

**Los Esteros Critical Energy Facility  
Title V CEMS Semi-Annual Monitoring Report  
December 1, 2011 – May 31, 2012**

**Table VII - A  
Applicable Limits and Compliance Monitoring Requirements  
S-1, S-2, S-3, & S-4 COMBUSTION GAS TURBINES#1, 2, 3, 4**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
NO <sub>x</sub>	BAAQMD 9-9-301.1.3	Y		9 ppmv @ 15% O <sub>2</sub> , dry	BAAQMD 9-9-501 and BAAQMD condition #19610, part 25c	C	CEM	X	
NO <sub>x</sub>	BAAQMD 9-9-301.1.3	Y		9 ppmv @ 15% O <sub>2</sub> , dry	BAAQMD condition #19610, part 26a	P/A	Source test	X	
NO <sub>x</sub>	NSPS, 40 CFR 60.332 (a)(1)	Y		99 ppmv @ 15% O <sub>2</sub> , dry	NSPS 40 CFR 60.334(b)(2) and BAAQMD Condition #19610, Part 29	N	CEM	X	
NO <sub>x</sub>	None	Y		None	40 CFR 75.10	C	CEM	N/A	
NO <sub>x</sub> (as NO <sub>2</sub> )	BAAQMD condition #19610, part 10	Y		1224 lb/day and 102 lb/hr for all turbines combined during commissioning, including startup and shutdown of turbine without catalyst	BAAQMD condition #19610, parts 7 and 25c	C	CEM	N/A	

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								Yes	No
NO <sub>x</sub> (as NO <sub>2</sub> )	BAAQMD condition #19610, part 10	Y		410 lb/day and 34.2 lb/hr for all turbines combined during commissioning, including startup and shutdown of turbine with catalyst	BAAQMD condition #19610, parts 7 and 25c	C	CEM	N/A	
NO <sub>x</sub>	BAAQMD condition #19610, part 19a	Y		5 ppmv @ 15% O <sub>2</sub> , dry, 3-hr <sup>1</sup> average except during turbine startup or shutdown	BAAQMD condition #19610, parts 19a and 25c	C	CEM	X	
NO <sub>x</sub>	BAAQMD condition #19610, part 19a	Y		5 ppmv @ 15% O <sub>2</sub> , dry, 3-hr <sup>1</sup> average except during turbine startup or shutdown	BAAQMD condition #19610, part 26a	P/A	Source test	X	
NO <sub>x</sub> (as NO <sub>2</sub> )	BAAQMD condition #19610, part 22	Y		205.2 lb/day for each turbine including startup and shutdown	BAAQMD condition #19610, part 25c	C	CEM	X	
NO <sub>x</sub> (as NO <sub>2</sub> )	BAAQMD condition #19610 part 22	Y		821 lb/day (as NO <sub>2</sub> ) for all turbines combined, including startup and shutdown	BAAQMD condition #19610, part 25c	C	CEM	X	
NO <sub>x</sub> (as NO <sub>2</sub> )	BAAQMD condition #19610, part 22	Y		74.9 tons per year (as NO <sub>2</sub> ) for all turbines combined, except during startup or shutdown	BAAQMD condition #19610, part 25c	C	CEM	X	
CO	BAAQMD condition #19610, part 10	Y		1056 lb/day and 88 lb/hr for all turbines combined during commissioning, including startup and shutdown of turbine without catalyst	BAAQMD condition #19610, parts 7 and 25c	C	CEM	N/A	

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								Yes	No
CO	BAAQMD condition #19610, part 10	Y		300 lb/day and 25 lb/hr for all turbines combined during commissioning, including startup and shutdown of turbine with catalyst	BAAQMD condition #19610, parts 7 and 25c	C	CEM	N/A	
CO	BAAQMD condition #19610, part 19c	Y		4 ppmv @ 15% O <sub>2</sub> , dry, 3-hr average except during turbine startup or shutdown	BAAQMD condition #19610, parts 19c and 25c	C	CEM	X	
CO	BAAQMD condition #19610, part 19c	Y		4 ppmv @ 15% O <sub>2</sub> , dry, 3-hr average except during turbine startup or shutdown	BAAQMD condition #19610, part 26c	P/A	Source test	X	
CO	BAAQMD condition #19610, part 22	Y		99.8 lb/day for each turbine including startup and shutdown	BAAQMD condition #19610, part 25c	C	CEM	X	
CO	BAAQMD condition #19610, part 22	Y		399 lb/day for all turbines combined, including startup and shutdown	BAAQMD condition #19610, part 25c	C	CEM	X	
CO	BAAQMD condition #19610, part 22	Y		72.9 tons per year for all turbines combined, including startup and shutdown	BAAQMD condition #19610, part 25c	C	CEM	X	
CO <sub>2</sub>		Y		None	40 CFR 75.10	C	CEM (CO <sub>2</sub> ) or CEM (O <sub>2</sub> ) or fuel flow monitor	N/A	
SO <sub>2</sub>	BAAQMD 9-1-301	Y		GLC <sup>1</sup> of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours		N		N/A	
	BAAQMD 9-1-302	Y		300 ppm (dry)	BAAQMD Condition 19610, Part 26f	P/A	Source test	X	

