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May 2, 2011

STAFF'S FIRST DATA REQUEST

RECEIVED-FPSC  
11 MAY -2 PM 3:10  
COMMISSION  
CLERK

Ms. Ann Cole, Director  
Division of the Commission Clerk and Administrative Services  
Florida Public Service Commission  
2540 Shumard Oak Blvd.  
Tallahassee, FL 32399-0850

Re: Docket No. 110091-EQ - Florida Power & Light Company's Petition for Approval  
of a Renewable Energy Tariff and Standard Offer Contract

Dear Ms. Cole:

Please find enclosed for filing an original and five (5) copies of Florida Power & Light  
Company's responses to Staff's First Data Request in the above mentioned docket.

Thank you for your assistance. Please contact me should you or your staff have any  
questions regarding this filing.

COM  
APA  
ECR  
GCL  
RAD 3  
SSC  
ADM  
OPC  
CLK

Sincerely,

William P. Cox  
Senior Attorney  
Florida Bar No. 0093531

WPC/aal  
Enclosures

DOCUMENT NUMBER-DATE  
03002 MAY-2=  
FPSC-COMMISSION CLERK

**Q.**

Please complete the tables below describing payments to a renewable provider based on the parameters included in FPL's revised standard offer contract. Please assume the renewable generator is a 50 MW facility providing firm capacity at the minimum capacity factor required for full capacity payments. Additionally, please assume an in-service date of January 1, 2012 and a contract duration of 20 years. Please provide this information for the following scenarios:

- Normal Payments
- Levelized Payments
- Early Payments
- Early Levelized Payments

Committed Capacity (MW)	50
Capacity Factor (%)	
Payment Type:	

	Energy (MWh)	Capacity Rates (\$/kw-mo)	Total Capacity Payments (\$000)	Energy Rates (\$/MWh)	Total Energy Payments (\$000)	Total Payments to Renewable Provider (\$000)
2012						
2013						
2014						
2015						
2016						
2017						
2018						
2019						
2020						
2021						
2022						
2023						
2024						
2025						
2026						
2027						
2028						
2029						
2030						
2031						

**A.**

Please see Attachment A.

DOCUMENT NUMBER-DATE  
03002 MAY-2=  
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## **ATTACHMENT A**

Committed Capacity (MW)	50
Capacity Factor (%)	94
Payment Type:	Normal

	Energy (MWh)	Capacity Rates (\$/kW-mo)	Total Capacity Payments (\$000)	Energy Rates (\$/MWh)	Total Energy Payments (\$000)	Total Payments to Renewable Provider (\$000)
2012	411,720	-	-	48.52	19,975	19,975
2013	411,720	-	-	46.42	19,110	19,110
2014	411,720	-	-	46.12	18,987	18,987
2015	411,720	-	-	49.12	20,222	20,222
2016	411,720	8.14	4,884	48.49	19,966	24,850
2017	411,720	8.38	5,030	47.46	19,540	24,570
2018	411,720	8.63	5,179	51.15	21,061	26,240
2019	411,720	8.89	5,333	54.14	22,291	27,625
2020	411,720	9.15	5,492	57.29	23,586	29,078
2021	411,720	9.43	5,656	60.50	24,908	30,564
2022	411,720	9.71	5,824	64.78	26,672	32,496
2023	411,720	10.00	5,997	69.32	28,541	34,538
2024	411,720	10.29	6,176	73.93	30,440	36,615
2025	411,720	10.60	6,359	78.56	32,347	38,706
2026	411,720	10.91	6,549	80.34	33,079	39,627
2027	411,720	11.23	6,739	81.83	33,690	40,429
2028	411,720	11.56	6,935	83.36	34,321	41,256
2029	411,720	11.90	7,137	84.93	34,966	42,103
2030	411,720	12.24	7,345	86.58	35,645	42,990
2031	411,720	12.60	7,559	88.34	36,370	43,928

Committed Capacity (MW)	50
Capacity Factor (%)	94
Payment Type:	Levelized

	Energy (MWh)	Capacity Rates (\$/kW-mo)	Total Capacity Payments (\$000)	Energy Rates (\$/MWh)	Total Energy Payments (\$000)	Total Payments to Renewable Provider (\$000)
2012	411,720	-	-	48.52	19,975	19,975
2013	411,720	-	-	46.42	19,110	19,110
2014	411,720	-	-	46.12	18,987	18,987
2015	411,720	-	-	49.12	20,222	20,222
2016	411,720	9.84	5,905	48.49	19,966	25,870
2017	411,720	9.88	5,930	47.46	19,540	25,470
2018	411,720	9.93	5,956	51.15	21,061	27,017
2019	411,720	9.97	5,983	54.14	22,291	28,274
2020	411,720	10.02	6,011	57.29	23,586	29,597
2021	411,720	10.07	6,039	60.50	24,908	30,947
2022	411,720	10.11	6,068	64.78	26,672	32,741
2023	411,720	10.16	6,098	69.32	28,541	34,639
2024	411,720	10.22	6,129	73.93	30,440	36,569
2025	411,720	10.27	6,161	78.56	32,347	38,508
2026	411,720	10.32	6,194	80.34	33,079	39,273
2027	411,720	10.37	6,223	81.83	33,690	39,913
2028	411,720	10.42	6,254	83.36	34,321	40,574
2029	411,720	10.47	6,284	84.93	34,966	41,251
2030	411,720	10.53	6,316	86.58	35,645	41,961
2031	411,720	10.58	6,349	88.34	36,370	42,718



Committed Capacity (MW)	50
Capacity Factor (%)	94
Payment Type:	Early

	Energy (MWh)	Capacity Rates (\$/kW-mo)	Total Capacity Payments (\$000)	Energy Rates (\$/MWh)	Total Energy Payments (\$000)	Total Payments to Renewable Provider (\$000)
2012	411,720	5.50	3,302	48.52	19,975	23,277
2013	411,720	5.67	3,399	46.42	19,110	22,510
2014	411,720	5.83	3,499	46.12	18,987	22,486
2015	411,720	6.00	3,602	49.12	20,222	23,824
2016	411,720	6.18	3,708	48.49	19,966	23,673
2017	411,720	6.36	3,816	47.46	19,540	23,356
2018	411,720	6.55	3,928	51.15	21,061	24,990
2019	411,720	6.74	4,044	54.14	22,291	26,335
2020	411,720	6.94	4,163	57.29	23,586	27,749
2021	411,720	7.14	4,285	60.50	24,908	29,193
2022	411,720	7.35	4,411	64.78	26,672	31,083
2023	411,720	7.57	4,540	69.32	28,541	33,081
2024	411,720	7.79	4,674	73.93	30,440	35,113
2025	411,720	8.02	4,811	78.56	32,347	37,158
2026	411,720	8.25	4,952	80.34	33,079	38,031
2027	411,720	8.50	5,098	81.83	33,690	38,788
2028	411,720	8.75	5,248	83.36	34,321	39,569
2029	411,720	9.00	5,402	84.93	34,966	40,368
2030	411,720	9.27	5,561	86.58	35,645	41,205
2031	411,720	9.54	5,724	88.34	36,370	42,094

Committed Capacity (MW)	50
Capacity Factor (%)	94
Payment Type:	Early Levelized

	Energy (MWh)	Capacity Rates (\$/kW-mo)	Total Capacity Payments (\$000)	Energy Rates (\$/MWh)	Total Energy Payments (\$000)	Total Payments to Renewable Provider (\$000)
2012	411,720	6.86	4,115	48.52	19,975	24,090
2013	411,720	6.88	4,131	46.42	19,110	23,241
2014	411,720	6.91	4,147	46.12	18,987	23,134
2015	411,720	6.94	4,164	49.12	20,222	24,387
2016	411,720	6.97	4,182	48.49	19,966	24,147
2017	411,720	7.00	4,200	47.46	19,540	23,740
2018	411,720	7.03	4,218	51.15	21,061	25,279
2019	411,720	7.06	4,237	54.14	22,291	26,528
2020	411,720	7.09	4,256	57.29	23,586	27,842
2021	411,720	7.13	4,276	60.50	24,908	29,184
2022	411,720	7.16	4,297	64.78	26,672	30,969
2023	411,720	7.20	4,317	69.32	28,541	32,858
2024	411,720	7.23	4,339	73.93	30,440	34,779
2025	411,720	7.27	4,361	78.56	32,347	36,708
2026	411,720	7.31	4,384	80.34	33,079	37,462
2027	411,720	7.34	4,407	81.83	33,690	38,097
2028	411,720	7.38	4,431	83.36	34,321	38,752
2029	411,720	7.43	4,455	84.93	34,966	39,421
2030	411,720	7.47	4,480	86.58	35,645	40,125
2031	411,720	7.51	4,506	88.34	36,370	40,876



**Q.**

Please complete the list below summarizing FPL's units that are currently on inactive reserve.

**A.**

Unit	Capacity (Summer MW)	Date of Status Change to Inactive Reserve *	Fuel Type
Cutler 5	68	2009	Natural Gas
Cutler 6	137	2009	Natural Gas
Sanford 3	138	2009	Oil and Natural Gas
Port Everglades 1	213	2010	Oil and Natural Gas
Port Everglades 2	213	2010	Oil and Natural Gas
Port Everglades 3	387	2011	Oil and Natural Gas
Port Everglades 4	374	2011	Oil and Natural Gas
Turkey Point 2	392	2011	Oil and Natural Gas

Because generating units that have been placed on Inactive Reserve status are eligible to return to active service for, at least, short time periods, FPL does not typically associate specific dates with units on Inactive Reserve status. For planning purposes, FPL began to project placing units on Inactive Reserve status in its 2009 planning work. Since that time, the specific units projected to be placed on Inactive Service have changed and units designated as being on Inactive Reserve have returned to active service for brief periods of time (such as Port Everglades 1 and 2).



**Q.**

Please discuss FPL's plans for units that are currently on inactive reserve (i.e., retire, return to service, etc.). Please be specific to which units are being affected and the projected dates of planned changes to status.

**A.**

There are 8 units that are on inactive reserve status. Three of these units (Cutler 5, Cutler 6, and Sanford 3) are currently expected to be retired by 2012. No specific dates for these retirements have yet been set.

Two of the units (Port Everglades 3 and 4) are currently projected to be returned to active service in January 2012 and remain in active service through summer 2012. At that time, these two units are currently projected to be returned to Inactive Reserve status and to remain there at least until the modernization projects at Cape Canaveral and Riviera are completed (summer 2014).

The remaining two Inactive Reserve units at the Port Everglades site (Port Everglades 1 and 2) are projected to remain on Inactive Reserve status for the foreseeable future. The remaining unit on Inactive Reserve status (Turkey Point 2) is currently serving as a synchronous condenser that provides transmission support instead of MW and MWh. It is projected to remain in this role for the foreseeable future.

**Q.**

Please discuss how FPL's plans for units on inactive reserve are or aren't different from the Company's plans a year ago (i.e., 2010 TYSP compared to 2011 TYSP). If FPL's plans have changed please explain why.

**A.**

In its 2010 Ten-Year Site Plan, FPL projected the return of all of the Inactive Reserve units to active service beginning in the year 2018 and continuing in later years as needed to meet FPL's then-projected resource needs. As indicated in FPL's responses to Commission Staff's Data Request No. 3 in this docket and Interrogatories No. 77 and 78 in Docket No. 11018-EU, there have been changes in FPL's projections for these units. These changes are discussed in FPL's 2011 Ten-Year Site Plan.

At the time FPL's 2010 Ten-Year Site Plan was filed, FPL had not conducted analyses to gauge the relative economics of returning the Inactive Reserve units to active service versus adding new generating capacity. FPL began such analyses later in 2010, and that work is continuing in 2011. The preliminary results of these analyses to-date indicate that, beginning in 2016, when FPL first projects a need for firm capacity, and in subsequent years, it is more economic to add new generating capacity than to return the Inactive Reserve units to active service.

**Q.**

If the current trend of low natural gas prices has affected FPL's plans regarding units on inactive reserve please identify a "price point" in which current FPL's plans may change (i.e., if natural gas prices increase 20 percent and oil prices remain static, will FPL change its plans and bring oil units back sooner).

**A.**

Any increase in the projected prices of natural gas would increase the economic advantage of new unit additions over returning units from inactive reserve, all else being equal. However, the current forecasted prices of natural gas and oil are not the only "driver" of FPL's current projections regarding the role of the units on Inactive Reserve. Forecasted fuel prices are one of many factors that FPL is examining in its ongoing analyses of the economics of returning Inactive Reserve units to active service compared to adding new generating capacity. Other factors include (but are not necessarily limited to): the capital and operating cost of returning the Inactive Reserve units to active service; the capital and operating costs of new generating capacity; transmission system-related costs associated both with bringing Inactive Reserve units back to active service and the siting of new generation capacity; and system economics.

Consequently, FPL does not have a fuel cost-related price point at which FPL's current projections for the inactive reserve units may change.



**Q.**

In response to staff interrogatory no. 47 in Docket No. 110018-EU, FPL states that the return from inactive reserve of Turkey Point Unit 2 has been removed. Please provide all economic analyses supporting this decision.

**A.**

FPL did not conduct an economic analysis comparing a Greenfield combined cycle unit versus returning Turkey Point Unit 2 alone to service. The analysis performed by FPL (see Attachments 1-5) compared a Greenfield combined cycle unit versus returning to service the combination of Turkey Point Unit 2 and all four Port Everglades units.

## **ATTACHMENT 1**

(CPVRR, 2011 - 2050 in 2011 \$Millions @ 7.29% discount rate)

with Turkey Point 6 and 7

without Turkey Point 6 and 7

	1	2
Year	CC 3x1 H (no IR)	IR + CC 3x1 H (30yr life for IR)
2016	3X1 H CC	PPE 4
2017		PPE 3
2018		
2019		PPE 1 & PPE 2
2020	3X1 H CC	PTP 2
2021		3x1 H CC
2022	TP 6	TP 6
2023	TP 7	TP 7
2024		
2025	3X1 H CC	3X1 H CC
CPVRR Difference from Plan 1	0	473

	1	2
Year	CC 3x1 H (no IR)	IR + CC 3x1 H (30yr life for IR)
2016	3X1 H CC	PPE 4
2017		PPE 3
2018		
2019		PPE 1 & PPE 2
2020	3X1 H CC	PTP 2
2021		3x1 H CC
2022	3x1 H CC	3x1 H CC
2023	3X1 H CC	
2024		3x1 H CC
2025	3X1 H CC	3X1 H CC
CPVRR Difference from Plan 1	0	458



(CPVRR, 2011 - 2050 in 2011 \$Millions @ 7.29% discount rate)

with Turkey Point 6 and 7

	1	2	2a
Year	CC 3x1 H (no IR)	IR + CC 3x1 H (15yr life for IR)	IR + CC 3x1 H (30yr life for IR)
2016	3X1 H CC	PPE 4	PPE 4
2017		PPE 3	PPE 3
2018			
2019		PPE 1& PPE 2	PPE 1 & PPE 2
2020	3X1 H CC	PTP 2	PTP 2
2021		3X1 H CC	3x1 H CC
2022	TP 6	TP 6	TP 6
2023	TP 7	TP 7	TP 7
2024			
2025	3X1 H CC	3X1 H CC	3X1 H CC
CPVRR Difference from Plan 1	0	914	473

without Turkey Point 6 and 7

	1	2	2a
Year	CC 3x1 H (no IR)	IR + CC 3x1 H (15yr life for IR)	IR + CC 3x1 H (30yr life for IR)
2016	3X1 H CC	PPE 4	PPE 4
2017		PPE 3	PPE 3
2018			
2019		PPE 1 & PPE 2	PPE 1 & PPE 2
2020	3X1 H CC	PTP 2	PTP 2
2021		3X1 H CC	3x1 H CC
2022	3x1 H CC	3X1 H CC	3x1 H CC
2023	3X1 H CC		
2024		3X1 H CC	3x1 H CC
2025	3X1 H CC	3X1 H CC	3X1 H CC
CPVRR Difference from Plan 1	0	916	458



Summary of Inactive Reserve versus CC 3x1 H

Scenario	Generation Capital FPL (Millions)	Transmission Capital FPL (Millions)	Generation Fixed O&M (Millions)	Capital Replacement Charges (Millions)	Firm Gas Transport Costs (Millions)	Total Fixed Costs (Millions)	System Net Fuel (Millions)	Startup Costs (Millions)	Generation Var. O&M (Millions)	Emission Costs (Millions)	Transmission Losses (Millions)	Total VOM/Fuel Costs (Millions)	NPV Cumulative Total Costs (Millions)	Diff
Base Case	\$9,660	\$246	\$692	\$1,359	\$8,423	\$20,381	\$103,849	\$2,980	\$764	\$25,874	\$0	\$133,467	\$153,848	
IR15+3X1H CC	\$9,308	\$144	\$798	\$1,182	\$8,605	\$20,037	\$104,917	\$2,999	\$700	\$26,108	\$0	\$134,725	\$154,761	\$914
IR30+3X1H CC	\$8,890	\$144	\$867	\$1,156	\$8,423	\$19,480	\$105,007	\$3,001	\$689	\$26,143	\$0	\$134,840	\$154,320	\$473
	(\$353)	(\$102)	\$106	(\$177)	\$181	(\$345)								
BC wo TP6&7	\$11,358	\$393	\$835	\$1,634	\$8,423	\$22,643	\$111,365	\$2,979	\$905	\$28,453	\$0	\$143,702	\$166,344	
IR15 wo TP6&7	\$10,968	\$288	\$936	\$1,450	\$8,605	\$22,246	\$112,478	\$3,000	\$838	\$28,698	\$0	\$145,014	\$167,260	\$916
IR30 wo TP6&7	\$10,550	\$288	\$1,005	\$1,423	\$8,423	\$21,689	\$112,554	\$3,001	\$828	\$28,731	\$0	\$145,113	\$166,802	\$458

Scenario	Generation Capital FPL (Millions)	Transmission Capital FPL (Millions)	Generation Fixed O&M (Millions)	Capital Replacement Charges (Millions)	Firm Gas Transport Costs (Millions)	Total Fixed Costs (Millions)	System Net Fuel (Millions)	Startup Costs (Millions)	Generation Var. O&M (Millions)	Emission Costs (Millions)	Transmission Losses (Millions)	Total VOM/Fuel Costs (Millions)	Total Annual Costs (Millions)	NPV Cumulative Total Costs (Millions)	Diff
3X1H CC	\$7,757	\$168	\$579	\$1,062	\$2,632	\$12,199	\$97,160	\$2,848	\$783	\$28,220	\$0	\$129,011	\$141,210	\$141,210	\$650
IR15+3X1H CC	\$7,386	\$77	\$690	\$877	\$2,632	\$11,662	\$98,069	\$2,899	\$715	\$28,516	\$0	\$130,198	\$141,860	\$141,860	\$460
IR30+3X1H CC	\$6,851	\$77	\$723	\$852	\$2,632	\$11,135	\$98,186	\$2,930	\$695	\$28,724	\$0	\$130,535	\$141,670	\$141,670	
															Diff
															Diff
															w/011411F w/1101101F
3X1J CC	\$7,150	\$215	\$600	\$1,484	\$2,632	\$12,081	\$96,208	\$2,887	\$592	\$28,124	\$0	\$127,812	\$139,892	\$139,892	\$895
IR15+3X1J CC	\$6,729	\$98	\$718	\$1,213	\$2,632	\$11,390	\$97,414	\$2,908	\$546	\$28,529	\$0	\$129,397	\$140,787	\$140,787	\$899
IR30+3X1J CC	\$6,230	\$98	\$745	\$1,121	\$2,632	\$10,826	\$97,556	\$2,936	\$533	\$28,770	\$0	\$129,796	\$140,621	\$140,621	\$762
3X1H CC	\$7,757	\$168	\$579	\$1,062	\$2,632	\$12,199	\$97,160	\$2,848	\$783	\$28,220	\$0	\$129,011	\$141,210	\$141,210	
3X1J CC	\$7,150	\$215	\$600	\$1,484	\$2,632	\$12,081	\$96,208	\$2,887	\$592	\$28,124	\$0	\$127,812	\$139,892	\$139,892	
	(\$608)	\$46	\$22	\$421	\$0	(\$118)	(\$952)	\$39	(\$191)	(\$96)	\$0	(\$1,200)	(\$1,318)	(\$1,318)	
	-7.8%	27.6%	3.7%	39.6%	0.0%	-1.0%	-1.0%	1.4%	-24.4%	-0.3%		-0.9%	-0.9%	-0.9%	

