OAG Comments - February 20, 2019

MP Discount Rate 7.06% Exhibit 3
Transmission Losses (PY19-20) 6.00%

	[TRADE SECRET DATA BEGINS	2019	2020	2021
≥5	Fuel Cost (\$/MMBtu)			
CT Energy Cost	Heat Rate (N [TRADE SECRET DATA BEGINS	9.8	9.8	9.8
T Er	VOM (\$/MWn)			
\mathcal{O}	Major (\$/MWh)			
	Energy Cost (\$/MWh)	\$35.44	\$32.78	\$32.63
	Energy Cost (Grossed Up) (\$/MWh)	\$37.56	\$34.75	\$34.58
	Energy Cost (Levelized) (\$/IVIWn)	\$40.86		
Product B	Contract Energy Curtailment Price (\$/MWh)	\$30.00	\$30.00	\$30.00
	Customer Savings (Levelized) (\$/MWh)	\$10.86		
	Customer Savings (Annual) (\$/MWh)	\$7.56	\$4.75	\$4.58
	Total Savings (Levelized) (\$)	\$9,776,764		
	Total Savings (Annual) (\$) Summation (\$)	\$680,579 \$10,663,650	\$427,622	\$412,533

	2028	2027	2026	2025	2024	2023	2022
TRADE SE	9.8	9.8	9.8	9.8	9.8	9.8	9.8
TRADE SE	\$46.70	\$46.44	\$45.20	\$41.64	\$39.67	\$38.58	\$35.71
	\$49.50	\$49.23	\$47.92	\$44.14	\$42.05	\$40.90	\$37.86
	\$30.00	\$30.00	\$30.00	\$30.00	\$30.00	\$30.00	\$30.00
	\$19.50	\$19.23	\$17.92	\$14.14	\$12.05	\$10.90	\$7.86
	\$1,754,854	\$1,730,642	\$1,612,456	\$1,272,515	\$1,084,778	\$980,676	\$706,994

OAG Comments - February 20, 2019 Exhibit 3

CRET DATA ENDS

:CRET DATA ENDS]

Pro	duct B Avoided Emissi	ons Based on new 7F	-A.05 CT	
Effluent	(Lb/MMBtu)	(Tons/MMBtu)	Annual Tons	
NOx	0.03	0.000015	13.23	
SOx	0.002	0.000001	0.882	
СО	0.02	0.00001	8.82	
CO2	120	0.06	52920	
PM25	0.003	0.0000015	1.323	
	2019	2020	2021	2022
NOx	13.23	13.23	13.23	13.23
SOx	0.882	0.882	0.882	0.882
CO	8.82	8.82	8.82	8.82
CO2	52920	52920	52920	52920
PM25	1.323	1.323	1.323	1.323
	2019	2020	2021	2022
NOx	\$2,686.26	\$2,741.73	\$2,798.46	\$2,855.98
SOx	\$4,946.78	\$5,048.91	\$5,153.38	\$5,259.31
CO	\$1.21	\$1.23	\$1.26	\$1.28
CO2	\$9.53	\$9.95	\$10.38	\$10.84
PM25	\$7,023.27	\$7,168.27	\$7,316.60	\$7,467.00
	2019	2020	2021	2022
NOx	\$7,988.02	\$8,152.94	\$8,321.64	\$8,492.70
SOx	\$12,322.84	\$12,577.26	\$12,837.51	\$13,101.40
CO	\$2.13	\$2.18	\$2.22	\$2.27
CO2	\$44.78 	\$46.69	\$48.67	\$50.70
PM25	\$17,507.00	\$17,868.45	\$18,238.18	\$18,613.08
	2019	2020	2021	2022
NOx	\$35,539	\$36,273	\$37,024	\$37,785
SOx	\$4,363	\$4,453	\$4,545	\$4,639
СО	\$11	\$11	\$11	\$11
CO2	\$504,588	\$526,644	\$549,420	\$573,444
PM25	\$9,292	\$9,484	\$9,680	\$9,879
	2019	2020	2021	2022

