MISSOURI PUBLIC SERVICE COMMISSION

STAFF REPORT

REVENUE REQUIREMENT COST OF SERVICE

APPENDIX 3

Other Staff Schedules

KCP&L GREATER MISSOURI OPERATIONS COMPANY

CASE NO. ER-2016-0156

Jefferson City, Missouri July 2016

The attached current Commission ordered depreciation accrual rates are from ER-2012-0175, which adopted the rates from ER-2010-0356.

ER-2010-0356 KCP&L GMO L&P DEPRECIATION RATES - Stipulation Agreement Copy SCHEDULE C

ACCOUNT	ACCOUNT DESCRIPTION	DEPRECIATION RATE
31 31 312.0 312.0 31 31	PLANT - LAKE ROAD 1 STRUCTURES & IMPROVEMENTS 2 BOILER PLANT EQUIPMENT 1 BOILER PLANT EQUIPMENT - UNIT TRAINS 2 BOILER PLANT EQUIPMENT - AQC 4 TURBOGENERATOR UNITS 5 ACCESSORY ELECTRICAL EQUIPMENT 6 MISCELLANEOUS EQUIPMENT	1.90% 2.16% 0.00% 2.16% 2.33% 2.37% 2.90%
31 312.0 312.0 31 31	PLANT - IATAN 1 1 STRUCTURES & IMPROVEMENTS 2 BOILER PLANT EQUIPMENT 1 BOILER PLANT EQUIPMENT - UNIT TRAINS 2 BOILER PLANT EQUIPMENT - AQC 4 TURBOGENERATOR UNITS 5 ACCESSORY ELECTRICAL EQUIPMENT 6 MISCELLANEOUS EQUIPMENT	1.84% 2.04% 0.00% 2.04% 2.30% 2.34% 2.49%
31 31: 312.0 312.0 31: 31:	PLANT - IATAN COMMON (SJLP) 1 STRUCTURES & IMPROVEMENTS 2 BOILER PLANT EQUIPMENT - UNIT TRAINS 2 BOILER PLANT EQUIPMENT - AQC 4 TURBOGENERATOR UNITS 5 ACCESSORY ELECTRICAL EQUIPMENT 6 MISCELLANEOUS EQUIPMENT	1.84% 2.04% 0.00% 2.04% 2.30% 2.34% 2.49%
31: 31: 312.0 312.0 31: 31:	PLANT - IATAN UNIT 2 (SJLP) 1 STRUCTURES & IMPROVEMENTS 2 BOILER PLANT EQUIPMENT - UNIT TRAINS 2 BOILER PLANT EQUIPMENT - AQC 4 TURBOGENERATOR UNITS 5 ACCESSORY ELECTRICAL EQUIPMENT 8 MISCELLANEOUS EQUIPMENT	1.84% 2.04% 0.00% 2.04% 2.30% 2.34% 2.49%
34: 34: 34: 34:	PLANT 1 STRUCTURES & IMPROVEMENTS 2 FUEL HOLDERS, PRODUCERS & ACCESSORIES 3 PRIME MOVERS 4 GENERATORS 5 ACCESSORY ELECTRICAL EQUIPMENT 6 MISCELLANEOUS EQUIPMENT	1.75% 3.09% 4.78% 4.11% 2.84% 3.57%
350 354 358 350 350 350	T 2 STRUCTURES & IMPROVEMENTS 3 STATION EQUIPMENT 4 TOWERS & FIXTURES 5 POLES & FIXTURES 6 OVERHEAD CONDUCTOR & DEVICES 7 UNDERGROUND CONDUCTOR & DEVICES 8 UNDERGROUND CONDUCTOR & DEVICES	1.83% 1.70% 1.85% 2.93% 2.32% 1.70% 2.49%
355	T - ECORP (SJLP) 3 STATION EQUIPMENT 5 POLES & FIXTURES 6 OVERHEAD CONDUCTOR & DEVICES	1.70% 2.93% 2.32%
362 364 365 367 369.01 369.01 370.01 370.01	STRUCTURES & IMPROVEMENTS STATION EQUIPMENT POLES & FIXTURES OVERHEAD CONDUCTOR & DEVICES UNDERGROUND CONDUIT UNDERGROUND CONDUCTOR & DEVICES STRANSFORMERS SERVICES - OVERHEAD SERVICES - UNDERGROUND METERS METERS METERS - LOAD RESEARCH METERS INSTALLATIONS ON CUSTOMERS' PREMISES STREET LIGHTING & SIGNAL SYSTEMS	1.61% 2.08% 3.89% 2.18% 1.70% 2.49% 3.45% 3.64% 3.05% 2.00% 0.00% 5.12% 3.18%

