

DECEMBER 31, 2005 RESERVE VARIANCE BASED ON APPROVED DEPRECIATION RATES

Depreciable Account	Original Cost at 12/31/05	Book Reserve at 12/31/05	Theoretical Reserve at 12/31/05	Reserve Variance	Source from Case No. ER- 2007-0002
Steam Production Plant					
<i>Meramec Steam Production Plant</i>					
311 Structures & Improvements	36,285,697	25,263,302	8,394,417	(16,868,885)	SCH JLM-3
312 Boiler Plant Equipment	403,333,321	106,475,863	69,353,208	(37,122,655)	SCH JLM-3
314 Turbogenerator Units	81,963,286	48,578,106	17,419,607	(31,158,499)	SCH JLM-3
315 Accessory Electrical Equipment	36,268,698	20,649,350	6,346,626	(14,302,724)	SCH JLM-3
316 Miscellaneous Power Plant Equipment	13,521,142	4,171,242	1,217,186	(2,954,056)	SCH JLM-3
<i>Total Meramec Steam Production Plant</i>	<u>571,372,144</u>	<u>205,137,863</u>	<u>102,731,044</u>	<u>(102,406,819)</u>	
<i>Sioux Steam Production Plant</i>					
311 Structures & Improvements	25,194,894	14,050,331	4,733,268	(9,317,063)	SCH JLM-3
312 Boiler Plant Equipment	325,939,982	102,713,609	64,137,771	(38,575,838)	SCH JLM-3
314 Turbogenerator Units	89,835,326	28,261,696	12,190,819	(16,070,877)	SCH JLM-3
315 Accessory Electrical Equipment	34,600,610	11,833,776	4,083,579	(7,750,197)	SCH JLM-3
316 Miscellaneous Power Plant Equipment	7,713,733	2,339,741	808,867	(1,530,874)	SCH JLM-3
<i>Total Sioux Steam Production Plant</i>	<u>483,284,545</u>	<u>159,199,153</u>	<u>85,954,304</u>	<u>(73,244,849)</u>	
<i>Labadie Steam Production Plant</i>					
311 Structures & Improvements	61,791,585	34,038,755	11,381,888	(22,656,867)	SCH JLM-3
312 Boiler Plant Equipment	556,070,480	301,066,755	151,323,766	(149,742,989)	SCH JLM-3
312 Boiler Plant Equipment-Aluminum Coal Cars	121,206,826	38,100,712	47,259,725	9,159,013	SCH JLM-3
314 Turbogenerator Units	183,529,904	67,328,387	31,720,942	(35,607,445)	SCH JLM-3
315 Accessory Electrical Equipment	72,780,646	38,251,100	12,910,881	(25,340,219)	SCH JLM-3
316 Miscellaneous Power Plant Equipment	16,724,383	7,341,846	1,941,374	(5,400,472)	SCH JLM-3
<i>Total Labadie Steam Production Plant</i>	<u>1,012,103,823</u>	<u>486,127,555</u>	<u>256,538,576</u>	<u>(229,588,979)</u>	
<i>Rush Island Steam Production Plant</i>					
311 Structures & Improvements	52,312,785	31,645,884	10,041,911	(21,603,973)	SCH JLM-3
312 Boiler Plant Equipment	353,903,249	196,980,361	93,006,339	(103,974,022)	SCH JLM-3
314 Turbogenerator Units	136,041,231	53,484,413	24,219,734	(29,264,679)	SCH JLM-3
315 Accessory Electrical Equipment	32,922,076	16,492,597	5,322,043	(11,170,554)	SCH JLM-3
316 Miscellaneous Power Plant Equipment	10,112,325	4,266,116	1,057,750	(3,208,366)	SCH JLM-3
<i>Total Rush Island Steam Production Plant</i>	<u>585,291,666</u>	<u>302,869,371</u>	<u>133,647,777</u>	<u>(169,221,594)</u>	
<i>Common</i>					
311 Structures & Improvements	1,959,206	219,563	75,488	(144,075)	SCH JLM-3
312 Boiler Plant Equipment	37,071,156	4,537,148	2,992,835	(1,544,313)	SCH JLM-3
315 Accessory Electrical Equipment	3,129,975	342,692	125,433	(217,259)	SCH JLM-3
316 Miscellaneous Power Plant Equipment	20,843	2,438	674	(1,764)	SCH JLM-3
<i>Total Common</i>	<u>42,181,179</u>	<u>5,101,841</u>	<u>3,194,430</u>	<u>(1,907,411)</u>	
Total Steam Production Plant	2,694,233,356	1,158,435,783	582,066,131	(576,369,652)	
Nuclear Production Plant					
<i>Callaway Nuclear Production Plant</i>					
321 Structures & Improvements	892,849,632	440,030,469	291,000,765	(149,029,704)	SCH JLM-3
322 Reactor Plant Equipment	957,396,835	284,736,650	289,725,841	4,989,191	calculated
323 Turbogenerator Units	498,999,736	185,853,221	142,815,618	(43,037,603)	SCH JLM-3
324 Accessory Electrical Equipment	210,733,334	108,252,859	71,730,417	(36,522,442)	SCH JLM-3
325 Miscellaneous Power Plant Equipment	164,519,297	32,314,189	36,449,694	4,135,505	SCH JLM-3
<i>Total Nuclear Production Plant</i>	<u>2,724,498,833</u>	<u>1,051,187,388</u>	<u>831,722,335</u>	<u>(219,465,053)</u>	

