.73	23.73	23.73	23.73	23.73	23.73	23.73	23.73	23.73	23.25		
2/5/2021	BROOK RENEW	Purchase	MWh										-25															-25	-125.00
2/5/2021	BROOK RENEW	Purchase	$/MWh										5																
2/5/2021	BROOK RENEW	Purchase	MWh															-25										-25	-125.00
2/5/2021	BROOK RENEW	Purchase	$/MWh															5											
2/5/2021	FREEPORT	Purchase	MWh	-125	-125	-125	-125	-123	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-2,998	0.00
2/5/2021	FREEPORT	Purchase	$/MWh																										
2/5/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-43,001.25
2/5/2021	TENASKA	Purchase	$/MWh	23.25	24.3	24.3	24.3	24.3	24.3	24.3	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	24.3		
2/5/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-43,001.25
2/5/2021	TENASKA	Purchase	$/MWh	23.25	24.3	24.3	24.3	24.3	24.3	24.3	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	24.3		
2/6/2021	FREEPORT	Purchase	MWh	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-3,000	0.00
2/6/2021	FREEPORT	Purchase	$/MWh																										
2/6/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-43,080.00
2/6/2021	TENASKA	Purchase	$/MWh	24.3	24.3	24.3	24.3	24.3	24.3	24.3	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	24.3		
2/6/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-43,080.00

SOAH Docket No. 473-21-2606
PUC Docket No. 52195
FMI's 2nd, Q. No. FMI 2-7
Attachment 1
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El Paso Electric Company
February 2021
Account 555 - Energy Purchases

Date	Counterparty	Type	Data	HE1	HE2	HE3	HE4	HE5	HE6	HE7	HE8	HE9	HE10	HE11	HE12	HE13	HE14	HE15	HE16	HE17	HE18	HE19	HE20	HE21	HE22	HE23	HE24	MW Total	Trade Value*
2/6/2021	TENASKA	Purchase	$/MWh	24.3	24.3	24.3	24.3	24.3	24.3	24.3	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	24.3		
2/7/2021	FREEPORT	Purchase	MWh	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-3,000	0.00
2/7/2021	FREEPORT	Purchase	$/MWh																										
2/7/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-44,085.00
2/7/2021	TENASKA	Purchase	$/MWh	24.3	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5		
2/7/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-44,085.00
2/7/2021	TENASKA	Purchase	$/MWh	24.3	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5		
2/8/2021	FREEPORT	Purchase	MWh	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-124	-125	-125	-125	-125	-2,999	0.00
2/8/2021	FREEPORT	Purchase	$/MWh																										
2/8/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-48,300.00
2/8/2021	TENASKA	Purchase	$/MWh	24.5	24.5	24.5	24.5	24.5	24.5	24.5	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	24.5		
2/8/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-48,300.00
2/8/2021	TENASKA	Purchase	$/MWh	24.5	24.5	24.5	24.5	24.5	24.5	24.5	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	24.5		
2/9/2021	FREEPORT	Purchase	MWh	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-121	-125	-125	-125	-125	-2,996	0.00
2/9/2021	FREEPORT	Purchase	$/MWh																										
2/9/2021	TENASKA	Purchase	MWh								-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50		-800	-23,440.00
2/9/2021	TENASKA	Purchase	$/MWh	24.5	28.04	28.04	28.04	28.04	28.04	28.04	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	28.04		
2/9/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-75	-1,000	-28,278.50
2/9/2021	TENASKA	Purchase	$/MWh	24.5	28.04	28.04	28.04	28.04	28.04	28.04	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	28.04		
2/9/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-51,718.50
2/9/2021	TENASKA	Purchase	$/MWh	24.5	28.04	28.04	28.04	28.04	28.04	28.04	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	28.04		
2/10/2021	BROOK RENEW	Purchase	MWh												-37													-37	-370.00
2/10/2021	BROOK RENEW	Purchase	$/MWh												10														
2/10/2021	FREEPORT	Purchase	MWh	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-123	-119	-124	-125	-125	-125	-125	-125	-125	-125	-2,991	0.00
2/10/2021	FREEPORT	Purchase	$/MWh																										
2/10/2021	TENASKA	Purchase	MWh								-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25		-400	-11,100.00
2/10/2021	TENASKA	Purchase	$/MWh	28.04	28.19	28.19	28.19	28.19	28.19	28.19	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	28.19		
2/10/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-75	-1,400	-39,102.75
2/10/2021	TENASKA	Purchase	$/MWh	28.04	28.19	28.19	28.19	28.19	28.19	28.19	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	28.19		
2/10/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-50,202.75
2/10/2021	TENASKA	Purchase	$/MWh	28.04	28.19	28.19	28.19	28.19	28.19	28.19	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	28.19		
2/10/2021	TENASKA	Purchase	MWh		-3	-10	-10																					-23	-644.00
2/10/2021	TENASKA	Purchase	$/MWh		28	28	28																						
2/11/2021	FREEPORT	Purchase	MWh	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-115	-115	-115	-2,970	0.00
2/11/2021	FREEPORT	Purchase	$/MWh																										
2/11/2021	TENASKA	Purchase	MWh								-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25		-400	-12,316.00
2/11/2021	TENASKA	Purchase	$/MWh	28.19	31.38	31.38	31.38	31.38	31.38	31.38	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	31.38		
2/11/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-75	-1,400	-43,220.75
2/11/2021	TENASKA	Purchase	$/MWh	28.19	31.38	31.38	31.38	31.38	31.38	31.38	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	31.38		
2/11/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-55,536.75
2/11/2021	TENASKA	Purchase	$/MWh	28.19	31.38	31.38	31.38	31.38	31.38	31.38	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	31.38		
2/12/2021	FREEPORT	Purchase	MWh	-115	-115	-115	-115	-115	-115	-115	-116	-115	-113	-116	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-121	-124	-2,885	0.00
2/12/2021	FREEPORT	Purchase	$/MWh																										
2/12/2021	TENASKA	Purchase	MWh								-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25		-400	-12,316.00
2/12/2021	TENASKA	Purchase	$/MWh	31.38	31.38	31.38	31.38	31.38	31.38	31.38	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	31.38		
2/12/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-75	-1,400	-43,460.00
2/12/2021	TENASKA	Purchase	$/MWh	31.38	31.38	31.38	31.38	31.38	31.38	31.38	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	31.38		
2/12/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-55,776.00
2/12/2021	TENASKA	Purchase	$/MWh	31.38	31.38	31.38	31.38	31.38	31.38	31.38	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	30.79	31.38		
2/13/2021	FREEPORT	Purchase	MWh	-125	-124	-124	-124	-125	-124	-121	-122	-121	-122	-122	-121	-123	-123	-123	-123	-124	-123	-123	-123	-123	-123	-122	-121	-2,949	0.00
2/13/2021	FREEPORT	Purchase	$/MWh																										
2/13/2021	MACQUARIE	Purchase	MWh														-6											-6	-510.00
2/13/2021	MACQUARIE	Purchase	$/MWh														85												
2/13/2021	TENASKA	Purchase	MWh		-25	-25	-25	-25	-25	-25	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-25	-975	-79,736.00
2/13/2021	TENASKA	Purchase	$/MWh	31.38	68.8	68.8	68.8	68.8	68.8	68.8	84.62	84.62	84.62	84.62	84.62	84.62	84.62	84.62	84.62	84.62	84.62	84.62	84.62	84.62	84.62	84.62	68.8		

