Nebraska Public Power District
Always there when you need us
GERALD GENTLEMAN STATION UNITS 1&2

Sargent & Lundy

December 8, 2011
Project No. 12681-006
Rev. 1

NPPD Gerald Gentleman WFGD and SCR Cash Flows

Sargent & Lundy (S&L) was requested by NPPD to prepare cash flows for four different project scenarios. The scenarios are:

1. A WFGD only project with 2015 and 2016 fall outages for Units 1 & 2.
2. A WFGD and SCR project with 2015 and 2016 fall outages for Units 1 & 2.
3. A WFGD only project with 2016 and 2017 spring outages for Units 1 & 2.
4. A WFGD and SCR project with 2016 and 2017 spring outages for Units 1 & 2.

The September 8, 2011 WFGD cost estimate and the April 7, 2009 SCR cost estimate, both prepared by S&L, were used for the preparation of the cash flows. The following is a summary of the basis for each cash flow

- The latest WFGD project implementation schedule, issued by S&L on August 31, 2011, served as the basis for the scenario 1 cash flow. No adjustments were necessary to the WFGD cost estimate.
- The SCR cost estimate required adjustments as there is overlapping scope with the WFGD cost estimate. The overlapping scope includes the ID fans and motors, transformers, 7.2 kV switchgear, electrical buildings, raceway, cabling, and DCS I/O. These items were subtracted from the SCR estimate.
- After the subtractions were made to the SCR estimate, the pricing was escalated from 2009 dollars to today's dollars. An escalation rate of 4% was used for material, equipment and labor costs, which is consistent with the escalation rate used in the WFGD cost estimate.
- The SCR-WFGD project implementation schedule, last prepared by S&L on December 15, 2009, was utilized in the preparation of the scenario 2 cash flow. The SCR portion of the schedule was combined with the latest WFGD project implementation schedule.
- Scenarios 3 and 4, with 2016/2017 spring outages, used the same project start date as scenarios 1 and 2, but stretched out many of the activities to meet the later outage dates. It is assumed that engineering and procurement efforts would still begin early in the project, allowing for the design to be more defined prior to award of the general work contracts. The SCR related work for both units, including erection, is assumed to occur during the 2013 and 2014 timeframe.

Attached are the cash flows charts and graphs for each scenario.

Nebraska Public Power District
Always there when you need us
GERALD GENTLEMAN STATION UNITS 1&2

Sargent & Lundy

December 8, 2011
Project No. 12681-006
Rev. 1

SCENARIO 1
WFGD ONLY – 2015, 2016 FALL OUTAGES

PROJECT NO. : 12681-006
ISSUE DATE : 12/02/2011
PREP/REV : AT
APPROVED : MON

SARGENT & LUNDY

NPPD
GERALD GENTLEMAN STATION UNIT 1&2 (Case 1)
WET FGD
CASH FLOW REPORT

PRICE LEVEL 2011

CASH FLOW BY MONTH

		JAN-2011	FEB-2011	MAR-2011	APR-2011	MAY-2011	JUN-2011	JUL-2011	AUG-2011	SEP-2011	OCT-2011	NOV-2011	DEC-2011
TOTAL CONSTRUCTION COST	M	0	0	0	0	0	0	122,079	361,330	593,218	817,746	1,034,912	1,244,716
TOTAL CONSTRUCTION COST	C	0	0	0	0	0	0	122,079	483,409	1,076,627	1,894,373	2,929,284	4,174,000
INTEREST DURING CONSTRUCTION	M	0	0	0	0	0	0	509	2,018	4,500	7,929	12,277	17,519
INTEREST DURING CONSTRUCTION	C	0	0	0	0	0	0	509	2,527	7,027	14,956	27,233	44,753
TOTAL	M	0	0	0	0	0	0	122,588	363,347	597,719	825,675	1,047,189	1,262,235
TOTAL	C	0	0	0	0	0	0	122,588	485,936	1,083,654	1,909,329	2,956,518	4,218,753

		JAN-2012	FEB-2012	MAR-2012	APR-2012	MAY-2012	JUN-2012	JUL-2012	AUG-2012	SEP-2012	OCT-2012	NOV-2012	DEC-2012
TOTAL CONSTRUCTION COST	M	1,505,045	1,707,929	1,903,158	2,109,422	2,397,793	2,778,901	3,236,000	3,764,599	4,352,471	4,989,654	5,666,457	6,373,472
TOTAL CONSTRUCTION COST	C	5,679,045	7,386,975	9,290,132	11,399,554	13,797,347	16,574,248	19,810,248	23,574,847	27,927,318	32,916,972	38,583,429	44,956,901
INTEREST DURING CONSTRUCTION	M	23,868	31,090	39,156	48,115	58,315	70,137	83,924	99,972	119,539	139,840	164,053	191,314
INTEREST DURING CONSTRUCTION	C	68,621	99,711	138,866	186,981	245,296	315,434	399,358	499,330	617,869	757,710	921,762	1,113,076
TOTAL	M	1,528,913	1,739,019	1,942,313	2,157,537	2,456,107	2,847,038	3,319,924	3,864,572	4,471,010	5,129,494	5,830,510	6,564,786
TOTAL	C	5,747,666	7,486,685	9,428,998	11,586,536	14,042,643	16,889,682	20,209,605	24,074,177	28,545,187	33,674,681	39,505,191	46,069,977

		JAN-2013	FEB-2013	MAR-2013	APR-2013	MAY-2013	JUN-2013	JUL-2013	AUG-2013	SEP-2013	OCT-2013	NOV-2013	DEC-2013
TOTAL CONSTRUCTION COST	M	7,365,636	8,155,605	8,929,444	9,717,698	10,587,615	11,546,130	12,585,284	13,699,035	14,881,561	16,125,858	17,422,793	18,760,525
TOTAL CONSTRUCTION COST	C	52,342,538	60,498,143	69,427,587	79,145,484	89,733,100	101,279,229	113,864,513	127,563,549	142,445,110	158,570,968	175,993,762	194,754,287
INTEREST DURING CONSTRUCTION	M	222,910	257,848	296,159	337,918	383,477	433,224	487,511	546,669	611,005	680,797	756,289	837,674
INTEREST DURING CONSTRUCTION	C	1,335,986	1,593,834	1,889,994	2,227,912	2,611,389	3,044,613	3,532,124	4,078,793	4,689,798	5,370,595	6,126,884	6,964,559
TOTAL	M	7,608,546	8,413,454	9,225,603	10,055,616	10,971,093	11,979,354	13,072,795	14,245,704	15,492,566	16,806,656	18,179,083	19,598,200
TOTAL	C	53,678,524	62,091,977	71,317,580	81,373,396	92,344,489	104,323,842	117,396,637	131,642,342	147,134,907	163,941,563	182,120,646	201,718,846

		JAN-2014	FEB-2014	MAR-2014	APR-2014	MAY-2014	JUN-2014	JUL-2014	AUG-2014	SEP-2014	OCT-2014	NOV-2014	DEC-2014
TOTAL CONSTRUCTION COST	M	20,929,232	22,356,136	23,770,451	25,148,640	26,465,421	27,694,471	28,809,171	29,783,406	30,592,349	31,213,233	31,626,075	31,814,330
TOTAL CONSTRUCTION COST	C	215,683,519	238,039,655	261,810,106	286,958,746	313,424,167	341,118,638	369,927,809	399,711,215	430,303,563	461,516,797	493,142,872	524,957,202
INTEREST DURING CONSTRUCTION	M	928,442	1,025,539	1,128,938	1,238,516	1,354,041	1,475,174	1,601,459	1,732,334	1,867,128	2,005,073	2,145,315	2,286,927
INTEREST DURING CONSTRUCTION	C	7,893,001	8,918,541	10,047,479	11,285,995	12,640,036	14,115,210	15,716,669	17,449,004	19,316,132	21,321,205	23,466,520	25,753,447
TOTAL	M	21,857,675	23,381,675	24,899,389	26,387,156	27,819,463	29,169,644	30,410,631	31,515,740	32,459,477	33,218,307	33,771,390	34,101,257
TOTAL	C	223,576,521	246,958,196	271,857,585	298,244,741	326,064,203	355,233,848	385,644,478	417,160,218	449,619,695	482,838,002	516,609,392	550,710,649