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111  
362



## **ATTACHMENT 2**

Input Data in all Shaded Cells

This is the capacity for 2 combust

Paste Input data into lines below:

	3X1 J DF CC 2017	3X1 J DF CC 2018	3X1 J DF CC 2019	3X1 J DF CC 2020	3X1 J DF CC 2021	2X1 J DF CC 2017	2X1 J DF CC 2018	2X1 J DF CC 2019	2X1 J DF CC 2020	2X1 J DF CC 2021	3X1 H DF CC 2016	3X1 H DF CC 2018	3X1 H DF CC 2019	3X1 H DF CC 2020	3X1 H DF CC 2025	Return PPE1 from IR	Return PPE2 from IR	Return PPE3 from IR	Return PPE4 from IR	Return PTP2 from IR	Nuclear Uprate TP Units	Nuclear Uprate SL Units	Nuclear 2022	Nuclear 2023	2017 CT	2018 CT	2019 CT
Capacity (MW)	1347	1347	1347	1347	1347	894	894	894	894	894	1191	1191	1191	1191	1191	213	213	387	392	392	208	206	1100	1100	396	396	396
No. of Units	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	1	1	1	1	0	0	0
Year COD	2017	2018	2019	2020	2021	2017	2018	2019	2020	2021	2016	2018	2019	2020	2025	2018	2018	2018	2018	2018	2012	2012	2022	2023	2017	2018	2019
Startmonth	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Ref Year \$	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2007	2007	2022	2023	2018	2018	2018
Gas Transp Cost (\$/MMBtu)	1.93	1.98	2.02	2.08	2.13	1.93	1.98	2.02	2.08	2.13	1.88	1.98	2.02	2.08	2.35	0.00	0.00	0.00	0.00	0.00	0	0	0	0	1.93	1.98	2.02
Firm Reqt. 000 MMBtu/Day	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gas Fired Technology	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	YES	YES	YES	YES

tion turbines

[illegible]



Year	Annual Discount Factor	Generation Capital FPL (Millions)	Transmission Capital FPL (Millions)	Generation Fixed O&M (Millions)	Capital Replacement Charges (Millions)	Firm Gas Transport Costs (Millions)	Total Fixed Costs (Millions)	System Net Fuel (Millions)	Startup Costs (Millions)	Generation Var. O&M (Millions)	Emission Costs (Millions)	Transmission Losses (Millions)	Total VOM/Fuel Costs (Millions)	Total Annual Costs (Millions)	NPV Total Annual Cost (Millions)	NPV Cumulative Total Costs (Millions)
2011	1.000	0	0	0	0	0	0	3380	115	14	(10)	0	3,499	3,499	3,499	3,499
2012	0.932	0	0	0	0	0	0	3557	118	15	(4)	0	3,686	3,686	3,435	6,934
2013	0.869	0	0	0	0	0	0	3485	129	13	(7)	0	3,620	3,620	3,145	10,079
2014	0.810	0	0	0	0	0	0	3706	140	14	(7)	0	3,853	3,853	3,120	13,199
2015	0.755	0	0	0	0	0	0	3970	146	15	(7)	0	4,124	4,124	3,112	16,311
2016	0.703	105	9	7	0	288	410	4437	152	17	(8)	0	4,598	5,008	3,523	19,834
2017	0.656	175	15	7	13	288	499	4875	158	19	(8)	0	5,044	5,543	3,634	23,468
2018	0.611	169	14	8	2	288	482	5308	163	20	1,252	0	6,743	7,225	4,415	27,883
2019	0.570	163	14	8	55	288	528	5710	170	21	1,393	0	7,294	7,822	4,455	32,337
2020	0.531	275	23	19	18	288	624	6092	183	26	1,514	0	7,815	8,439	4,480	36,817
2021	0.495	348	30	16	20	288	703	6576	185	31	1,691	0	8,483	9,186	4,545	41,362
2022	0.461	335	29	18	37	288	707	6838	187	32	1,785	0	8,842	9,549	4,404	45,766
2023	0.430	323	27	19	81	288	738	6809	194	31	1,801	0	8,835	9,573	4,115	49,881
2024	0.401	311	26	21	23	288	669	7304	206	31	1,971	0	9,512	10,181	4,078	53,959
2025	0.373	436	37	35	44	288	840	8022	218	38	2,136	0	10,414	11,254	4,202	58,161
2026	0.348	587	44	33	82	367	1114	8412	233	45	2,318	0	11,008	12,122	4,219	62,380
2027	0.324	760	42	47	36	529	1414	8823	245	53	2,572	0	11,693	13,106	4,251	66,632
2028	0.302	908	40	50	143	613	1754	9141	257	61	2,812	0	12,271	14,025	4,240	70,872
2029	0.282	1,080	39	73	123	783	2098	9481	268	69	3,071	0	12,889	14,987	4,223	75,095
2030	0.263	1,227	37	73	148	870	2355	10004	281	77	3,400	0	13,762	16,117	4,233	79,328
2031	0.245	1,317	36	80	129	960	2521	10434	295	83	3,540	0	14,352	16,873	4,131	83,459
2032	0.228	1,492	34	93	288	1143	3050	11089	306	94	3,786	0	15,275	18,325	4,181	87,640
2033	0.213	1,813	33	111	168	1425	3549	12230	318	113	4,224	0	16,885	20,434	4,346	91,986
2034	0.198	2,015	31	132	222	1521	3921	12866	331	125	4,462	0	17,784	21,705	4,302	96,288
2035	0.185	2,090	30	142	248	1620	4130	13357	345	133	4,639	0	18,474	22,604	4,176	100,464
2036	0.172	2,357	29	163	487	1923	4959	14451	363	150	5,066	0	20,030	24,989	4,303	104,767
2037	0.160	2,562	28	169	315	2027	5101	15068	375	163	5,303	0	20,909	26,010	4,174	108,941
2038	0.150	2,629	27	182	313	2133	5285	15598	390	172	5,508	0	21,668	26,953	4,032	112,973
2039	0.139	2,698	26	205	439	2242	5611	16270	405	182	5,768	0	22,625	28,236	3,937	116,910
2040	0.130	2,874	25	213	424	2466	6002	16809	424	194	5,987	0	23,414	29,416	3,823	120,733
2041	0.121	3,017	24	232	492	2580	6345	17398	444	204	6,232	0	24,278	30,622	3,709	124,442
2042	0.113	3,082	23	245	470	2698	6518	18142	459	216	6,523	0	25,340	31,859	3,597	128,038
2043	0.105	3,382	22	282	523	3059	7268	19146	480	235	6,928	0	26,789	34,056	3,583	131,622
2044	0.098	3,604	22	291	420	3182	7518	20013	500	251	7,271	0	28,035	35,553	3,487	135,108
2045	0.091	3,657	21	314	802	3308	8102	20700	524	262	7,553	0	29,039	37,141	3,395	138,503
2046	0.085	3,690	20	324	657	3438	8129	21486	543	275	7,869	0	30,173	38,303	3,263	141,767
2047	0.079	3,866	19	364	673	3703	8626	22273	564	291	8,194	0	31,322	39,949	3,172	144,939
2048	0.074	4,018	19	370	663	3839	8909	23090	590	305	8,531	0	32,516	41,424	3,066	148,005
2049	0.069	4,076	18	389	839	3979	9300	23938	612	319	8,883	0	33,752	43,051	2,970	150,975
2050	0.064	4,256	17	420	712	4265	9669	24804	635	336	9,240	0	35,015	44,684	2,873	153,848
Total NPV =		\$9,660	\$246	\$692	\$1,359	\$8,423	\$20,381	\$103,849	\$2,980	\$764	\$25,874	\$0	\$133,467	\$153,848	\$153,848	



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Escalation = 1.03		Transmission Capital Revenue Requirement Component																																					
Calculation	3X1 J DF	3X1 J DF	3X1 J DF	3X1 J DF	3X1 J DF	2X1 J DF	2X1 J DF	2X1 J DF	2X1 J DF	2X1 J DF	3X1 H DF	3X1 H DF	3X1 H DF	3X1 H DF	3X1 H DF	Return	Return	Return	Return	Return	Nuclear	Nuclear	Nuclear	Nuclear	2017 CT	2018 CT	2019 CT	2020 CT	2021 CT										
Assumption:	CC 2017	CC 2018	CC 2019	CC 2020	CC 2021	CC 2017	CC 2018	CC 2019	CC 2020	CC 2021	CC 2016	CC 2018	CC 2019	CC 2020	CC 2021	PPE1 from	PPE2 from	PPE3 from	PPE4 from	PTP2 from	TP Units	SL Units	2022	2023	2017 CT	2018 CT	2019 CT	2020 CT	2021 CT										
Capacity (MW)	1347	1347	1347	1347	1347	894	894	894	894	894	1191	1191	1191	1191	1191	213	213	187	392	392	208	206	1100	1100	396	396	396	396	396										
In-service year (COD)	2017	2018	2019	2020	2021	2017	2018	2019	2020	2021	2016	2018	2019	2020	2021	2018	2018	2018	2018	2018	2012	2012	2022	2023	2017	2018	2019	2020	2021										
Based on EDM file in Directory: G:\Common\1-1A\1-4th qtr 2010 resource optimization\2- EDM Filename: 3X1CCJ Duct Firing Transmission EDM.xls										Based on EDM file in Directory: G:\Common\1-1A\1-4th qtr 2010 resource optimization\2- EDM Filename: 2X1CCJ Duct Firing Transmission EDM.xls										Based on EDM file in Directory: G:\Common\1-1A\1-4th qtr 2010 resource optimization\2- EDM Filename: 3X1 H CC DF Tx EDM.xls																			
Year	Annual Rev 000 \$	Annual Rev 000 \$	Annual Rev 000 \$	Annual Rev 000 \$	Annual Rev 000 \$	Annual Rev 000 \$	Annual Rev 000 \$	Annual Rev 000 \$	Annual Rev 000 \$	Annual Rev 000 \$	Annual Rev 000 \$	Annual Rev 000 \$	Annual Rev 000 \$	Annual Rev 000 \$	Annual Rev 000 \$	Annual Rev 000 \$	Annual Rev 000 \$	Annual Rev 000 \$	Annual Rev 000 \$	Annual Rev 000 \$	Annual Rev 000 \$	Annual Rev 000 \$	Annual Rev 000 \$	Annual Rev 000 \$	Annual Rev 000 \$	Annual Rev 000 \$	Annual Rev 000 \$	Annual Rev 000 \$	Annual Rev 000 \$										
2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
2017	12,111	12,111	12,111	12,111	12,111	8,361	8,361	8,361	8,361	8,361	15,021	15,021	15,021	15,021	15,021	-	-	-	-	-	-	-	-	-	-	2,104	-	-	-	-									
2018	20,123	20,123	20,123	20,123	20,123	13,893	13,893	13,893	13,893	13,893	14,419	14,419	14,419	14,419	14,419	-	-	-	-	-	-	-	-	-	-	3,496	2,167	-	-	-									
2019	19,307	19,307	19,307	19,307	19,307	13,330	13,330	13,330	13,330	13,330	13,855	13,855	13,855	13,855	13,855	-	-	-	-	-	-	-	-	-	-	3,355	3,601	2,232	-	-									
2020	18,543	18,543	18,543	18,543	18,543	12,804	12,804	12,804	12,804	12,804	13,325	13,325	13,325	13,325	13,325	-	-	-	-	-	-	-	-	-	-	3,222	3,455	3,709	2,299	-									
2021	17,826	17,826	17,826	17,826	17,826	12,309	12,309	12,309	12,309	12,309	12,826	12,826	12,826	12,826	12,826	-	-	-	-	-	-	-	-	-	-	3,097	3,319	3,559	3,820	2,368									
2022	17,151	17,151	17,151	17,151	17,151	11,843	11,843	11,843	11,843	11,843	12,348	12,348	12,348	12,348	12,348	-	-	-	-	-	-	-	-	-	-	2,980	3,190	3,418	3,666	3,935									
2023	16,505	16,505	16,505	16,505	16,505	11,398	11,398	11,398	11,398	11,398	11,878	11,878	11,878	11,878	11,878	-	-	-	-	-	-	-	-	-	-	2,868	3,070	3,286	3,521	3,776									
2024	15,869	15,869	15,869	15,869	15,869	10,959	10,959	10,959	10,959	10,959	11,408	11,408	11,408	11,408	11,408	-	-	-	-	-	-	-	-	-	-	2,758	2,954	3,162	3,385	3,626									
2025	15,232	15,232	15,232	15,232	15,232	10,520	10,520	10,520	10,520	10,520	10,957	10,957	10,957	10,957	10,957	-	-	-	-	-	-	-	-	-	-	2,647	2,840	3,043	3,256	3,486									
2026	14,596	14,596	14,596	14,596	14,596	10,081	10,081	10,081	10,081	10,081	10,467	10,467	10,467	10,467	10,467	-	-	-	-	-	-	-	-	-	-	2,537	2,726	2,925	3,134	3,354									
2027	13,960	13,960	13,960	13,960	13,960	9,643	9,643	9,643	9,643	9,643	10,036	10,036	10,036	10,036	10,036	-	-	-	-	-	-	-	-	-	-	2,426	2,613	2,808	3,013	3,228									
2028	13,324	13,324	13,324	13,324	13,324	9,204	9,204	9,204	9,204	9,204	9,586	9,586	9,586	9,586	9,586	-	-	-	-	-	-	-	-	-	-	2,316	2,499	2,691	2,892	3,104									
2029	12,687	12,687	12,687	12,687	12,687	8,765	8,765	8,765	8,765	8,765	9,146	9,146	9,146	9,146	9,146	-	-	-	-	-	-	-	-	-	-	2,205	2,385	2,574	2,772	2,979									
2030	12,051	12,051	12,051	12,051	12,051	8,326	8,326	8,326	8,326	8,326	8,706	8,706	8,706	8,706	8,706	-	-	-	-	-	-	-	-	-	-	2,095	2,271	2,457	2,651	2,855									
2031	11,415	11,415	11,415	11,415	11,415	7,887	7,887	7,887	7,887	7,887	8,267	8,267	8,267	8,267	8,267	-	-	-	-	-	-	-	-	-	-	1,984	2,157	2,339	2,530	2,730									
2032	10,779	10,779	10,779	10,779	10,779	7,448	7,448	7,448	7,448	7,448	7,827	7,827	7,827	7,827	7,827	-	-	-	-	-	-	-	-	-	-	1,883	2,044	2,222	2,410	2,606									
2033	10,143	10,143	10,143	10,143	10,143	7,009	7,009	7,009	7,009	7,009	7,388	7,388	7,388	7,388	7,388	-	-	-	-	-	-	-	-	-	-	1,770	1,932	2,109	2,294	2,482									
2034	9,507	9,507	9,507	9,507	9,507	6,570	6,570	6,570	6,570	6,570	6,949	6,949	6,949	6,949	6,949	-	-	-	-	-	-	-	-	-	-	1,661	1,819	1,994	2,176	2,357									
2035	8,871	8,871	8,871	8,871	8,871	6,131	6,131	6,131	6,131	6,131	6,510	6,510	6,510	6,510	6,510	-	-	-	-	-	-	-	-	-	-	1,540	1,706	1,879	2,060	2,235									
2036	8,235	8,235	8,235	8,235	8,235	5,692	5,692	5,692	5,692	5,692	6,071	6,071	6,071	6,071	6,071	-	-	-	-	-	-	-	-	-	-	1,429	1,593	1,764	1,944	2,120									
2037	7,599	7,599	7,599	7,599	7,599	5,253	5,253	5,253	5,253	5,253	5,632	5,632	5,632	5,632	5,632	-	-	-	-	-	-	-	-	-	-	1,318	1,480	1,649	1,828	2,003									
2038	6,963	6,963	6,963	6,963	6,963	4,814	4,814	4,814	4,814	4,814	5,193	5,193	5,193	5,193	5,193	-	-	-	-	-	-	-	-	-	-	1,207	1,367	1,535	1,713	1,894									
2039	6,327	6,327	6,327	6,327	6,327	4,375	4,375	4,375	4,375	4,375	4,754	4,754	4,754	4,754	4,754	-	-	-	-	-	-	-	-	-	-	1,096	1,254	1,421	1,598	1,776									
2040	5,691	5,691	5,691	5,691	5,691	3,936	3,936	3,936	3,936	3,936	4,315	4,315	4,315	4,315	4,315	-	-	-	-	-	-	-	-	-	-	985	1,141	1,307	1,483	1,659									
2041	5,055	5,055	5,055	5,055	5,055	3,497	3,497	3,497	3,497	3,497	3,876	3,876	3,876	3,876	3,876	-	-	-	-	-	-	-	-	-	-	874	1,028	1,193	1,368	1,543									
2042	4,419	4,419	4,419	4,419	4,419	3,058	3,058	3,058	3,058	3,058	3,437	3,437	3,437	3,437	3,437	-	-	-	-	-	-	-	-	-	-	763	917	1,081	1,255	1,429									
2043	3,783	3,783	3,783	3,783	3,783	2,619	2,619	2,619	2,619	2,619	3,000	3,000	3,000	3,000	3,000	-	-	-	-	-	-	-	-	-	-	652	805	968	1,141	1,315									
2044	3,147	3,147	3,147	3,147	3,147	2,180	2,180	2,180	2,180	2,180	2,561	2,561	2,561	2,561	2,561	-	-	-	-	-	-	-	-	-	-	541	693	855	1,028	1,199									
2045	2,511	2,511	2,511	2,511	2,511	1,741	1,741	1,741	1,741	1,741	2,122	2,122	2,122	2,122	2,122	-	-	-	-	-	-	-	-	-	-	430	581	742	903	1,064									
2046	1,875	1,875	1,875	1,875	1,875	1,302	1,302	1,302	1,302	1,302	1,683	1,683	1,683	1,683	1,683	-	-	-	-	-	-	-	-	-	-	319	470	631	792	953									
2047	1,239	1,239	1,239	1,239	1,239	863	863	863	863	863	1,244	1,244	1,244	1,244	1,244	-	-	-	-	-	-	-	-	-	-	208	359	510	671	832									
2048	603	603	603	603	603	424	424	424	424	424	805	805	805	805	805	-	-	-	-	-	-	-	-	-	-	97	248	400	551	702									
2049	5,741	5,741	5,741	5,741	5,741	4,297	4,297	4,297	4,297	4,297	4,678	4,678	4,678	4,678	4,678																								



## [Contd.]

[illegible]



	# of Units	3X1 J DF CC 2017	3X1 J DF CC 2018	3X1 J DF CC 2019	3X1 J DF CC 2020	3X1 J DF CC 2021	2X1 J DF CC 2017	2X1 J DF CC 2018	2X1 J DF CC 2019	2X1 J DF CC 2020	2X1 J DF CC 2021	3X1 H DF CC 2016	3X1 H DF CC 2018	3X1 H DF CC 2019	3X1 H DF CC 2020	3X1 H DF CC 2025	Return PPE1 from IR	Return PPE2 from IR	Return PPE3 from IR	Return PPE4 from IR	Return PTP2 from IR	Nuclear Uprate TP Units	Nuclear Uprate SL Units	Nuclear 2022	Nuclear 2023	2017 CT	2018 CT	2019 CT	2020 CT
		0	0	0	0	0	0	0	0	0	0	1	1	0	1	1		0	0	0	0	1	1	1	1	0	0	0	0
Year	Total Impact on Portfolio (\$M)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)
2011	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2012	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2013	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2014	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2015	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2016	\$105	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$105,222	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2017	\$175	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$175,405	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2018	\$169	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$168,934	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2019	\$163	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$162,702	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2020	\$275	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$156,690	\$0	\$0	\$118,428	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2021	\$348	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$150,882	\$0	\$0	\$197,420	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2022	\$335	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$145,262	\$0	\$0	\$190,137	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2023	\$323	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$139,818	\$0	\$0	\$183,122	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2024	\$311	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$134,471	\$0	\$0	\$176,356	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2025	\$436	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$129,138	\$0	\$0	\$169,819	\$137,291	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2026	\$587	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$123,806	\$0	\$0	\$163,494	\$228,864	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2027	\$760	\$0	\$0	\$0	\$0	\$0</																							



[illegible]



[illegible]



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## Transmission Capital Revenue Requirement Component [Contd.]