ER-2010-0356 KCP&L GMO L&P DEPRECIATION RATES - Stipulation Agreement Copy SCHEDULE C

ACCOUNT	ACCOUNT DESCRIPTION	DEPRECIATION RATE
GENERAL PLANT		
390 ST	TRUCTURES & IMPROVEMENTS	2.73%
391.01 OI	FFICE FURNITURE & EQUIPMENT	5.00%
391,02 C	OMPUTER EQUIPMENT - HARDWARE	12.50%
391.04 C	OMPUTER EQUIPMENT - SOFTWARE	11.11%
392 At	UTO\$	11.25%
392.01 LI	GHT TRUCKS	11,25%
392.02 H	EAVY TRUCKS	11.25%
	RACTORS	11.25%
	EDIUM TRUCKS	11.25%
	TORES EQUIPMENT	4.00%
	DOLS, SHOP & GARAGE EQUIPMENT	4.00%
	ABORATORY EQUIPMENT	3.30%
	OWER OPERATED EQUIPMENT	4.45%
	OMMUNICATIONS EQUIPMENT	3.70%
398 MI	ISCELLANEOUS EQUIPMENT	4.00%
GENERAL PLANT - ECOR	P (SJLP)	
390 S1	TRUCTURES & IMPROVEMENTS	2.22%
391.01 O	FFICE FURNITURE & EQUIPMENT	5.00%
391.02 Co	OMPUTER EQUIPMENT - HARDWARE	12.50%
391.04 C	OMPUTER EQUIPMENT - SOFTWARE	11.11%
392 AU	JTOS	12.50%
392.01 Li	GHT TRUCKS	12.50%
392.02 HE	EAVY TRUCKS	12.50%
392.04 TF	RACTORS	12.50%
392.05 MI	EDIUM TRUCKS	12.50%
393 S1	TORES EQUIPMENT	4.00%
	DOLS, SHOP & GARAGE EQUIPMENT	4.00%
	ABORATORY EQUIPMENT	3.30%
396 PC	OWER OPERATED EQUIPMENT	4.45%
	OMMUNICATIONS EQUIPMENT	3.70%
398 MI	ISCELLANEOUS EQUIPMENT	4.00%

ER-2010-0356 KCP&L GMO MPS DEPRECIATION RATES - Stipulation Agreement Copy SCHEDULE B

ACCOUNT	ACCOUNT DESCRIPTION	DEPRECIATION RATE
312 BOILE 312.01 BOILE 312.02 BOILE 314 TURB 315 ACCE	ANT - JEC CTURES & IMPROVEMENTS ER PLANT EQUIPMENT ER PLANT EQUIPMENT - UNIT TRAINS ER PLANT EQUIPMENT - AQC OGENERATOR UNITS SSORY ELECTRICAL EQUIPMENT ELLANEOUS EQUIPMENT	1.87% 2.10% 0.00% 2.10% 2.31% 2.37% 2.59%
312 BOILE 312.01 BOILE 312.02 BOILE 314 TURB 315 ACCE	ANT - SIBLEY CTURES & IMPROVEMENTS ER PLANT EQUIPMENT ER PLANT EQUIPMENT - UNIT TRAINS ER PLANT EQUIPMENT - AQC OGENERATOR UNITS SSORY ELECTRICAL EQUIPMENT ELLANEOUS EQUIPMENT	1.87% 2.19% 0.00% 2.19% 2.33% 2.40% 2.50%
311 STRU 312 BOILE 312.01 BOILE 312.02 BOILE 314 TURB 315 ACCE	ANT - IATAN COMMON (MOPUB) CTURES & IMPROVEMENTS ER PLANT EQUIPMENT ER PLANT EQUIPMENT - UNIT TRAINS ER PLANT EQUIPMENT - AQC OGENERATOR UNITS SSORY ELECTRICAL EQUIPMENT ELLANEOUS EQUIPMENT	1.87% 2.19% 0.00% 2.19% 2.33% 2.40% 2.50%
311 STRU 312 BOILE 312.01 BOILE 312.02 BOILE 314 TURB 315 ACCE	ANT - IATAN UNIT 2 (MOPUB) CTURES & IMPROVEMENTS ER PLANT EQUIPMENT ER PLANT EQUIPMENT - UNIT TRAINS ER PLANT EQUIPMENT - AQC OGENERATOR UNITS SSORY ELECTRICAL EQUIPMENT ELLANEOUS EQUIPMENT	1.87% 2.19% 0.00% 2.19% 2.33% 2.40% 2.50%
342 FUEL 343 PRIME 344 GENE 345 ACCE	CTURES & IMPROVEMENTS HOLDERS, PRODUCERS & ACCESSORIES E MOVERS	1.75% 3.09% 4.81% 3.80% 2.85% 3.57%
353 STATI 354 TOWE 355 POLE 356 OVER 357 UNDE	CTURES & IMPROVEMENTS ON EQUIPMENT ERS & FIXTURES S & FIXTURES HEAD CONDUCTOR & DEVICES RGROUND CONDUIT RGROUND CONDUCTOR & DEVICES	1.83% 1.70% 1.85% 2.93% 2.32% 0.00% 2.49%
355 POLE	ON EQUIPMENT S & FIXTURES HEAD CONDUCTOR & DEVICES	1.70% 2.93% 2.32%