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								Yes	No
SO <sub>2</sub>	NSPS 40 CFR 60.333(a)	Y		0.015% (vol.) @ 15% O <sub>2</sub> (dry)	NSPS 40 CFR 60.334(b)(1) and BAAQMD Condition 19610, Part 29	P/twice per month for six months, followed by quarterly for one year, followed by a semiannual frequency	Sulfur Analysis	X	
SO <sub>2</sub>	None	Y		None	40 CFR 75.11, 40 CFR 75, Appendix D, part 2.3		Fuel measurements, calculations	N/A	
SO <sub>2</sub>	BAAQMD condition #19610, part 10	Y		32 lb/day for all turbines combined during commissioning, including startup and shutdown of turbines	BAAQMD Condition 19610, Part 29	P/twice per month for six months, followed by quarterly for one year, followed by a semiannual frequency	Sulfur Analysis	N/A	
SO <sub>2</sub>	BAAQMD condition #19610, part 19f	Y		0.33 lb/hr for all turbines combined	BAAQMD Condition 19610, Part 29	P/twice per month for six months, followed by quarterly for one year, followed by a semiannual frequency	Sulfur Analysis	X	
SO <sub>2</sub>	BAAQMD condition #19610, part 19f	Y		0.33 lb/hr for all turbines combined	BAAQMD condition #19610, part 26f	P/A	Source test	X	

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								Yes	No
	BAAQMD condition #19610, part 22	Y		7.9 lb/day for each turbine including startup and shutdown of turbines except during commissioning	BAAQMD Condition 19610, Part 29	P/twice per month for six months, followed by quarterly for one year, followed by a semiannual frequency	Sulfur Analysis	X	
SO <sub>2</sub>	BAAQMD condition #19610, part 22	Y		32 lb/day for all turbines combined including startup and shutdown of turbines	BAAQMD condition #19610, part 29	P/twice per month for six months, followed by quarterly for one year, followed by a semiannual frequency	Fuel Gas Total sulfur content analysis	X	
	BAAQMD condition #19610, part 22	Y		5.8 tons/calendar year for All turbines combined including startup and shutdown of turbines except during commissioning	BAAQMD Condition 19610, Part 29	P/twice per month for six months, followed by quarterly for one year, followed by a semiannual frequency.	Gas Total sulfur content analysis	X	
Opacity	BAAQMD 6-301	Y		> Ringelmann No. 1 for no more than 3 minutes in any hour		N		X	
Opacity	BAAQMD condition #19610, part 18	Y		> Ringelmann No. 1 for no more than 3 minutes in any hour or equivalent 20% opacity		N		X	
FP	BAAQMD 6-310	Y		0.15 grain/dscf		N		X	

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								Yes	No
PM <sub>10</sub>	BAAQMD condition #19610, part 10	Y		240 lb/day for All turbines combined during commissioning and including startup and shutdown of turbines	BAAQMD condition #19610 part 26c	P/A	Source test, records & calculation	N/A	
PM <sub>10</sub>	BAAQMD condition #19610 part 19c	Y		2.5 lb/hr for each turbine	BAAQMD condition #19610, part 26c	P/A	Source test	X	
	BAAQMD condition #19610, part 22	Y		60 lb/day for each turbine including startup and shutdown except during commissioning	BAAQMD condition #19610, part 26c	P/A	Source Test	X	
	BAAQMD condition #19610, part 22	Y		240 lb/day for all turbines combined, including startup and shutdown and except during commissioning	BAAQMD condition #19610, part 26c	P/A	Source Test	X	
	BAAQMD condition #19610 part 22	Y		43.8 tons/year for all turbines combined including startup and shutdown.	BAAQMD condition #19610, part 26c	P/A	Source Test	X	
POC	BAAQMD condition #19610 part 10	Y		114 lb/day for all turbines combined during commissioning and including startup and shutdown of turbines	BAAQMD condition #19610 part 26d	P/A	Source Test, records & calculation	N/A	
POC	BAAQMD condition #19610, part 19d	Y		2 ppmv @ 15% O <sub>2</sub> , dry, 3 <sup>1</sup> -hr average except during turbine startup or shutdown	BAAQMD condition #19610, part 26d	P/A	Source Test	X	
	BAAQMD condition #19610, part 22	Y		28.3 lb/day for each turbine including startup and shutdown	BAAQMD condition #19610, part 26d	P/A	Source Test	X	