		JAN-2015	FEB-2015	MAR-2015	APR-2015	MAY-2015	JUN-2015	JUL-2015	AUG-2015	SEP-2015	OCT-2015	NOV-2015	DEC-2015
TOTAL CONSTRUCTION COST	M	33,036,093	32,730,364	32,166,510	31,346,764	30,279,146	28,977,486	27,461,824	25,758,595	23,901,209	21,931,179	19,900,733	17,879,668
TOTAL CONSTRUCTION COST	C	557,993,295	590,723,659	622,890,169	654,236,963	684,516,099	713,493,587	740,955,411	766,714,006	790,615,215	812,546,394	832,447,127	850,326,795
INTEREST DURING CONSTRUCTION	M	2,434,224	2,580,860	2,725,757	2,867,639	3,006,062	3,139,434	3,267,041	3,388,078	3,501,874	3,607,930	3,705,961	3,795,973
INTEREST DURING CONSTRUCTION	C	28,187,671	30,768,531	33,494,288	36,362,126	39,368,190	42,507,623	45,774,664	49,162,742	52,664,616	56,272,546	59,978,507	63,774,480
TOTAL	M	35,470,317	35,311,224	34,892,267	34,214,623	33,285,209	32,116,921	30,728,864	29,146,673	27,403,083	25,539,109	23,606,694	21,675,641
TOTAL	C	586,180,966	621,492,191	656,384,457	690,599,081	723,884,289	756,001,210	786,730,075	815,876,748	843,279,831	868,818,940	892,425,634	914,101,275

PROJECT NO. : 12681-006
ISSUE DATE : 12/02/2011
PREP/REV : AT
APPROVED :MON

SARGENT & LUNDY

NPPD
GERALD GENTLEMAN STATION UNIT 1&2 (Case 1)
WET FGD
CASH FLOW REPORT

PRICE LEVEL 2011

CASH FLOW BY MONTH

		JAN-2016	FEB-2016	MAR-2016	APR-2016	MAY-2016	JUN-2016	JUL-2016	AUG-2016	SEP-2016	OCT-2016	NOV-2016	DEC-2016
TOTAL CONSTRUCTION COST	M	16,621,927	15,027,750	13,570,159	12,090,521	10,605,270	9,128,980	7,674,563	6,253,919	4,879,266	3,565,535	2,334,779	1,225,494
TOTAL CONSTRUCTION COST	C	866,948,722	881,976,472	895,546,631	907,637,153	918,242,423	927,371,403	935,045,966	941,299,885	946,179,150	949,744,685	952,079,464	953,304,958
INTEREST DURING CONSTRUCTION	M	3,881,116	3,959,966	4,033,066	4,100,302	4,161,624	4,217,046	4,266,634	4,310,504	4,348,826	4,381,829	4,409,837	4,433,336
INTEREST DURING CONSTRUCTION	C	67,655,596	71,615,562	75,648,628	79,748,930	83,910,554	88,127,599	92,394,233	96,704,738	101,053,563	105,435,392	109,845,229	114,278,565
TOTAL	M	20,503,043	18,987,716	17,603,226	16,190,823	14,766,894	13,346,026	11,941,197	10,564,423	9,228,091	7,947,364	6,744,616	5,658,830
TOTAL	C	934,604,318	953,592,034	971,195,259	987,386,082	1,002,152,976	1,015,499,002	1,027,440,199	1,038,004,622	1,047,232,714	1,055,180,077	1,061,924,693	1,067,583,523

		JAN-2017	FEB-2017	MAR-2017	APR-2017	MAY-2017	JUN-2017	JUL-2017	AUG-2017	SEP-2017	OCT-2017	NOV-2017	DEC-2017
TOTAL CONSTRUCTION COST	M	338,468											
TOTAL CONSTRUCTION COST	C	953,641,427											
INTEREST DURING CONSTRUCTION	M	4,453,226											
INTEREST DURING CONSTRUCTION	C	118,731,792											
TOTAL	M	4,789,695											
TOTAL	C	1,072,373,218											

PROJECT NO. : 12681-006
ISSUE DATE : 12/02/2011
PREP/REV : AT
APPROVED :MON

SARGENT & LUNDY

NPPD
GERALD GENTLEMAN STATION UNIT 1&2 (Case 1)
WET FGD
CASH FLOW REPORT

PRICE LEVEL 2011

CASH FLOW BY YEAR

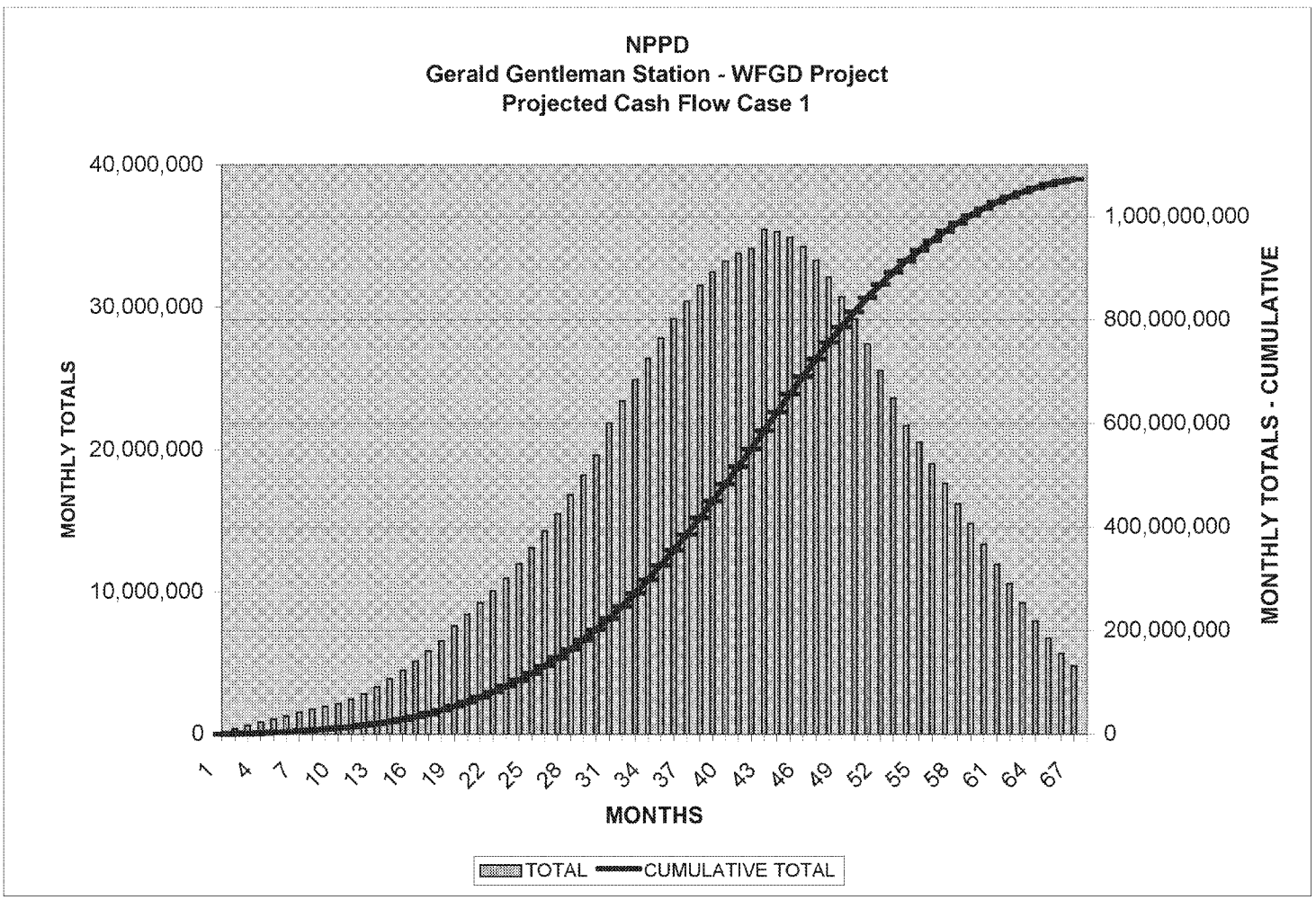
		2011	2012	2013	2014	2015	2016	2017			
TOTAL CONSTRUCTION COST	A	4,174,000	40,782,901	149,797,386	330,202,915	325,369,593	102,978,163	336,468			
TOTAL CONSTRUCTION COST	C	4,174,000	44,956,901	194,754,287	524,957,202	850,326,795	953,304,958	953,641,427			
INTEREST DURING CONSTRUCTION	A	44,753	1,068,324	5,851,483	18,788,888	38,021,033	50,504,085	4,453,226			
INTEREST DURING CONSTRUCTION	C	44,753	1,113,076	6,964,559	25,753,447	63,774,480	114,278,565	118,731,792			
TOTAL	A	4,218,753	41,851,224	155,648,869	348,991,803	363,390,626	153,482,249	4,789,695			
TOTAL	C	4,218,753	46,069,977	201,718,846	550,710,649	914,101,275	1,067,583,523	1,072,373,218			

