

Table B-2 Boilers 1 & 2 - No. 6 Fuel Oil and Natural Gas

Pollutants	Boilers - Baseline Actual Emissions (tpy)	Future Potential Emissions (tpy)			Maximum Case (tpy)	Startup Emissions (tpy)	Emissions Change (tpy)
	AG-1 and AG-2	50% FO	25% FO	100% NG			
NOx	6,455	5,751	5,818	5,884	5,884	2	-569
CO	1,373	782	781	779	782	1	-590
VOC	16	24	23	23	24	0	8
PM	1,178	880	591	295	880	0	-298
PM ₁₀	1,245	892	569	238	892	0	-353
PM _{2.5}	823	622	424	221	622	0	-202
SO ₂	11,063	5,401	2,739	15	5,401	2	-5,660
H ₂ SO ₄	492	240.45	122	1.13	240	0	-251
Pb	0.2	0.1	0.1	0.0	0.1	0.0	-0.1
Fluoride	2.46	2.82	1.69	0.52	2.82	0	0.36
GHG Total Mass	3,841,229	2,911,430	2,691,186	2,465,162	2,911,430	3,801	-925,997
CO ₂ e	3,854,027	2,918,336	2,695,913	2,467,659	2,918,336	3,815	-931,876
Capacity Factor	63.4%	55.0%	55.0%	55.0%	55.0%		
Heat Input (HHV), MMBtu/yr	46,450,108	41,228,444	41,703,426	42,178,408	42,178,408		
No. 6 residual fuel oil, gal/yr	309,667,384	137,428,147	69,505,710	0	137,428,147		
Natural gas, MMscf/yr	0	20,210	30,664	41,351	41,351		

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Table B-3 CC 1 & 2 - Natural Gas and No. 2 Fuel Oil ^(a)

Pollutants	Baseline Actual Emissions (tpy)	Future Potential Emissions (tpy)					Startup / Shutdown Emissions (tpy)	Emission Change (tpy)
		Oil and NG			Only NG	Maximum		
		CC 1 & 2	CC 1 & 2 - Oil	CC 1 & 2 - NG	CC 1 & 2 - Total	CC 1 & 2 - Total		
NOx	1,059	171	553	724	574	724	—	-335
CO	42	7	168	175	175	175	41.8	175
VOC	10	1	14	15	14	15	3	9
PM	26	4	14	18	15	18	—	-8
PM ₁₀	53	8	50	58	51	58	—	5
PM _{2.5}	53	8	50	58	51	58	—	5
SO ₂	195	14	5	19	5	19	—	-176
H ₂ SO ₄	10.75	1.16	0.44	1.61	0.46	1.61	—	-9
Pb	0.0	0.0	0.0	0.0	0.0	0.0	—	-0.02
Fluoride	0.47	0.08	0.21	0.28	0.22	0.283	—	-0.18
GHG Total Mass	276,150	44,577	878,508	923,085	911,971	923,085	—	646,935
CO ₂ e	277,084	44,728	879,398	924,126	912,894	924,126	—	647,042
Projected Total Annual Operating Hours ^(b)	-	225 (c)	5,907	6,132	6,132	6,132		
Capacity Factor	7.96%	1.3%	33.7%	35.0%	35.0%	35.0%		
No. 2 distillate fuel oil, gal/yr	25,089,190	4,050,000	0	4,050,000	0	4,050,000		
Natural gas, MMscf/yr	0	0	14,736	14,736	15,298	15,298		
Total fuel use, MMBtu/yr HHV	3,387,041	546,750	15,031,086	15,577,836	15,603,626	15,603,626		
Total fuel use, MMBtu/yr LHV	3,195,321	515,802	13,541,519	14,057,321	14,057,321	14,057,321		

(a) CC 1 & 2 will always fire either oil or natural gas, no co-firing of fuels.

(b) Projected equivalent hours (per CC Unit) at capacity.