[illegible]



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Fixed O&M esc 0.025

Capacity (MW)	3X1 J DF CC 2017 1347	3X1 J DF CC 2018 1347	3X1 J DF CC 2019 1347	3X1 J DF CC 2020 1347	3X1 J DF CC 2021 1347	2X1 J DF CC 2017 894	2X1 J DF CC 2018 894	2X1 J DF CC 2019 894	2X1 J DF CC 2020 894	2X1 J DF CC 2021 894	3X1 H DF CC 2016 1191	3X1 H DF CC 2018 1191	3X1 H DF CC 2019 1191	3X1 H DF CC 2020 1191	3X1 H DF CC 2021 1191	Return PPE1 from IR 213	Return PPE2 from IR 213	Return PPE3 from IR 387	Return PPE4 from IR 392	Return PTP2 from IR 392	Nuclear Uprate TP Units 208	Nuclear Uprate SL Units 206	Nuclear 2022 1100	Nuclear 2023 1100	2017 CT 396	2018 CT 396	2019 CT 396	2020 CT 396	2021 CT 396			
	2017	2018	2019	2020	2021	2017	2018	2019	2020	2021	2016	2018	2019	2020	2021	2018	2018	2018	2018	2018	2012	2012	2022	2023	2017	2018	2019	2020	2021			
Based on E&C Matrix file in Directory: G:\Common\1-1A\1-4th qtr 2010 resource optimization\1-assumptions new units Filename: Greenfield_J_Options_11052010_With_O&M and Transmission Updates_Givenout_GO.xls Received on November 5, 2010											Based on E&C Matrix file in Directory: G:\Common\1-1A\1-SHL\2011020111 IR-15yrs H Tech/Assumptions New Unit Filename: Greenfield_H_2016_02032011_Givenout_RAP.xls Received on February 3, 2010											Source of data provided on "Plan Input" tab Cells Q27:175										
Year	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)			
2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2016	0	0	0	0	0	0	0	0	0	0	7,213	0	0	0	0	7,417	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
2017	7,898	0	0	0	0	6,620	0	0	0	0	8,486	7,578	0	0	0	0	0	0	0	0	0	0	0	0	807	0	0	0	0	0		
2018	8,096	8,096	0	0	0	6,785	6,785	0	0	0	7,855	7,793	7,768	0	0	0	0	0	0	0	0	0	0	0	827	827	0	0	0	0		
2019	8,324	8,324	8,324	0	0	6,980	6,980	6,980	0	0	10,566	8,915	7,769	7,962	0	4,141	4,869	4,863	4,860	2,577	0	0	0	0	851	851	851	851	851	851		
2020	9,460	9,460	9,460	9,460	0	7,709	7,709	7,709	7,709	0	10,566	8,915	7,769	7,962	0	4,141	4,869	4,863	4,860	2,577	0	0	0	0	875	875	875	875	875	875		
2021	8,811	8,811	8,811	8,811	8,811	7,391	7,391	7,391	7,391	7,391	8,293	8,252	9,138	8,187	0	10,104	4,226	5,723	5,728	4,670	0	0	0	0	900	900	900	900	900	900		
2022	11,674	11,674	11,674	11,674	11,674	9,167	9,167	9,167	9,167	9,167	8,328	11,101	8,459	9,366	0	4,372	5,130	5,126	7,751	2,742	0	0	0	0	951	951	951	951	951	951		
2023	9,301	9,301	9,301	9,301	9,301	7,813	7,813	7,813	7,813	7,813	9,888	8,713	11,379	8,670	0	5,188	9,779	8,649	9,559	3,522	0	0	0	0	1,116	1,116	1,116	1,116	1,116	1,116		
2024	9,563	9,563	9,563	9,563	9,563	8,037	8,037	8,037	8,037	8,037	9,017	8,959	8,930	11,663	0	5,341	4,517	6,131	6,131	3,624	0	0	0	0	951	951	951	951	951	951		
2025	11,008	11,008	11,008	11,008	11,008	8,955	8,955	8,955	8,955	8,955	16,440	10,389	9,183	9,154	9,008	5,050	5,874	6,144	6,138	6,387	0	0	0	0	978	978	978	978	978	978		
2026	10,109	10,109	10,109	10,109	10,109	8,503	8,503	8,503	8,503	8,503	9,535	9,474	10,649	9,413	9,263	5,599	4,742	6,430	8,463	3,779	0	0	0	0	1,006	1,006	1,006	1,006	1,006	1,006		
2027	17,924	17,924	17,924	17,924	17,924	13,308	13,308	13,308	13,308	13,308	10,878	17,272	9,711	10,915	10,597	5,668	5,783	7,261	5,777	3,051	0	0	0	0	1,034	1,034	1,034	1,034	1,034	1,034		
2028	10,687	10,687	10,687	10,687	10,687	8,997	8,997	8,997	8,997	8,997	10,099	10,018	17,704	9,953	9,810	5,870	5,016	6,743	6,743	3,941	0	0	0	0	1,063	1,063	1,063	1,063	1,063	1,063		
2029	12,115	12,115	12,115	12,115	12,115	9,916	9,916	9,916	9,916	9,916	10,285	11,429	10,369	18,147	13,196	6,043	5,111	6,937	6,937	5,616	0	0	0	0	1,124	1,124	1,124	1,124	1,124	1,124		
2030	11,314	11,314	11,314	11,314	11,314	9,528	9,528	9,528	9,528	9,528	13,066	10,610	11,714	10,525	10,357	5,234	6,167	6,131	9,341	3,183	0	0	0	0	1,156	1,156	1,156	1,156	1,156	1,156		
2031	11,633	11,633	11,633	11,633	11,633	9,801	9,801	9,801	9,801	9,801	10,966	10,911	10,875	12,007	10,650	6,335	5,365	7,274	7,274	4,230	0	0	0	0	1,189	1,189	1,189	1,189	1,189	1,189		
2032	15,309	15,309	15,309	15,309	15,309	12,085	12,085	12,085	12,085	12,085	12,475	14,568	11,183	11,147	12,349	5,573	7,047	10,734	7,375	4,247	0	0	0	0	1,222	1,222	1,222	1,222	1,222	1,222		
2033	12,281	12,281	12,281	12,281	12,281	10,362	10,362	10,362	10,362	10,362	11,597	11,521	14,932	11,463	11,261	12,667	5,633	7,629	7,629	7,857	0	0	0	0	1,257	1,257	1,257	1,257	1,257	1,257		
2034	14,096	14,096	14,096	14,096	14,096	11,519	11,519	11,519	11,519	11,519	11,926	13,316	11,809	15,305	20,531	6,837	5,783	7,849	10,496	4,545	0	0	0	0	1,257	1,257	1,257	1,257	1,257	1,257		
2035	12,984	12,984	12,984	12,984	12,984	10,965	10,965	10,965	10,965	10,965	21,439	12,184	13,649	12,104	11,908	5,915	7,015	6,998	6,952	3,558	0	0	0	0	1,329	1,329	1,329	1,329	1,329	1,329		
2036	13,351	13,351	13,351	13,351	13,351	11,280	11,280	11,280	11,280	11,280	12,612	12,529	12,488	13,990	13,585	7,168	6,070	8,231	8,231	4,742	0	0	0	0	1,367	1,367	1,367	1,367	1,367	1,367		
2037	23,367	23,367	23,367	23,367	23,367	17,442	17,442	17,442	17,442	17,442	14,444	22,524	12,843	12,801	12,612	6,210	7,307	7,299	7,299	6,960	0	0	0	0	1,405	1,405	1,405	1,405	1,405	1,405		
2038	14,115	14,115	14,115	14,115	14,115	11,936	11,936	11,936	11,936	11,936	13,358	13,251	23,087	13,164	12,969	7,563	6,373	8,630	8,679	4,948	0	0	0	0	1,445	1,445	1,445	1,445	1,445	1,445		
2039	15,956	15,956	15,956	15,956	15,956	13,125	13,125	13,125	13,125	13,125	17,717	15,069	13,582	23,665	17,316	7,735	7,540	13,867	8,879	5,096	0	0	0	0	1,486	1,486	1,486	1,486	1,486	1,486		
2040	14,944	14,944	14,944	14,944	14,944	12,641	12,641	12,641	12,641	12,641	14,107	14,034	15,446	13,922	13,695	7,400	8,593	9,044	9,044	9,251	0	0	0	0	1,527	1,527	1,527	1,527	1,527	1,527		
2041	19,547	19,547	19,547	19,547	19,547	15,505	15,505	15,505	15,505	15,505	16,254	18,613	14,385	15,832	15,829	8,109	6,868	9,312	9,312	5,321	0	0	0	0	1,566	1,566	1,566	1,566	1,566	1,566		
2042	15,779	15,779	15,779	15,779	15,779	13,366	13,366	13,366	13,366	13,366	14,520	14,821	19,079	14,745	14,483	7,026	8,267	8,259	8,259	4,591	0	0	0	0	1,577	1,577	1,577	1,577	1,577	1,577		
2043	18,059	18,059	18,059	18,059	18,059	14,823	14,823	14,823	14,823	14,823	26,523	17,076	15,192	19,556	14,894	11,808	7,210	13,071	9,765	5,555	0	0	0	0	1,616	1,616	1,616	1,616	1,616	1,616		
2044	16,684	16,684	16,684	16,684	16,684	14,145																										



[Contd.]

				2022-2050 Filler Costs (\$'000)																										
2022 CT	2023 CT	2024 CT	2025 CT	2024 Filler	2025 Filler	2026 Filler	2027 Filler	2028 Filler	2029 Filler	2030 Filler	2031 Filler	2032 Filler	2033 Filler	2034 Filler	2035 Filler	2036 Filler	2037 Filler	2038 Filler	2039 Filler	2040 Filler	2041 Filler	2042 Filler	2043 Filler	2044 Filler	2045 Filler	2046 Filler	2047 Filler	2048 Filler	2049 Filler	2050 Filler
396	396	396	396	596	596	596	596	596	596	596	596	596	596	596	596	596	596	596	596	596	596	596	596	596	596	596	596	596	596	596
2022	2023	2024	2025	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Using prorated (50%) costs of 3x1 H CC																														
3x1 H CC costs in column L																														
Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						



	# of Units											3X1 H	3X1 H	3X1 H	3X1 H	3X1 H	Return	Return	Return	Return	Return	Nuclear	Nuclear	Nuclear	Nuclear					
		3X1 J DF CC 2017	3X1 J DF CC 2018	3X1 J DF CC 2019	3X1 J DF CC 2020	3X1 J DF CC 2021	2X1 J DF CC 2017	2X1 J DF CC 2018	2X1 J DF CC 2019	2X1 J DF CC 2020	2X1 J DF CC 2021	DF CC 2016	DF CC 2018	DF CC 2019	DF CC 2020	DF CC 2025	PPE1 from IR	PPT2 from IR	PPE3 from IR	PPE4 from IR	PPT2 from IR	TP Units 1	Update SL Units 1	2022 1	2023 1	2017 CT 0	2018 CT 0	2019 CT 0	2020 CT 0	2021 CT 0
Year	Total Impact on Portfolio (\$M)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)
2011	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2012	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2013	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2014	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2015	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2016	\$7	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,213	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2017	\$7	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,417	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2018	\$8	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,486	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2019	\$8	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,855	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2020	\$19	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,566	\$0	\$0	\$0	\$7,962	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2021	\$16	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,293	\$0	\$0	\$0	\$8,187	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2022	\$18	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,528	\$0	\$0	\$0	\$9,366	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2023	\$19	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,888	\$0	\$0	\$8,670	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2024	\$21	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,017	\$0	\$0	\$11,663	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2025	\$35	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16,440	\$0	\$0	\$9,154	\$9,008	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2026	\$33	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,535	\$0	\$0	\$9,413	\$9,263	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2027	\$47	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,878																			



[illegible]







[illegible]



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Capital Replacement Cost Component

	# of Units	3X1 J DF CC 2017	3X1 J DF CC 2018	3X1 J DF CC 2019	3X1 J DF CC 2020	3X1 J DF CC 2021	2X1 J DF CC 2017	2X1 J DF CC 2018	2X1 J DF CC 2019	2X1 J DF CC 2020	2X1 J DF CC 2021	3X1 H DF CC 2016	3X1 H DF CC 2018	3X1 H DF CC 2019	3X1 H DF CC 2020	3X1 H DF CC 2025	Return PPE1 from IR	Return PPE2 from IR	Return PPE3 from IR	Return PPE4 from IR	Return PTP2 from IR	Nuclear Uprate TP Units	Nuclear Uprate SL Units	Nuclear 2022	Nuclear 2023	2017 CT	2018 CT	2019 CT	2020 CT	2021 CT
		0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	1	1	1	1	0	0	0	0	0
Year	Total Impact on Portfolio (\$M)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)
2011	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2012	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2013	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2014	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2015	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2016	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2017	\$13	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,992	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2018	\$2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,134	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2019	\$55	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$54,752	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2020	\$18	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$18,034	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2021	\$20	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,809	\$0	\$14,341	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2022	\$37	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$34,682	\$0	\$2,355	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2023	\$81	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20,219	\$0	\$60,436	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2024	\$23	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,650	\$0	\$19,906	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2025	\$44	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$37,179	\$0	\$0	\$6,412	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2026	\$82	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$27,976	\$0	\$38,283	\$16,225	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2027	\$36	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,541	\$0	\$22,318	\$2,665	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2028	\$143	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$53,447	\$0	\$2,925	\$68,378	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2029	\$123	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,792	\$0	\$41,039	\$22,522	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2030	\$148	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,018	\$0	\$30,880	\$7,254	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2031	\$129	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,741	\$0	\$2,804	\$43,314	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2032	\$288	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$75,525	\$0	\$38,995	\$25,251	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2033	\$168	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,445	\$0	\$14,120	\$3,399	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2034	\$222	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22,734	\$0	\$7,747	\$46,431	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2035	\$248	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,218	\$0	\$7,441	\$34,938	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2036	\$487	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,294	\$0	\$83,365	\$3,173	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2037	\$315	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,498	\$0	\$3,802	\$66,748	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2038	\$313	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,891	\$0	\$25,094	\$15,975	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2039	\$439	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,555	\$0	\$3,552	\$8,765	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2040	\$424	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$337	\$0	\$122,848	\$8,419	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2041	\$492	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$60,618	\$0	\$12,692	\$94,320	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2042	\$470	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22,736	\$0	\$9,814	\$4,302	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2043	\$523	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,462	\$0	\$5,027	\$28,391	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2044	\$420	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,858	\$0	\$372	\$4,019	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2045	\$802	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$42,327	\$0	\$66,911	\$138,991	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2046	\$657	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$43	\$0	\$25,096	\$14,360	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2047	\$673	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$62,133	\$0	\$15,964	\$11,103	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2048	\$663	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$23,304	\$0	\$4,258	\$5,688	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2049	\$839	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,824	\$0	\$46,722	\$421	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2050	\$712	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,954	\$0	\$48	\$75,704	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2051	\$751	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$43,386	\$0	\$68,584	\$28,394	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2052	\$954	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$44	\$0	\$25,723	\$18,061	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2053	\$996	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$63,687	\$0	\$16,363	\$4,818	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2054	\$745	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$23,887	\$0	\$4,364	\$52,861	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2055	\$739	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$15,194	\$0	\$47,890	\$54	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2056	\$1,004	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,053	\$0	\$49	\$77,596	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2057	\$814	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$44,470	\$0	\$70,298	\$29,104	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2058	\$815	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$46	\$0	\$26,367	\$18,513	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2059	\$963	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$65,279	\$0	\$16,772	\$4,938	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2060	\$844	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$24,484	\$0	\$4,474	\$54,183	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

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## **ATTACHMENT 3**



Input Data in all Shaded Cells

This is the capacity for 2 combust

Paste Input data into lines below:

	3X1 J DF CC 2017	3X1 J DF CC 2018	3X1 J DF CC 2019	3X1 J DF CC 2020	3X1 J DF CC 2021	2X1 J DF CC 2017	2X1 J DF CC 2018	2X1 J DF CC 2019	2X1 J DF CC 2020	2X1 J DF CC 2021	3X1 H DF CC 2016	3X1 H DF CC 2022	3X1 H DF CC 2023	3X1 H DF CC 2020	3X1 H DF CC 2025	Return PPE1 from IR	Return PPE2 from IR	Return PPE3 from IR	Return PPE4 from IR	Return PTP2 from IR	Nuclear Uprate TP Units	Nuclear Uprate SL Units	Nuclear 2022	Nuclear 2023	2017 CT	2018 CT	2019 CT
Capacity (MW)	1347	1347	1347	1347	1347	894	894	894	894	894	1191	1191	1191	1191	1191	213	213	387	392	392	208	206	1100	1100	396	396	396
No. of Units	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	1	1	0	0	0	0	0
Year COD	2017	2018	2019	2020	2021	2017	2018	2019	2020	2021	2016	2022	2023	2020	2025	2018	2018	2018	2018	2018	2012	2012	2022	2023	2017	2018	2019
Startmonth	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Ref Year \$	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2007	2007	2022	2023	2018	2018	2018
Gas Transp Cost (\$/MMBtu)	1.93	1.98	2.02	2.08	2.13	1.93	1.98	2.02	2.08	2.13	1.88	2.18	2.23	2.08	2.35	0.00	0.00	0.00	0.00	0.00	0	0	0	0	1.93	1.98	2.02
Firm Req. 000 MMBtu/Day	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gas Fired Technology	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO	YES	YES	YES