LEGEND:

M - MONTHLY

C - CUMULATIVE

A - ANNUAL



Sargent Lundy

NPPDRH114_0006545

Nebraska Public Power District
Always there when you need us
GERALD GENTLEMAN STATION UNITS 1&2

Sargent & Lundy

December 8, 2011
Project No. 12681-006
Rev. 1

SCENARIO 2
WFGD & SCR – 2015, 2016 FALL OUTAGES

PROJECT NO. : 12681-006
ISSUE DATE : 12/02/2011
PREP/REV : AT
APPROVED : MON

SARGENT & LUNDY

NPPD
GERALD GENTLEMAN STATION UNIT 1&2 (Case 2)
WET FGD & SCR
CASH FLOW REPORT

PRICE LEVEL 2011

CASH FLOW BY MONTH

		JAN-2011	FEB-2011	MAR-2011	APR-2011	MAY-2011	JUN-2011	JUL-2011	AUG-2011	SEP-2011	OCT-2011	NOV-2011	DEC-2011
TOTAL CONSTRUCTION COST	M	0	0	0	0	0	0	180,017	532,813	874,754	1,205,840	1,526,071	1,835,446
TOTAL CONSTRUCTION COST	C	0	0	0	0	0	0	180,017	712,830	1,587,584	2,793,424	4,319,494	6,154,940
INTEREST DURING CONSTRUCTION	M	0	0	0	0	0	0	751	2,976	6,636	11,692	18,104	25,834
INTEREST DURING CONSTRUCTION	C	0	0	0	0	0	0	751	3,726	10,362	22,054	40,158	65,992
TOTAL	M	0	0	0	0	0	0	180,767	535,789	881,390	1,217,532	1,544,175	1,861,279
TOTAL	C	0	0	0	0	0	0	180,767	716,556	1,597,946	2,815,478	4,359,652	6,220,932

		JAN-2012	FEB-2012	MAR-2012	APR-2012	MAY-2012	JUN-2012	JUL-2012	AUG-2012	SEP-2012	OCT-2012	NOV-2012	DEC-2012
TOTAL CONSTRUCTION COST	M	2,219,324	2,518,496	2,806,378	3,104,457	3,494,429	3,988,216	4,567,465	5,226,117	5,950,415	6,728,906	7,550,455	8,404,242
TOTAL CONSTRUCTION COST	C	8,374,265	10,892,760	13,699,138	16,803,595	20,298,024	24,284,241	28,851,706	34,077,824	40,028,238	46,757,145	54,307,599	62,711,841
INTEREST DURING CONSTRUCTION	M	35,196	45,845	57,739	70,925	85,792	102,773	122,248	144,550	169,966	198,735	231,049	267,058
INTEREST DURING CONSTRUCTION	C	101,188	147,032	204,771	275,696	361,488	464,261	586,508	731,059	901,025	1,099,759	1,330,808	1,597,866
TOTAL	M	2,254,520	2,564,341	2,864,116	3,175,382	3,580,222	4,088,989	4,689,713	5,370,668	6,120,381	6,927,641	7,781,503	8,671,300
TOTAL	C	8,475,452	11,039,793	13,903,909	17,079,291	20,659,512	24,748,502	29,438,214	34,808,882	40,929,263	47,856,904	55,638,408	64,309,707

		JAN-2013	FEB-2013	MAR-2013	APR-2013	MAY-2013	JUN-2013	JUL-2013	AUG-2013	SEP-2013	OCT-2013	NOV-2013	DEC-2013
TOTAL CONSTRUCTION COST	M	9,651,051	10,575,918	11,512,702	12,494,350	13,640,377	14,970,431	16,471,690	18,129,152	19,924,854	21,837,447	23,842,083	25,910,569
TOTAL CONSTRUCTION COST	C	72,362,893	82,938,811	94,451,513	106,945,862	120,586,239	135,556,670	152,028,359	170,157,512	190,082,366	211,919,813	235,761,896	261,672,464
INTEREST DURING CONSTRUCTION	M	308,416	353,804	403,287	457,071	515,857	580,435	651,542	729,858	815,988	910,453	1,013,671	1,125,945
INTEREST DURING CONSTRUCTION	C	1,906,282	2,260,086	2,663,374	3,120,444	3,636,301	4,216,736	4,868,278	5,598,135	6,414,123	7,324,576	8,338,246	9,464,191
TOTAL	M	9,959,468	10,929,722	11,915,989	12,951,420	14,156,234	15,550,865	17,123,232	18,859,010	20,740,842	22,747,899	24,855,754	27,036,513
TOTAL	C	74,269,175	85,198,898	97,114,887	110,066,307	124,222,540	139,773,406	156,896,637	175,755,647	196,496,489	219,244,388	244,100,142	271,136,655

		JAN-2014	FEB-2014	MAR-2014	APR-2014	MAY-2014	JUN-2014	JUL-2014	AUG-2014	SEP-2014	OCT-2014	NOV-2014	DEC-2014
TOTAL CONSTRUCTION COST	M	29,132,190	31,316,380	33,462,713	35,533,265	37,489,867	39,294,994	40,912,628	42,309,103	43,453,908	44,320,409	44,886,504	45,135,171
TOTAL CONSTRUCTION COST	C	290,804,654	322,121,034	355,583,747	391,117,013	428,606,879	467,901,873	508,814,501	551,123,604	594,577,512	638,897,921	683,784,426	728,919,597
INTEREST DURING CONSTRUCTION	M	1,252,121	1,387,932	1,533,259	1,687,826	1,851,197	2,022,777	2,201,818	2,387,428	2,578,586	2,774,155	2,972,900	3,173,511
INTEREST DURING CONSTRUCTION	C	10,716,312	12,104,244	13,637,503	15,325,329	17,176,526	19,199,303	21,401,121	23,788,549	26,367,135	29,141,291	32,114,191	35,287,702
TOTAL	M	30,384,311	32,704,311	34,995,972	37,221,092	39,341,064	41,317,771	43,114,445	44,696,531	46,032,494	47,094,565	47,859,405	48,308,682
TOTAL	C	301,520,966	334,225,278	369,221,250	406,442,342	445,783,406	487,101,177	530,215,622	574,912,153	620,944,647	668,039,212	715,898,616	764,207,299