OPC Exhibit No. 421
 Case No(s). ER-2008-0318
 Date 11-24-08 Rptr KF

DECEMBER 31, 2005 RESERVE VARIANCE BASED ON APPROVED DEPRECIATION RATES

Depreciable Account	Original Cost at 12/31/05	Book Reserve at 12/31/05	Theoretical Reserve at 12/31/05	Reserve Variance	Source from Case No. ER- 2007-0002
Hydraulic Production Plant					
<i>Osage Hydraulic Production Plant</i>					
331 Structures & Improvements	3,750,644	1,323,513	1,252,090	(71,423)	SCH JLM-3
332 Reservoirs, Dams, & Waterways	25,597,635	13,601,792	6,841,613	(6,760,179)	SCH JLM-3
333 Water Wheels, Turbines, & Generators	19,301,223	6,980,750	8,133,720	1,152,970	SCH JLM-3
334 Accessory Electrical Equipment	4,112,456	1,373,647	1,059,095	(314,552)	SCH JLM-3
335 Miscellaneous Power Plant Equipment	1,699,727	364,885	201,228	(163,657)	SCH JLM-3
336 Roads, Railroads, & Bridges	77,445	115,104	63,923	(51,181)	SCH JLM-3
Total Osage Hydraulic Production Plant	54,539,128	23,759,691	17,551,669	(6,208,022)	
<i>Keokuk Hydraulic Production Plant</i>					
331 Structures & Improvements	3,791,127	1,354,660	1,099,249	(255,411)	SCH JLM-3
332 Reservoirs, Dams, & Waterways	12,170,523	5,716,963	2,919,957	(2,797,006)	SCH JLM-3
333 Water Wheels, Turbines, & Generators	58,830,125	5,533,101	10,394,544	4,861,443	SCH JLM-3
334 Accessory Electrical Equipment	9,161,004	788,470	1,211,779	423,309	SCH JLM-3
335 Miscellaneous Power Plant Equipment	2,630,627	660,867	284,061	(376,806)	SCH JLM-3
336 Roads, Railroads, & Bridges	114,926	54,102	50,972	(3,130)	SCH JLM-3
Total Keokuk Hydraulic Production Plant	86,698,332	14,108,163	15,960,562	1,852,399	
<i>Taum Sauk Hydraulic Production Plant</i>					
331 Structures & Improvements	5,468,208	1,645,912	1,518,917	(126,995)	SCH JLM-3
332 Reservoirs, Dams, & Waterways	27,594,082	9,785,917	4,972,983	(4,812,934)	SCH JLM-3
333 Water Wheels, Turbines, & Generators	37,277,699	7,479,328	12,424,960	4,945,632	SCH JLM-3
334 Accessory Electrical Equipment	4,106,261	1,129,100	879,083	(250,017)	SCH JLM-3
335 Miscellaneous Power Plant Equipment	1,620,780	509,509	146,641	(362,868)	SCH JLM-3
336 Roads, Railroads, & Bridges	45,570	56,387	28,093	(28,294)	SCH JLM-3
Total Taum Sauk Hydraulic Production Plant	76,112,599	20,606,153	19,970,677	(635,476)	
Total Hydraulic Production Plant	217,350,059	58,474,007	53,482,908	(4,991,099)	
Other Production Plant					
341 Structures & Improvements	15,310,060	5,265,826	3,047,989	(2,217,837)	calculated
342 Fuel Holders, Producers, & Accessories	12,123,101	3,014,438	2,393,319	(621,119)	calculated
344 Generators	583,555,235	109,426,490	75,240,544	(34,185,946)	calculated
345 Accessory Electrical Equipment	26,830,796	7,644,957	5,954,320	(1,690,637)	calculated
346 Miscellaneous Power Plant Equipment	5,376,474	959,166	710,063	(249,103)	calculated
Total Other Production Plant	643,195,666	126,310,877	87,346,235	(38,964,642)	
Total Production Plant	6,279,277,914	2,394,408,055	1,554,617,610	(839,790,445)	
Transmission Plant					
352 Structures & Improvements	6,219,705	2,050,542	2,130,385	79,843	EXH JFW-1
353 Station Equipment	178,211,332	57,763,437	47,646,322	(10,117,115)	EXH JFW-1
354 Towers & Fixtures	68,198,477	41,274,010	34,993,543	(6,280,467)	EXH JFW-1
355 Poles & Fixtures	103,511,061	42,267,580	54,341,351	12,073,771	EXH JFW-1
356 Overhead Conductor & Devices	112,346,062	43,131,874	59,674,339	16,542,465	EXH JFW-1
359 Roads & Trails	71,789	76,265	71,789	(4,476)	SCH JLM-3
Total Transmission Plant	468,558,427	186,563,708	198,857,729	12,294,021	