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2/13/2021	TENASKA	Purchase	MWh	-75	-50	-50	-50	-50	-50	-50	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-50	-825	-60,281.50
2/13/2021	TENASKA	Purchase	$/MWh	31.38	68.8	68.8	68.8	68.8	68.8	68.8	84.62	84.62	84.62	84.62	84.62	84.62	84.62	84.62	84.62	84.62	84.62	84.62	84.62	84.62	84.62	84.62	68.8		
2/13/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-140,017.50
2/13/2021	TENASKA	Purchase	$/MWh	31.38	68.8	68.8	68.8	68.8	68.8	68.8	84.62	84.62	84.62	84.62	84.62	84.62	84.62	84.62	84.62	84.62	84.62	84.62	84.62	84.62	84.62	84.62	68.8		
2/14/2021	AEPCO	Purchase	MWh																		-25	-25	-45	-45	-45			-185	-136,500.00
2/14/2021	AEPCO	Purchase	$/MWh																		300	300	900	900	900				
2/14/2021	BROOK RENEW	Purchase	MWh																			-21	-25	-25	-25	-25	-25	-146	-77,499.72
2/14/2021	BROOK RENEW	Purchase	$/MWh																			530.82	530.82	530.82	530.82	530.82	530.82		
2/14/2021	BROOK RENEW	Purchase	MWh																			-22	-25	-25	-25	-25	-25	-147	-4,645.20
2/14/2021	BROOK RENEW	Purchase	$/MWh																			31.6	31.6	31.6	31.6	31.6	31.6		
2/14/2021	FREEPORT	Purchase	MWh	-122	-125	-125	-120	-125	-125	-125	-123	-123	-123	-123	-123	-123	-124	-124	-124	-125	-121	-122	-125	-121	-122	-122	-122	-2,957	0.00
2/14/2021	FREEPORT	Purchase	$/MWh																										
2/14/2021	GUZ PART	Purchase	MWh																		-50	-50	-100	-100				-300	-195,000.00
2/14/2021	GUZ PART	Purchase	$/MWh																		650	650	650	650					
2/14/2021	LADWP	Purchase	MWh																			-50	-50		-100	-100	-100	-400	-80,000.00
2/14/2021	LADWP	Purchase	$/MWh																			200	200		200	200	200		
2/14/2021	LADWP	Purchase	MWh																		-25	-25	-25	-25	-25	-2		-127	-8,509.00
2/14/2021	LADWP	Purchase	$/MWh																		67	67	67	67	67	67			
2/14/2021	LADWP	Purchase	MWh																		-25	-24	-25	-25	-25	-2		-126	-8,442.00
2/14/2021	LADWP	Purchase	$/MWh																		67	67	67	67	67	67			
2/14/2021	MORGAN	Purchase	MWh																			-22	-25	-25	-25	-25	-25	-147	-4,645.20
2/14/2021	MORGAN	Purchase	$/MWh																			31.6	31.6	31.6	31.6	31.6	31.6		
2/14/2021	SHELL	Purchase	MWh																			-15	-25	-25	-25	-25	-25	-140	-50,626.80
2/14/2021	SHELL	Purchase	$/MWh																			361.62	361.62	361.62	361.62	361.62	361.62		
2/14/2021	SRP	Purchase	MWh																		-50							-50	-11,250.00
2/14/2021	SRP	Purchase	$/MWh																		225								
2/14/2021	TENASKA	Purchase	MWh	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-600	-41,280.00
2/14/2021	TENASKA	Purchase	$/MWh	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8		
2/14/2021	TENASKA	Purchase	MWh	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-1,200	-82,560.00
2/14/2021	TENASKA	Purchase	$/MWh	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8		
2/14/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-123,840.00
2/14/2021	TENASKA	Purchase	$/MWh	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8		
2/14/2021	TENASKA	Purchase	MWh																		-1	-25	-25	-25	-25	-25	-25	-151	-10,932.40
2/14/2021	TENASKA	Purchase	$/MWh																		72.4	72.4	72.4	72.4	72.4	72.4	72.4		
2/14/2021	TENASKA	Purchase	MWh																		-4	-50	-50	-50	-50	-50	-50	-304	-22,009.60
2/14/2021	TENASKA	Purchase	$/MWh																		72.4	72.4	72.4	72.4	72.4	72.4	72.4		
2/14/2021	TENASKA	Purchase	MWh																			-8	-10	-10	-10	-10	-10	-58	-4,199.20
2/14/2021	TENASKA	Purchase	$/MWh																			72.4	72.4	72.4	72.4	72.4	72.4		
2/14/2021	TENASKA	Purchase	MWh																			-14	-15	-15	-15	-15	-15	-89	-6,443.60
2/14/2021	TENASKA	Purchase	$/MWh																			72.4	72.4	72.4	72.4	72.4	72.4		
2/15/2021	FREEPORT	Purchase	MWh	-122	-125	-125	-125	-125	-125	-57																		-804	0.00
2/15/2021	FREEPORT	Purchase	$/MWh																										
2/15/2021	LADWP	Purchase	MWh																		-68	-68	-68	-68	-68	-68		-408	-102,000.00
2/15/2021	LADWP	Purchase	$/MWh																		250	250	250	250	250	250			
2/15/2021	LADWP	Purchase	MWh																								-75	-75	-35,625.00
2/15/2021	LADWP	Purchase	$/MWh																								475		
2/15/2021	PAC	Purchase	MWh	-143	-69	-50																						-262	-29,770.00
2/15/2021	PAC	Purchase	$/MWh	100	130	130																							
2/15/2021	PAC	Purchase	MWh												-30	-40	-40	-40	-40									-190	-42,750.00
2/15/2021	PAC	Purchase	$/MWh												225	225	225	225	225										
2/15/2021	POWERX	Purchase	MWh							-50	-50																	-100	-30,000.00
2/15/2021	POWERX	Purchase	$/MWh							300	300																		
2/15/2021	POWERX	Purchase	MWh																		-75	-75	-75	-75				-300	-97,875.00
2/15/2021	POWERX	Purchase	$/MWh																		255	350	350	350					
2/15/2021	POWERX	Purchase	MWh																						-75	-50		-125	-43,750.00

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2/15/2021	POWERX	Purchase	$/MWh																						350	350			
2/15/2021	TENASKA	Purchase	MWh	-25	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,750	-416,365.00
2/15/2021	TENASKA	Purchase	$/MWh	68.8	169	169	169	169	169	169	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	169		
2/15/2021	TENASKA	Purchase	MWh	-50																								-50	-3,440.00
2/15/2021	TENASKA	Purchase	$/MWh	68.8	169	169	169	169	169	169	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	169		
2/15/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-419,805.00
2/15/2021	TENASKA	Purchase	$/MWh	68.8	169	169	169	169	169	169	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	169		
2/15/2021	TENASKA	Purchase	MWh																-25									-25	-6,790.00
2/15/2021	TENASKA	Purchase	$/MWh																271.6										
2/15/2021	TRANSALTA	Purchase	MWh	-25						-50																		-75	-23,875.00
2/15/2021	TRANSALTA	Purchase	$/MWh	275						340																			
2/15/2021	TRI-STATE	Purchase	MWh													-25	-30	-40	-75	-50								-220	-60,500.00
2/15/2021	TRI-STATE	Purchase	$/MWh													275	275	275	275	275									
2/15/2021	TRI-STATE	Purchase	MWh																								-50	-50	-16,250.00
2/15/2021	TRI-STATE	Purchase	$/MWh																								325		
2/16/2021	AEPCO	Purchase	MWh																			-25						-25	-12,500.00
2/16/2021	AEPCO	Purchase	$/MWh																			500							
2/16/2021	LADWP	Purchase	MWh																			-75						-75	-22,500.00
2/16/2021	LADWP	Purchase	$/MWh																			300							
2/16/2021	PAC	Purchase	MWh	-60																								-60	-18,000.00
2/16/2021	PAC	Purchase	$/MWh	300																									
2/16/2021	PAC	Purchase	MWh													-35	-85				-100							-220	-45,500.00
2/16/2021	PAC	Purchase	$/MWh													150	150				275								
2/16/2021	PNM	Purchase	MWh																							-10		-10	-2,500.00
2/16/2021	PNM	Purchase	$/MWh																							250			
2/16/2021	POWERX	Purchase	MWh		-30	-30	-60	-50																				-170	-34,000.00
2/16/2021	POWERX	Purchase	$/MWh		200	200	200	200																					
2/16/2021	POWERX	Purchase	MWh						-75	-175	-90																	-340	-98,600.00
2/16/2021	POWERX	Purchase	$/MWh						290	290	290																		
2/16/2021	POWERX	Purchase	MWh												-35													-35	-8,750.00
2/16/2021	POWERX	Purchase	$/MWh												250														
2/16/2021	POWERX	Purchase	MWh																				-75	-75	-19	-19		-188	-65,800.00
2/16/2021	POWERX	Purchase	$/MWh																				350	350	350	350			
2/16/2021	SRP	Purchase	MWh						-30																			-30	-7,500.00
2/16/2021	SRP	Purchase	$/MWh						250																				
2/16/2021	SRP	Purchase	MWh									-50																-50	-15,000.00
2/16/2021	SRP	Purchase	$/MWh									300																	
2/16/2021	SRP	Purchase	MWh																				-100	-100				-200	-60,000.00
2/16/2021	SRP	Purchase	$/MWh																				300	300					
2/16/2021	SRP	Purchase	MWh																						-50		-85	-135	-40,500.00
2/16/2021	SRP	Purchase	$/MWh																						300		300		
2/16/2021	SRP	Purchase	MWh																								-55	-55	-16,500.00
2/16/2021	SRP	Purchase	$/MWh																								300		
2/16/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-427,320.00
2/16/2021	TENASKA	Purchase	$/MWh	169	169	169	169	169	169	169	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	169		
2/16/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-427,320.00
2/16/2021	TENASKA	Purchase	$/MWh	169	169	169	169	169	169	169	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	271.6	169		
2/16/2021	TEP	Purchase	MWh																	-25								-25	-20,000.00
2/16/2021	TEP	Purchase	$/MWh																	800									
2/16/2021	TRI-STATE	Purchase	MWh															-85	-85	-85	-60	-20	-50					-385	-82,125.00
2/16/2021	TRI-STATE	Purchase	$/MWh															175	175	175	275	300	300						
2/16/2021	TRI-STATE	Purchase	MWh																						-25	-25		-50	-15,000.00
2/16/2021	TRI-STATE	Purchase	$/MWh																						300	300			
2/17/2021	POWERX	Purchase	MWh							-25	-50	-6																-81	-44,400.00
2/17/2021	POWERX	Purchase	$/MWh							550	550	525																	