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**Base Case without TP6&7**

NOTE: Includes firm gas transportation of 400 MMCF/day starting in 2016 (this has not been allocated to any unit additions)

Year	Annual Discount Factor 7.290%	Generation Capital FPL (Millions)	Transmission Capital FPL (Millions)	Generation Fixed O&M (Millions)	Capital Replacement Charges (Millions)	Firm Gas Transport Costs (Millions)	Total Fixed Costs (Millions)	System Net Fuel (Millions)	Startup Costs (Millions)	Generation Var. O&M (Millions)	Emission Costs (Millions)	Transmission Losses (Millions)	Total VOM/Fuel Costs (Millions)	Total Annual Costs (Millions)	NPV Total Annual Cost (Millions)	NPV Cumulative Total Costs (Millions)
2011	1.000	0	0	0	0	0	0	3380	115	14	(10)	0	3,499	3,499	3,499	3,499
2012	0.932	0	0	0	0	0	0	3557	118	15	(4)	0	3,686	3,686	3,435	6,934
2013	0.869	0	0	0	0	0	0	3485	129	13	(7)	0	3,620	3,620	3,145	10,079
2014	0.810	0	0	0	0	0	0	3706	140	14	(7)	0	3,853	3,853	3,120	13,199
2015	0.755	0	0	0	0	0	0	3970	146	15	(7)	0	4,124	4,124	3,112	16,311
2016	0.703	105	9	7	0	288	410	4437	152	17	(8)	0	4,598	5,008	3,523	19,834
2017	0.656	175	15	7	13	288	499	4875	158	19	(8)	0	5,044	5,543	3,634	23,468
2018	0.611	169	14	8	2	288	482	5308	163	20	1,252	0	6,743	7,225	4,415	27,883
2019	0.570	163	14	8	55	288	528	5710	170	21	1,393	0	7,294	7,822	4,455	32,337
2020	0.531	275	23	19	18	288	624	6092	183	26	1,514	0	7,815	8,439	4,480	36,817
2021	0.495	348	30	16	20	288	703	6576	185	31	1,691	0	8,483	9,186	4,545	41,362
2022	0.461	461	39	26	37	288	852	7090	188	37	1,852	0	9,167	10,019	4,620	45,983
2023	0.430	662	57	36	96	288	1138	7645	194	47	2,026	0	9,912	11,051	4,750	50,732
2024	0.401	728	62	39	40	288	1159	8391	206	52	2,260	0	10,909	12,068	4,835	55,567
2025	0.373	838	71	54	110	288	1362	9276	219	59	2,470	0	12,024	13,385	4,998	60,565
2026	0.348	974	77	54	168	367	1641	9689	233	67	2,677	0	12,666	14,308	4,979	65,544
2027	0.324	1,133	74	69	64	529	1869	10019	244	76	2,937	0	13,276	15,145	4,913	70,457
2028	0.302	1,267	71	70	190	613	2211	10416	256	84	3,219	0	13,975	16,186	4,894	75,351
2029	0.282	1,426	68	94	188	783	2559	10763	268	92	3,507	0	14,630	17,189	4,844	80,194
2030	0.263	1,559	65	95	175	870	2765	11270	281	101	3,855	0	15,507	18,272	4,799	84,994
2031	0.245	1,637	63	110	175	960	2944	11772	294	108	4,022	0	16,196	19,140	4,686	89,679
2032	0.228	1,799	60	123	365	1143	3489	12451	304	119	4,282	0	17,156	20,645	4,711	94,390
2033	0.213	2,107	58	135	204	1425	3928	13574	318	138	4,716	0	18,746	22,674	4,822	99,212
2034	0.198	2,296	55	157	287	1521	4315	14281	329	152	4,983	0	19,745	24,060	4,769	103,981
2035	0.185	2,358	53	166	326	1620	4523	14801	345	160	5,172	0	20,478	25,001	4,619	108,600
2036	0.172	2,612	50	192	510	1923	5288	15880	363	178	5,598	0	22,019	27,306	4,702	113,302
2037	0.160	2,804	48	199	331	2027	5409	16572	375	191	5,866	0	23,004	28,412	4,560	117,862
2038	0.150	2,859	46	210	408	2133	5657	17125	390	201	6,087	0	23,803	29,460	4,407	122,268
2039	0.139	2,914	45	234	533	2242	5968	17780	406	212	6,341	0	24,739	30,706	4,281	126,550
2040	0.130	3,077	43	241	455	2466	6282	18415	425	225	6,596	0	25,661	31,943	4,151	130,701
2041	0.121	3,207	42	271	523	2580	6623	19026	444	236	6,856	0	26,562	33,185	4,019	134,720
2042	0.113	3,260	40	285	603	2698	6887	19746	461	247	7,144	0	27,598	34,484	3,893	138,613
2043	0.105	3,549	39	314	669	3059	7629	20840	478	268	7,585	0	29,171	36,800	3,872	142,485
2044	0.098	3,763	38	323	444	3182	7750	21747	500	284	7,948	0	30,479	38,229	3,749	146,235
2045	0.091	3,808	36	351	818	3308	8321	22517	524	297	8,271	0	31,609	39,930	3,650	149,885
2046	0.085	3,833	35	362	663	3438	8331	23352	543	311	8,613	0	32,819	41,150	3,506	153,390
2047	0.079	4,001	34	400	744	3703	8882	24192	565	327	8,951	0	34,035	42,918	3,408	156,798
2048	0.074	4,145	33	406	762	3839	9185	25054	590	342	9,316	0	35,302	44,487	3,293	160,091
2049	0.069	4,195	31	437	883	3979	9525	25935	613	358	9,684	0	36,590	46,115	3,181	163,272
2050	0.064	4,367	30	469	733	4265	9865	26841	637	375	10,063	0	37,916	47,780	3,072	166,344
Total NPV =		\$11,358	\$393	\$835	\$1,634	\$8,423	\$22,643	\$111,365	\$2,979	\$905	\$28,453	\$0	\$143,702	\$166,344	\$166,344	



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Escalation = 1.03

### Generation Capital Revenue Requirement Component

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Escalation = 1.03

Transmission Capital Revenue Requirement Component

Calculation Assumptions: Capacity (MW) Inservice year (COD)	XN1 J DF CC 2017	XN1 J DF CC 2018	XN1 J DF CC 2019	XN1 J DF CC 2020	XN1 J DF CC 2021	XN1 J DF CC 2017	XN1 J DF CC 2018	XN1 J DF CC 2019	XN1 J DF CC 2020	XN1 J DF CC 2021	XN1 H DF CC 2016	XN1 H DF CC 2022	XN1 H DF CC 2023	XN1 H DF CC 2020	XN1 H DF CC 2025	Return from IR	Return PPE2 from IR	Return PPE3 from IR	Return PPE4 from IR	Return PT2 from IR	Nuclear Uprate TP Units	Nuclear Uprate SL Units	Nuclear 2022	Nuclear 2023		2017 CC	2018 CC	2019 CC	2020 CC	2021 CC
	1347	1347	1347	1347	1347	894	894	894	894	894	1191	1191	1191	1191	1191	213	213	387	392	208	208	206	1100	1100		396	396	396	396	396
	2017	2018	2019	2020	2021	2017	2018	2019	2020	2021	2016	2022	2023	2020	2025	2018	2018	2018	2018	2018	2012	2012	2022	2023		2017	2018	2019	2020	2021
	Based on EDM file in Directory: G:\Common\1-IAI-4th qtr 2010 resource optimization\2-EDM Filename:					Based on EDM file in Directory: G:\Common\1-IAI-4th qtr 2010 resource optimization\2-EDM Filename:					Based on EDM file in Directory: G:\Common\1-IAI-SHL\2011\020111R-15r\5yrs H Tech\EDM Filename:															Based on EDM file in Directory: G:\Common\1-IAI-4th qtr 2010 resource optimization\2-EDM Filename:				
	XN1CCC Due1 Firing Transmission EDMLst					XN1CCC Due1 Firing Transmission EDMLst					XN1 H CC DF Tx EDMLst															XN1 H CC DF Tx EDMLst				
Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt
Year	Rev Reqt 000 \$	Rev Reqt 000 \$	Rev Reqt 000 \$	Rev Reqt 000 \$	Rev Reqt 000 \$	Rev Reqt 000 \$	Rev Reqt 000 \$	Rev Reqt 000 \$	Rev Reqt 000 \$	Rev Reqt 000 \$	Rev Reqt 000 \$	Rev Reqt 000 \$	Rev Reqt 000 \$	Rev Reqt 000 \$	Rev Reqt 000 \$	Rev Reqt 000 \$	Rev Reqt 000 \$	Rev Reqt 000 \$	Rev Reqt 000 \$	Rev Reqt 000 \$	Rev Reqt 000 \$	Rev Reqt 000 \$	Rev Reqt 000 \$	Rev Reqt 000 \$	Rev Reqt 000 \$	Rev Reqt 000 \$	Rev Reqt 000 \$	Rev Reqt 000 \$	Rev Reqt 000 \$	Rev Reqt 000 \$
2011	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2012	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2013	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2014	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2015	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2016	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2017	12.11	-	-	-	-	8.361	-	-	-	-	9.047	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2018	26.123	-	-	-	-	13.603	8.642	-	-	-	18.041	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2019	19.307	27.725	12.849	-	-	13.330	14.309	8.870	-	-	14.419	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2020	18.543	19.066	21.348	13.234	-	12.804	15.730	14.739	9.136	-	13.325	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2021	17.826	19.609	20.683	21.989	13.631	12.309	13.189	14.142	15.181	9.411	12.826	0	0	16.906	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2022	17.151	18.361	19.672	20.927	22.648	11.843	12.678	13.583	14.566	15.636	12.348	16.791	0	16.228	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2023	16.505	17.650	18.911	20.263	21.730	11.398	12.198	13.099	13.991	15.003	11.378	17.936	11.114	15.593	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2024	15.895	17.049	18.309	19.429	20.871	10.740	11.540	12.409	13.259	14.249	10.947	16.543	17.733	14.445	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2025	15.232	16.344	17.510	18.741	20.063	10.520	11.288	12.092	12.941	13.854	10.467	15.910	17.039	13.808	11.791	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2026	14.596	15.607	16.833	18.035	19.303	10.081	10.836	11.627	12.455	13.330	10.047	15.910	17.039	13.808	19.509	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2027	13.960	15.064	16.160	17.340	18.576	9.643	10.384	11.161	11.975	12.828	9.996	15.314	16.388	13.369	18.813	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2028	13.324	14.678	15.485	16.645	17.860	9.204	9.932	10.695	11.496	12.335	9.526	14.745	15.774	12.839	18.077	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2029	12.687	13.979	14.810	15.949	17.144	8.765	9.480	10.230	11.016	11.841	9.056	14.183	15.187	12.310	17.386	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2030	12.051	13.386	14.135	15.254	16.428	8.326	9.028	9.764	10.537	11.372	8.586	13.621	14.608	11.780	16.734	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2031	11.415	12.719	13.460	14.559	15.712	7.888	8.576	9.299	10.037	10.833	8.178	13.059	14.036	11.241	16.112	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2032	10.864	12.123	12.785	13.854	14.996	7.507	8.124	8.833	9.578	10.359	7.804	12.498	13.451	10.722	15.498	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2033	10.324	11.596	12.111	13.169	14.280	7.244	7.731	8.368	9.088	9.865	7.673	11.936	12.873	10.193	14.878	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2034	10.185	10.979	11.526	12.474	13.564	7.039	7.463	7.963	8.619	9.371	7.451	11.375	12.294	9.963	14.204	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2035	9.888	10.649	11.121	11.871	12.848	6.833	7.250	7.685	8.204	8.878	7.230	10.813	11.716	9.204	13.657	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2036	9.592	9.696	10.806	11.454	12.228	6.628	7.008	7.467	7.916	8.450	7.069	10.252	11.138	8.885	13.043	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2037	9.295	9.877	10.491	11.130	11.798	6.423	6.827	7.250	7.691	8.133	6.767	9.765	10.559	8.656	12.429	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2038	8.998	9.254	10.176	10.805	11.464	6.218	6.616	7.032	7.467	7.922	6.566	9.426	10.058	8.366	11.814	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2039	8.702	9.265	9.861	10.481	11.129	6.013	6.405	6.814	7.243	7.691	6.345	9.162	9.709	8.137	11.203	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2040	8.405	8.963	9.546	10.157	10.795	5.809	6.194	6.597	7.019	7.460	6.124	8.897	9.436	7.888	10.670	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2041	8.108	8.657	9.232	9.833	10.461	5.604	5.983	6.380	6.793	7.229	5.903	8.633	9.164	7.639	10.300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2042	7.813	8.453	8.917	9.509	10.128	5.407	5.782	6.162	6.571	6.999	5.682	8.369	8.892	7.390	10.011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2043	7.516	8.097	8.603	9.185	9.794	5.194	5.563	5.945	6.347	6.780	5.467	8.160	8.620	7.141	9.722	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2044	7.220	7.742	8.288	8.861	9.460	4.990	5.359	5.728	6.133	6.538	5.241	7.840	8.348	6.893	9.483	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2045	6.924	7.437	7.974	8.537	9.127	4.785	5.139	5.501	5.900	6.307	5.020	7.576	8.076	6.644	9.145	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2046	6.628	7.132	7.660	8.213	8.793	4.581	4.929	5.294	5.676	6.077	4.800	7.312	7.804	6.396	8.856	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2047	6.342	6.837	7.346	7.890	8.460	4.376	4.718	5.077	5.452	5.846	4.579	7.049	7.532	6.147	8.267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2048	6.036	6.521	7.032	7.566	8.132	4.172	4.507	4.860	5.229	5.616	4.359	6.783	7.260	5.899	8.379	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2049	5.741	6.215	6.718	7.243	7.793	3.967	4.297	4.643	5.005	5.386	4.149	6.521	6.988	5.650	7.991	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2050	5.479	5.943	6.404	6.919	7.460	3.786	4.086	4.426	4.782	5.156	3.919	6.258	6.717	5.402	7.762	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2051	5.240	5.643	6.090	6.596	7.127	3.622	3.900	4.209	4.539	4.925	3.699	5.995	6.446	5.154	7.414	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2052	5.002	5.338	5.812	6.273	6.794	3.457	3.730	4.017	4.333	4.695	3.479	5.731	6.174	4.906	7.126	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2053	4.764	5.032	5.560	5.987	6.461	3.292	3.564	3.842	4.137	4.465	3.259	5.468	5.903	4.638	6.838	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



## [Contd.]

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[illegible]