		JAN-2015	FEB-2015	MAR-2015	APR-2015	MAY-2015	JUN-2015	JUL-2015	AUG-2015	SEP-2015	OCT-2015	NOV-2015	DEC-2015
TOTAL CONSTRUCTION COST	M	46,657,122	46,425,775	45,647,103	44,528,232	43,082,939	41,331,737	39,301,947	37,027,926	34,551,600	31,923,724	29,206,863	26,483,298
TOTAL CONSTRUCTION COST	C	775,776,719	822,202,494	867,849,597	912,377,829	955,460,768	996,792,504	1,036,094,452	1,073,122,378	1,107,673,977	1,139,597,701	1,168,804,564	1,195,287,862
INTEREST DURING CONSTRUCTION	M	3,362,139	3,589,836	3,795,156	3,996,664	4,192,986	4,382,824	4,564,990	4,738,432	4,902,272	5,055,836	5,198,711	5,330,825
INTEREST DURING CONSTRUCTION	C	38,669,640	42,259,678	46,054,834	50,051,496	54,244,484	58,627,308	63,192,298	67,930,730	72,833,002	77,888,838	83,087,549	88,418,375
TOTAL	M	50,239,261	50,015,613	49,442,259	48,524,896	47,275,925	45,714,561	43,866,937	41,766,358	39,453,871	36,979,560	34,405,575	31,814,123
TOTAL	C	814,446,559	864,462,172	913,904,431	962,429,327	1,009,705,252	1,055,419,813	1,099,286,750	1,141,053,108	1,180,506,979	1,217,486,539	1,251,892,114	1,283,706,237

PROJECT NO. : 12681-006
ISSUE DATE : 12/02/2011
PREP/REV : AT
APPROVED :MON

SARGENT & LUNDY

NPPD
GERALD GENTLEMAN STATION UNIT 1&2 (Case 2)
WET FGD & SCR
CASH FLOW REPORT

PRICE LEVEL 2011

CASH FLOW BY MONTH

		JAN-2016	FEB-2016	MAR-2016	APR-2016	MAY-2016	JUN-2016	JUL-2016	AUG-2016	SEP-2016	OCT-2016	NOV-2016	DEC-2016
TOTAL CONSTRUCTION COST	M	24,841,882	22,561,352	20,423,815	18,248,045	16,054,271	13,861,066	11,685,911	9,546,375	7,462,206	5,458,937	3,574,422	1,872,800
TOTAL CONSTRUCTION COST	C	1,220,129,744	1,242,691,096	1,263,114,911	1,281,362,956	1,297,417,228	1,311,278,293	1,322,964,205	1,332,510,580	1,339,972,785	1,345,431,722	1,349,006,144	1,350,878,944
INTEREST DURING CONSTRUCTION	M	5,456,646	5,573,481	5,681,889	5,781,677	5,872,733	5,955,023	6,028,586	6,093,533	6,150,061	6,198,470	6,239,223	6,273,050
INTEREST DURING CONSTRUCTION	C	93,875,021	99,448,501	105,130,391	110,912,088	116,784,801	122,739,824	128,768,410	134,861,943	141,012,004	147,210,475	153,449,698	159,722,746
TOTAL	M	30,298,527	28,134,833	26,105,704	24,029,723	21,927,004	19,816,089	17,714,497	15,639,908	13,612,267	11,657,407	9,813,645	8,145,851
TOTAL	C	1,314,004,764	1,342,139,597	1,368,245,301	1,392,275,024	1,414,202,029	1,434,018,118	1,451,732,615	1,467,372,523	1,480,984,790	1,492,642,197	1,502,455,842	1,510,601,693

		JAN-2017	FEB-2017	MAR-2017	APR-2017	MAY-2017	JUN-2017	JUL-2017	AUG-2017	SEP-2017	OCT-2017	NOV-2017	DEC-2017
TOTAL CONSTRUCTION COST	M	511,524											
TOTAL CONSTRUCTION COST	C	1,351,390,468											
INTEREST DURING CONSTRUCTION	M	6,301,342											
INTEREST DURING CONSTRUCTION	C	166,024,090											
TOTAL	M	6,812,866											
TOTAL	C	1,517,414,559											

PROJECT NO. : 12681-006
ISSUE DATE : 12/02/2011
PREP/REV : AT
APPROVED :MON

SARGENT & LUNDY

NPPD
GERALD GENTLEMAN STATION UNIT 1&2 (Case 2)
WET FGD & SCR
CASH FLOW REPORT

PRICE LEVEL 2011

CASH FLOW BY YEAR

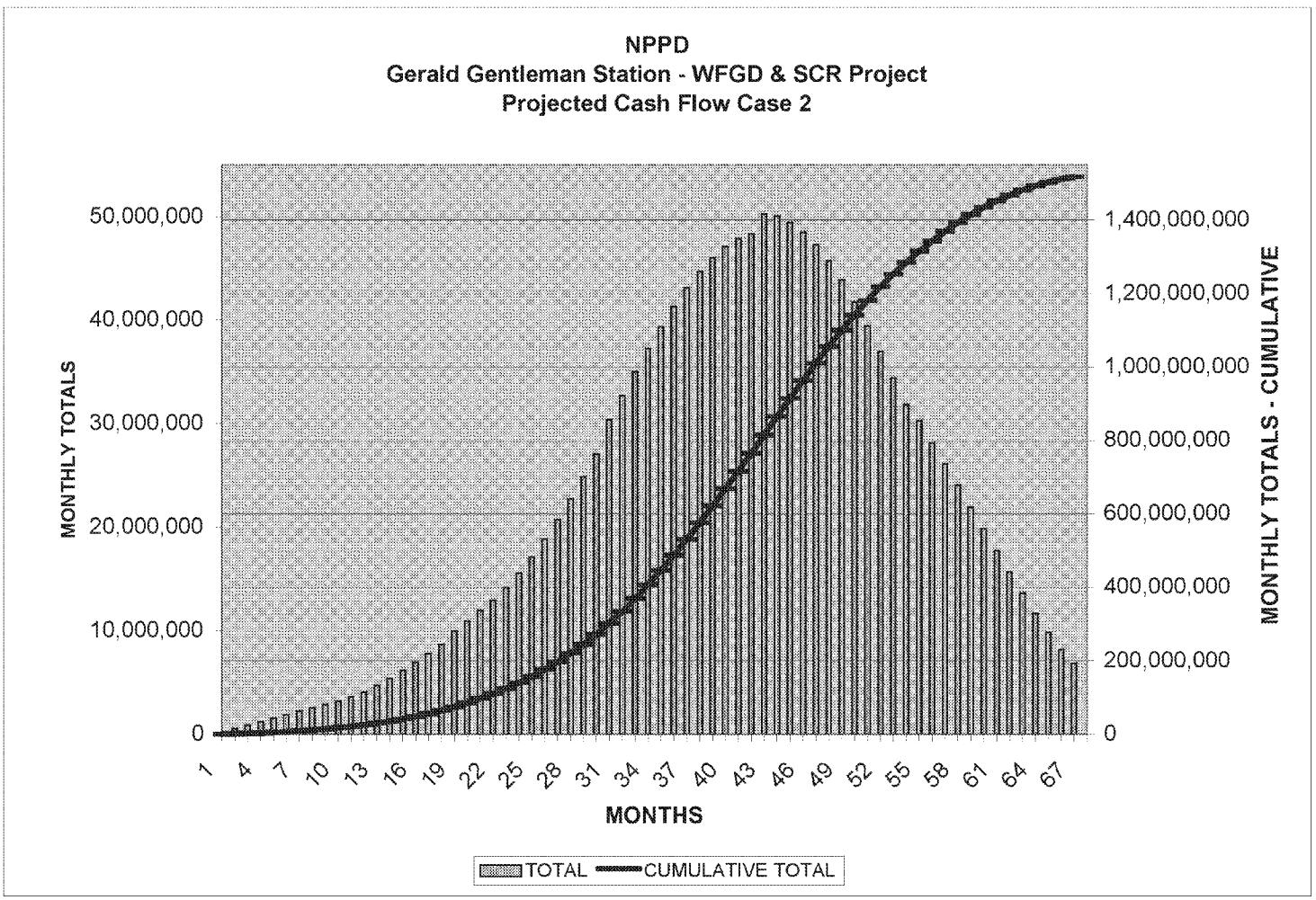
		2011	2012	2013	2014	2015	2016	2017			
TOTAL CONSTRUCTION COST	A	6,154,940	56,556,901	198,960,623	467,247,132	466,368,265	155,591,082	511,524			
TOTAL CONSTRUCTION COST	C	6,154,940	62,711,841	261,672,464	728,919,597	1,195,287,862	1,350,878,944	1,351,390,468			
INTEREST DURING CONSTRUCTION	A	65,992	1,531,874	7,866,325	25,823,511	53,130,673	71,304,373	6,301,342			
INTEREST DURING CONSTRUCTION	C	65,992	1,597,866	9,464,191	35,287,702	88,418,375	159,722,748	166,024,090			
TOTAL	A	6,220,932	58,088,776	206,826,948	493,070,643	519,498,939	226,895,456	6,812,866			
TOTAL	C	6,220,932	64,309,707	271,136,655	764,207,299	1,283,706,237	1,510,601,693	1,517,414,559			