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Date	Counterparty	Type	Data	HE1	HE2	HE3	HE4	HE5	HE6	HE7	HE8	HE9	HE10	HE11	HE12	HE13	HE14	HE15	HE16	HE17	HE18	HE19	HE20	HE21	HE22	HE23	HE24	MW Total	Trade Value*
2/17/2021	SRP	Purchase	MWh	-35																								-35	-8,750.00
2/17/2021	SRP	Purchase	$/MWh	250																									
2/17/2021	SRP	Purchase	MWh	-65																								-65	-16,250.00
2/17/2021	SRP	Purchase	$/MWh	250																									
2/17/2021	SRP	Purchase	MWh							-25																		-25	-8,750.00
2/17/2021	SRP	Purchase	$/MWh							350																			
2/17/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-626,910.75
2/17/2021	TENASKA	Purchase	$/MWh	169	312.83	312.83	312.83	312.83	312.83	312.83	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	312.83		
2/17/2021	TENASKA	Purchase	MWh	-75																								-75	-12,675.00
2/17/2021	TENASKA	Purchase	$/MWh	169	312.83	312.83	312.83	312.83	312.83	312.83	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	375	312.83		
2/17/2021	TRI-STATE	Purchase	MWh	-25																								-25	-6,250.00
2/17/2021	TRI-STATE	Purchase	$/MWh	250																									
2/18/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-421,833.00
2/18/2021	TENASKA	Purchase	$/MWh	312.83	235.83	235.83	235.83	235.83	235.83	235.83	228.8	228.8	228.8	228.8	228.8	228.8	228.8	228.8	228.8	228.8	228.8	228.8	228.8	228.8	228.8	228.8	235.83		
2/19/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-183,746.25
2/19/2021	TENASKA	Purchase	$/MWh	235.83	95.16	95.16	95.16	95.16	95.16	95.16	96.75	96.75	96.75	96.75	96.75	96.75	96.75	96.75	96.75	96.75	96.75	96.75	96.75	96.75	96.75	96.75	95.16		
2/20/2021	PAC	Purchase	MWh							-25																		-25	-1,200.00
2/20/2021	PAC	Purchase	$/MWh							48																			
2/20/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-173,196.00
2/20/2021	TENASKA	Purchase	$/MWh	95.16	95.16	95.16	95.16	95.16	95.16	95.16	96.75	96.75	96.75	96.75	96.75	96.75	96.75	96.75	96.75	96.75	96.75	96.75	96.75	96.75	96.75	96.75	95.16		
2/21/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-76,740.75
2/21/2021	TENASKA	Purchase	$/MWh	95.16	40.35	40.35	40.35	40.35	40.35	40.35	40.35	40.35	40.35	40.35	40.35	40.35	40.35	40.35	40.35	40.35	40.35	40.35	40.35	40.35	40.35	40.35	40.35		
2/21/2021	TENASKA	Purchase	MWh		-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,725	-69,603.75
2/21/2021	TENASKA	Purchase	$/MWh	95.16	40.35	40.35	40.35	40.35	40.35	40.35	40.35	40.35	40.35	40.35	40.35	40.35	40.35	40.35	40.35	40.35	40.35	40.35	40.35	40.35	40.35	40.35	40.35		
2/22/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-80,610.00
2/22/2021	TENASKA	Purchase	$/MWh	40.35	40.35	40.35	40.35	40.35	40.35	40.35	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	40.35		
2/22/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-80,610.00
2/22/2021	TENASKA	Purchase	$/MWh	40.35	40.35	40.35	40.35	40.35	40.35	40.35	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	40.35		
2/23/2021	FREEPORT	Purchase	MWh						-105	-112	-110	-117	-118	-122	-123	-121	-121	-122	-124	-124	-118	-124	-125	-125	-125	-124	-125	-2,285	0.00
2/23/2021	FREEPORT	Purchase	$/MWh																										
2/23/2021	TENASKA	Purchase	MWh	-75	-25	-25	-25	-25	-25	-25	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-25	-1,450	-45,152.25
2/23/2021	TENASKA	Purchase	$/MWh	40.35	30	30	30	30	30	30	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30		
2/23/2021	TENASKA	Purchase	MWh		-50	-50	-50	-50	-50	-50																	-50	-350	-10,500.00
2/23/2021	TENASKA	Purchase	$/MWh	40.35	30	30	30	30	30	30	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30		
2/23/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-55,652.25
2/23/2021	TENASKA	Purchase	$/MWh	40.35	30	30	30	30	30	30	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30.73	30		
2/24/2021	FREEPORT	Purchase	MWh	-124	-125	-125	-125	-125	-125	-125	-124	-124	-125	-124	-124	-124	-124	-124	-124	-123	-124	-124	-123	-123	-123	-117	-109	-2,957	0.00
2/24/2021	FREEPORT	Purchase	$/MWh																										
2/24/2021	TENASKA	Purchase	MWh	-25	-50	-50	-50	-50	-50	-50	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-50	-1,575	-44,515.00
2/24/2021	TENASKA	Purchase	$/MWh	30	29.9	29.9	29.9	29.9	29.9	29.9	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	29.9		
2/24/2021	TENASKA	Purchase	MWh	-50	-25	-25	-25	-25	-25	-25																	-25	-225	-6,732.50
2/24/2021	TENASKA	Purchase	$/MWh	30	29.9	29.9	29.9	29.9	29.9	29.9	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	29.9		
2/24/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-51,247.50
2/24/2021	TENASKA	Purchase	$/MWh	30	29.9	29.9	29.9	29.9	29.9	29.9	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	27.75	29.9		
2/24/2021	TENASKA	Purchase	MWh											-20	-20	-19	-20	-20	-19	-16								-134	-4,200.90
2/24/2021	TENASKA	Purchase	$/MWh											31.35	31.35	31.35	31.35	31.35	31.35	31.35									
2/25/2021	FREEPORT	Purchase	MWh	-116	-124	-124	-124	-125	-124	-125	-124	-120	-116	-117	-117	-117	-117	-117	-117	-117	-117	-117	-116	-116	-116	-117	-116	-2,856	0.00
2/25/2021	FREEPORT	Purchase	$/MWh																										
2/25/2021	TENASKA	Purchase	MWh	-50	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,775	-43,241.50
2/25/2021	TENASKA	Purchase	$/MWh	29.9	27.7	27.7	27.7	27.7	27.7	27.7	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	27.7		
2/25/2021	TENASKA	Purchase	MWh	-25																								-25	-747.50
2/25/2021	TENASKA	Purchase	$/MWh	29.9	27.7	27.7	27.7	27.7	27.7	27.7	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	27.7		
2/25/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-43,989.00
2/25/2021	TENASKA	Purchase	$/MWh	29.9	27.7	27.7	27.7	27.7	27.7	27.7	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	27.7		
2/25/2021	TEP	Purchase	MWh							-35																		-35	-1,400.00