OAG Comments - February 20, 2019 Exhibit 3 NOx \$105,681 \$107,863 \$110,095 \$112,358 SOx \$10,869 \$11,093 \$11,323 \$11,555 CO \$19 \$19 \$20 \$20 \$2,575,446 \$2,682,942 CO2 \$2,369,566 \$2,470,862 \$23,162 \$23,640 \$24,129 \$24,625 PM25

				Ca		
	2019	2020	2021	2022		
CO2-Reg-Low	\$0.00	\$0.00	\$0.00	\$0.00		
CO2-Reg-High	\$0.00	\$0.00	\$0.00	\$0.00		
603 Barata	ćo.	ćo.	Ć0	60		
CO2-Reg-Low	\$0	\$0	\$0	\$0		
CO2-Reg-High	\$0	\$0	\$0	\$0		

Annua	al Tons			
2023	2024	2025	2026	2027
13.23	13.23	13.23	13.23	13.23
0.882	0.882	0.882	0.882	0.882
8.82	8.82	8.82	8.82	8.82
52920	52920	52920	52920	52920
1.323	1.323	1.323	1.323	1.323
High Externalitie	es Cost (per unit)			
2023	2024	2025	2026	2027
\$2,914.28	\$2,972.91	\$3,033.06	\$3,094.43	\$3,156.73
\$5,366.67	\$5,474.64	\$5,585.41	\$5,698.42	\$5,813.14
\$1.31	\$1.34	\$1.36	\$1.39	\$1.42
\$11.29	\$11.77	\$12.25	\$12.76	\$13.27
\$7,619.41	\$7,772.71	\$7,929.98	\$8,090.43	\$8,253.30
	es Cost (per unit)			
2023	2024	2025	2026	2027
\$8,666.05	\$8,840.41	\$9,019.27	\$9,201.76	\$9,387.01
\$13,368.82	\$13,637.80	\$13,913.73	\$14,195.25	\$14,481.03
\$2.31	\$2.36	\$2.41	\$2.46	\$2.51
Ş52.78	Ş54.92	Ş57. 1 3	\$59.40	\$61.75
\$18,993.02	\$19,375.14	\$19,767.16	\$20,167.11	\$20,573.12
High Cost Va	alues for Table			
2023	2024	2025	2026	2027
\$38,556	\$39,332	\$40,127	\$40,939	\$41,764
\$4,733	\$4,829	\$4,926	\$5,026	\$5,127
\$12	\$12	\$12	\$12	\$13
\$597,520	\$622,793	\$648,269	\$675,178	\$702,171
\$10,080	\$10,283	\$10,491	\$10,704	\$10,919
Low Cost Va	alues for Table			
2023	2024	2025	2026	2027

OAG Comments - February 20, 2019 Exhibit 3 \$114,652 \$116,959 \$119,325 \$124,190 \$121,739 \$11,791 \$12,029 \$12,272 \$12,520 \$12,772 \$20 \$21 \$21 \$22 \$22 \$3,267,642 \$2,793,376 \$2,906,367 \$3,023,110 \$3,143,388 \$25,128 \$25,633 \$26,152 \$26,681 \$27,218

2023	2024	2025	2026	2027
\$0.00	\$0.00	\$5.00	\$5.10	\$5.20
\$0.00	\$0.00	\$25.00	\$25.50	\$26.01
\$0	\$0	\$264,600	\$269,892	\$275,290
\$0	\$0	\$1,323,000	\$1,349,460	\$1,376,449

OAG Comments - February 20, 2019 Exhibit 3

2028

13.23

0.882

8.82

52920

1.323

2028

\$3,219.82

\$5,929.32

\$1.45

\$13.80

\$8,418.24

2028

\$9,574.61

\$14,770.43

\$2.56

\$64.14

\$20,984.27

Total
\$389,936
\$47,871
\$117
\$6,130,583
\$101,949

Figur

2028 Total Effluent Displaced Emissions (Tons)

OAG Comments - February 20, 2019

Exhibit 3

\$126,672	\$1,159,535
\$13,028	\$119,252
\$23	\$206
\$3,394,451	\$28,627,151
\$27,762	\$254,130