LEGEND:

M - MONTHLY

C - CUMULATIVE

A - ANNUAL



Sargent Lundy

NPPDRH114_0006550

Nebraska Public Power District
Always there when you need us
GERALD GENTLEMAN STATION UNITS 1&2

Sargent & Lundy

December 8, 2011
Project No. 12681-006
Rev. 1

SCENARIO 3
WFGD ONLY – 2016, 2017 SPRING OUTAGES

PROJECT NO. : 12681-006
ISSUE DATE : 12/02/2011
PREP/REV : AT
APPROVED : MON

SARGENT & LUNDY

NPPD
GERALD GENTLEMAN STATION UNIT 1&2 (Case 3)
WET FGD
CASH FLOW REPORT

PRICE LEVEL 2011

CASH FLOW BY MONTH

		JAN-2011	FEB-2011	MAR-2011	APR-2011	MAY-2011	JUN-2011	JUL-2011	AUG-2011	SEP-2011	OCT-2011	NOV-2011	DEC-2011
TOTAL CONSTRUCTION COST	M	0	0	0	0	0	0	102,921	304,968	501,325	691,989	876,962	1,056,244
TOTAL CONSTRUCTION COST	C	0	0	0	0	0	0	102,921	407,889	909,214	1,601,203	2,478,165	3,534,409
INTEREST DURING CONSTRUCTION	M	0	0	0	0	0	0	429	1,703	3,800	6,702	10,387	14,834
INTEREST DURING CONSTRUCTION	C	0	0	0	0	0	0	429	2,132	5,932	12,634	23,021	37,855
TOTAL	M	0	0	0	0	0	0	103,350	306,671	505,125	698,691	887,349	1,071,078
TOTAL	C	0	0	0	0	0	0	103,350	410,021	915,146	1,613,837	2,501,186	3,572,264

		JAN-2012	FEB-2012	MAR-2012	APR-2012	MAY-2012	JUN-2012	JUL-2012	AUG-2012	SEP-2012	OCT-2012	NOV-2012	DEC-2012
TOTAL CONSTRUCTION COST	M	1,279,027	1,453,642	1,622,338	1,798,091	2,030,540	2,328,484	2,679,305	3,082,526	3,529,807	4,014,953	4,531,916	5,074,794
TOTAL CONSTRUCTION COST	C	4,813,437	6,267,079	7,889,416	9,687,507	11,718,047	14,044,531	16,723,836	19,806,362	23,336,168	27,351,122	31,883,038	36,957,831
INTEREST DURING CONSTRUCTION	M	20,230	26,376	33,251	40,868	49,526	59,434	70,854	84,004	99,073	116,229	135,612	157,339
INTEREST DURING CONSTRUCTION	C	58,085	84,461	117,712	158,600	208,125	267,559	338,413	422,417	521,490	637,719	773,330	930,669
TOTAL	M	1,299,257	1,480,018	1,655,589	1,838,978	2,080,066	2,385,917	2,750,159	3,166,529	3,628,880	4,131,182	4,667,527	5,232,133
TOTAL	C	4,871,522	6,351,540	8,007,126	9,846,107	11,926,173	14,312,090	17,062,249	20,228,779	23,857,658	27,988,840	32,656,368	37,888,501

		JAN-2013	FEB-2013	MAR-2013	APR-2013	MAY-2013	JUN-2013	JUL-2013	AUG-2013	SEP-2013	OCT-2013	NOV-2013	DEC-2013
TOTAL CONSTRUCTION COST	M	5,663,351	6,464,070	7,074,289	7,688,520	8,301,449	8,907,937	9,503,025	10,098,938	10,757,085	11,486,636	12,282,700	13,142,192
TOTAL CONSTRUCTION COST	C	42,621,183	49,285,253	56,359,542	64,048,062	72,349,511	81,257,448	90,760,473	100,859,411	111,616,496	123,103,132	135,385,832	148,528,024
INTEREST DURING CONSTRUCTION	M	182,445	210,161	240,537	273,602	309,359	347,796	388,874	432,608	479,269	529,167	582,592	639,824
INTEREST DURING CONSTRUCTION	C	1,113,115	1,323,276	1,563,813	1,837,415	2,146,774	2,494,570	2,883,443	3,316,051	3,795,320	4,324,486	4,907,078	5,546,903
TOTAL	M	6,045,796	6,674,231	7,314,826	7,962,122	8,610,809	9,255,733	9,891,898	10,531,546	11,236,353	12,015,802	12,865,292	13,782,016
TOTAL	C	43,934,297	50,608,528	57,923,355	65,885,476	74,496,285	83,752,018	93,643,916	104,175,462	115,411,816	127,427,618	140,292,910	154,074,926

		JAN-2014	FEB-2014	MAR-2014	APR-2014	MAY-2014	JUN-2014	JUL-2014	AUG-2014	SEP-2014	OCT-2014	NOV-2014	DEC-2014
TOTAL CONSTRUCTION COST	M	14,624,798	15,640,949	18,710,780	17,826,463	18,977,620	20,151,274	21,331,989	22,502,144	23,642,359	24,731,975	25,749,619	26,673,793
TOTAL CONSTRUCTION COST	C	163,152,822	178,793,771	195,504,551	213,331,014	232,308,634	252,459,909	273,791,898	296,294,041	319,936,400	344,668,375	370,417,994	397,091,787
INTEREST DURING CONSTRUCTION	M	703,478	771,634	844,536	922,394	1,005,377	1,093,600	1,187,115	1,285,899	1,389,850	1,498,778	1,612,404	1,730,357
INTEREST DURING CONSTRUCTION	C	6,250,380	7,022,015	7,866,550	8,788,944	9,794,321	10,887,921	12,075,036	13,360,935	14,750,785	16,249,563	17,861,967	19,592,324
TOTAL	M	15,328,276	16,412,583	17,555,316	18,748,857	19,982,997	21,244,875	22,519,103	23,788,043	25,032,209	26,230,753	27,362,023	28,404,150
TOTAL	C	169,403,202	185,815,785	203,371,101	222,119,959	242,102,956	263,347,830	285,866,934	309,654,976	334,687,185	360,917,938	388,279,961	416,684,110

		JAN-2015	FEB-2015	MAR-2015	APR-2015	MAY-2015	JUN-2015	JUL-2015	AUG-2015	SEP-2015	OCT-2015	NOV-2015	DEC-2015
TOTAL CONSTRUCTION COST	M	28,562,621	29,285,104	29,826,586	30,196,547	30,375,033	30,353,319	30,124,256	29,684,566	29,035,058	28,180,761	27,131,025	25,899,563
TOTAL CONSTRUCTION COST	C	425,674,608	454,959,712	484,788,300	514,984,847	545,359,880	575,713,199	605,837,454	635,522,020	664,557,078	692,737,839	719,868,864	745,768,427
INTEREST DURING CONSTRUCTION	M	1,856,763	1,986,625	2,119,294	2,254,051	2,390,114	2,526,655	2,662,809	2,797,697	2,930,440	3,060,174	3,186,071	3,307,358
INTEREST DURING CONSTRUCTION	C	21,449,067	23,435,712	25,555,006	27,809,057	30,199,171	32,725,826	35,388,635	38,186,332	41,116,772	44,176,946	47,363,017	50,670,375
TOTAL	M	30,439,584	31,271,729	31,947,883	32,450,598	32,765,148	32,879,973	32,787,064	32,482,263	31,965,498	31,240,934	30,317,097	29,206,921
TOTAL	C	447,123,695	478,395,424	510,343,306	542,793,904	575,559,051	608,439,025	641,226,089	673,708,353	705,673,850	736,914,785	767,231,881	796,438,802