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Date	Counterparty	Type	Data	HE1	HE2	HE3	HE4	HE5	HE6	HE7	HE8	HE9	HE10	HE11	HE12	HE13	HE14	HE15	HE16	HE17	HE18	HE19	HE20	HE21	HE22	HE23	HE24	MW Total	Trade Value*
2/25/2021	TEP	Purchase	$/MWh							40																			
2/26/2021	FREEPORT	Purchase	MWh	-116	-116	-117	-122	-125	-124	-124	-124	-124	-124	-124	-124	-125	-125	-125	-125	-125	-125	-125	-124	-124	-124	-124	-124	-2,959	0.00
2/26/2021	FREEPORT	Purchase	$/MWh																										
2/26/2021	POWERX	Purchase	MWh													-75	-75	-75	-45	-30								-300	-1,500.00
2/26/2021	POWERX	Purchase	$/MWh													5	5	5	5	5									
2/26/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-43,824.00
2/26/2021	TENASKA	Purchase	$/MWh	27.7	27.7	27.7	27.7	27.7	27.7	27.7	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	27.7		
2/26/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-43,824.00
2/26/2021	TENASKA	Purchase	$/MWh	27.7	27.7	27.7	27.7	27.7	27.7	27.7	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	22.67	27.7		
2/26/2021	TENASKA	Purchase	MWh																							-20	-20	-40	-1,151.40
2/26/2021	TENASKA	Purchase	$/MWh																							26.27	31.3		
2/26/2021	TENASKA	Purchase	MWh											-30	-40													-70	-1,838.90
2/26/2021	TENASKA	Purchase	$/MWh											26.27	26.27														
2/27/2021	FREEPORT	Purchase	MWh	-124	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-125	-124	-124	-2,997	0.00
2/27/2021	FREEPORT	Purchase	$/MWh																										
2/27/2021	MACQUARIE	Purchase	MWh		-50	-50	-50	-50	-50	-50																	-50	-350	-5,250.00
2/27/2021	MACQUARIE	Purchase	$/MWh		15	15	15	15	15	15																	15		
2/27/2021	MACQUARIE	Purchase	MWh								-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50		-800	-12,000.00
2/27/2021	MACQUARIE	Purchase	$/MWh								15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15			
2/27/2021	MACQUARIE	Purchase	MWh										-25	-50	-50	-50	-50	-50	-50	-25								-350	-5,250.00
2/27/2021	MACQUARIE	Purchase	$/MWh										15	15	15	15	15	15	15	15									
2/27/2021	TENASKA	Purchase	MWh	-75	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-1,225	-24,135.50
2/27/2021	TENASKA	Purchase	$/MWh	27.7	19.64	19.64	19.64	19.64	19.64	19.64	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	19.64		
2/27/2021	TENASKA	Purchase	MWh		-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-575	-11,029.00
2/27/2021	TENASKA	Purchase	$/MWh	27.7	19.64	19.64	19.64	19.64	19.64	19.64	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	19.64		
2/27/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-35,164.50
2/27/2021	TENASKA	Purchase	$/MWh	27.7	19.64	19.64	19.64	19.64	19.64	19.64	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	18.98	19.64		
2/27/2021	TENASKA	Purchase	MWh	-23																								-23	-719.90
2/27/2021	TENASKA	Purchase	$/MWh	31.3																									
2/27/2021	TENASKA	Purchase	MWh		-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-15	-345	-7,859.40
2/27/2021	TENASKA	Purchase	$/MWh		23.24	23.24	23.24	23.24	23.24	23.24	22.58	22.58	22.58	22.58	22.58	22.58	22.58	22.58	22.58	22.58	22.58	22.58	22.58	22.58	22.58	22.58	23.24		
2/28/2021	FREEPORT	Purchase	MWh	-123	-124	-124	-124	-124	-124	-124	-124	-124	-125	-124	-124	-125	-124	-124	-124	-124	-125	-124	-124	-124	-124	-124	-124	-2,978	0.00
2/28/2021	FREEPORT	Purchase	$/MWh																										
2/28/2021	TENASKA	Purchase	MWh	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-50	-1,200	-23,568.00
2/28/2021	TENASKA	Purchase	$/MWh	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64		
2/28/2021	TENASKA	Purchase	MWh	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-25	-600	-11,784.00
2/28/2021	TENASKA	Purchase	$/MWh	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64		
2/28/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-35,352.00
2/28/2021	TENASKA	Purchase	$/MWh	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64	19.64		
2/28/2021	TENASKA	Purchase	MWh	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-75	-1,800	-41,832.00
2/28/2021	TENASKA	Purchase	$/MWh	23.24	23.24	23.24	23.24	23.24	23.24	23.24	23.24	23.24	23.24	23.24	23.24	23.24	23.24	23.24	23.24	23.24	23.24	23.24	23.24	23.24	23.24	23.24	23.24		

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February 2021
Incremental Cost

Date	Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
2/01/2021	MST	19.93	15.74	17.88	20.20	20.33	20.85	20.13	20.42	20.96	19.95	15.45	15.43	15.44	15.44	15.45	15.45	15.45	19.43	18.13	17.86	15.46	15.45	19.40	19.43
2/02/2021	MST	19.46	19.54	19.47	15.46	15.46	21.03	15.42	17.86	15.45	15.42	15.47	15.44	15.47	15.49	20.64	17.78	17.15	20.05	19.16	18.17	16.52	15.51	18.04	15.51
2/03/2021	MST	15.50	15.49	15.49	15.49	15.49	18.06	15.52	15.50	15.48	15.48	16.11	16.10	16.10	16.09	16.11	16.09	16.12	19.51	19.79	19.05	16.60	16.12	16.11	16.10
2/04/2021	MST	16.09	16.05	16.09	16.10	16.05	16.09	16.11	16.09	16.05	16.06	16.16	16.18	16.17	16.20	16.21	16.20	16.20	19.94	20.86	16.24	16.23	16.21	16.20	16.19
2/05/2021	MST	16.20	16.20	16.20	16.20	16.21	16.24	20.70	16.22	16.21	15.88	15.83	15.86	15.86	15.85	15.86	15.86	15.89	19.33	20.35	20.05	15.91	15.88	15.87	15.85
2/06/2021	MST	15.83	15.84	15.84	15.84	15.85	15.86	15.86	15.84	15.85	15.84	15.84	15.84	15.83	15.83	15.84	15.83	15.86	15.90	16.87	16.80	15.90	15.86	15.87	15.85
2/07/2021	MST	15.87	15.86	15.87	15.85	15.86	15.88	15.88	15.83	15.84	15.85	15.86	15.87	15.86	15.86	15.84	15.83	15.87	15.89	15.90	25.20	26.65	18.41	15.89	15.86
2/08/2021	MST	15.88	15.87	15.86	15.87	15.89	15.90	25.74	15.89	15.87	15.88	15.88	15.85	15.84	15.84	15.87	15.89	15.90	20.79	19.38	17.98	16.57	15.90	15.88	15.88
2/09/2021	MST	15.89	15.89	15.88	15.88	25.03	15.90	19.98	15.89	15.85	15.87	15.87	15.85	15.86	15.86	15.86	15.85	15.88	20.01	20.59	15.90	20.53	15.90	15.90	20.11
2/10/2021	MST	15.90	20.02	15.90	15.90	15.90	20.33	20.37	15.91	15.88	15.88	17.17	21.42	17.17	17.18	17.18	17.19	21.95	23.55	23.76	24.44	23.20	21.87	17.18	17.19
2/11/2021	MST	17.18	17.17	17.17	21.57	21.42	21.59	19.45	17.16	17.18	17.18	16.34	16.35	16.34	16.36	16.35	20.70	22.19	23.25	23.27	22.50	22.10	21.16	21.14	20.75
2/12/2021	MST	21.60	16.36	20.85	20.90	16.36	21.30	21.84	20.66	20.96	21.00	21.54	22.46	22.68	21.80	22.09	16.57	21.60	24.17	24.74	23.46	21.81	21.00	16.57	16.57
2/13/2021	MST	16.56	16.56	16.56	16.56	16.55	16.56	16.57	16.53	16.56	16.55	16.57	16.56	21.24	23.23	23.84	22.97	15.82	16.43	16.89	16.71	16.47	16.64	16.80	16.50
2/14/2021	MST	16.36	16.15	16.22	16.33	16.36	16.40	14.95	16.14	11.66	11.66	11.66	11.66	11.56	11.22	11.46	10.87	10.85	16.52	10.83	10.80	10.81	10.80	10.80	10.80
2/15/2021	MST	10.81	10.81	10.81	10.82	10.83	10.83	10.82	10.83	10.86	10.87	10.87	10.85	10.83	10.84	10.83	10.80	10.41	10.85	10.87	10.84	10.83	10.81	10.80	10.82
2/16/2021	MST	10.83	10.82	10.82	10.82	10.82	10.82	10.82	10.85	10.88	10.88	10.86	10.85	10.81	12.67	14.78	13.43	12.34	14.84	12.98	12.07	12.16	12.12	11.14	10.01
2/17/2021	MST	10.01	10.01	10.01	10.01	10.01	10.01	10.83	10.01	10.01	10.01	10.01	10.01	10.01	10.01	10.01	10.01	10.01	11.16	12.52	12.43	12.00	10.01	10.01	10.01
2/18/2021	MST	10.01	10.01	10.01	10.01	10.01	10.01	12.32	10.46	10.01	10.55	11.55	13.20	11.67	10.01	10.01	11.95	10.01	11.96	12.95	12.98	12.55	11.02	11.87	10.35
2/19/2021	MST	12.34	12.15	12.01	10.86	10.01	11.99	13.16	10.99	10.01	13.61	13.26	12.74	12.74	12.74	14.12	14.39	12.00	13.98	13.34	13.43	13.22	12.51	10.41	12.00
2/20/2021	MST	12.00	14.06	14.10	14.07	13.92	14.00	14.19	13.73	13.58	18.24	18.23	18.06	18.13	18.29	14.28	14.28	14.28	14.30	14.29	14.29	14.27	14.27	14.28	14.27
2/21/2021	MST	14.28	14.29	14.29	14.28	14.29	14.30	14.30	14.29	14.28	14.27	14.28	14.28	14.27	14.27	14.29	14.31	14.27	14.28	14.30	14.30	14.30	14.29	14.28	14.30
2/22/2021	MST	14.29	14.29	14.29	14.29	14.30	14.29	14.32	14.31	20.02	16.15	16.38	16.76	17.26	16.14	15.90	15.40	15.02	16.73	15.89	15.90	15.49	14.75	14.32	14.86
2/23/2021	MST	14.68	15.90	16.04	16.36	15.26	16.77	15.05	14.39	15.26	20.72	21.61	20.89	22.95	23.61	22.98	23.10	22.20	22.67	23.81	23.56	23.57	22.19	20.97	21.50
2/24/2021	MST	21.23	23.85	23.15	23.60	24.24	27.11	24.52	23.51	21.45	21.31	21.64	22.86	23.09	22.80	23.95	24.27	23.36	23.58	24.29	23.88	22.89	22.18	22.77	24.02
2/25/2021	MST	24.07	23.06	22.64	22.82	23.35	24.38	23.88	23.65	22.58	22.44	22.65	23.47	23.17	22.01	22.73	23.27	22.74	22.21	23.53	23.57	23.02	21.56	23.45	23.01
2/26/2021	MST	23.02	22.36	22.72	22.47	23.27	22.34	22.31	22.61	22.86	23.42	22.69	27.17	24.35	24.17	22.99	23.64	24.71	23.41	24.11	24.29	23.47	22.61	22.12	21.99
2/27/2021	MST	20.90	21.29	21.04	21.06	21.32	21.96	20.22	21.22	22.67	22.23	22.14	22.90	23.54	24.65	24.56	27.55	23.65	22.49	23.22	23.66	23.22	22.50	23.58	23.44
2/28/2021	MST	22.07	22.33	22.15	22.24	22.32	22.68	22.29	20.65	21.93	21.66	21.64	21.84	21.70	22.04	22.84	23.70	21.37	23.26	24.62	24.72	24.34	23.38	22.11	21.24