NOx	132	
SOx	9	
СО	88	
CO2	529,200	
PM25 13		
Lead (Pb) 0		
Mercury (Mg) 0		
Total		

2028	Total
\$5.31	n/a
\$26.53	n/a
\$280,796	\$1,090,577
\$1,403,978	\$5,452,887

Figur

Effluent	Displaced Emissions (Tons)
CO2	529,200

OAG Comments - February 20, 2019 Exhibit 3

re 1 -- Page 22

Low Externality Scenario High Externality Scenario
--

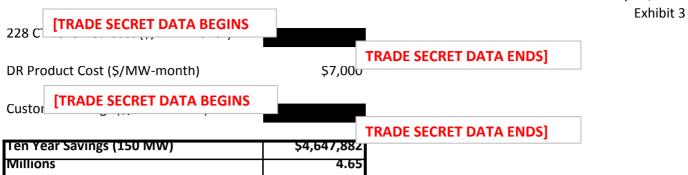
OAG Comments - February 20, 2019 Exhibit 3

\$389,936	\$1,159,535		
\$47,871	\$119,252		
\$117	\$206		
\$6,130,583	\$28,627,151		
\$101,949	\$254,130		
\$0	\$0		
\$0	\$0		
\$6,670,457	\$30,160,275		

re 2 -- Page 22

Low Regulation Penalty	High Regulation Penalty
\$1,090,577	\$5,452,887

OAG Comments - February 20, 2019





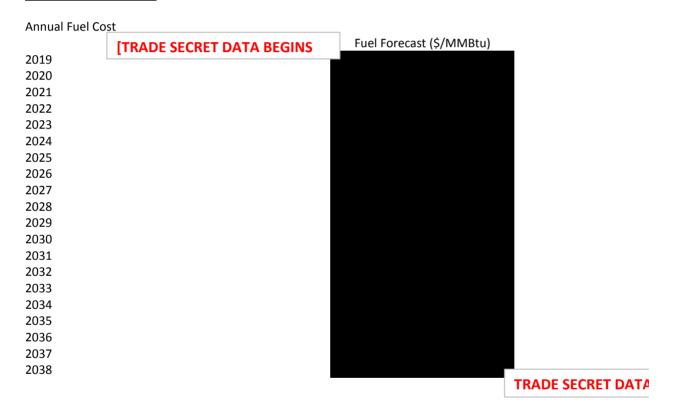
Annual VOM Cost



OAG Comments - February 20, 2019



Annual Fuel Cost (\$000)



OAG Comments - February 20, 2019

D E F G H I Exhibit 3

A ENDS]

Avg Annual Net Plant Heat Rate					
MBTU/MWh					
2019	9.800				
2020	9.800				
2021	9.800				
2022	9.800				
2023	9.800				
2024	9.800				
2025	9.800				
2026	9.800				
2027	9.800				
2028	9.800				

'A ENDS]

A ENDS]

2019	2020	2021	2022	2023	2024

\ ENDS]

Major Maintenance (\$/MWh)

OAG Comments - February 20, 2019 Exhibit 3



\ ENDS]

OAG Comments - February 20, 2019

J K L M N O P Q Exhibit 3

2025 2026 2027 2028 2029 2030 2031 2032

OAG Comments - February 20, 2019

R S T U V W X Y Exhibit 3

2033 2034 2035 2036 2037 2038

OAG Comments - February 20, 2019

Z AA AB AC AD AE AF AG AH Exhibit 3

OAG Comments - February 20, 2019

AI AJ AK AL AM AN AO AP AQ Exhibit 3

OAG Comments - February 20, 2019

AR AS AT AU AV AW AX AY AZ BANIbit 3

OAG Comments - February 20, 2019 Exhibit 3

BB Ex