PROJECT NO. : 12681-006
ISSUE DATE : 12/02/2011
PREP/REV : AT
APPROVED :MON

SARGENT & LUNDY

NPPD
GERALD GENTLEMAN STATION UNIT 1&2 (Case 3)
WET FGD
CASH FLOW REPORT

PRICE LEVEL 2011

CASH FLOW BY MONTH

		JAN-2016	FEB-2016	MAR-2016	APR-2016	MAY-2016	JUN-2016	JUL-2016	AUG-2016	SEP-2016	OCT-2016	NOV-2016	DEC-2016
TOTAL CONSTRUCTION COST	M	25,484,679	23,887,228	22,171,778	20,372,708	18,532,075	16,704,726	14,978,906	13,537,138	12,199,383	10,849,726	9,501,375	8,166,057
TOTAL CONSTRUCTION COST	C	771,253,107	795,140,335	817,312,113	837,684,821	856,216,896	872,921,623	887,900,529	901,437,667	913,637,049	924,486,776	933,988,151	942,154,207
INTEREST DURING CONSTRUCTION	M	3,427,421	3,541,323	3,648,547	3,748,715	3,841,626	3,927,304	4,006,143	4,079,299	4,147,181	4,209,718	4,266,893	4,318,739
INTEREST DURING CONSTRUCTION	C	54,097,796	57,639,119	61,287,666	65,036,381	68,878,007	72,805,312	76,811,455	80,890,754	85,037,935	89,247,653	93,514,546	97,833,285
TOTAL	M	28,912,100	27,428,551	25,820,325	24,121,423	22,373,702	20,632,031	18,985,050	17,616,436	16,346,564	15,059,444	13,768,269	12,484,795
TOTAL	C	825,350,903	852,779,454	878,599,779	902,721,202	925,094,904	945,726,934	964,711,984	982,328,420	998,674,984	1,013,734,428	1,027,502,697	1,039,987,492

		JAN-2017	FEB-2017	MAR-2017	APR-2017	MAY-2017	JUN-2017	JUL-2017	AUG-2017	SEP-2017	OCT-2017	NOV-2017	DEC-2017
TOTAL CONSTRUCTION COST	M	7,128,453	5,799,041	4,515,498	3,291,764	2,148,711	1,122,683	294,085					
TOTAL CONSTRUCTION COST	C	949,282,660	955,081,701	959,597,199	962,888,963	965,037,674	966,160,357	966,454,422					
INTEREST DURING CONSTRUCTION	M	4,366,473	4,408,864	4,446,076	4,478,345	4,505,980	4,529,451	4,549,565					
INTEREST DURING CONSTRUCTION	C	102,199,758	106,608,622	111,054,700	115,533,045	120,039,025	124,568,477	129,118,042					
TOTAL	M	11,494,926	10,207,905	8,961,576	7,770,109	6,654,691	5,652,134	4,843,631					
TOTAL	C	1,051,482,418	1,061,690,323	1,070,651,900	1,078,422,008	1,085,076,699	1,090,728,833	1,095,572,464					

PROJECT NO. : 12681-006
ISSUE DATE : 12/02/2011
PREP/REV : AT
APPROVED :MON

SARGENT & LUNDY

NPPD
GERALD GENTLEMAN STATION UNIT 1&2 (Case 3)
WET FGD
CASH FLOW REPORT

PRICE LEVEL 2011

CASH FLOW BY YEAR

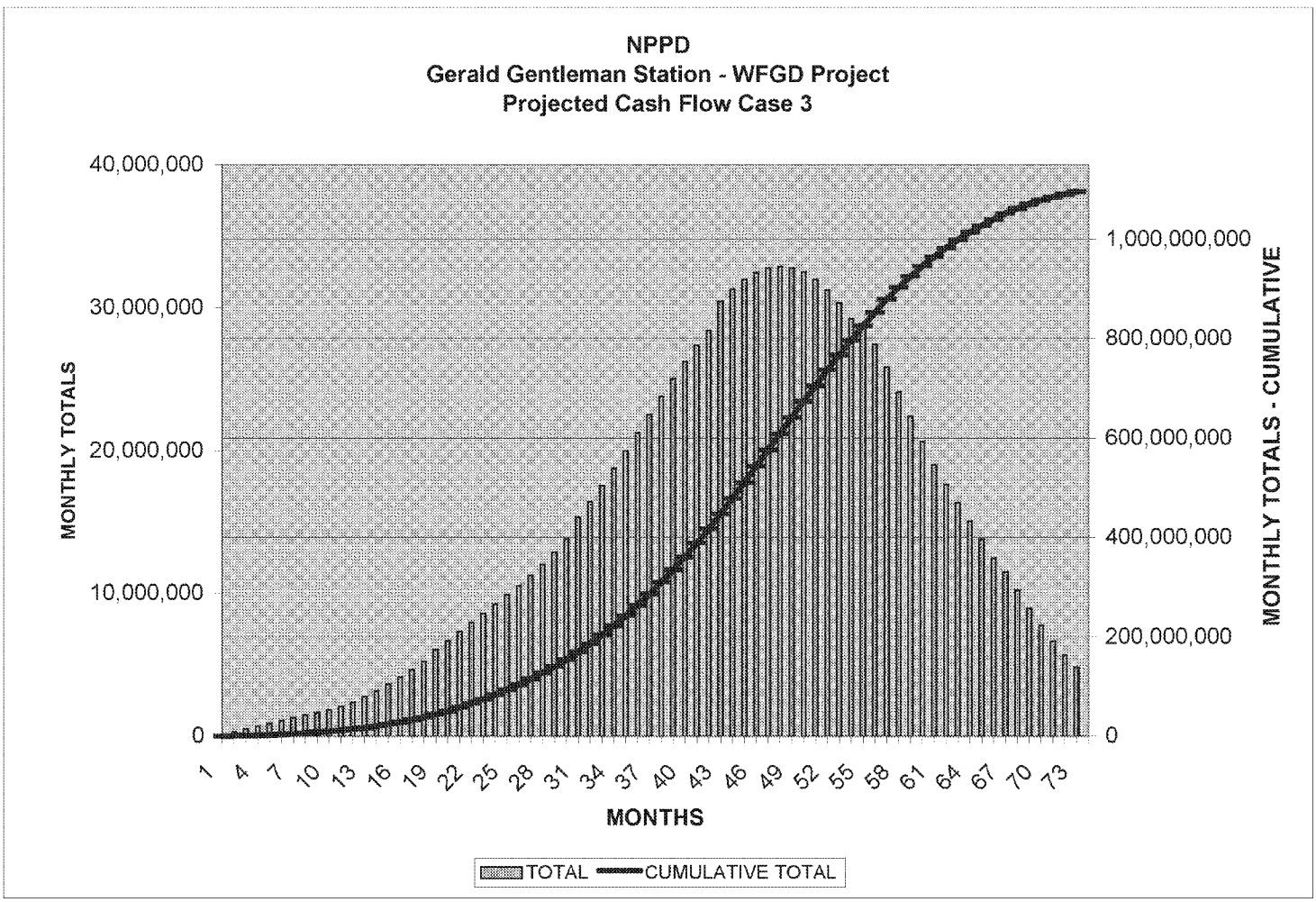
		2011	2012	2013	2014	2015	2016	2017			
TOTAL CONSTRUCTION COST	A	3,534,409	33,423,422	111,570,192	248,563,763	348,676,641	196,385,780	24,300,214			
TOTAL CONSTRUCTION COST	C	3,534,409	36,957,831	148,528,024	397,091,787	745,768,427	942,154,207	966,454,422			
INTEREST DURING CONSTRUCTION	A	37,855	892,814	4,616,233	14,045,421	31,078,051	47,162,910	31,284,757			
INTEREST DURING CONSTRUCTION	C	37,855	930,669	5,546,903	19,592,324	50,670,375	97,833,285	129,118,042			
TOTAL	A	3,572,264	34,316,236	116,186,426	262,609,184	379,754,692	243,548,690	55,584,972			
TOTAL	C	3,572,264	37,888,501	154,074,926	416,684,110	796,438,802	1,039,987,492	1,095,572,464			