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Fixed O&M esc 0.025

	3X1 J DF CC 2017	3X1 J DF CC 2018	3X1 J DF CC 2019	3X1 J DF CC 2020	3X1 J DF CC 2021	3X1 J DF CC 2017	3X1 J DF CC 2018	3X1 J DF CC 2019	3X1 J DF CC 2020	3X1 J DF CC 2021	3X1 H DF CC 2016	3X1 H DF CC 2022	3X1 H DF CC 2023	3X1 H DF CC 2024	3X1 H DF CC 2025	Return PPE1 from IR 213	Return PPE2 from IR 213	Return PPE3 from IR 387	Return PPE4 from IR 392	Return PTP2 from IR 392	Nuclear Uprate TP Units 208	Nuclear Uprate SL Units 206	Nuclear 2022 1100	Nuclear 2023 1100	2017 CT 396	2018 CT 396	2019 CT 396	2020 CT 396	2021 CT 396	
Capacity (MW)	1347	1347	1347	1347	1347	894	894	894	894	894	1191	1191	1191	1191	1191															
In-service year (COD)	2017	2018	2019	2020	2021	2017	2018	2019	2020	2021	2016	2022	2023	2024	2025	2018	2018	2018	2018	2018	2012	2012	2022	2023	2017	2018	2019	2020	2021	
Based on E&C Matrix file in Directory: G:\Common-1-IA1-4th qtr 2010 resource optimization\1- assumptions\new units Filename: GreenField_1_Options_11052010_With_O&M and Transmission_Updates_Givenout_GO.xls Received on November 5, 2010											Based on E&C Matrix file in Directory: G:\Common-1-IA1-SH11.2011020111 IR-15yrs H Tech Assumptions\New Unit Filename: Greenfield_H_2016_02032011_Givenout_RAP.xls Received on February 3, 2010					Source of data provided on "Plus Input" tab Cells O27:T75														
Year	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	
2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2016	0	0	0	0	0	0	0	0	0	0	7,213	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2017	7,898	0	0	0	0	6,620	0	0	0	0	7,417	0	0	0	0	11,036	11,736	15,785	15,785	23,995	0	0	0	0	807	0	0	0	0	0
2018	8,096	8,096	0	0	0	6,785	6,785	0	0	0	8,486	0	0	0	0	5,548	4,826	5,496	5,496	3,263	0	0	0	0	827	827	0	0	0	0
2019	8,324	8,324	8,324	0	0	6,980	6,980	6,980	0	0	7,855	0	0	0	0	4,141	4,869	4,865	4,860	2,577	0	0	0	0	850	850	850	0	0	0
2020	9,460	9,460	9,460	9,460	0	7,709	7,709	7,709	7,709	0	10,566	0	0	7,962	0	4,141	4,869	4,865	4,860	2,577	0	0	0	0	851	851	851	851	0	0
2021	8,811	8,811	8,811	8,811	8,811	7,391	7,391	7,391	7,391	7,391	8,293	0	0	8,187	0	10,104	4,226	5,723	5,728	4,670	0	0	0	0	875	875	875	875	875	0
2022	11,674	11,674	11,674	11,674	11,674	9,167	9,167	9,167	9,167	9,167	8,528	8,365	0	9,366	0	4,372	5,130	5,126	7,751	2,742	0	0	0	0	900	900	900	900	900	0
2023	9,301	9,301	9,301	9,301	9,301	7,813	7,813	7,813	7,813	7,813	9,888	8,601	8,574	8,670	0	5,188	9,779	8,649	5,959	3,522	0	0	0	0	1,116	1,116	1,116	1,116	1,116	0
2024	9,563	9,563	9,563	9,563	9,563	8,037	8,037	8,037	8,037	8,037	9,017	9,841	8,817	11,663	0	5,341	4,517	6,131	6,131	3,624	0	0	0	0	951	951	951	951	951	0
2025	11,008	11,008	11,008	11,008	11,008	8,955	8,955	8,955	8,955	8,955	16,440	9,109	10,087	9,154	9,608	5,050	5,874	6,144	6,138	6,387	0	0	0	0	978	978	978	978	978	0
2026	10,109	10,109	10,109	10,109	10,109	8,503	8,503	8,503	8,503	8,503	9,535	12,253	9,337	9,413	9,263	5,599	4,742	6,430	8,463	3,779	0	0	0	0	1,006	1,006	1,006	1,006	1,006	0
2027	17,924	17,924	17,924	17,924	17,924	13,308	13,308	13,308	13,308	13,308	10,878	9,617	12,560	10,915	10,597	5,668	5,783	7,261	5,777	3,051	0	0	0	0	1,034	1,034	1,034	1,034	1,034	0
2028	10,687	10,687	10,687	10,687	10,687	8,997	8,997	8,997	8,997	8,997	10,699	9,889	9,858	9,953	9,810	5,870	5,016	6,743	6,743	3,941	0	0	0	0	1,063	1,063	1,063	1,063	1,063	0
2029	12,115	12,115	12,115	12,115	12,115	9,916	9,916	9,916	9,916	9,916	10,385	11,467	10,137	18,147	13,196	6,043	5,111	6,937	6,937	5,616	0	0	0	0	1,955	1,955	1,955	1,955	1,955	0
2030	11,314	11,314	11,314	11,314	11,314	9,528	9,528	9,528	9,528	9,528	13,866	10,457	11,754	10,525	10,357	5,234	6,167	6,151	9,341	3,183	0	0	0	0	1,124	1,124	1,124	1,124	1,124	0
2031	11,633	11,633	11,633	11,633	11,633	9,801	9,801	9,801	9,801	9,801	10,966	19,066	10,719	12,007	10,650	6,335	5,365	7,274	7,274	4,230	0	0	0	0	1,156	1,156	1,156	1,156	1,156	0
2032	15,309	15,309	15,309	15,309	15,309	12,083	12,083	12,083	12,083	12,083	12,475	11,058	19,542	11,147	12,349	5,573	7,047	10,734	7,375	4,247	0	0	0	0	1,189	1,189	1,189	1,189	1,189	0
2033	12,281	12,281	12,281	12,281	12,281	10,362	10,362	10,362	10,362	10,362	11,927	12,615	11,335	11,463	11,261	12,667	5,633	7,629	7,629	7,857	0	0	0	0	1,222	1,222	1,222	1,222	1,222	0
2034	14,096	14,096	14,096	14,096	14,096	11,519	11,519	11,519	11,519	11,519	11,926	11,711	12,931	15,305	20,331	6,837	5,783	7,849	10,496	4,545	0	0	0	0	1,257	1,257	1,257	1,257	1,257	0
2035	12,984	12,984	12,984	12,984	12,984	10,965	10,965	10,965	10,965	10,965	21,439	12,043	12,004	12,104	11,908	5,915	7,015	6,998	6,952	3,558	0	0	0	0	1,308	1,308	1,308	1,308	1,308	0
2036	13,351	13,351	13,351	13,351	13,351	11,280	11,280	11,280	11,280	11,280	12,612	16,080	12,344	13,990	13,585	7,168	6,070	8,231	8,231	4,742	0	0	0	0	1,329	1,329	1,329	1,329	1,329	0
2037	23,367	23,367	23,367	23,367	23,367	17,442	17,442	17,442	17,442	17,442	14,343	12,717	16,482	12,801	12,612	6,210	7,307	7,299	7,299	6,660	0	0	0	0	1,367	1,367	1,367	1,367	1,367	0
2038	14,115	14,115	14,115	14,115	14,115	11,936	11,936	11,936	11,936	11,936	13,358	14,699	13,035	13,164	12,969	7,563	6,373	8,630	7,679	4,948	0	0	0	0	1,405	1,405	1,405	1,405	1,405	0
2039	15,956	15,956	15,956	15,956	15,956	13,125	13,125	13,125	13,125	13,125	17,717	13,449	15,066	23,665	17,316	7,735	7,540	13,867	8,879	5,096	0	0	0	0	1,445	1,445	1,445	1,445	1,445	0
2040	14,944	14,944	14,944	14,944	14,944	12,641	12,641	12,641	12,641	12,641	14,007	13,830	13,785	13,922	13,695	7,400	8,593	9,044	9,044	9,251	0	0	0	0	1,486	1,486	1,486	1,486	1,486	0
2041	19,547	19,547	19,547	19,547	19,547	15,505	15,505	15,505	15,505	15,505	16,254	24,863	14,176	15,832	15,829	8,109	6,808	9,312	9,312	5,321	0	0	0	0	1,826	1,826	1,826	1,826	1,826	0
2042	15,779	15,779	15,779	15,779	15,779	13,366	13,366	13,366	13,366	13,366	14,920	14,626	25,484	14,745	14,483	7,026	8,267	8,259	8,259	4,159	0	0	0	0	1,877	1,877	1,877	1,877	1,877	0
2043	18,059	18,059	18,059	18,059	18,059	14,823	14,823	14,823	14,823	14,823	26,523	16,634	14,992	19,556	14,894	11,808	7,210	13,071	9,765	5,555	0	0	0	0	1,616	1,616	1,616	1,616	1,616	0
2044	16,684	16,684	16,684	16,684	16																									



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Fixed O&M Costs (By Generator)

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2022 CT	2023 CT	2024 CT	2025 CT	2024 Filler	2025 Filler	2026 Filler	2027 Filler	2028 Filler	2029 Filler	2030 Filler	2031 Filler	2032 Filler	2033 Filler	2034 Filler	2035 Filler	2036 Filler	2037 Filler	2038 Filler	2039 Filler	2040 Filler	2041 Filler	2042 Filler	2043 Filler	2044 Filler	2045 Filler	2046 Filler	2047 Filler	2048 Filler	2049 Filler	2050 Filler
396	396	396	396	596	596	596	596	596	596	596	596	596	596	596	596	596	596	596	596	596	596	596	596	596	596	596	596	596	596	596
2022	2023	2024	2025	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Using prorated (50%) costs of 3x1 H CC 3x1 H CC costs in column L.																														
Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0</														



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Fixed O&M Cost Component

		3X1 J DF CC 2017	3X1 J DF CC 2018	3X1 J DF CC 2019	3X1 J DF CC 2020	3X1 J DF CC 2021	2X1 J DF CC 2017	2X1 J DF CC 2018	2X1 J DF CC 2019	2X1 J DF CC 2020	2X1 J DF CC 2021	3X1 H DF CC 2016	3X1 H DF CC 2022	3X1 H DF CC 2023	3X1 H DF CC 2020	3X1 H DF CC 2025	Return PPE1 from IR	Return PPE2 from IR	Return PPE3 from IR	Return PPE4 from IR	Return PTP2 from IR	Nuclear Uprate TP Units	Nuclear Uprate SL Units	Nuclear 2022	Nuclear 2023	2017 CT	2018 CT	2019 CT	2020 CT	2021 CT	
	# of Units	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
Total Impact on Portfolio (\$M)																															
Year		(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)
2011	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2012	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2013	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2014	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2015	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2016	\$7	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,213	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2017	\$7	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,417	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2018	\$8	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,486	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2019	\$8	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,855	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2020	\$19	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,566	\$0	\$0	\$7,962	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2021	\$16	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,293	\$0	\$0	\$8,187	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2022	\$26	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,528	\$8,365	\$0	\$9,366	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2023	\$36	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,888	\$8,601	\$8,574	\$8,670	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2024	\$39	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,017	\$9,841	\$8,817	\$11,663	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2025	\$54	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16,440	\$9,109	\$10,087	\$9,154	\$9,008	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2026	\$54	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,535	\$12,253	\$9,337	\$9,413	\$9,263	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2027	\$69	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,878	\$9,617	\$12,560	\$10,915	\$10,597	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2028	\$70	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,099	\$9,889	\$9,858	\$9,953	\$9,810	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2029	\$94	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,385	\$11,467	\$10,137	\$18,147	\$13,196	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2030	\$95	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,866	\$10,457	\$11,754	\$10,525	\$10,357	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2031	\$110	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,966	\$19,066	\$10,719	\$12,007	\$10,650	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2032	\$123	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,675	\$11,058	\$19,542	\$11,147	\$12,349	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2033	\$135	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,597	\$12,615	\$11,335	\$11,463	\$11,261	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2034	\$157	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,926	\$11,711	\$12,931	\$15,305	\$20,531	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2035	\$166	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$21,439	\$12,043	\$12,004	\$12,104	\$11,908	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2036	\$192	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,612	\$16,080	\$12,344	\$13,990	\$13,585	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2037	\$199	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,343	\$12,717	\$16,482	\$12,801	\$12,612	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2038	\$210	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,358	\$14,699	\$13,035	\$13,164	\$12,969	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2039	\$234	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$17,717	\$13,449	\$15,066	\$23,665	\$17,316	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2040	\$241	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,107	\$13,830	\$13,785	\$13,922	\$13,695	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2041	\$271	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16,254	\$24,863	\$14,176	\$15,832	\$15,829	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2042	\$285	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,920	\$14,626	\$25,484	\$14,745	\$14,483	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2043	\$314	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$26,523	\$16,634	\$14,992	\$19,556	\$14,894	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2044	\$323	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$15,780	\$15,491	\$17,049	\$15,571	\$26,774	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2045	\$351	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$17,901	\$20,546	\$15,879	\$17,941	\$15,751	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2046	\$362	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$18,349	\$16,360	\$21,059	\$16,469	\$17,912	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2047	\$400	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$18,808	\$18,849	\$16,769	\$20,276	\$16,682	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2048	\$406	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$19,278	\$17,303	\$19,320	\$17,418	\$22,126	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2049	\$437	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$19,760	\$30,758	\$17,735	\$19,760	\$17,618	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2050	\$469	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20,254	\$18,300	\$31,527	\$20,254	\$20,298	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2051	\$469	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20,760	\$20,760	\$18,758	\$20,760	\$18,633	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2052	\$522	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$21,279	\$21,279	\$21,279	\$21,279	\$33,123	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2053	\$493	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$21,811	\$21,811	\$21,811	\$21,811	\$19,707	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2054	\$527	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22,356	\$22,356	\$22,356	\$22,356	\$22,356	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2055	\$538	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22,915	\$22,915	\$22,915	\$22,915	\$22,915	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2056	\$559	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$23,488	\$23,488	\$23,488	\$23,488	\$23,488	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2057	\$563	\$0	\$0	\$0	\$0	\$0	\$0	\$0																							

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	3X1 J DF CC 2017	3X1 J DF CC 2018	3X1 J DF CC 2019	3X1 J DF CC 2020	3X1 J DF CC 2021	2X1 J DF CC 2017	2X1 J DF CC 2018	2X1 J DF CC 2019	2X1 J DF CC 2020	2X1 J DF CC 2021	3X1 H DF CC 2016	3X1 H DF CC 2017	3X1 H DF CC 2018	3X1 H DF CC 2020	3X1 H DF CC 2025	Return PPE1 from IR	Return PPE2 from IR	Return PPE3 from IR	Return PPE4 from IR	Return PTP2 from IR	Nuclear Upate TP Units	Nuclear Upate SL Units	Nuclear 2022 1100	Nuclear 2023 2023	2017 CT	2018 CT	2019 CT	2020 CT	2021 CT	
Capacity (MW)	1347	1347	1347	1347	1347	894	894	894	894	894	1191	1191	1191	1191	1191	218	218	218	387	392	392	208	206	1100	2023	2017	2018	2019	2020	2021
In-service year (COD)	2017	2018	2019	2020	2021	2017	2018	2019	2020	2021	2016	2022	2023	2020	2025	2018	2018	2018	2018	2018	2012	2012	2022	2023	2017	2018	2019	2020	2021	
Based on E&C Matrix file in Directory: G:\Common\1-1\1-1-4th qtr 2010 resource optimization\1- assumptions\new units Filename: GreenField_J_Options_11052010_With_O&M and Transmission_Updates_Givenout_GO.xls Received on November 5, 2010																														
Values escalated assuming 5-year cycle from 2048 - 2060																														
Year	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)
2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0
2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0
2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0
2015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0
2016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0
2017	0	0	0	0	0	0	0	0	0	0	12,992	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0
2018	11,210	11,210	0	0	0	9,867	0	0	0	0	2,134	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0
2019	13,143	16,099	0	0	0	13,559	0	0	0	0	18,034	0	0	0	0	0	-	-	-	-	0	0	0	0	0	0	0	0	0	0
2020	74,281	18,472	11,787	0	0	40,477	3,44																							

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Capital Replacement Cost Component

	# of Units	3X1 J DF CC 2017	3X1 J DF CC 2018	3X1 J DF CC 2019	3X1 J DF CC 2020	3X1 J DF CC 2021	2X1 J DF CC 2017	2X1 J DF CC 2018	2X1 J DF CC 2019	2X1 J DF CC 2020	2X1 J DF CC 2021	3X1 H DF CC 2016	3X1 H DF CC 2022	3X1 H DF CC 2023	3X1 H DF CC 2020	3X1 H DF CC 2025	Return PPE1 from IR	Return PPE2 from IR	Return PPE3 from IR	Return PPE4 from IR	Return PTP2 from IR	Nuclear Upstate TP Units	Nuclear Upstate SL Units	Nuclear 2022	Nuclear 2023	2017 CT	2018 CT	2019 CT	2020 CT	2021 CT	
		0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
Total Impact on Portfolio (\$M)																															
Year		(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)
2011	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2012	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2013	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2014	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2015	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2016	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2017	\$13	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,992	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2018	\$2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,134	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2019	\$55	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$54,752	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2020	\$18	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$18,034	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2021	\$20	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,809	\$0	\$0	\$14,341	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2022	\$37	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$34,682	\$0	\$0	\$2,355	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2023	\$96	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20,219	\$15,067	\$0	\$60,436	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2024	\$40	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,650	\$2,475	\$15,443	\$19,906	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2025	\$110	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$37,179	\$63,496	\$2,536	\$6,412	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2026	\$168	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$27,976	\$20,914	\$65,083	\$38,283	\$16,225	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2027	\$64	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$2,541	\$6,736	\$21,437	\$22,318	\$2,665	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2028	\$190	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$53,447	\$40,221	\$6,905	\$2,925	\$68,378	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2029	\$188	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,792	\$23,448	\$41,227	\$41,039	\$22,522	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2030	\$175	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,018	\$3,073	\$24,034	\$30,880	\$7,254	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2031	\$175	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,741	\$43,116	\$3,150	\$2,804	\$43,314	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2032	\$365	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$75,525	\$32,443	\$44,194	\$58,995	\$25,251	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2033	\$204	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,445	\$2,946	\$33,254	\$14,120	\$3,309	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2034	\$287	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22,734	\$61,982	\$3,020	\$7,747	\$46,431	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2035	\$326	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,218	\$14,834	\$63,531	\$7,441	\$34,938	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2036	\$510	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,294	\$8,139	\$15,205	\$83,365	\$3,173	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2037	\$331	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,498	\$7,818	\$8,343	\$3,802	\$66,748	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2038	\$408	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,891	\$87,586	\$8,013	\$25,094	\$15,975	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2039	\$533	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,555	\$3,995	\$89,775	\$3,552	\$8,765	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2040	\$455	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$337	\$26,364	\$4,095	\$122,848	\$8,419	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2041	\$523	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$60,618	\$3,732	\$27,023	\$12,692	\$94,320	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2042	\$603	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22,736	\$129,067	\$3,825	\$9,814	\$4,302	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2043	\$669	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,462	\$13,334	\$132,293	\$5,027	\$28,391	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2044	\$444	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,858	\$10,311	\$13,668	\$372	\$4,019	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2045	\$818	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$42,327	\$5,282	\$10,568	\$66,911	\$138,991	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2046	\$663	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$69	\$391	\$5,414	\$25,096	\$14,360	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2047	\$744	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$62,133	\$70,298	\$401	\$15,964	\$11,103	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2048	\$762	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$23,304	\$26,367	\$72,056	\$4,258	\$5,688	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2049	\$883	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,824	\$16,772	\$27,026	\$46,722	\$421	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2050	\$733	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$3,954	\$4,474	\$17,191	\$76	\$75,704	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2051	\$805	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$43,386	\$49,087	\$4,585	\$68,584	\$28,394	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2052	\$1,004	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$70	\$80	\$50,314	\$25,723	\$18,061	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2053	\$1,069	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$63,687	\$72,056	\$82	\$16,363	\$4,818	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2054	\$846	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$23,887	\$27,026	\$73,857	\$4,364	\$52,861	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2055	\$784	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$15,194	\$17,191	\$27,701	\$47,890	\$86	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2056	\$1,026	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,053	\$4,585	\$17,621	\$78	\$77,596	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2057	\$869	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0																					

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[illegible]



[Contd.]