SOAH Docket No. 473-21-2606
PUC Docket No. 52195
FMI's 2nd, Q. No. FMI 2-7
Attachment 2
Page 1 of 1

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

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

EL PASO ELECTRIC COMPANY'S RESPONSE TO
FREEPORT-MCMORAN, INC'S SECOND REQUEST FOR INFORMATION
QUESTION NOS. FMI 2-1 THROUGH FMI 2-19

FMI 2-8:

Referring to EPE's Response to CEP 6-11, please provide Attachment 1 in Excel format with all formulas and links intact.

RESPONSE:

Per the discussion with counsel for Freeport McMoRan, Inc., El Paso Electric Company is referencing CEP 6-12 in this response. CEP 6-12, Attachment 1, contains all formulas and links intact. There is no additional information responsive to this request.

Preparer: Pedro Vega Title: Senior Accountant – Power Generation

Sponsor: J Kyle Olson Title: Manager – Power Generation Engineering

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

EL PASO ELECTRIC COMPANY'S RESPONSE TO
FREEPORT-MCMORAN, INC'S SECOND REQUEST FOR INFORMATION
QUESTION NOS. FMI 2-1 THROUGH FMI 2-19

FMI 2-9:

Referring to EPE's Response to CEP 7-15, please provide a detailed description of the changes in "some of the life and net salvage parameters" by FERC account. Please explain why the changes were made.

RESPONSE:

Service life and net salvage estimates are based on analyses that are conducted as of a specific point in time and the expectations of the future. The Depreciation Study in this case, for example, was conducted as of December 31, 2019. The analysis of historic company data that is part of the study is a significant basis for the service life and net salvage estimates that are proposed. As time passes, the factors that impact service life and net salvage analyses will change. For example, plant balances or age of assets will increase, retirement activity will change, in some cases significantly, and cost of removal and gross salvage could change as a relationship of retirements. On a normal basis these changes accumulate, and in some cases, significant changes can occur such as the planned retirement of particular types of assets or the addition of a generating facility. The result is that service life and net salvage analyses performed at subsequent points in time typically yield different results. As indicated in the Depreciation Study for this case (on page IV-2), the results of the study can be considered "reasonable for a period of three to five years."

The estimates proposed in the Depreciation Study conducted as of December 31, 2014 and the updated study for select facilities as of December 31, 2016, as compared to those proposed in the instant case are provided in the attached schedule. For many accounts, the proposed parameters are the same as those previously proposed. The differences that do occur between estimates are often relatively small net salvage percentages or slightly different type curve and/or average service life combinations. Slight changes are anticipated given the amount of elapsed time between studies and the change in plant activity that has occurred.

Preparer: John J. Spanos — Title: President, Gannett Fleming Valuation and Rate Consultants, LLC

Sponsor: John J. Spanos — Title: President, Gannett Fleming Valuation and Rate Consultants, LLC

EL PASO ELECTRIC COMPANY

COMPARISON OF PROPOSED SURVIVOR CURVE AND NET SALVAGE PERCENT FROM CURRENT AND MOST RECENTLY FILED DEPRECIATION STUDIES

	DEPRECIABLE GROUP	2019 STUDY ESTIMATES SURVIVOR CURVE		2019 STUDY ESTIMATES NET SALVAGE PERCENT	MOST RECENTLY FILED ESTIMATES SURVIVOR CURVE		MOST RECENTLY FILED ESTIMATES NET SALVAGE PERCENT
STEAM PRODUCTION PLANT							
311.00	STRUCTURES AND IMPROVEMENTS						
	RIO GRANDE UNIT 6	100-R3	*	(9)	100-S2.5	*	(5)
	RIO GRANDE UNIT 7	100-R3	*	(9)	100-S2.5	*	(5)
	RIO GRANDE UNIT 8	100-R3	*	(9)	100-S2.5	*	(5)
	RIO GRANDE COMMON	100-R3	*	(9)	100-S2.5	*	(5)
	NEWMAN UNIT 1	100-R3	*	(6)	100-S2.5	*	(5)
	NEWMAN UNIT 2	100-R3	*	(6)	100-S2.5	*	(5)
	NEWMAN UNIT 3	100-R3	*	(6)	100-S2.5	*	(5)
	NEWMAN UNIT 4	100-R3	*	(6)	100-S2.5	*	(5)
	NEWMAN UNIT 5	100-R3	*	(6)	100-S2.5	*	(5)
	NEWMAN COMMON	100-R3	*	(6)	100-S2.5	*	(5)
312.00	BOILER PLANT EQUIPMENT						
	RIO GRANDE UNIT 6	70-R4	*	(9)	80-R4	*	(10)
	RIO GRANDE UNIT 7	70-R4	*	(9)	80-R4	*	(10)
	RIO GRANDE UNIT 8	70-R4	*	(9)	80-R4	*	(10)
	RIO GRANDE COMMON	70-R4	*	(9)	80-R4	*	(10)
	NEWMAN UNIT 1	70-R4	*	(6)	80-R4	*	(10)
	NEWMAN UNIT 2	70-R4	*	(6)	80-R4	*	(10)
	NEWMAN UNIT 3	70-R4	*	(6)	80-R4	*	(10)
	NEWMAN UNIT 4	70-R4	*	(6)	80-R4	*	(10)
	NEWMAN UNIT 5	70-R4	*	(6)	80-R4	*	(10)
	NEWMAN COMMON	70-R4	*	(6)	80-R4	*	(10)
313.00	ENGINES AND ENGINE-DRIVEN GENERATORS						
	NEWMAN UNIT 1	55-R2.5	*	0	50-R3	*	(10)
	NEWMAN UNIT 4	55-R2.5	*	0	50-R3	*	(10)
	NEWMAN UNIT 5	55-R2.5	*	0	50-R3	*	(10)
	TOTAL ACCOUNT 313						
314.00	TURBOGENERATOR UNITS						
	RIO GRANDE UNIT 6	75-R2.5	*	(9)	75-S3	*	(5)
	RIO GRANDE UNIT 7	75-R2.5	*	(9)	75-S3	*	(5)
	RIO GRANDE UNIT 8	75-R2.5	*	(9)	75-S3	*	(5)
	NEWMAN UNIT 1	75-R2.5	*	(6)	75-S3	*	(5)
	NEWMAN UNIT 2	75-R2.5	*	(6)	75-S3	*	(5)
	NEWMAN UNIT 3	75-R2.5	*	(6)	75-S3	*	(5)
	NEWMAN UNIT 4	75-R2.5	*	(6)	75-S3	*	(5)
	NEWMAN UNIT 5	75-R2.5	*	(6)	75-S3	*	(5)
	NEWMAN COMMON	75-R2.5	*	(6)	75-S3	*	(5)
315.00	ACCESSORY ELECTRIC EQUIPMENT						
	RIO GRANDE UNIT 6	65-S4	*	(9)	65-R4	*	0
	RIO GRANDE UNIT 7	65-S4	*	(9)	65-R4	*	0
	RIO GRANDE UNIT 8	65-S4	*	(9)	65-R4	*	0
	NEWMAN UNIT 1	65-S4	*	(6)	65-R4	*	0
	NEWMAN UNIT 2	65-S4	*	(6)	65-R4	*	0
	NEWMAN UNIT 3	65-S4	*	(6)	65-R4	*	0
	NEWMAN UNIT 4	65-S4	*	(6)	65-R4	*	0
	NEWMAN UNIT 5	65-S4	*	(6)	65-R4	*	0
	NEWMAN COMMON	65-S4	*	(6)	65-R4	*	0
316.00	MISCELLANEOUS POWER PLANT EQUIPMENT						
	RIO GRANDE UNIT 6	70-S2.5	*	(9)	65-R3	*	0
	RIO GRANDE UNIT 7	70-S2.5	*	(9)	65-R3	*	0
	RIO GRANDE UNIT 8	70-S2.5	*	(9)	65-R3	*	0
	RIO GRANDE COMMON	70-S2.5	*	(9)	65-R3	*	0
	NEWMAN UNIT 1	70-S2.5	*	(6)	65-R3	*	0
	NEWMAN UNIT 2	70-S2.5	*	(6)	65-R3	*	0
	NEWMAN UNIT 3	70-S2.5	*	(6)	65-R3	*	0
	NEWMAN UNIT 4	70-S2.5	*	(6)	65-R3	*	0
	NEWMAN UNIT 5	70-S2.5	*	(6)	65-R3	*	0
	NEWMAN ZERO LIQUID DISCHARGE	70-S2.5	*	(6)	65-R3	*	0
	NEWMAN COMMON	70-S2.5	*	(6)	65-R3	*	0