LEGEND:

M - MONTHLY

C - CUMULATIVE

A - ANNUAL



Sargent Lundy

NPPDRH114_0006555

Nebraska Public Power District
Always there when you need us
GERALD GENTLEMAN STATION UNITS 1&2

Sargent & Lundy

December 8, 2011
Project No. 12681-006
Rev. 1

SCENARIO 4
WFGD & SCR – 2016, 2017 SPRING OUTAGES

Question 1

PROJECT NO. : 12681-006
ISSUE DATE : 12/02/2011
PREP/REV : AT
APPROVED : MON

SARGENT & LUNDY

NPPD
GERALD GENTLEMAN STATION UNIT 1&2 (Case 4)
WET FGD & SCR
CASH FLOW REPORT

PRICE LEVEL 2011

CASH FLOW BY MONTH

		JAN-2011	FEB-2011	MAR-2011	APR-2011	MAY-2011	JUN-2011	JUL-2011	AUG-2011	SEP-2011	OCT-2011	NOV-2011	DEC-2011
TOTAL CONSTRUCTION COST	M	0	0	0	0	0	0	151,766	449,704	739,246	1,020,400	1,293,160	1,557,527
TOTAL CONSTRUCTION COST	C	0	0	0	0	0	0	151,766	601,470	1,340,716	2,361,119	3,654,279	5,211,805
INTEREST DURING CONSTRUCTION	M	0	0	0	0	0	0	633	2,511	5,604	9,882	15,316	21,875
INTEREST DURING CONSTRUCTION	C	0	0	0	0	0	0	633	3,144	8,748	18,630	33,946	55,821
TOTAL	M	0	0	0	0	0	0	152,399	452,214	744,852	1,030,283	1,308,476	1,579,402
TOTAL	C	0	0	0	0	0	0	152,399	604,613	1,349,466	2,379,748	3,688,224	5,267,626

		JAN-2012	FEB-2012	MAR-2012	APR-2012	MAY-2012	JUN-2012	JUL-2012	AUG-2012	SEP-2012	OCT-2012	NOV-2012	DEC-2012
TOTAL CONSTRUCTION COST	M	1,888,041	2,143,526	2,392,283	2,647,228	2,965,423	3,354,680	3,807,395	4,316,120	4,873,569	5,472,621	6,106,321	6,767,888
TOTAL CONSTRUCTION COST	C	7,097,847	9,241,373	11,633,656	14,280,885	17,246,307	20,600,988	24,408,383	28,724,503	33,598,072	39,070,693	45,177,014	51,944,902
INTEREST DURING CONSTRUCTION	M	29,631	38,894	49,032	60,275	72,892	87,185	103,426	121,855	142,686	166,102	192,258	221,282
INTEREST DURING CONSTRUCTION	C	85,651	124,545	173,577	233,852	306,744	393,929	497,355	619,210	761,896	927,998	1,120,256	1,341,538
TOTAL	M	1,915,672	2,182,420	2,441,315	2,707,504	3,038,315	3,441,865	3,910,821	4,437,975	5,016,255	5,638,723	6,298,579	6,989,169
TOTAL	C	7,183,498	9,365,918	11,807,233	14,514,737	17,553,052	20,994,917	24,905,738	29,343,713	34,359,968	39,998,691	46,297,270	53,286,440

		JAN-2013	FEB-2013	MAR-2013	APR-2013	MAY-2013	JUN-2013	JUL-2013	AUG-2013	SEP-2013	OCT-2013	NOV-2013	DEC-2013
TOTAL CONSTRUCTION COST	M	7,748,765	8,475,620	9,217,182	9,974,769	10,751,467	11,550,951	12,376,523	13,256,803	14,293,041	15,496,616	16,849,370	18,331,240
TOTAL CONSTRUCTION COST	C	59,693,686	68,169,306	77,386,489	87,361,257	98,112,725	109,663,676	122,040,198	135,297,001	149,590,042	165,086,659	181,936,029	200,267,268
INTEREST DURING CONSTRUCTION	M	254,517	290,922	330,570	373,544	419,935	469,854	523,423	580,886	642,911	710,213	783,436	863,144
INTEREST DURING CONSTRUCTION	C	1,596,055	1,886,976	2,217,547	2,591,090	3,011,025	3,480,879	4,004,302	4,585,188	5,228,099	5,938,311	6,721,747	7,584,891
TOTAL	M	8,003,301	8,766,542	9,547,753	10,348,312	11,171,402	12,020,805	12,899,945	13,837,689	14,935,952	16,206,829	17,632,806	19,194,384
TOTAL	C	61,289,741	70,056,283	79,604,035	89,952,348	101,123,750	113,144,554	126,044,500	139,882,189	154,818,141	171,024,970	188,657,776	207,852,160

		JAN-2014	FEB-2014	MAR-2014	APR-2014	MAY-2014	JUN-2014	JUL-2014	AUG-2014	SEP-2014	OCT-2014	NOV-2014	DEC-2014
TOTAL CONSTRUCTION COST	M	20,717,141	22,456,787	24,257,423	26,091,879	27,932,188	29,749,988	31,516,956	33,205,237	34,787,891	36,239,304	37,535,601	38,655,013
TOTAL CONSTRUCTION COST	C	220,984,410	243,441,196	267,698,619	293,790,498	321,722,686	351,472,674	382,989,630	416,194,867	450,982,758	487,222,062	524,757,664	563,412,677
INTEREST DURING CONSTRUCTION	M	953,134	1,050,753	1,156,286	1,269,913	1,391,686	1,521,547	1,659,317	1,804,703	1,957,294	2,116,574	2,281,923	2,452,630
INTEREST DURING CONSTRUCTION	C	8,538,025	9,588,779	10,745,067	12,014,981	13,406,667	14,928,213	16,587,531	18,392,233	20,349,527	22,466,101	24,748,024	27,200,654
TOTAL	M	21,670,275	23,507,540	25,413,711	27,361,792	29,323,874	31,271,535	33,176,274	35,009,940	36,745,184	38,355,878	39,817,525	41,107,643
TOTAL	C	229,522,435	253,029,975	278,443,686	305,805,478	335,129,352	366,400,887	399,577,161	434,587,101	471,332,285	509,688,163	549,505,688	590,613,331

		JAN-2015	FEB-2015	MAR-2015	APR-2015	MAY-2015	JUN-2015	JUL-2015	AUG-2015	SEP-2015	OCT-2015	NOV-2015	DEC-2015
TOTAL CONSTRUCTION COST	M	41,161,342	41,900,169	42,403,561	42,660,715	42,664,315	42,410,647	41,899,662	41,134,997	40,123,970	38,877,527	37,410,228	35,740,206
TOTAL CONSTRUCTION COST	C	604,574,019	646,474,188	688,877,749	731,538,463	774,202,778	816,613,425	858,513,087	899,648,084	939,772,054	978,649,581	1,016,059,809	1,051,800,015
INTEREST DURING CONSTRUCTION	M	2,634,500	2,820,210	3,006,793	3,199,235	3,390,486	3,581,477	3,771,133	3,958,392	4,142,215	4,321,607	4,495,629	4,663,413
INTEREST DURING CONSTRUCTION	C	29,635,154	32,655,364	35,664,157	38,863,392	42,253,878	45,835,355	49,606,488	53,564,879	57,707,094	62,028,702	66,524,331	71,187,743
TOTAL	M	43,795,843	44,720,379	45,412,354	45,859,950	46,054,801	45,992,124	45,670,795	45,093,389	44,266,185	43,199,134	41,905,857	40,403,619
TOTAL	C	634,409,173	679,129,552	724,541,906	770,401,856	816,456,657	862,448,780	908,119,575	953,212,964	997,479,148	1,040,678,283	1,082,584,140	1,122,987,758