[illegible]



## **ATTACHMENT 4**



Input Data in all Shaded Cells

This is the capacity for 2 combust

Paste input data into lines below:

	3X1 J DF CC 2017	3X1 J DF CC 2018	3X1 J DF CC 2019	3X1 J DF CC 2020	3X1 J DF CC 2021	2X1 J DF CC 2017	2X1 J DF CC 2018	2X1 J DF CC 2019	2X1 J DF CC 2020	2X1 J DF CC 2021	3X1 H DF CC 2016	3X1 H DF CC 2018	3X1 H DF CC 2019	3X1 H DF CC 2021	3X1 H DF CC 2025	Return PPE1 from IR	Return PPE2 from IR	Return PPE3 from IR	Return PPE4 from IR	Return PTP2 from IR	Nuclear Uprate TP Units	Nuclear Uprate SL Units	Nuclear 2022 1100	Nuclear 2023 1100	2017 CT 396	2018 CT 396	2019 CT 396
Capacity (MW)	1347	1347	1347	1347	1347	894	894	894	894	894	1191	1191	1191	1191	1191	213	213	387	392	392	208	206	1100	1100	396	396	396
No. of Units	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0
Year COD	2017	2018	2019	2020	2021	2017	2018	2019	2020	2021	2016	2018	2019	2021	2025	2019	2019	2017	2016	2020	2012	2012	2022	2023	2017	2018	2019
Startmonth	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Ref Year \$	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2007	2007	2022	2023	2018	2018	2018
Gas Transp Cost (\$/MMBtu)	1.93	1.98	2.02	2.08	2.13	1.93	1.98	2.02	2.08	2.13	1.88	1.98	2.02	2.13	2.35	0.00	0.00	0.00	0.00	0.00	0	0	0	0	1.93	1.98	2.02
Firm Req. 000 MMBtu/Day	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gas Fired Technology	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO	YES	YES	YES



ation turbines

[illegible]



**IR15 + CC 3x1 H df (15 year IR units)**

NOTE: Includes firm gas transportation of 400 MMCF/day starting in 2016 (this has not been allocated to any unit additions)

Year	Annual Discount Factor	Generation Capital FPL (Millions)	Transmission Capital FPL (Millions)	Generation Fixed O&M (Millions)	Capital Replacement Charges (Millions)	Firm Gas Transport Costs (Millions)	Total Fixed Costs (Millions)	System Net Fuel (Millions)	Startup Costs (Millions)	Generation Var. O&M (Millions)	Emission Costs (Millions)	Transmission Losses (Millions)	Total VOM/Fuel Costs (Millions)	Total Annual Costs (Millions)	NPV Total Annual Cost (Millions)	NPV Cumulative Total Costs (Millions)
	7.290%															
2011	1.000	0	0	0	0	0	0	3380	115	14	(10)	0	3,499	3,499	3,499	3,499
2012	0.932	0	0	0	0	0	0	3557	118	15	(4)	0	3,686	3,686	3,435	6,934
2013	0.869	0	0	0	0	0	0	3485	129	13	(7)	0	3,620	3,620	3,145	10,079
2014	0.810	0	0	0	0	0	0	3706	140	14	(7)	0	3,853	3,853	3,120	13,199
2015	0.755	0	0	0	0	0	0	3970	146	15	(7)	0	4,124	4,124	3,112	16,311
2016	0.703	32	0	15	0	288	335	4525	155	12	(7)	0	4,685	5,020	3,531	19,842
2017	0.656	44	0	19	0	288	351	4996	161	11	(6)	0	5,162	5,513	3,614	23,456
2018	0.611	21	0	13	0	288	322	5430	166	12	1,276	0	6,884	7,206	4,404	27,860
2019	0.570	111	0	35	0	288	434	5843	175	13	1,422	0	7,453	7,887	4,492	32,352
2020	0.531	174	0	45	0	288	508	6375	188	13	1,571	0	8,147	8,655	4,594	36,946
2021	0.495	189	10	34	0	288	521	6778	189	19	1,737	0	8,723	9,245	4,574	41,520
2022	0.461	299	17	56	15	288	675	6959	191	23	1,817	0	8,990	9,665	4,457	45,977
2023	0.430	208	17	35	2	288	551	6918	197	22	1,832	0	8,969	9,520	4,092	50,069
2024	0.401	220	16	42	62	288	628	7425	208	23	2,004	0	9,660	10,288	4,121	54,190
2025	0.373	371	27	47	20	288	754	8141	217	29	2,173	0	10,560	11,314	4,225	58,415
2026	0.348	482	34	52	23	367	959	8547	232	36	2,353	0	11,168	12,127	4,220	62,636
2027	0.324	670	33	65	50	529	1348	8942	244	45	2,602	0	11,833	13,181	4,276	66,911
2028	0.302	819	32	70	110	613	1643	9257	258	53	2,843	0	12,411	14,054	4,249	71,160
2029	0.282	989	31	83	72	783	1957	9591	270	62	3,102	0	13,025	14,982	4,222	75,382
2030	0.263	1,138	29	97	152	870	2286	10112	284	70	3,433	0	13,899	16,185	4,251	79,633
2031	0.245	1,244	28	93	151	960	2477	10539	297	76	3,571	0	14,483	16,960	4,152	83,785
2032	0.228	1,411	27	97	156	1143	2835	11193	308	87	3,818	0	15,406	18,241	4,162	87,947
2033	0.213	1,738	26	117	211	1425	3515	12335	320	106	4,256	0	17,017	20,533	4,367	92,314
2034	0.198	1,944	25	122	206	1521	3817	12967	332	118	4,493	0	17,910	21,727	4,307	96,620
2035	0.185	2,208	24	130	245	1719	4326	13407	348	130	4,653	0	18,538	22,864	4,224	100,844
2036	0.172	2,603	23	155	310	2022	5113	14489	363	151	5,075	0	20,078	25,191	4,338	105,182
2037	0.160	2,800	22	163	386	2126	5497	15106	375	163	5,313	0	20,957	26,454	4,246	109,428
2038	0.150	2,860	21	175	326	2232	5614	15636	390	172	5,519	0	21,717	27,331	4,088	113,516
2039	0.139	2,920	20	186	471	2341	5939	16309	405	183	5,778	0	22,675	28,614	3,990	117,506
2040	0.130	3,089	19	216	309	2565	6199	16843	424	195	5,996	0	23,458	29,657	3,854	121,360
2041	0.121	3,224	18	221	572	2679	6715	17431	445	205	6,242	0	24,323	31,038	3,759	125,119
2042	0.113	3,282	18	239	467	2796	6803	18176	459	217	6,533	0	25,385	32,188	3,634	128,753
2043	0.105	3,576	17	258	516	3157	7525	19180	480	235	6,937	0	26,832	34,357	3,615	132,368
2044	0.098	3,792	17	293	451	3281	7833	20043	499	251	7,280	0	28,073	35,905	3,521	135,889
2045	0.091	3,838	16	302	715	3407	8279	20730	524	263	7,562	0	29,079	37,358	3,415	139,304
2046	0.085	3,887	16	316	703	3537	8459	21507	542	276	7,876	0	30,201	38,659	3,294	142,598
2047	0.079	4,070	15	341	664	3802	8892	22288	562	291	8,200	0	31,341	40,233	3,195	145,793
2048	0.074	4,212	15	371	662	3938	9198	23100	588	305	8,534	0	32,527	41,725	3,088	148,881
2049	0.069	4,260	14	378	787	4078	9518	23947	610	319	8,886	0	33,762	43,280	2,986	151,866
2050	0.064	4,456	14	408	761	4364	10002	24811	633	336	9,243	0	35,023	45,025	2,895	154,761
Total NPV =		\$9,308	\$144	\$798	\$1,182	\$8,605	\$20,037	\$104,917	\$2,999	\$700	\$26,108	\$0	\$134,725	\$154,761	\$154,761	



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Escalation = 1.0%						Generation Capital Revenue Requirement Component																												
Calculation Assumptions: Capacity (MW) Isocost curve (C/D)	3X1 J.D.F CC 2017	3X1 J.D.F CC 2018	3X1 J.D.F CC 2019	3X1 J.D.F CC 2020	3X1 J.D.F CC 2021	2X1 J.D.F CC 2017	2X1 J.D.F CC 2018	2X1 J.D.F CC 2019	2X1 J.D.F CC 2020	2X1 J.D.F CC 2021	3X1 H.D.F CC 2016	3X1 H.D.F CC 2018	3X1 H.D.F CC 2019	3X1 H.D.F CC 2021	3X1 H.D.F CC 2022	Return PPE1 From IR	Return PPE2 From IR	Return PPE3 From IR	Return PPE4 From IR	Return PPE2 From IR	Nuclear TP Units	Nuclear Updte SL Units	Nuclear 2022	Nuclear 2023	2017 CT	2018 CT	2019 CT	2020 CT	2021 CT					
	1347	1347	1347	1347	1347	894	894	894	894	894	1191	1191	1191	1191	1191	2019	2019	2019	2016	2020	208	206	1100	1100	396	396	396	396	396					
	2017	2018	2019	2020	2021	2017	2018	2019	2020	2021	2016	2018	2019	2020	2021	2019	2019	2019	2016	2020	208	206	1100	1100	2023	2017	2018	2019	2020	2021				
G:\Common\1-IA1-4th qtr 2010 resource optimization2- EDM Filename:						G:\Common\1-IA1-4th qtr 2010 resource optimization2- EDM Filename:						Based on EDM file in Directory: G:\Common\1-IA1-SHL2011020111R-15hrs H Tech\EDM Filename:						Source of data provided on "Plan Input" tab Cells I27-N75 Data is automatically calculated.						Based on EDM file in Directory: G:\Common\1-IA1-4th qtr 2010 resource optimization2- EDM Filename:										
3X1CCJ Duct Firing Generation EDM.xls						2X1CCJ Duct Firing Generation EDM.xls						3X1 H CC DF Gen EDM.xls												2X0 SC 7FA.05 Generation EDM.xls										
	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt	Annual Rev Reqt					
Year	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$					
2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
2017	119,221	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
2018	198,684	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
2019	191,289	204,645	126,482	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
2020	184,167	797,027	210,784	130,276	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
2021	177,800	590,693	209,398	217,108	134,185	124,360	133,003	142,366	132,319	94,148	156,699	179,223	121,670	0	0	163	163	4,567	20,739	148,525	-	-	-	-	-	-	-	-	-					
2022	170,666	182,019	209,398	209,266	223,621	119,698	128,091	137,055	146,637	156,389	145,262	162,238	177,789	203,343	0	30,183	35,385	530	740	-	-	-	-	-										



[Contd.]

[illegible]



### Transmission Capital Revenue Requirement Component

[illegible]



[Contd.]

[illegible]



[illegible]



[illegible]



## Transmission Capital Revenue Requirement Component

[illegible]



[illegible]



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Capacity (MW)	3X1 J DF CC 2017	3X1 J DF CC 2018	3X1 J DF CC 2019	3X1 J DF CC 2020	3X1 J DF CC 2021	2X1 J DF CC 2017	2X1 J DF CC 2018	2X1 J DF CC 2019	2X1 J DF CC 2020	2X1 J DF CC 2021	3X1 H DF CC 2016	3X1 H DF CC 2018	3X1 H DF CC 2019	3X1 H DF CC 2021	3X1 H DF CC 2025	Return PPE1 from IR 213	Return PPE2 from IR 213	Return PPE3 from IR 387	Return PPE4 from IR 392	Return PTP2 from IR 392	Nuclear Uprate TP Units 208	Nuclear Uprate SL Units 206	Nuclear 1100	Nuclear 2023 1100	2017 CT 396	2018 CT 396	2019 CT 396	2020 CT 396	2021 CT 396							
	2017	2018	2019	2020	2021	2017	2018	2019	2020	2021	2016	2018	2019	2021	2025	2019	2019	2017	2016	2020	2012	2012	2022	2023	2017	2018	2019	2020	2021							
In-service year (COD)	2017	2018	2019	2020	2021	2017	2018	2019	2020	2021	2016	2018	2019	2021	2025	2019	2019	2017	2016	2020	2012	2012	2022	2023	2017	2018	2019	2020	2021							
Based on E&C Matrix file in Directory: G:\Common\1-A1-1-4th qtr 2010 resource optimization 1- assumptions\acw units Filename: GreenField_1_Options_11052010_With_O&M and Transmission_Updates_Givemout_GO.xls Received on: November 5, 2010											Based on E&C Matrix file in Directory: G:\Common\1-A1-1-SH1-1-4th qtr 2010 resource optimization 1- assumptions\acw units Filename: Greenfield_H_2016_82032011_Givemout_RAP.xls Received on: February 3, 2010											Source of data provided on "Plan Input" tab Cells C27:175 Assumptions-New Unit														
Year	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)							
2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0						
2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0						
2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0						
2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0						
2015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0						
2016	0	0	0	0	0	0	0	0	0	0	7,213	0	0	0	0	-	-	-	-	14,738	0	0	0	0	0	0	0	0	0	0						
2017	7,898	0	0	0	0	6,620	0	0	0	0	7,417	0	0	0	0	-	-	-	15,107	4,241	0	0	0	0	807	0	0	0	0	0						
2018	8,096	8,096	0	0	0	6,785	6,785	0	0	0	8,486	7,578	0	0	0	-	-	-	4,347	8,397	0	0	0	0	827	827	0	0	0	0						
2019	8,324	8,324	8,324	0	0	6,980	6,980	6,980	0	0	7,855	7,793	7,768	0	0	11,004	11,004	8,612	4,422	0	0	0	0	850	850	850	0	0	0	0						
2020	9,460	9,460	9,460	9,460	0	7,709	7,709	7,709	0	0	10,566	9,915	9,138	7,987	0	4,621	4,621	4,528	7,354	2,376	0	0	0	0	851	851	851	851	851	851						
2021	8,811	8,811	8,811	8,811	8,811	7,391	7,391	7,391	7,391	7,391	8,293	8,252	9,138	8,161	0	6,404	6,404	4,977	5,552	2,335	0	0	0	0	875	875	875	875	875	875						
2022	11,674	11,674	11,674	11,674	11,674	9,167	9,167	9,167	9,167	9,167	8,528	11,101	8,459	8,392	0	9,247	3,998	8,315	5,690	20,527	0	0	0	0	900	900	900	900	900	900						
2023	9,301	9,301	9,301	9,301	9,301	7,813	7,813	7,813	7,813	7,813	9,988	8,713	11,379	9,601	0	4,456	5,174	5,833	6,506	3,769	0	0	0	0	1,116	1,116	1,116	1,116	1,116	1,116						
2024	9,563	9,563	9,563	9,563	9,563	8,037	8,037	8,037	8,037	8,037	9,017	8,959	8,930	8,887	0	5,189	9,985	6,674	7,915	2,855	0	0	0	0	951	951	951	951	951	951						
2025	11,008	11,008	11,008	11,008	11,008	8,955	8,955	8,955	8,955	8,955	16,440	10,389	9,183	11,955	9,008	5,319	4,584	6,129	6,199	3,568	0	0	0	0	1,006	1,006	1,006	1,006	1,006	1,006						
2026	10,109	10,109	10,109	10,109	10,109	8,503	8,503	8,503	8,503	8,503	9,535	9,474	10,649	9,383	9,263	5,802	5,138	7,802	6,282	3,648	0	0	0	0	1,006	1,006	1,006	1,006	1,006	1,006						
2027	17,924	17,924	17,924	17,924	17,924	13,308	13,308	13,308	13,308	13,308	10,878	12,772	9,711	9,648	10,597	5,588	4,815	6,439	6,439	7,443	0	0	0	0	1,034	1,034	1,034	1,034	1,034	1,034						
2028	10,687	10,687	10,687	10,687	10,687	8,997	8,997	8,997	8,997	8,997	10,099	10,018	17,704	11,188	9,810	6,564	5,012	6,690	6,599	1,816	0	0	0	0	1,063	1,063	1,063	1,063	1,063	1,063						
2029	12,115	12,115	12,115	12,115	12,115	9,916	9,916	9,916	9,916	9,916	10,585	11,262	10,269	10,202	13,196	5,871	5,098	6,770	6,764	3,979	0	0	0	0	1,063	1,063	1,063	1,063	1,063	1,063						
2030	11,634	11,634	11,634	11,634	11,634	9,528	9,528	9,528	9,528	9,528	13,066	10,610	11,714	18,601	10,357	6,018	5,186	6,933	7,812	3,990	0	0	0	0	1,124	1,124	1,124	1,124	1,124	1,124						
2031	11,633	11,633	11,633	11,633	11,633	9,801	9,801	9,801	9,801	9,801	10,966	10,911	10,875	10,788	10,650	6,174	5,321	8,008	-	5,720	0	0	0	0	1,124	1,124	1,124	1,124	1,124	1,124						
2032	15,309	15,309	15,309	15,309	15,309	12,085	12,085	12,085	12,085	12,085	12,675	14,568	11,183	12,307	12,349	6,322	5,448	-	-	4,173	0	0	0	0	1,189	1,189	1,189	1,189	1,189	1,189						
2033	12,281	12,281	12,281	12,281	12,281	10,362	10,362	10,362	10,362	10,362	11,597	11,521	14,932	11,426	11,261	6,567	6,187	-	-	4,269	0	0	0	0	1,222	1,222	1,222	1,222	1,222	1,222						
2034	14,096	14,096	14,096	14,096	14,096	11,519	11,519	11,519	11,519	11,519	11,926	13,316	11,809	11,750	20,531	-	-	-	-	5,337	0	0	0	0	1,257	1,257	1,257	1,257	1,257	1,257						
2035	12,984	12,984	12,984	12,984	12,984	10,965	10,965	10,965	10,965	10,965	21,439	12,184	13,649	15,688	11,908	-	-	-	-	-	0	0	0	0	1,308	1,308	1,308	1,308	1,308	1,308						
2036	13,351	13,351	13,351	13,351	13,351	11,280	11,280	11,280	11,280	11,280	12,612	12,529	12,488	12,407	13,585	-	-	-	-	-	0	0	0	0	1,329	1,329	1,329	1,329	1,329	1,329						
2037	23,367	23,367	23,367	23,367	23,367	17,442	17,442	17,442	17,442	17,442	14,343	22,524	12,843	14,340	12,612	-	-	-	-	-	0	0	0	0	1,367	1,367	1,367	1,367	1,367	1,367						
2038	14,115	14,115	14,115	14,115	14,115	11,936	11,936	11,936	11,936	11,936	13,358	13,251	23,087	13,121	12,969	-	-	-	-	-	0	0	0	0	1,405	1,405	1,405	1,405	1,405	1,405						
2039	15,956	15,956	15,956	15,956	15,956	13,125	13,125	13,125	13,125	13,125	17,717	15,669	13,582	13,493	17,316	-	-	-	-	-	0	0	0	0	1,445	1,445	1,445	1,445	1,445	1,445						
2040	14,944	14,944	14,944	14,944	14,944	12,641	12,641	12,641	12,641	12,641	14,107	14,034	15,446	24,256	13,695	-	-	-	-	-	0	0	0	0	1,486	1,486	1,486	1,486	1,486	1,486						
2041	19,547	19,547	19,547	19,547	19,547	15,505	15,505	15,505	15,505	15,505	16,254	18,613	14,385	14,270	15,829	-	-	-	-	-	0	0	0	0	1,529	1,529	1,529	1,529	1,529	1,529						
2042	15,779	15,779	15,779	15,779	15,779	13,366	13,366	13,366	13,366	13,366	14,920	14,821	19,079	16,228	14,483	-	-	-	-	-	0	0	0	0	1,571	1,571	1,571	1,571	1,571	1,571						
2043	18,059	18,059	18,059	18,059	18,059	14,823	14,823	14,823	14,823	14,823	26,524	17,076	15,192	15,113	14,894	-	-	-	-	-	0	0	0	0	1,616	1,616	1,616	1,616	1,616	1,616						
2044	16,684	16,684	16,684	16,684	16,684	14,145	14,145	14,145	14,145	14,145	15,780	15,675	17,503	20,045	26,774	-	-	-																		



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Fixed O&M Cost Component

Year	# of Units	3X1 J DF CC 2017					3X1 J DF CC 2018					3X1 H DF CC 2016					Return PPE1 from IR					Nuclear Uprate TP Units					2017 CT				
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
Total Impact on Portfolio (\$M)		(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)
2011	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2012	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2013	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2014	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2015	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2016	\$15	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,738	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2017	\$19	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$15,107	\$4,241	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2018	\$13	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,347	\$8,397	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2019	\$35	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,004	\$11,004	\$8,612	\$4,422	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2020	\$45	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,621	\$4,621	\$4,528	\$7,154	\$23,876	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2021	\$34	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$6,404	\$6,404	\$4,977	\$5,552	\$2,535	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2022	\$56	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,247	\$3,908	\$8,315	\$5,690	\$20,527	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2023	\$35	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,456	\$5,174	\$5,833	\$6,506	\$3,769	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2024	\$42	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,887	\$9,985	\$6,674	\$7,915	\$2,855	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2025	\$47	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,955	\$9,008	\$5,319	\$4,584	\$6,129	\$6,199	\$3,568	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2026	\$52	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,383	\$9,263	\$5,892	\$5,138	\$7,802	\$6,282	\$3,648	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2027	\$65	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,648	\$10,597	\$5,588	\$4,815	\$6,439	\$6,439	\$7,443	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2028	\$70	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,188	\$9,810	\$6,564	\$5,012	\$6,600	\$6,599	\$3,816	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2029	\$83	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,202	\$13,196	\$5,871	\$5,098	\$6,770	\$6,764	\$3,979	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2030	\$97	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$18,601	\$10,357	\$6,018	\$5,186	\$6,933	\$7,812	\$3,980	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2031	\$93	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,788	\$10,650	\$6,174	\$5,321	\$8,008	\$0	\$5,720	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2032	\$97	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,307	\$12,349	\$6,322	\$5,448	\$0	\$0	\$4,173	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2033	\$117	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,426	\$11,261	\$6,567	\$6,187	\$0	\$0	\$4,269	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2034	\$122	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,750	\$20,531	\$0	\$0	\$0	\$0	\$5,337	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2035	\$130	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$15,688	\$11,908	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2036	\$155	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,407	\$13,585	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2037	\$163	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,340	\$12,612	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2038	\$175	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,121	\$12,969	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2039	\$186	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,493	\$17,316	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2040	\$216	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$24,256	\$13,695	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2041	\$221	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,270	\$15,829	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2042	\$239	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16,228	\$14,483	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2043	\$258	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$15,113	\$14,894	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2044	\$293	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20,045	\$26,774	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2045	\$302	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$15,961	\$15,751	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2046	\$316	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$18,389	\$17,912	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2047	\$341	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16,881	\$16,682	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2048	\$371	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$30,008	\$22,126	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2049	\$378	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$17,854	\$17,618	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2050	\$408	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20,254	\$20,298	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2051	\$419	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20,760	\$18,633	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2052	\$467	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$21,279	\$33,123	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2053	\$437	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$21,811	\$19,707	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2054	\$478	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22,356	\$22,356	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2055	\$479	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22,915	\$22,915	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2056	\$500	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$23,488	\$23,488	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2057	\$501	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$24,075	\$24,075	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2058	\$512	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$24,677	\$24,677	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2059	\$554	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$25,294	\$25,294	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2060	\$545	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$25,927	\$25,927	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