EL PASO ELECTRIC COMPANY

COMPARISON OF PROPOSED SURVIVOR CURVE AND NET SALVAGE PERCENT FROM CURRENT AND MOST RECENTLY FILED DEPRECIATION STUDIES

	DEPRECIABLE GROUP	2019 STUDY ESTIMATES SURVIVOR CURVE		2019 STUDY ESTIMATES NET SALVAGE PERCENT	MOST RECENTLY FILED ESTIMATES SURVIVOR CURVE		MOST RECENTLY FILED ESTIMATES NET SALVAGE PERCENT
GAS TURBINE PLANT							
341.00	STRUCTURES AND IMPROVEMENTS						
	COPPER POWER STATION	60-R4	*	(8)	60-S2.5	*	0
	RIO GRANDE UNIT 9	60-R4	*	(6)	60-S2.5	*	0
	MONTANA POWER STATION UNIT 1	60-R4	*	(6)	60-S2.5	*	(5)
	MONTANA POWER STATION UNIT 2	60-R4	*	(6)	60-S2.5	*	(5)
	MONTANA POWER STATION UNIT 3	60-R4	*	(6)	60-S2.5	*	(5)
	MONTANA POWER STATION UNIT 4	60-R4	*	(6)	60-S2.5	*	(5)
	MONTANA POWER STATION COMMON	60-R4	*	(7)	60-S2.5	*	(5)
	SOLAR FACILITIES	35-S2	*	0	50-R3	*	0
342.00	FUEL HOLDERS						
	COPPER POWER STATION	50-R4	*	(8)	45-R4	*	0
	RIO GRANDE UNIT 9	50-R4	*	(6)	45-R4	*	0
	MONTANA POWER STATION COMMON	50-R4	*	(7)	45-R4	*	0
343.00	PRIME MOVERS						
	RIO GRANDE UNIT 9	40-S1	*	(6)	40-S1	*	0
	MONTANA POWER STATION UNIT 1	40-S1	*	(6)	40-S0.5	*	(5)
	MONTANA POWER STATION UNIT 2	40-S1	*	(6)	40-S0.5	*	(5)
	MONTANA POWER STATION UNIT 3	40-S1	*	(6)	40-S0.5	*	(5)
	MONTANA POWER STATION UNIT 4	40-S1	*	(6)	40-S0.5	*	(5)
	MONTANA POWER STATION COMMON	40-S1	*	(7)	40-S0.5	*	(5)
344.00	GENERATORS						
	COPPER POWER STATION	45-S3	*	(8)	40-R3	*	0
	RIO GRANDE UNIT 9	45-S3	*	(6)	40-R3	*	0
	MONTANA POWER STATION UNIT 1	45-S3	*	(6)	45-R3	*	(5)
	MONTANA POWER STATION UNIT 2	45-S3	*	(6)	45-R3	*	(5)
	MONTANA POWER STATION UNIT 3	45-S3	*	(6)	45-R3	*	(5)
	MONTANA POWER STATION UNIT 4	45-S3	*	(6)	45-R3	*	(5)
	MONTANA POWER STATION COMMON	45-S3	*	(7)	30-S2.5	*	0
	SOLAR FACILITIES	25-S2.5	*	0			
345.00	ACCESSORY ELECTRIC EQUIPMENT						
	COPPER POWER STATION	45-S1.5	*	(8)	45-S1.5	*	0
	RIO GRANDE UNIT 9	45-S1.5	*	(6)	45-S1.5	*	0
	MONTANA POWER STATION UNIT 1	45-S1.5	*	(6)	45-R2.5	*	(3)
	MONTANA POWER STATION UNIT 2	45-S1.5	*	(6)	45-R2.5	*	(3)
	MONTANA POWER STATION UNIT 3	45-S1.5	*	(6)	45-R2.5	*	(3)
	MONTANA POWER STATION UNIT 4	45-S1.5	*	(6)	45-R2.5	*	(3)
	MONTANA POWER STATION COMMON	45-S1.5	*	(7)	45-R2.5	*	(3)
	SOLAR FACILITIES	25-S2.5	*	0	40-R2.5	*	0
346.00	MISCELLANEOUS POWER PLANT EQUIPMENT						
	COPPER POWER STATION	50-R4	*	(8)	45-S3	*	0
	RIO GRANDE UNIT 9	50-R4	*	(6)	45-S3	*	0
	MONTANA POWER STATION UNIT 1	50-R4	*	(6)	45-S3	*	(3)
	MONTANA POWER STATION UNIT 2	50-R4	*	(6)	45-S3	*	(3)
	MONTANA POWER STATION UNIT 3	50-R4	*	(6)	45-S3	*	(3)
	MONTANA POWER STATION UNIT 4	50-R4	*	(6)	45-S3	*	(3)
	MONTANA POWER STATION COMMON	50-R4	*	(7)	45-S3	*	(2)
TRANSMISSION PLANT							
350.10	LAND RIGHTS	80-R3		0	75-R3		0
350.10	LAND RIGHTS - ISLETA	SQUARE	*	0			
352.00	STRUCTURES AND IMPROVEMENTS	75-R4		(5)	65-R4		(5)
353.00	STATION EQUIPMENT	50-R4		(5)	48-R4		(2)
354.00	STEEL TOWERS AND FIXTURES	75-R4		(10)	70-R4		(10)
355.00	WOOD AND STEEL POLES	55-S3		(20)	50-S3		(25)
356.00	OVERHEAD CONDUCTORS AND DEVICES	60-R5		(15)	60-R5		(10)
359.00	ROADS AND TRAILS	70-R3		0	65-R3		0