PROJECT NO. : 12681-006
ISSUE DATE : 12/02/2011
PREP/REV : AT
APPROVED : MON

SARGENT & LUNDY

NPPD
GERALD GENTLEMAN STATION UNIT 1&2 (Case 4)
WET FGD & SCR
CASH FLOW REPORT

PRICE LEVEL 2011

CASH FLOW BY MONTH

		JAN-2016	FEB-2016	MAR-2016	APR-2016	MAY-2016	JUN-2016	JUL-2016	AUG-2016	SEP-2016	OCT-2016	NOV-2016	DEC-2016
TOTAL CONSTRUCTION COST	M	35,244,800	33,158,203	30,941,090	28,630,054	26,269,617	23,918,398	21,673,139	19,739,044	17,905,026	16,034,591	14,140,935	12,237,227
TOTAL CONSTRUCTION COST	C	1,087,044,814	1,120,203,017	1,151,144,108	1,179,774,161	1,206,043,778	1,229,962,176	1,251,635,315	1,271,374,359	1,289,279,387	1,305,313,978	1,319,454,913	1,331,692,140
INTEREST DURING CONSTRUCTION	M	4,829,830	4,988,240	5,138,065	5,278,878	5,410,435	5,532,737	5,646,185	5,752,042	5,850,692	5,941,953	6,025,699	6,101,855
INTEREST DURING CONSTRUCTION	C	76,017,573	81,005,613	86,143,878	91,422,756	96,833,192	102,365,929	108,012,114	113,764,155	119,614,847	125,556,800	131,582,499	137,684,354
TOTAL	M	40,074,629	38,146,443	36,079,156	33,908,932	31,680,052	29,451,135	27,319,324	25,491,085	23,755,720	21,976,544	20,166,634	18,339,082
TOTAL	C	1,163,062,387	1,201,208,830	1,237,287,986	1,271,196,918	1,302,876,970	1,332,328,104	1,359,647,429	1,385,138,514	1,408,894,234	1,430,870,778	1,451,037,411	1,469,376,494

		JAN-2017	FEB-2017	MAR-2017	APR-2017	MAY-2017	JUN-2017	JUL-2017	AUG-2017	SEP-2017	OCT-2017	NOV-2017	DEC-2017
TOTAL CONSTRUCTION COST	M	10,750,779	8,794,993	6,879,335	5,030,654	3,288,310	1,718,503	447,442					
TOTAL CONSTRUCTION COST	C	1,342,442,919	1,351,237,912	1,358,117,247	1,363,147,901	1,366,436,212	1,368,152,715	1,368,600,157					
INTEREST DURING CONSTRUCTION	M	6,172,131	6,234,544	6,289,229	6,336,432	6,376,568	6,410,316	6,438,913					
INTEREST DURING CONSTRUCTION	C	143,856,485	150,091,029	156,380,257	162,716,689	169,093,257	175,503,573	181,942,485					
TOTAL	M	16,922,910	15,029,537	13,168,564	11,367,087	9,664,878	8,128,819	6,886,354					
TOTAL	C	1,486,299,404	1,501,328,940	1,514,497,504	1,525,864,591	1,535,529,469	1,543,656,288	1,550,542,642					

PROJECT NO. : 12681-006
ISSUE DATE : 12/02/2011
PREP/REV : AT
APPROVED : MON

SARGENT & LUNDY

NPPD
GERALD GENTLEMAN STATION UNIT 1&2 (Case 4)
WET FGD & SCR
CASH FLOW REPORT

PRICE LEVEL 2011

CASH FLOW BY YEAR

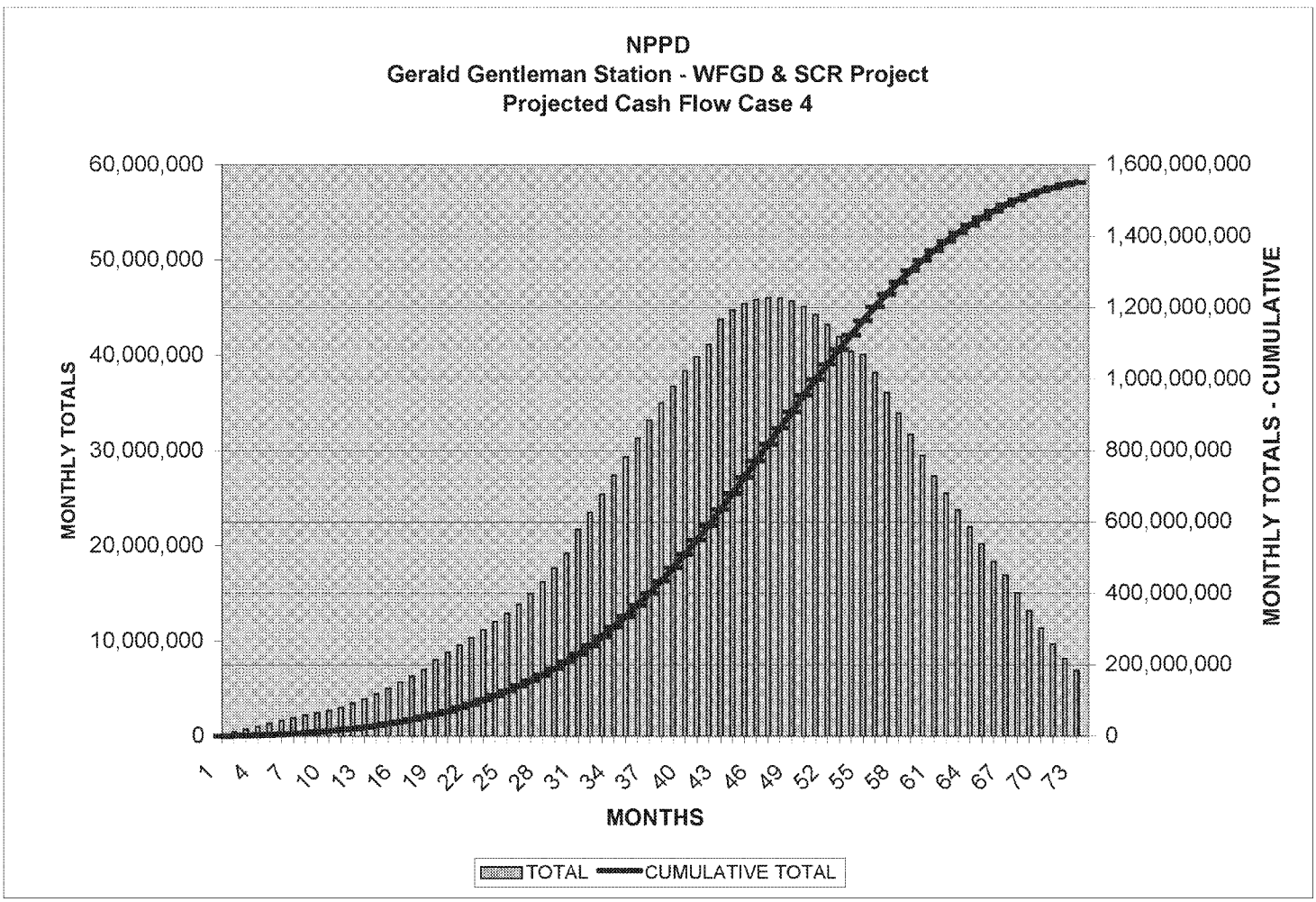
		2011	2012	2013	2014	2015	2016	2017			
TOTAL CONSTRUCTION COST	A	5,211,805	46,733,096	148,322,367	363,145,405	488,387,338	279,892,125	36,908,017			
TOTAL CONSTRUCTION COST	C	5,211,805	51,944,902	200,267,268	563,412,677	1,051,800,015	1,331,692,140	1,368,600,157			
INTEREST DURING CONSTRUCTION	A	55,821	1,285,717	6,243,354	19,615,762	43,987,089	66,496,611	44,258,131			
INTEREST DURING CONSTRUCTION	C	55,821	1,341,538	7,584,891	27,200,654	71,187,743	137,684,354	181,942,485			
TOTAL	A	5,267,626	48,018,813	154,565,720	382,761,171	532,374,428	346,388,736	81,166,148			
TOTAL	C	5,267,626	53,286,440	207,852,160	590,613,331	1,122,987,758	1,469,376,494	1,550,542,642			

LEGEND:

M - MONTHLY

C - CUMULATIVE

A - ANNUAL



Sargent Lundy

NPPDRH114_0006560