ER-2010-0356 KCP&L GMO MPS DEPRECIATION RATES - Stipulation Agreement Copy SCHEDULE B

ACCOUNT	ACCOUNT DESCRIPTION	DEPRECIATION RATE
DISTRIBUTION PLA	NT	
361	STRUCTURES & IMPROVEMENTS	1.61%
362	STATION EQUIPMENT	2.08%
364	POLES & FIXTURES	3.89%
365	OVERHEAD CONDUCTOR & DEVICES	2.18%
	UNDERGROUND CONDUIT	1.70%
	UNDERGROUND CONDUCTOR & DEVICES	2.49%
	TRANSFORMERS	3.45%
	SERVICES - OVERHEAD	3.64%
	SERVICES - UNDERGROUND	3.05%
	METERS	2.00%
	METERS - LOAD RESEARCH METERS	7.14%
	INSTALLATIONS ON CUSTOMERS' PREMISES	5.12%
3/3	STREET LIGHTING & SIGNAL SYSTEMS	3.18%
GENERAL PLANT		
390	STRUCTURES & IMPROVEMENTS	2.73%
391.01	OFFICE FURNITURE & EQUIPMENT	5.00%
391.02	COMPUTER EQUIPMENT - HARDWARE	12.50%
	COMPUTER EQUIPMENT - SOFTWARE	11.11%
	AUTOS	11.25%
	LIGHT TRUCKS	11.25%
	HEAVY TRUCKS	11.25%
	TRACTORS	11,25%
	MEDIUM TRUCKS	11.25%
	STORES EQUIPMENT	4.00%
	TOOLS, SHOP & GARAGE EQUIPMENT	4.00%
	LABORATORY EQUIPMENT	3.30%
	POWER OPERATED EQUIPMENT	4.45%
	COMMUNICATIONS EQUIPMENT	3.70%
390	MISCELLANEOUS EQUIPMENT	4.00%
GENERAL PLANT -		
	STRUCTURES & IMPROVEMENTS	2.22%
	OFFICE FURNITURE & EQUIPMENT	5.00%
	COMPUTER EQUIPMENT - HARDWARE	12.50%
	COMPUTER EQUIPMENT - SOFTWARE	11.11%
	AUTOS	12.50%
	LIGHT TRUCKS	12.50%
	HEAVY TRUCKS TRACTORS	12.50%
	MEDIUM TRUCKS	12.50%
	STORES EQUIPMENT	12.50%
	TOOLS, SHOP & GARAGE EQUIPMENT	4.00% 4.00%
	LABORATORY EQUIPMENT	3.30%
	POWER OPERATED EQUIPMENT	3.30% 4.45%
	COMMUNICATIONS EQUIPMENT	3.70%
	MISCELLANEOUS EQUIPMENT	4.00%
		110070

Staff Proposed In-Service Criteria for NOx Control Equipment Jeffery Energy Center Unit 1

1. All major construction work for Unit 1 is complete.

Based on personal observations of the facility on May 19, 2015, all major construction work is complete. (Note: Site Finishing Contract awarded in May 2015)

2. All preoperational tests for Unit 1 have been successfully completed.

Based on review of the Project's turnover packages, preoperational tests have been successfully completed. Turnover packages were reviewed on site and the signed certification pages were provided in response to Staff Data Request 0022.