EL PASO ELECTRIC COMPANY

COMPARISON OF PROPOSED SURVIVOR CURVE AND NET SALVAGE PERCENT FROM CURRENT AND MOST RECENTLY FILED DEPRECIATION STUDIES

DEPRECIABLE GROUP		2019 STUDY ESTIMATES SURVIVOR CURVE		2019 STUDY ESTIMATES NET SALVAGE PERCENT	MOST RECENTLY FILED ESTIMATES SURVIVOR CURVE		MOST RECENTLY FILED ESTIMATES NET SALVAGE PERCENT
DISTRIBUTION PLANT							
360.10	LAND RIGHTS	70-R4		0	70-R4		0
361.00	STRUCTURES AND IMPROVEMENTS	70-R3		(5)	65-R3		(5)
362.00	STATION EQUIPMENT	65-R2		(5)	60-R2		(2)
364.00	POLES, TOWERS AND FIXTURES	45-R3		(30)	45-R3		(20)
365.00	OVERHEAD CONDUCTORS AND DEVICES	48-R2.5		(15)	48-R2.5		(15)
366.00	UNDERGROUND CONDUIT	65-R4		(5)	57-R4		(10)
367.00	UNDERGROUND CONDUCTORS AND DEVICES	41-S2		(20)	40-R3		(15)
368.00	LINE TRANSFORMERS	52-R3		(15)	55-R3		(5)
369.00	SERVICES	65-S3		(15)	60-S3		(15)
370.00	METERS	35-R2.5		(15)	31-R2		(10)
371.00	INSTALLATIONS ON CUSTOMERS' PREMISES	35-R2		(15)	36-R2		(15)
373.00	STREET LIGHTING AND SIGNAL SYSTEMS	55-R3		(20)	50-R3		(15)
GENERAL PLANT							
390.00	STRUCTURES AND IMPROVEMENTS						
	SYSTEMS OPERATIONS BUILDING	80-R2.5	*	0	80-R2.5	*	0
	STANTON TOWER	80-R2.5	*	0	80-R2.5	*	0
	EASTSIDE OPERATIONS CENTER	80-R2.5	*	0	80-R2.5	*	0
	OTHER STRUCTURES	40-S0.5		0	40-S0.5		0
391.00	OFFICE FURNITURE AND EQUIPMENT	20-SQ		0	20-SQ		0
393.00	STORES EQUIPMENT	25-SQ		0	25-SQ		0
394.00	TOOLS, SHOP AND GARAGE EQUIPMENT	25-SQ		0	25-SQ		0
395.00	LABORATORY EQUIPMENT	15-SQ		0	15-SQ		0
396.00	POWER OPERATED EQUIPMENT	21-R2.5		15	22-R2.5		5
397.00	COMMUNICATION EQUIPMENT	15-SQ		0	15-SQ		0
398.00	MISCELLANEOUS EQUIPMENT	15-SQ		0	15-SQ		0

* INTERIM SURVIVOR CURVES USED. EACH LOCATION HAS A UNIQUE PROBABLE RETIREMENT DATE.

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QUESTION NOS. FMI 2-1 THROUGH FMI 2-19

FMI 2-10:

Referring to EPE's Response to CEP 9-17, please explain in detail why EPE changed its allocation of peaking generation facilities and production O&M expenses.

RESPONSE:

Please see El Paso Electric Company's responses to UTEP 1-2, FMI 1-17, and FMI 2-16.

Preparer: Adrian Hernandez Title: Senior Rate Analyst – Rates

Sponsor: Adrian Hernandez Title: Senior Rate Analyst – Rates

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

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QUESTION NOS. FMI 2-1 THROUGH FMI 2-19

FMI 2-11:

Referring to EPE's Response to VS 1-9, please provide Attachment 1 in Excel format with all formulas and links intact.

RESPONSE:

El Paso Electric Company's ("EPE") Response to VS 1-9, Attachment 1, was provided in Excel format with all formulas and links intact and filed as such in EPE's Response to Vinton Steel's First Set of Requests for Information.

Several of the hardcoded values are from documents filed in the dockets indicated in the footnotes. Specifically, these values are in columns labeled:

- DN 46831, Base and Fuel
- DN 49148, Base
- DN 49395, Base
- DN 51348, Base

None of these hardcoded values are subject to change as they are presented in VS 1-9, Attachment 1, as filed in those now closed dockets.

Preparer: Manuel Carrasco Title: Manager – Rate Research

Sponsor: Manuel Carrasco Title: Manager – Rate Research

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QUESTION NOS. FMI 2-1 THROUGH FMI 2-19

FMI 2-12:

Referring to the sheet "Rate Class Allocation" within EPE's Regulatory Case Working Model, explain each of the following items and how they are related to either production plant or peaking plant:

a. 303000-COPP-MISC INTANG PLT: PLANT.

b. 303000-NWJT-MISC INTANG PLT: PLANT.

c. 303000-NWU5-MISC INTANG PLT: PLANT.

d. 920000-COPP-A&G SALARIES.

e. 920000-COPP-A&G SALARIES-LABOR.

f. 920000-MPSCO-A&G SALARIES-LABOR.

g. 920000-MPSU1-A&G SALARIES-LABOR.

h. 920000-MPSU2-A&G SALARIES-LABOR.

i. 920000-MPSU3-A&G SALARIES-LABOR.

j. 920000-MPSU4-A&G SALARIES-LABOR.

k. 921000-COPP-OFFICE SUPPLIES & EXP.

l. 921000-MPSCO-OFFICE SUPPLIES & EXP.

m. 921000-MPSU1-OFFICE SUPPLIES & EXP.

n. 921000-MPSU2-OFFICE SUPPLIES & EXP.

o. 921000-MPSU3-OFFICE SUPPLIES & EXP.

p. 921000-MPSU4-OFFICE SUPPLIES & EXP.

q. 925000-COPP-INJURIES AND DAMAGES.

r. 925000-MPSCO-INJURIES AND DAMAGES.

s. 925000-MPSJT-INJURIES AND DAMAGES.

t. 925000-MPSU1-INJURIES AND DAMAGES.

u. 925000-MPSU2-INJURIES AND DAMAGES.

v. 925000-MPSU3-INJURIES AND DAMAGES.

w. 925000-MPSU4-INJURIES AND DAMAGES.

x. 925000-RGU9-INJURIES AND DAMAGES.

y. 926000-COPP-PENSIONS & BEN.

z. 926000-MPSCO-PENSIONS & BEN.

aa. 926000-MPSJT-PENSIONS & BEN.

bb. 926000-MPSU1-PENSIONS & BEN.

cc. 926000-MPSU2-PENSIONS & BEN.

dd. 926000-MPSU3-PENSIONS & BEN.

ee. 926000-MPSU4-PENSIONS & BEN.

ff. 926000-RGU9-PENSIONS & BEN.

gg. 931000-MPSCO-RENTS.

hh. 935000-MPSCO-MAINT OF GEN PLT.

ii. 935000-MPSCO-MAINT OF GEN PLT-LABOR.

RESPONSE:

The regulatory accounts ("reg accounts") listed above were created based on information recorded in El Paso Electric Company's ("EPE") accounting system (refer to Adrian Hernandez's direct testimony page 5, lines 21 through 24). Except for b. and c. relating to the Newman Plant, refer to Adrian Hernandez's direct testimony (page 11, lines 6 through 8) for the generating facilities that EPE identifies as peaking units. Based on the reg account descriptions listed above, EPE determined the following:

a. Related to Copper.

b. Related to Newman joint costs.

c. Related to Newman Unit 5.

d. Related to Copper.

e. Related to Copper.

f. Related to Montana Power Station common costs.

g. Related to Montana Power Station Unit 1.

h. Related to Montana Power Station Unit 2.

i. Related to Montana Power Station Unit 3.

j. Related to Montana Power Station Unit 4.

k. Related to Copper.

l. Related to Montana Power Station common costs.

m. Related to Montana Power Station Unit 1.

n. Related to Montana Power Station Unit 2.

o. Related to Montana Power Station Unit 3.

p. Related to Montana Power Station Unit 4.

q. Related to Copper.

r. Related to Montana Power Station common costs.

s. Related to Montana Power Station joint costs.

t. Related to Montana Power Station Unit 1.

u. Related to Montana Power Station Unit 2.

v. Related to Montana Power Station Unit 3.

w. Related to Montana Power Station Unit 4.

x. Related to Rio Grande Unit 9.

y. Related to Copper.

z. Related to Montana Power Station common costs.

aa. Related to Montana Power Station joint costs.

bb. Related to Montana Power Station Unit 1.

cc. Related to Montana Power Station Unit 2.

dd. Related to Montana Power Station Unit 3.

ee. Related to Montana Power Station Unit 4.

ff. Related to Rio Grande Unit 9.

gg. Related to Montana Power Station common costs.

hh. Related to Montana Power Station common costs.

ii. Related to Montana Power Station common costs.

Preparer: Adrian Hernandez Title: Senior Rate Analyst – Rates

Sponsor: Adrian Hernandez Title: Senior Rate Analyst – Rates

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

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QUESTION NOS. FMI 2-1 THROUGH FMI 2-19

FMI 2-13:

Explain how EPE determined the portion of Administration and General expenses that are related to transmission and distribution.