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Capital Repl. Esc 0.025

	3X1 J DF CC 2017	3X1 J DF CC 2018	3X1 J DF CC 2019	3X1 J DF CC 2020	3X1 J DF CC 2021	2X1 J DF CC 2017	2X1 J DF CC 2018	2X1 J DF CC 2019	2X1 J DF CC 2020	2X1 J DF CC 2021	3X1 H DF CC 2016	3X1 H DF CC 2018	3X1 H DF CC 2019	3X1 H DF CC 2021	3X1 H DF CC 2025	Return PPE1 from IR 213	Return PPE2 from IR 213	Return PPE3 from IR 387	Return PPE4 from IR 392	Return PTP2 from IR 392	Nuclear Updte TP Units 208	Nuclear Updte SL Units 206	Nuclear 2022 1100	Nuclear 2023 1100	2017 CT 396	2018 CT 396	2019 CT 396	2020 CT 396	2021 CT 396	
Capacity (MW)	1347	1347	1347	1347	1347	894	894	894	894	894	1191	1191	1191	1191	1191	213	213	387	392	392	208	206	2022 1100	2023 1100	2017 CT 396	2018 CT 396	2019 CT 396	2020 CT 396	2021 CT 396	
In-service year (COD)	2017	2018	2019	2020	2021	2017	2018	2019	2020	2021	2016	2018	2019	2021	2025	2019	2019	2017	2016	2020	2012	2012	2022	2023	2017	2018	2019	2020	2021	
Based on E&C Matrix file in Directory: G:\Common\1-1A\1-4th qtr 2010 resource optimization\1- assumptions\new units Filename: GreenField_J_Options_11052010_With_O&M and Transmission_Updates_Givenout_GO.xls Received on November 5, 2010 Values escalated assuming 5-year cycle from 2048 - 2069																														
Year	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)	Annual FOM Costs (\$000)
2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0
2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0
2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0
2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0
2015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0
2016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0
2017	0	0	0	0	0	0	0	0	0	0	12,992	0	0	0	0	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0
2018	11,219	0	0	0	0	9,867	0	0	0	0	2,134	0	0	0	0	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0
2019	13,143	11,599	0	0	0	3,359	10,113	0	0	0	54,752	13,650	0	0	0	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0
2020	74,281	15,472	11,787	0	0	40,477	3,441	10,366	0	0	18,034	2,242	13,991	0	0	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0
2021	11,517	76,138	13,808	12,081	0	16,293	46,969	3,529	10,625	0	5,309	57,524	2,298	0	0	-	-	-	-	-	0	0	0	0	0	0	0	0	0	0
2022	23,389	11,809	78,042	14,154	12,383	10,122	16,700	42,527	3,617	10,891	34,682	18,947	58,962	14,699	0	-	-	-	-	-	0	0	0	0	0	23,896	0	0	0	0
2023	49,184	25,973	12,100	79,993	14,507	30,295	10,375	17,118	43,590	3,708	20,219	6,103	19,420	2,414	0	-	-	-	-	-	0	0	0	0	0	7,335	24,493	0	0	0
2024	15,703	58,413	24,573	12,402	81,993	6,579	31,053	10,634	17,546	44,680	2,650	36,438	6,255	61,947	0	-	-	-	-	-	0	0	0	0	0	0	7,518	25,105	0	0
2025	4,578	16,006	51,678	25,187	12,712	2,999	6,744	31,829	10,900	17,984	37,179	21,243	37,349	20,404	0	-	-	-	-	-	0	0	0	0	0	0	0	7,706	25,733	0
2026	100,811	4,092	16,498	52,965	25,817	95,189	3,974	6,912	32,625	11,172	27,976	2,784	21,774	6,372	16,225	-	-	-	-	-	0	0	0	0	0	0	0	0	7,899	26,376
2027	23,806	101,334	4,810	16,911	54,289	14,980	97,508	3,151	7,085	33,440	2,841	39,061	2,854	39,240	2,665	-	-	-	-	-	0	0	0	0	0	0	0	0	8,096	0
2028	10,550	24,402	105,914	4,930	17,234	5,093	15,354	100,008	3,230	7,262	55,447	29,392	40,038	22,876	68,378	-	-	-	-	-	0	0	0	0	0	0	0	0	8,896	0
2029	98,997	16,314	25,012	108,562	5,053	52,774	5,226	15,738	102,508	3,310	12,792	2,669	30,127	2,998	22,522	-	-	-	-	-	0	0	0	0	0	0	0	0	9,616	0
2030	28,243	700,256	11,084	25,637	111,276	18,081	54,093	3,351	16,132	105,070	7,018	56,152	2,736	42,065	7,254	-	-	-	-	-	0	0	0	0	0	0	0	0	10,611	22,293
2031	26,796	28,949	103,378	11,361	26,278	18,332	18,533	55,446	5,484	16,535	6,741	13,439	57,556	31,652	43,314	-	-	-	-	-	0	0	0	0	0	0	0	0	10,876	22,851
2032	13,874	27,405	29,673	105,962	11,645	15,761	18,996	18,997	56,832	5,621	75,525	7,374	13,775	2,874	25,251	-	-	-	-	-	0	0	0	0	0	0	0	0	10,782	21,652
2033	21,307	14,221	28,152	30,415	108,611	12,527	16,155	19,470	19,471	58,253	3,445	7,082	7,558	60,470	3,309	-	-	-	-	-	0	0	0	0	0	0	0	0	11,501	0
2034	32,829	21,309	14,576	28,856	31,175	7,665	12,840	16,559	19,957	19,958	22,734	79,348	7,259	14,472	46,431	-	-	-	-	-	0	0	0	0	0	0	0	0	12,061	0
2035	71,477	55,659	22,385	14,941	29,577	89,224	6,831	13,161	16,973	20,456	3,218	3,619	81,332	7,941	34,938	-	-	-	-	-	0	0	0	0	0	0	0	0	12,219	0
2036	158,278	73,264	34,491	22,945	15,314	98,546	91,485	7,002	13,490	17,397	111,294	23,885	3,710	7,627	3,173	-	-	-	-	-	0	0	0	0	0	0	0	0	12,352	0
2037	21,516	162,335	75,095	35,353	23,518	24,724	101,030	93,741	7,177	13,827	11,498	3,381	24,482	85,449	66,748	-	-	-	-	-	0	0	0	0	0	0	0	0	12,749	0
2038	86,024	22,954	166,291	76,973	36,237	67,404	25,342	103,536	96,085	7,156	8,891	116,928	3,465	3,898	15,975	-	-	-	-	-	0	0	0	0	0	0	0	0	12,911	0
2039	79,563	88,175	22,605	170,448	78,897	20,236	69,089	25,976	106,145	98,487	4,555	12,080	119,851	25,721	8,765	-	-	-	-	-	0	0	0	0	0	0	0	0	12,961	0
2040	27,590	81,552	90,379	23,170	174,709	38,557	20,742	70,816	26,625	108,799	337	9,341	12,382	3,641	8,419	-	-	-	-	-	0	0	0	0	0	0	0	0	12,826	0
2041	32,294	28,236	83,590	92,639	23,750	39,544	39,521	21,261	72,587	27,291	60,618	4,785	9,575	125,919	94,320	-	-	-	-	-	0	0	0	0	0	0	0	0	12,857	0
2042	132,661	33,192	28,987	85,680	94,955	32,833	40,533	40,509	21,792	74,402	22,736	355	4,905	13,009	4,302	-	-	-	-	-	0	0	0	0	0	0	0	0	13,350	0
2043	63,248	135,977	33,929	29,712	87,822	10,857	33,653	41,546	41,523	22,537	14,462	63,687	363	10,059	28,391	-	-	-	-	-	0	0	0	0	0	0	0	0	13,434	0
2044	76,831	64,829	139,377	34,777	30,454	84,094	11,128	34,495	42,585	42,559	3,858	23,887	65,279	5,153	4,019	-	-	-	-	-	0	0	0	0	0	0	0	0	13,520	0
2045	108,480	78,752	66,450	142,861	35,647	67,051	86,196	11,407	35,357	43,649	42,327	15,194	24,484	382	138,991	-	-	-	-	-	0	0	0	0	0	0	0	0	13,520	0
2046	8,592	111,092	80,721	68,111	146,433	13,059	68,727	88,351	11,692	36,241	43	4,053	15,574	68,584	14,360	-	-	-	-	-	0	0	0	0	0	0	0	0	13,520	0
2047	135,977	8,887	113,972	82,739	69,814	33,653	13,886	70,446	90,560	11,984	43,470	11,984	43,470	11,984	43,470	-	-	-	-	-										



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Capital Replacement Cost Component

Year	# of Units	3X1 J DF CC 2017					3X1 J DF CC 2018					3X1 J DF CC 2019					3X1 J DF CC 2020					3X1 J DF CC 2021					3X1 H DF CC 2016					3X1 H DF CC 2018					3X1 H DF CC 2019					3X1 H DF CC 2021					3X1 H DF CC 2025					Return PPE1 from IR					Return PPE2 from IR					Return PPE3 from IR					Return PPE4 from IR					Return PTP2 from IR					Nuclear Uprate TP Units					Nuclear Uprate SL Units					Nuclear 2022					Nuclear 2023					2017 CT					2018 CT					2019 CT					2020 CT					2021 CT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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[illegible]



[Contd.]

[illegible]



## **ATTACHMENT 5**



Input Data in all Shaded Cells

This is the capacity for 2 combust

Paste input data into lines below:

	3X1 J DF CC 2017	3X1 J DF CC 2018	3X1 J DF CC 2019	3X1 J DF CC 2020	3X1 J DF CC 2021	2X1 J DF CC 2017	2X1 J DF CC 2018	2X1 J DF CC 2019	2X1 J DF CC 2020	2X1 J DF CC 2021	3X1 H DF CC 2016	3X1 H DF CC 2022	3X1 H DF CC 2024	3X1 H DF CC 2021	3X1 H DF CC 2025	Return PPE1 from IR	Return PPE2 from IR	Return PPE3 from IR	Return PPE4 from IR	Return PTP2 from IR	Nuclear Uprate TP Units	Nuclear Uprate SL Units	Nuclear 2022	Nuclear 2023	2017 CT	2018 CT	2019 CT
Capacity (MW)	1347	1347	1347	1347	1347	894	894	894	894	894	1191	1191	1191	1191	1191	213	213	387	392	392	208	206	1100	1100	396	396	396
No. of Units	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0
Year COD	2017	2018	2019	2020	2021	2017	2018	2019	2020	2021	2016	2022	2024	2021	2025	2019	2019	2017	2016	2020	2012	2012	2022	2023	2017	2018	2019
Startmonth	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Ref Year \$	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2018	2007	2007	2022	2023	2018	2018	2018
Gas Transp Cost (\$/MMBtu)	1.93	1.98	2.02	2.08	2.13	1.93	1.98	2.02	2.08	2.13	1.88	2.18	2.29	2.13	2.35	0.00	0.00	0.00	0.00	0.00	0	0	0	0	1.93	1.98	2.02
Firm Reqt. 000 MMBtu/Day	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gas Fired Technology	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO	NO	YES	YES	YES



ation turbines

[illegible]



NOTE: Includes firm gas transportation of 400 MMCF/day starting in 2016 (this has not been allocated to any unit additions)

Year	Annual Discount Factor	Generation Capital FPL (Millions)	Transmission Capital FPL (Millions)	Generation Fixed O&M (Millions)	Capital Replacement Charges (Millions)	Firm Gas Transport Costs (Millions)	Total Fixed Costs (Millions)	System Net Fuel (Millions)	Startup Costs (Millions)	Generation Var. O&M (Millions)	Emission Costs (Millions)	Transmission Losses (Millions)	Total VOM/Fuel Costs (Millions)	Total Annual Costs (Millions)	NPV Total Annual Cost (Millions)	NPV Cumulative Total Costs (Millions)
2011	1.000	0	0	0	0	0	0	3380	115	14	(10)	0	3,499	3,499	3,499	3,499
2012	0.932	0	0	0	0	0	0	3557	118	15	(4)	0	3,686	3,686	3,435	6,934
2013	0.869	0	0	0	0	0	0	3485	129	13	(7)	0	3,620	3,620	3,145	10,079
2014	0.810	0	0	0	0	0	0	3706	140	14	(7)	0	3,853	3,853	3,120	13,199
2015	0.755	0	0	0	0	0	0	3970	146	15	(7)	0	4,124	4,124	3,112	16,311
2016	0.703	32	0	15	0	288	335	4525	155	12	(7)	0	4,685	5,020	3,531	19,842
2017	0.656	44	0	19	0	288	351	4996	161	11	(6)	0	5,162	5,513	3,614	23,456
2018	0.611	21	0	13	0	288	322	5430	166	12	1,276	0	6,884	7,206	4,404	27,860
2019	0.570	111	0	35	0	288	434	5843	175	13	1,422	0	7,453	7,887	4,492	32,352
2020	0.531	174	0	45	0	288	508	6375	188	13	1,571	0	8,147	8,655	4,594	36,946
2021	0.495	189	10	34	0	288	521	6778	189	19	1,737	0	8,723	9,245	4,574	41,520
2022	0.461	424	28	65	15	288	820	7207	190	29	1,883	0	9,309	10,129	4,671	46,191
2023	0.430	417	35	44	17	288	802	7861	199	33	2,082	0	10,175	10,976	4,718	50,909
2024	0.401	555	45	60	64	288	1013	8541	206	40	2,306	0	11,093	12,105	4,850	55,759
2025	0.373	788	63	65	100	288	1304	9378	218	51	2,503	0	12,150	13,453	5,023	60,782
2026	0.348	883	69	75	46	367	1440	9804	232	59	2,708	0	12,803	14,243	4,957	65,739
2027	0.324	1,056	66	84	124	529	1860	10134	244	68	2,966	0	13,412	15,272	4,954	70,693
2028	0.302	1,191	63	92	172	613	2131	10520	257	76	3,249	0	14,102	16,233	4,908	75,601
2029	0.282	1,347	61	105	103	783	2398	10865	269	85	3,537	0	14,756	17,154	4,834	80,434
2030	0.263	1,482	59	118	197	870	2726	11372	284	94	3,885	0	15,635	18,362	4,823	85,257
2031	0.245	1,576	56	124	219	960	2935	11872	297	101	4,052	0	16,322	19,257	4,714	89,971
2032	0.228	1,730	54	119	192	1143	3238	12551	308	112	4,313	0	17,284	20,522	4,682	94,654
2033	0.213	2,043	52	149	259	1425	3927	13677	320	132	4,747	0	18,876	22,803	4,849	99,503
2034	0.198	2,236	49	145	302	1521	4253	14380	332	145	5,013	0	19,870	24,124	4,782	104,285
2035	0.185	2,487	47	156	263	1719	4671	14854	347	157	5,187	0	20,545	25,216	4,659	108,944
2036	0.172	2,868	45	184	383	2022	5502	15924	363	178	5,609	0	22,074	27,576	4,748	113,692
2037	0.160	3,053	43	189	410	2126	5820	16617	375	192	5,876	0	23,060	28,880	4,635	118,327
2038	0.150	3,099	41	207	423	2232	6002	17170	390	201	6,098	0	23,859	29,861	4,467	122,794
2039	0.139	3,147	39	213	484	2341	6224	17826	406	212	6,352	0	24,796	31,019	4,325	127,119
2040	0.130	3,303	38	245	428	2565	6578	18457	425	225	6,606	0	25,713	32,292	4,196	131,315
2041	0.121	3,424	37	260	580	2679	6980	19068	444	236	6,867	0	26,615	33,595	4,069	135,384
2042	0.113	3,470	36	269	624	2796	7195	19789	461	248	7,154	0	27,652	34,847	3,934	139,318
2043	0.105	3,752	35	301	533	3157	7778	20883	478	268	7,596	0	29,225	37,003	3,893	143,212
2044	0.098	3,958	34	323	597	3281	8192	21786	501	284	7,959	0	30,530	38,722	3,798	147,009
2045	0.091	3,996	32	340	735	3407	8510	22556	524	297	8,282	0	31,659	40,169	3,672	150,681
2046	0.085	4,037	31	349	714	3537	8668	23381	543	311	8,621	0	32,856	41,524	3,538	154,219
2047	0.079	4,212	30	381	740	3802	9165	24217	566	327	8,959	0	34,069	43,234	3,433	157,652
2048	0.074	4,345	29	406	689	3938	9408	25074	590	342	9,321	0	35,327	44,735	3,311	160,963
2049	0.069	4,386	28	429	878	4078	9798	25956	612	358	9,690	0	36,616	46,414	3,202	164,165
2050	0.064	4,573	27	445	793	4364	10201	26860	636	375	10,068	0	37,939	48,140	3,095	167,260
Total NPV =		\$10,968	\$288	\$936	\$1,450	\$8,605	\$22,246	\$112,478	\$3,000	\$838	\$28,698	\$0	\$145,014	\$167,260	\$167,260	