3. Equipment successfully meets the operational contract guarantees necessary to achieve the emission levels in items (4) and (5) below.

Applicable operational contract guarantees have been satisfied.

4. Unit 1 shall demonstrate its ability to operate at or above 93% of its nominal gross output of 800 MW (720 MW – 800 MW) with emissions that contain on average 0.044 lb/mmBTU or less as measured by the continuous emission monitoring systems (CEMS) over a continuous four (4) hour period.

Based on data obtained from 3:00 PM, March 17, 2015 through, 7:00 PM March 17, 2015, the facility met an emissions limit below 0.044 lb/MMBTu as measured by the CEMS while the Unit operated at or above 93% of its nominal gross output.

5. Unit 1 shall demonstrate its ability to operate at or above 80% of its nominal gross output of 800 MW (640 MW – 800 MW) with emissions that contain on average 0.046 lb/mmBTU or less as measured by the CEMS over a continuous 120-hour period. Successful completion of items (4) and (5) may, but are not required to, occur concurrently.

Based on data obtained from 8:00 AM, March 16, 2015 through, 8:00 AM March 21, 2015, the facility met an emissions limit below 0.046 lb/MMBTu as measured by the CEMS while the Unit operated at or above 80% of its nominal gross output. Note: There were a few hours in which the load was reported less than 640 MW, however, fluctuations of approximately 5 MW are normal for the Unit. See response to Staff Data Request 0023 in EO-2014-0043 for additional explanation.

6. CEMS are operational and demonstrate the capability of monitoring the NOx emissions to satisfy the parameters in items (4) and (5) above.

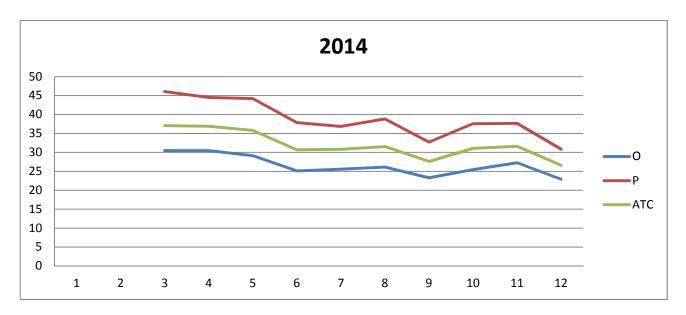
The CEMS are operational and were used to monitor the NOx emissions for the parameters in (4) and (5).