RESPONSE:

El Paso Electric Company ("EPE") assigns allocators to Administration and General ("A&G") expenses based on the regulatory account ("Reg Account") descriptions. Therefore, EPE assigned distribution or transmission allocators to the Reg Accounts listed below:

Reg Account	Allocator
920000-TRANS-A&G SALARIES	TRANLABOR
920000-TRANS-A&G SALARIES-LABOR	TRANLABOR
921000-TRANS-OFFICE SUPPLIES & EXP	TRANLABOR
925000-DISTR-INJURIES AND DAMAGES	DISTLABOR
925000-TRANS-INJURIES AND DAMAGES	TRANLABOR
926000-DISTR-PENSIONS & BEN	DISTLABOR
926000-TRANS-PENSIONS & BEN	TRANLABOR
931000-TRANS-RENTS	TRANLABOR
935000-TRANS-MAINT OF GEN PLT	TRANLABOR
935000-TRANS-MAINT OF GEN PLT-LABOR	TRANLABOR

The remaining A&G accounts are allocated to non-transmission and distribution functions, or they are not directly related to a function. Therefore, they are allocated with the LABOR allocator, which is a dynamic allocator that spreads the costs based on the allocation of the functional payroll operation and maintenance accounts (see EPE witness Adrian Hernandez's direct testimony page 11, line 31, through page 12, line 9).

Preparer: Adrian Hernandez Title: Senior Rate Analyst – Rates

Sponsor: Adrian Hernandez Title: Senior Rate Analyst – Rates

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

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QUESTION NOS. FMI 2-1 THROUGH FMI 2-19

FMI 2-14:

Referring to the sheet "Rate Class Allocation" within EPE's Regulatory Case Working Model, explain the specific nature each of the expenses listed below.

a. 555000 - ADJ ONLY-NON RECON – TX.
b. 555000-PROD-PURCHASED POWER.
c. 555000-TEXAS-PURCHASED POWER.

RESPONSE:

Refer to Workpaper A-3, Adjustment No. 2.

a. This is an adjustment account that is used for assigning the non-reconcilable purchased power costs that are not recoverable through El Paso Electric Company's ("EPE") fuel factor (refer to Workpaper A-3, Adjustment No. 2).
b. This account is used to allocate purchased power expenses between jurisdictions.
c. This account is used for purchased power expenses related to Texas such as non-firm purchased power from Texas distributed generation customers and the Texas share of Newman Solar purchased power.

Note that the reconcilable fuel and purchased power expenses are offset with fuel revenues in the cost of service and are not a part of EPE's proposed base rates.

Preparer:	Adrian Hernandez	Title:	Senior Rate Analyst – Rates
Sponsor:	Adrian Hernandez Jennifer Borden	Title:	Senior Rate Analyst – Rates Director – Regulatory Accounting

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FMI 2-15:

Referring to the sheet "Rate Class Allocation" within EPE's Regulatory Case Working Model, identify the specific generating units associated with Other Production Plant.

RESPONSE:

Refer to the direct testimony of Adrian Hernandez (page 9, lines 10 through 19) for the list of El Paso Electric Company owned solar facilities included in Other Production Plant.

Refer to the direct testimony of Adrian Hernandez (page 11, lines 2 through 8) for the list of peaking generation facilities included in Other Production Plant.

Preparer: Adrian Hernandez Title: Senior Rate Analyst – Rates

Sponsor: Adrian Hernandez Title: Senior Rate Analyst – Rates

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FMI 2-16:

State the rationale for classifying the expenses charged to each of the following FERC Accounts to Energy and whether the Public Utility Commission of Texas has previously approved said classification in a prior litigated rate case:

a. 502.
b. 505.
c. 513.
d. 514.
e. 519.
f. 520.
g. 523.
h. 530.
i. 531.
j. 532.

RESPONSE:

El Paso Electric Company ("EPE") uses cost causation when classifying production operation and maintenance ("O&M") expenses as either energy or demand. Refer to Attachment 1 provided in EPE's response to FMI 1-17 for the classification of each account listed above from the NARUC Cost Allocation Manual. EPE's recent rate cases have been "black box" settlements and the Commission has not specifically approved EPE's classification rationale.

Preparer: Adrian Hernandez Title: Senior Rate Analyst – Rates

Sponsor: Adrian Hernandez Title: Senior Rate Analyst – Rates

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FMI 2-17:

Provide workpapers showing the derivation of the MAJ_ACCT-REPS allocation factors.

RESPONSE:

The MAJ_ACCT_REPS allocation factor is determined using the annual customer count of all non-residential rate classes. See line 29 in errata Schedule P-7 (filed on October 1, 2021, and also filed as CEP 12-23, Attachment 1).

Preparer: Adrian Hernandez Title: Senior Rate Analyst – Rates

Sponsor: Adrian Hernandez Title: Senior Rate Analyst – Rates

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FMI 2-18:

State the specific roles and responsibilities of the personnel that provide Major Account Representative services and how EPE determined the expenses associated with Major Account Representatives.

RESPONSE:

Please refer to El Paso Electric Company's response to OPUC 7-2.

Preparer: Walter Guerrero Title: Supervisor – Commercial Services

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

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FMI 2-19:

State whether all of EPE's generating units and the generation acquired through purchased power agreements are controlled and dispatched as an integrated system. If that is not the case, explain how EPE controls and dispatches each generating resource.

RESPONSE:

El Paso Electric Company ("EPE") does perform its dispatch as a total system for all of the generation resources owned by EPE and those contracted via Purchased Power Agreement. It should be noted that Palo Verde nuclear generation is must take when operating.

Preparer: Omar Gallegos Title: Sr. Director – Resource Planning Management

Sponsor: David C. Hawkins Title: Vice President – Strategy & Sustainability

The following files are not convertible:

FMI 02-01_Attachment 01 2019-Chaparral.xlsx
FMI 02-01_Attachment 02 2019-Hatch.xlsx
FMI 02-01_Attachment 03 2019-Holloman.xlsx
FMI 02-01_Attachment 04 2019-Las Cruces.xlsx
FMI 02-01_Attachment 05 2019-Macho.xlsx
FMI 02-01_Attachment 06 2019-Montana.xlsx
FMI 02-01_Attachment 07 2019-Newman.xlsx
FMI 02-01_Attachment 08 2019-Roadrunner.xlsx
FMI 02-01_Attachment 09 2020-Chaparral.xlsx
FMI 02-01_Attachment 10 2020-Hatch.xlsx
FMI 02-01_Attachment 11 2020-Holloman.xlsx
FMI 02-01_Attachment 12 2020-Las Cruces.xlsx
FMI 02-01_Attachment 13 2020-Macho.xlsx
FMI 02-01_Attachment 14 2020-Montana.xlsx
FMI 02-01_Attachment 15 2020-Newman.xlsx
FMI 02-01_Attachment 16 2020-Roadrunner.xlsx
FMI 02-01_Attachment 17 Projected Outputs.xlsx
FMI 02-02_Attachment 1.xlsx
FMI 02-03_Attachment_06 .xlsx
FMI 02-04_Attachment 1.xlsx
FMI 02-05_Attachment 03 - GM125.xlsx
FMI 02-05_Attachment 04 - GM126.xlsx
FMI 02-05_Attachment 05 - GM130.xlsx
FMI 02-05_Attachment 06 - GM133.xlsx
FMI 02-05_Attachment 09 - GN209.xlsx
FMI 02-05_Attachment 10 - GN210.xlsx
FMI 02-05_Attachment 11 - GN211.xlsx
FMI 02-05_Attachment 12 - GN217.xlsx
FMI 02-05_Attachment 13 - GN218.xlsx
FMI 02-05_Attachment 14 - GN219.xlsx
FMI 02-05_Attachment 15 - GN221.xlsx
FMI 02-05_Attachment 16 - GN222.xlsx
FMI 02-05_Attachment 17 - GN228.xlsx
FMI 02-05_Attachment 18 - GN232.xlsx
FMI 02-05_Attachment 19 - GN238.xlsx
FMI 02-05_Attachment 20 - GN263.xlsx
FMI 02-05_Attachment 21 - GN264.xlsx
FMI 02-05_Attachment 22 - GR165.xlsx
FMI 02-05_Attachment 23 - GR174.xlsx

FMI 02-05_Attachment 24 - GR175.xlsx
FMI 02-05_Attachment 25 - GR176.xlsx
FMI 02-05_Attachment 26 - GR177.xlsx
FMI 02-05_Attachment 27 - GR180.xlsx
FMI 02-07_Attachment 1 - February 2021 Purchases Detail.xlsx
FMI 02-07_Attachment 2 - February 2021 Incremental Cost.xlsx
FMI 02-09_Attachment.xlsx

Please see the ZIP file for this Filing on the PUC Interchange in order to access these files.

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