(c) Projected turbine hours on oil firing (900 total hours for the entire CC plant, i.e., including CC 1 and 2)

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Appendix C

Aguirre Offshore GasPort Project
Facility-Wide Potential Emissions

Source	Annual emissions, tons/year													
	NO _x	CO	VOC	PM ₁₀	PM _{2.5}	SO ₂	HAP	NH ₃	Pb	H ₂ SO ₄	CO ₂	CH ₄	N ₂ O	CO _{2e}
B1 BOG (8760 hrs)	17.8	21.7	1.0	7.3	7.3	0.6	1.8	4.4	4.7E-07	0.088	114,530	2.2	0.2	114,648
B2 BOG (8760 hrs)	17.8	21.7	1.0	7.3	7.3	0.6	1.8	4.4	4.7E-07	0.088	114,530	2.2	0.2	114,648
B1 HFO (696 hrs)	1.6	0.1	0.02	0.4	0.3	4.5	0.010	0.04	8.2E-05	0.190	1,371	0.1	0.01	1,375
B2 HFO (696 hrs)	1.6	0.1	0.02	0.4	0.3	4.5	0.010	0.04	8.2E-05	0.190	1,371	0.1	0.01	1,375
B1 cold startup (HFO) (48 hrs)	0.9	0.01	0.003	0.09	0.07	0.9	0.002	0.0	1.7E-05	0.039	281	0.011	0.002	282
B2 cold startup (HFO) (48 hrs)	0.9	0.01	0.003	0.09	0.07	0.9	0.002	0.0	1.7E-05	0.039	281	0.011	0.002	282
B1 burner lighting (183 hrs)	0.4	0.45	0.02	0.25	0.22	1.2	0.041	0.1	2.2E-05	0.053	2,764	0.060	0.007	2,767
B2 burner lighting (183 hrs)	0.4	0.45	0.02	0.25	0.22	1.2	0.041	0.1	2.2E-05	0.053	2,764	0.060	0.007	2,767
B1 (worst case annual total)	18.8	21.7	1.0	7.3	7.1	7.1	1.8	4.4	1.2E-04	0.4	114,901	2.2	0.2	115,021
B2 (worst case annual total)	18.8	21.7	1.0	7.3	7.1	7.1	1.8	4.4	1.2E-04	0.4	114,901	2.2	0.2	115,021
Aux Boiler (worst case)	12.7	30.9	0.7	5.2	5.2	0.4	1.3	3.1	3.4E-07	0.063	81,482	1.5	0.2	81,566
DFDE (worst case)	17.2	18.0	4.4	0.5	0.5	0.5	0.1	0	1.9E-04	0.038	2,335	0.06	0.01	2,339
Platform engine 1 (NG)	4.5	9.1	3.2	0.15	0.15	0.012	1.4	0	9.8E-06	9.0E-04	2,335	0.04	0.004	2,338
Platform engine 2 (NG)	4.5	9.1	3.2	0.15	0.15	0.012	1.4	0	9.8E-06	9.0E-04	2,335	0.04	0.004	2,338
Platform engine 3 (DO)	0.2	0.2	0.06	0.01	0.01	0.004	0.02	0	2.9E-05	3.3E-04	546	0.02	0.004	547
Platform engine 4 (DO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fire pump 1	0.7	0.2	0.1	0.02	0.02	0.001	0.007	0	9.1E-06	1.1E-04	147	0.006	0.001	148
Fire pump 2	0.7	0.2	0.1	0.02	0.02	0.001	0.007	0	9.1E-06	1.1E-04	147	0.006	0.001	148
Fugitive Methane (FSRU and platform)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.8	NA	220
Venting Emissions	NA	NA	0.003	NA	NA	NA	NA	NA	NA	NA	NA	0.03	NA	1
LNGC Unloading (worst case)	31.2	11.8	2.0	0.51	0.44	5.8	0.05	0	1.0E-04	0.28	2,135	0.07	0.01	2,139
FSRU Misc. Emergency Engines	0.5	0.08	0.01	0.01	0.01	0.0001	0.0005	0	9.5E-07	1.12E-05	15	0.001	0.0001	15
Facility Totals (PSD)	109.6	122.8	15.6	21.2	20.7	20.9	8.0	11.9	6.0E-04	1.1	321,266	14.9	0.6	321,825



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2-June 2014