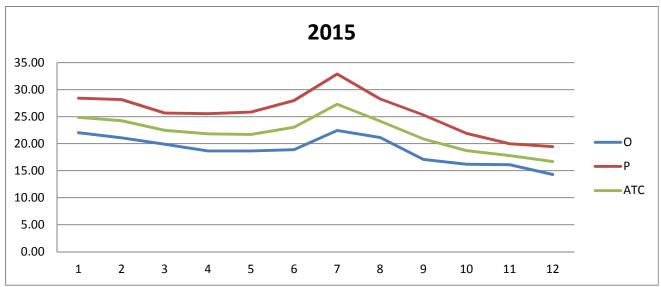
GMO ER-2016-0156 Market Price Analysis

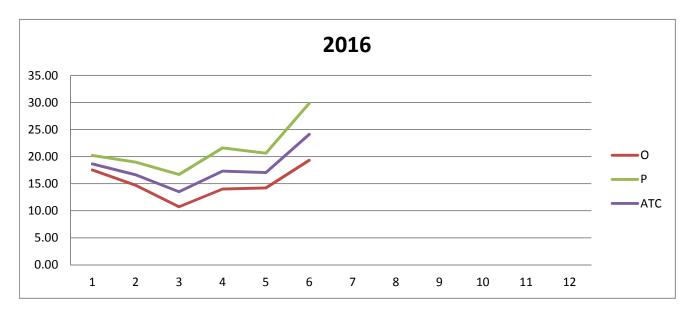
SPP Actual 2014	0	P	ATC	Company Month	0	Р	ATC
1	J	Г	AIC	1	23.57	25.03	24.54
2				2	23.78	24.65	24.34
3	30.46	46.04	37.07	3	23.78	24.63	24.30
4	30.48	44.50	36.91	4	22.93	24.03	23.71
5	29.12	44.21	35.81	5	23.05	24.10	24.06
6	25.12 25.10	37.85	30.68	6	19.55	24.37	23.13
7	25.10 25.59	36.85	30.81	7	22.11	24.93 27.10	25.13 25.43
8	25.59 26.13	38.84	31.51	8	22.11	28.96	25.43 26.58
	23.29		27.62	9			
9		32.73			22.86	25.83	24.84
10	25.44	37.56	31.06	10	22.45	24.05	23.52
11	27.27	37.65	31.60	11	21.24	22.33	21.97
12	22.91	30.87	26.60	12	23.07	24.11	23.76
2015	0	P 20.41	ATC	Average	22.43	25.03	24.17
1	22.04	28.41	24.86		SPP Three `	_	
2	21.09	28.15	24.24	4	0	P	ATC
3	19.89	25.68	22.46	1	19.78	24.31	21.76
4	18.66	25.54	21.81	2	17.89	23.55	20.43
5	18.64	25.85	21.69	3	20.36	29.47	24.34
6	18.88	27.96	23.04	4	21.04	30.54	25.35
7	22.43	32.90	27.29	5	20.65	30.22	24.85
8	21.14	28.27	24.16	6	21.10	31.88	25.94
9	17.10	25.32	20.87	7	24.01	34.87	29.05
10	16.18	21.91	18.72	8	23.63	33.55	27.83
11	16.11	20.00	17.81	9	20.19	29.03	24.24
12	14.29	19.45	16.69	10	20.81	29.74	24.89
2016	0	Р	ATC	11	21.69	28.82	24.70
1	17.51	20.21	18.65	12	18.60	25.16	21.64
2	14.69	18.95	16.62				
3	10.73	16.68	13.49				
4	13.99	21.60	17.32				
5	14.20	20.61	17.04				
6	19.34	29.83	24.10				
7							
8							
9							
10							
11							
12							
2014	26.61	38.64	31.97				
2015	18.88	25.78	21.96				
2016	14.90	20.89	17.57				
Grand Tota	20.86	29.42	24.68				

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GMO ER-2016-0156 Market Price Analysis

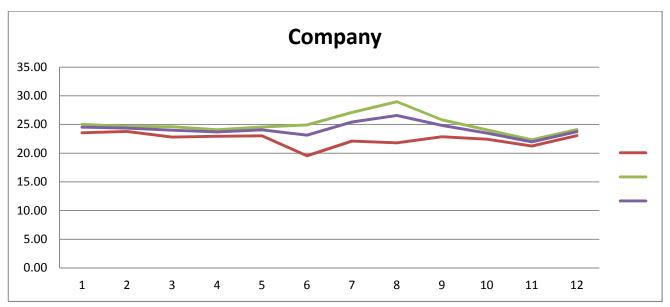


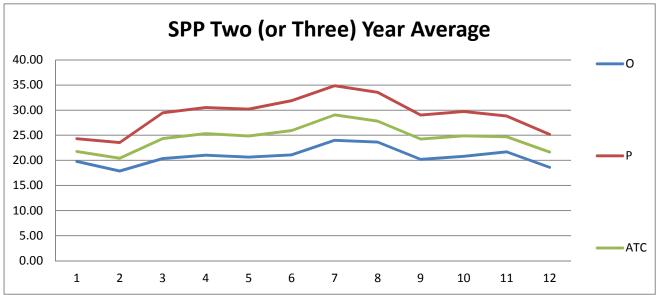


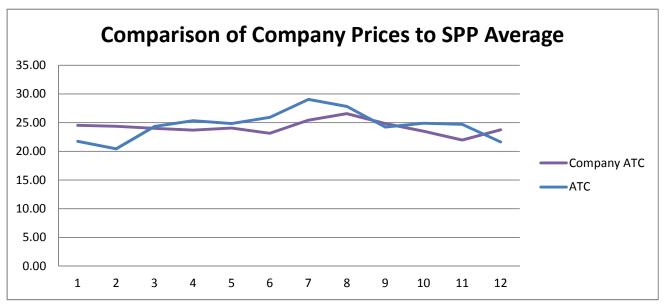


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GMO ER-2016-0156 Market Price Analysis







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