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Escalation = 1.01

### Generation Capital Revenue Requirement Component

Calculation Assumptions:	3X1 J DF CC 2017	3X1 J DF CC 2018	3X1 J DF CC 2019	3X1 J DF CC 2020	3X1 J DF CC 2021	3X1 J DF CC 2017	3X1 J DF CC 2018	3X1 J DF CC 2019	3X1 J DF CC 2020	3X1 J DF CC 2021	3X1 H DF CC 2016	3X1 H DF CC 2022	3X1 H DF CC 2024	3X1 H DF CC 2021	3X1 H DF CC 2025	Return PPE1 from IR	Return PPE2 from IR	Return PPE3 from IR	Return PPE4 from IR	Return PPE2 from IR	Nuclear Update TP Units	Nuclear Update SL Units	Nuclear 2022	Nuclear 2023	2017 CT	2018 CT	2019 CT	2020 CT	2021 CT	
	Capacity (MW)	1347	1347	1347	1347	894	894	894	894	894	1191	1191	1191	1191	1191	213	213	387	392	392	208	206	1100	1100	396	396	396	396	396	
	In-service year (COD)	2017	2018	2019	2020	2021	2017	2018	2019	2020	2021	2016	2022	2024	2021	2025	2019	2019	2017	2016	2020	2012	2012	2022	2023	2017	2018	2019	2020	2021
	G:\Common-1-1A\1-4th qtr 2010 resource optimization\2- EDM Filename: 3X1CCJ Duet Firing Generation EDM.xls					Based on EDM file in Directory: G:\Common-1-1A\1-4th qtr 2010 resource optimization\2- EDM Filename: 2X1CCJ Duet Firing Generation EDM.xls					Based on EDM file in Directory: G:\Common-1-1A\1-8th\2011\020111 IR-15yrs H Tech\EDM Filename: 3X1 H CC DF Gen EDM.xls					Source of data provided on "Plan Input" tab Cells I27:N75 Data is automatically calculated					Based on EDM file in Directory: G:\Common-1-1A\1-4th qtr 2010 resource optimization\2- EDM Filename: 2X0 SC 7FA.05 Generation EDM.xls									
Year	Annual Rev Req 000 \$	Annual Rev Req 000 \$	Annual Rev Req 000 \$	Annual Rev Req 000 \$	Annual Rev Req 000 \$	Annual Rev Req 000 \$	Annual Rev Req 000 \$	Annual Rev Req 000 \$	Annual Rev Req 000 \$	Annual Rev Req 000 \$	Annual Rev Req 000 \$	Annual Rev Req 000 \$	Annual Rev Req 000 \$	Annual Rev Req 000 \$	Annual Rev Req 000 \$	Annual Rev Req 000 \$	Annual Rev Req 000 \$	Annual Rev Req 000 \$	Annual Rev Req 000 \$	Annual Rev Req 000 \$	Annual Rev Req 000 \$	Annual Rev Req 000 \$	Annual Rev Req 000 \$	Annual Rev Req 000 \$	Annual Rev Req 000 \$	Annual Rev Req 000 \$	Annual Rev Req 000 \$	Annual Rev Req 000 \$	Annual Rev Req 000 \$	
2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2017	119,221	-	-	-	-	83,649	-	-	-	-	105,222	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2018	198,684	122,706	-	-	-	139,394	86,158	-	-	-	175,405	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2019	191,289	204,017	126,482	-	-	134,194	143,576	88,743	-	-	168,934	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2020	184,167	197,927	210,784	130,276	-	129,188	138,220	147,883	91,406	-	156,090	0	-	-	-	35,131	38,224	32,099	4,434	-	-	-	-	-	-	-	-	-	-	
2021	177,300	189,603	202,938	217,108	134,185	124,360	133,063	142,366	152,319	94,148	150,882	0	-	-	-	163	163	4,367	922	20,419	-	-	-	-	-	-	-	-	-	
2022	170,666	181,009	195,383	209,026	223,621	119,698	128,091	137,055	146,637	156,889	145,262	125,641	-	-	-	30,183	35,385	330	740	-	-	-	-	-	-	-	-	-	-	
2023	164,249	175,784	188,097	201,245	215,297	115,189	123,289	131,934	141,167	151,036	139,018	209,443	-	-	-	1,275	3,199	500	2,068	4,990	-	-	-	-	-	-	-	-	-	
2024	158,034	167,227	181,059	191,740	207,282	110,822	118,648	126,988	135,892	145,402	141,471	201,717	133,292	188,616	-	809	25,259	2,130	809	2,313	-	-	-	-	-	-	-	-	-	
2025	151,930	162,573	174,252	186,491	199,552	106,535	114,147	122,204	130,797	139,808	129,138	194,275	222,198	181,646	137,291	24,278	23,748	833	2,703	833	-	-	-	-	-	-	-	-	-	
2026	145,843	156,404	167,658	179,480	192,086	102,259	109,731	117,571	125,870	134,721	122,806	187,096	214,001	174,913	228,864	2,260	1,714	2,784	546	546	-	-	-	-	-	-	-	-	-	
2027	139,758	150,249	161,183	172,688	184,864	97,983	105,276	113,023	121,099	129,647	118,475	180,161	206,106	168,399	220,421	884	321	563	884	15,166	-	-	-	-	-	-	-	-	-	
2028	133,672	143,909	154,725	166,018	177,868	93,709	100,923	108,486	116,413	124,731	113,144	173,451	198,490	162,087	212,289	5,013	3,200	2,852	1,564	910	-	-	-	-	-	-	-	-	-	
2029	127,587	137,682	148,269	159,367	170,999	89,434	96,520	103,951	111,741	119,906	107,814	166,950	191,133	155,889	204,445	597	-	1,611	597	3,012	-	-	-	-	-	-	-	-	-	
2030	121,503	131,443	141,813	152,717	164,148	85,160	92,117	99,415	107,069	115,093	102,488	160,565	184,014	149,707	196,866	966	351	615	615	615	-	-	-	-	-	-	-	-	-	
2031	115,420	125,145	135,358	146,067	157,298	80,896	87,715	94,881	102,398	110,281	97,186	154,198	177,117	143,526	189,535	5,819	1,075	633	-	-	-	-	-	-	-	-	-	-	-	
2032	109,337	118,983	128,903	139,418	150,449	76,613	83,313	90,346	97,727	105,470	91,828	147,831	170,344	137,345	182,431	652	-	-	-	-	-	-	-	-	-	-	-	-	-	
2033	103,253	112,901	122,449	132,779	143,601	72,340	78,911	85,812	93,057	100,659	86,590	141,466	163,589	131,165	175,454	672	-	-	-	-	-	-	-	-	-	-	-	-	-	
2034	97,171	106,835	115,995	126,122	136,753	68,067	74,510	81,279	88,387	95,848	81,173	135,100	156,834	124,986	168,496	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2035	91,089	100,806	109,541	119,475	129,906	63,794	70,109	76,745	83,717	91,038	75,847	128,736	150,081	118,808	161,539	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2036	85,068	94,822	103,088	112,828	123,059	59,522	65,708	72,212	79,047	86,229	71,031	122,372	143,328	112,630	154,583	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2037	79,515	87,558	96,036	106,181	116,213	55,665	61,308	67,879	74,378	81,419	67,234	116,009	136,576	106,454	147,628	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2038	75,195	82,996	90,185	99,535	109,367	52,637	57,335	63,147	69,710	76,609	63,946	109,647	129,823	100,277	140,673	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2039	71,462	77,483	84,357	92,890	102,522	50,023	54,216	59,055	65,042	71,801	60,659	103,286	123,074	94,102	133,719	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2040	67,730	72,660	79,774	86,888	95,677	47,410	51,524	55,842	60,827	66,993	57,373	96,925	116,323	87,928	126,766	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2041	63,999	68,762	75,814	82,167	89,494	44,797	48,832	53,069	57,518	62,652	54,088	90,566	109,576	82,345	119,814	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2042	60,683	64,939	71,855	78,089	84,632	42,476	46,191	50,297	54,661	59,243	50,804	84,815	102,828	77,942	112,863	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2043	57,663	62,393	67,896	74,011	80,431	40,363	43,750	47,325	51,806	56,301	47,521	80,281	96,081	74,131	105,913	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2044	54,645	59,399	64,378	69,933	76,231	38,251	41,574	45,062	48,951	53,360	44,219	76,355	89,980	70,321	98,964	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2045	51,627	56,283	61,175	66,310	72,031	36,139	39,398	42,821	46,414	50,419	40,957	72,430	85,170	66,511	92,680	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2046	48,610	53,175	57,972	63,010	68,299	34,029	37,224	40,580	44,106	47,807	38,507	68,507	81,005	62,703	87,725	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2047	45,688	50,060	54,771	59,712	64,900	32,049	35,049	38,340	41,798	45,429	-	64,584	76,841	58,896	83,435	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2048	42,868	47,039	51,570	56,414	61,503	-	32,184	35,601	39,491	43,052	-	60,663	72,679	55,090	79,147	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2049	40,148	44,199	48,547	53,117	58,106	-	30,454	33,816	37,589	41,299	-	58,742	68,517	51,283	74,859	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2050	37,528	41,400	45,573	50,000	54,710	-	28,788	32,000	35,649	39,699	-	56,823	64,957	47,481	70,573	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2051	35,000	38,700	42,640	46,840	51,340	-	27,100	30,100	33,500																					



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Escalation = 1.03      Transmission Capital Revenue Requirement Component

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## [Contd.]

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	# of Units	3X1 J DF CC 2017	3X1 J DF CC 2018	3X1 J DF CC 2019	3X1 J DF CC 2020	3X1 J DF CC 2021	3X1 J DF CC 2017	3X1 J DF CC 2018	3X1 J DF CC 2019	3X1 J DF CC 2020	3X1 J DF CC 2021	3X1 H DF CC 2016	3X1 H DF CC 2022	3X1 H DF CC 2024	3X1 H DF CC 2021	3X1 H DF CC 2025	Return PPE1 from IR 1	Return PPE2 from IR 1	Return PPE3 from IR 1	Return PPE4 from IR 1	Return PTP2 from IR 1	Nuclear Uprate TP Units 1	Nuclear Uprate SL Units 1	Nuclear 2022	Nuclear 2023	2017 CT	2018 CT	2019 CT	2020 CT
		0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	\$ (\$)	\$ (\$)	\$ (\$)	\$ (\$)	\$ (\$)	\$ (\$)	\$ (\$)	\$ (\$)	\$ (\$)	0	0	0	0
Total Impact on Portfolio (\$M)		(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)	(\$000)
2011	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2012	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2013	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2014	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2015	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2016	\$32	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$31,958	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2017	\$44	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$42,750	\$896	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2018	\$21	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$922	\$20,419	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2019	\$111	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$33,131	\$38,224	\$32,999	\$4,434	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2020	\$174	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$163	\$163	\$4,567	\$20,739	\$148,525	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2021	\$189	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$121,981	\$0	\$0	\$30,183	\$35,385	\$530	\$740	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2022	\$424	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$125,641	\$0	\$203,343	\$0	\$0	\$25,747	\$0	\$11,836	\$485	\$37,215	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2023	\$417	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$209,443	\$0	\$195,841	\$0	\$1,275	\$3,359	\$500	\$2,908	\$4,990	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2024	\$555	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$201,717	\$133,292	\$188,616	\$0	\$0	\$809	\$25,259	\$2,130	\$809	\$2,513	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2025	\$788	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$194,275	\$222,198	\$181,646	\$137,291	\$0	\$24,278	\$23,748	\$833	\$2,703	\$833	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2026	\$863	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$187,096	\$214,001	\$174,913	\$228,864	\$													



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Fixed O&M esc 0.025

Capacity (MW)	3X1 J DF		3X1 J DF		3X1 J DF		3X1 J DF		3X1 J DF		2X1 J DF		2X1 J DF		2X1 J DF		2X1 J DF		2X1 J DF		3X1 H DF		3X1 H DF		3X1 H DF		3X1 H DF		3X1 H DF		Return PPE1		Return PPE2		Return PPE3		Return PPE4		Return PTP2		Nuclear Upgrate TP Units		Nuclear Upgrate SL Units		Nuclear		Nuclear		2017 CT		2018 CT		2019 CT		2020 CT		2021 CT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	CC 2017	CC 2018	CC 2017	CC 2018	CC 2017	CC 2018	CC 2020	CC 2021	CC 2020	CC 2021	CC 2017	CC 2018	CC 2017	CC 2018	CC 2017	CC 2018	CC 2017	CC 2018	CC 2017	CC 2018	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 2016	CC 2017	CC 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2017	CC 2016	CC 2017



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Fixed O&M Cost Component

Year	Total Impact on Portfolio (\$M)	# of Units	3X1 J DF CC 2017	3X1 J DF CC 2018	3X1 J DF CC 2019	3X1 J DF CC 2020	3X1 J DF CC 2021	2X1 J DF CC 2017	2X1 J DF CC 2018	2X1 J DF CC 2019	2X1 J DF CC 2020	2X1 J DF CC 2021	3X1 H DF CC 2016	3X1 H DF CC 2022	3X1 H DF CC 2024	3X1 H DF CC 2021	3X1 H DF CC 2025	Return PPE1 from IR 1	Return PPE2 from IR 1	Return PPE3 from IR 1	Return PPE4 from IR 1	Return PTP2 from IR 1	Nuclear Uprate TP Units 1	Nuclear Uprate SL Units 1	Nuclear 2022 0	Nuclear 2023 0	2017 CT 0	2018 CT 0	2019 CT 0	2020 CT 0	2021 CT 0	
			(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)	(000 \$)
2011	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2012	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2013	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2014	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2015	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2016	\$15	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2017	\$19	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$15,107	\$4,241	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2018	\$13	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,347	\$8,397	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2019	\$35	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,004	\$11,004	\$8,612	\$4,422	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2020	\$45	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,621	\$4,621	\$4,528	\$7,354	\$23,676	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2021	\$34	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,161	\$0	\$0	\$6,404	\$6,404	\$4,977	\$5,552	\$2,335	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2022	\$65	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,365	\$0	\$8,392	\$0	\$0	\$9,247	\$3,998	\$8,315	\$5,690	\$20,527	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2023	\$44	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$8,601	\$0	\$9,601	\$0	\$0	\$4,456	\$5,174	\$5,833	\$6,506	\$3,769	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2024	\$60	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,841	\$8,788	\$8,887	\$0	\$0	\$5,189	\$9,985	\$6,674	\$7,915	\$2,855	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2025	\$65	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,109	\$9,037	\$11,955	\$9,008	\$5,319	\$4,584	\$6,129	\$6,199	\$3,568	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2026	\$75	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,253	\$10,339	\$9,383	\$9,263	\$5,892	\$5,138	\$7,802	\$6,282	\$3,648	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2027	\$84	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,617	\$9,570	\$9,648	\$10,597	\$5,588	\$4,815	\$6,439	\$6,439	\$7,443	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2028	\$92	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$9,889	\$12,874	\$11,188	\$9,810	\$6,564	\$5,012	\$6,600	\$6,599	\$3,816	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2029	\$105	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,467	\$10,104	\$10,202	\$13,196	\$5,871	\$5,098	\$6,770	\$6,764	\$3,979	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2030	\$118	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,457	\$10,390	\$18,601	\$10,357	\$6,018	\$5,186	\$6,933	\$7,812	\$3,990	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2031	\$124	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$19,066	\$12,048	\$10,788	\$10,650	\$6,174	\$5,321	\$8,008	\$0	\$5,720	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2032	\$119	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,058	\$10,987	\$12,307	\$12,349	\$6,322	\$5,448	\$0	\$4,173	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2033	\$149	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,615	\$20,031	\$11,426	\$11,261	\$6,567	\$6,187	\$0	\$4,269	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2034	\$145	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,711	\$11,618	\$11,750	\$20,531	\$0	\$0	\$0	\$0	\$5,337	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2035	\$156	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,043	\$13,254	\$15,688	\$11,908	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2036	\$184	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16,080	\$12,304	\$12,407	\$13,585	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2037	\$189	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,717	\$12,653	\$14,340	\$12,612	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2038	\$207	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,699	\$16,894	\$13,121	\$12,969	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2039	\$213	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,449	\$13,361	\$13,493	\$17,316	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2040	\$245	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$13,830	\$15,443	\$24,256	\$13,695	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2041	\$260	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$24,863	\$14,129	\$14,270	\$15,829	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2042	\$269	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,626	\$14,530	\$16,228	\$14,483	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2043	\$301	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16,634	\$26,121	\$15,113	\$14,894	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2044	\$323	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$15,491	\$15,367	\$20,045	\$26,774	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2045	\$340	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20,546	\$17,476	\$15,961	\$15,751	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2046	\$349	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16,360	\$16,275	\$18,389	\$17,912	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2047	\$381	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$18,449	\$21,586	\$16,881	\$16,682	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2048	\$406	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$17,303	\$17,188	\$30,008	\$22,126	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2049	\$429	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$30,758	\$19,803	\$17,854	\$17,618	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2050	\$445	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$18,300	\$18,179	\$20,254	\$20,298	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2051	\$472	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20,760	\$32,315	\$20,760	\$18,633	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2052	\$508	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$21,279	\$19,227	\$21,279	\$33,123	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2053	\$481	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$21,811	\$21,811	\$21,811	\$19,707	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2054	\$522	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22,356	\$22,356	\$22,356	\$22,356	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2055	\$525	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$22,915	\$22,915	\$22,915	\$22,915	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
2056	\$547	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$23,488	\$23,488	\$23,488</																	

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	XJ1 J DF CC 2017	XJ1 J DF CC 2018	XJ1 J DF CC 2019	XJ1 J DF CC 2020	XJ1 J DF CC 2021	XJ1 J DF CC 2017	XJ1 J DF CC 2018	XJ1 J DF CC 2019	XJ1 J DF CC 2020	XJ1 J DF CC 2021	XJ1 H DF CC 2016	XJ1 H DF CC 2022	XJ1 H DF CC 2024	XJ1 H DF CC 2021	XJ1 H DF CC 2025	Return PPE1 from IR	Return PPE2 from IR	Return PPE3 from IR	Return PPE4 from IR	Return PTD2 from IR	Nuclear Uprate TP Units	Nuclear Uprate SL Units	Nuclear 2022 1100	Nuclear 2023 1100	2017 CT	2018 CT	2019 CT	2020 CT	2021 CT	
Capacity (MW)	1347	1347	1347	1347	1347	894	894	894	894	894	1191	1191	1191	1191	1191	213	213	387	392	392	208	206	1100	1100	396	396	396	396	396	
In-service year (COD)	2017	2018	2019	2020	2021	2017	2018	2019	2020	2021	2016	2022	2024	2021	2025	2019	2019	2017	2016	2020	2012	2012	2022	2023	2017	2018	2019	2020	2021	
Based on E&C Matrix file in Directory: G:\Common\1-A\1-4th qtr 2010 resource optimization\1-assumptions\new units Filename: GreenField_J_Options_11052010-With_O&M_and_Transmission_Updates_Givenout_GO.xls Received on November 5, 2010 Values escalated assuming 5-year cycle from 2048 - 2060																														
Year	Annual FOM Costs (\$'000)	Annual FOMI Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOMI Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOMI Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	Annual FOM Costs (\$'000)	
2011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2013	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2014	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2015	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2016	0	0	0	0	0	0	0	0	0	0	12,992	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2017	0	0	0	0	0	0	0	0	0	0	2,134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2018	11,219	0	0	0	0	9,807	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2019	13,143	11,499	0	0	0	3,339	10,113	0	0	0	54,752	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2020	74,281	13,472	11,787	0	0	40,477	3,443	10,366	0	0	18,834	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2021	11,517	76,135	13,808	12,081	0	16,293	41,409	3,529	10,625	0	5,809	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2022	23,389	11,805	78,042	14,154	12,383	10,122	16,706	42,527	3,617	10,891	34,682	0	0	14,																



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### Gas Transportation Charge Component

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## [Contd.]

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