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Depreciable Account	Original Cost at 12/31/05	Book Reserve at 12/31/05	Theoretical Reserve at 12/31/05	Reserve Variance	Source from Case No. ER- 2007-0002
Distribution Plant					
361 Structures & Improvements	15,759,383	4,953,060	4,928,091	(24,969)	EXH JFW-1
362 Station Equipment	513,217,383	159,407,965	158,604,372	(803,593)	EXH JFW-1
364 Poles & Fixtures	653,216,782	520,097,324	517,475,456	(2,621,868)	EXH JFW-1
365 Overhead Conductor & Devices	712,573,522	254,733,135	253,448,997	(1,284,138)	EXH JFW-1
366 Underground Conduit	164,964,341	57,721,787	57,430,805	(290,982)	EXH JFW-1
367 Underground Conductor & Devices	447,520,715	134,015,952	133,340,363	(675,589)	EXH JFW-1
368 Line Transformers	346,481,166	107,491,678	120,822,423	13,330,745	SCH JLM-3
369.1 Overhead Services	123,917,172	145,720,361	144,985,769	(734,592)	EXH JFW-1
369.2 Underground Services	118,053,966	73,486,852	73,116,397	(370,455)	EXH JFW-1
370 Meters	102,314,800	33,417,869	33,249,406	(168,463)	EXH JFW-1
371 Installation on Customers' Premises	164,854	120,584	119,976	(608)	EXH JFW-1
373 Street Lighting & Signal Systems	100,172,902	42,562,921	42,348,357	(214,564)	EXH JFW-1
Total Distribution Plant	3,298,356,987	1,533,729,488	1,539,870,412	6,140,924	
General Plant					
390 Structures & Improvements	164,206,365	46,077,375	45,845,094	(232,281)	EXH JFW-1
391 Office Furniture & Equipment	39,127,356	24,084,713	23,963,299	(121,414)	EXH JFW-1
391.1 Mainframe Computers	422,014	422,014	422,014	0	EXH JFW-1
391.2 Personal Computers	1,310,098	584,257	581,312	(2,945)	EXH JFW-1
392 Transportation Equipment	84,159,804	30,127,187	29,975,313	(151,874)	EXH JFW-1
393 Stores Equipment	2,065,007	1,324,092	1,317,417	(6,675)	EXH JFW-1
394 Tools, Shop, & Garage Equipment	10,524,040	5,996,285	5,966,057	(30,228)	EXH JFW-1
395 Laboratory Equipment	6,819,984	3,347,588	3,330,712	(16,876)	EXH JFW-1
396 Power Operated Equipment	10,465,818	4,232,262	4,210,927	(21,335)	EXH JFW-1
397 Communications Equipment	127,014,326	94,611,692	94,134,744	(476,948)	EXH JFW-1
398 Miscellaneous Equipment	637,305	279,472	278,063	(1,409)	EXH JFW-1
Total General Plant	446,752,116	211,086,937	210,024,952	(1,061,985)	
Total Depreciable Electric Plant	10,492,945,444	4,325,788,188	3,503,370,703	(822,417,485)	
Total Excluding Nuclear & Steam Production	5,074,213,255	2,116,165,017	2,089,582,236	(26,582,781)	

Source:

May 22, 2007 "Report and Order" in Case No. ER-2007-0002; June 28, 2007 "Order Denying Applications for Rehearing, Granting Clarification, and Correcting Order Nunc Pro Tunc" in Case No. ER-2007-0002; March 19, 2007 ; "Nonunanimous Stipulation and Agreement Regarding Certain Depreciation Issues" in Case No. ER-2007-0002; Exhibit JFW-1 in Case No. ER-2007-0002 pages III-4 thru III-18; Schedule JLM-2 and Schedule JLM-3 in Case No. ER-2007-0002.