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								Yes	No
	BAAQMD condition #19610, part 22	Y		114 lb/day for all turbines combined, including startup and shutdown	BAAQMD condition #19610, part 26d	P/A	Source Test	X	
POC	BAAQMD condition #19610 part 22	Y		20.8 tons/year for all turbines combined including startup and shutdown.	BAAQMD condition #19610, part 26d	P/A	Source Test	X	
NH <sub>3</sub>	BAAQMD condition #19610, part 19b	N		10 ppmv @ 15% O <sub>2</sub> , dry, averaged over 3-hrs* except during turbine startup or shutdown	BAAQMD condition #19610, parts 19b and 26b	C	NH <sub>3</sub> flow meter	X	
	BAAQMD condition #19610, part 19b	N		10 ppmv @ 15% O <sub>2</sub> , dry, averaged over 3-hrs* except during turbine startup or shutdown	BAAQMD condition #19610, part 26b	P/A	Source Test	X	
	BAAQMD condition #19610, part 22	Y		151.7 lb/day for each turbine including startup and shutdown	BAAQMD condition #19610, part 25b	P/A	Ammonia flow meter	X	
	BAAQMD condition #19610, part 22	Y		607 lb/day for all turbines combined, including startup and shutdown	BAAQMD condition #19610, part 25b	P/A	Ammonia flow meter	X	
	BAAQMD condition #19610 part 22	Y		110.7 tons/year for all turbines combined including startup and shutdown.	BAAQMD condition #19610, part 26b	P/A	Source test	X	
Heat input limit	BAAQMD condition #19610, part 24	Y		472.6 MM BTU/hr (114V), for each turbine	BAAQMD condition #19610, part 25d	C	Fuel meter, firing monitor, calculations	X	

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								Yes	No
	BAAQMD condition #19610, part 24	Y		472.6 MM BTU/hr (HHV), for each turbine	BAAQMD condition #19610, part 25d	P/M	Fuel composition analysis	X	
Heat input limit	BAAQMD condition #19610, part 24	Y		472.6 MM BTU/hr (HHV), for each turbine	BAAQMD condition #19610, part 25d	P/A	Source test	X	
	BAAQMD condition #19610, part 24	Y		11,342 MM BTU/day (HHV) for each turbine	BAAQMD condition #19610, part 25d	C	fuel meter, firing monitor, calculations	X	
	BAAQMD condition #19610, part 24	Y		11,342 MM BTU/day (HHV) for each turbine	BAAQMD condition #19610, part 25d	P/Q	Fuel composition analysis	X	
Heat input limit	BAAQMD condition #19610, part 24	Y		16,560,000 MM BTU/yr (HHV) for all turbines	BAAQMD condition #19610, part 25d	C	fuel meter, firing monitor, calculations	X	
	BAAQMD condition #19610, part 24	Y		16,560,000MM BTU/yr. (HHV) for all turbines	BAAQMD condition #19610, part 25d	P/Q	Fuel composition analysis	X	
Unabated firing	BAAQMD condition #19610, part 8	Y		100 hours during commissioning	BAAQMD condition #19610, part 8	P/H	Records	N/A	
MW	N/A			None	BAAQMD condition #19610, part 26h	P/A	Source test	X	
Gas temperature	N/A			None	BAAQMD condition #19610, part 26j	P/A	Source test	X	



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								Yes	No
Stack gas flow	N/A			None	UAAQMD condition #19610, part 26j	P/A	Source test	X	
NH <sub>3</sub> injection rate	N/A			None	UAAQMD condition #19610, part 26k	P/A	Source test	X	

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**Table VII – B  
Applicable Limits and Compliance Monitoring Requirements  
S-5 FIRE PUMP DIESEL ENGINE**

Type of Limit	Citation of Limit	VE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
Opacity	BAAQMD 6-303	Y		>Ringelmann No.2 for no more than 3 minutes in any hour		N		X	
FP	BAAQMD 6-310	Y		0.15 gr/dscf Particulate Weight Limitation		N		X	
SO <sub>2</sub>	BAAQMD 9-1-301	N		GLC <sup>1</sup> of 0.5 ppm for 3 min. or 0.25 ppm for 60 min or 0.05 ppm for 24 hours		N		N/A	
SO <sub>2</sub>	BAAQMD 9-1-304	Y		0.5% sulfur in fuel by weight	BAAQMD Condition #19610, part 39	P/E	Fuel certification	X	
SO <sub>2</sub>	BAAQMD Condition #19610, part 39	N		Sulfur content of fuel less than 0.05% by weight	BAAQMD Condition #19610, part 39	P/E	Fuel certification by vendor	X	
Hours of operation	BAAQMD Regulation 9-8-330.1	N		Emergency use for an unlimited number of hours	BAAQMD Regulation 9-8-330	P	Records	X	
Hours of operation	BAAQMD Condition #19610, part 40	N		Reliability related activities less 100 hr/yr	BAAQMD Condition #19610, parts 41 & 42	C P/E	Records	X	

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**Table VII – C**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-6 EMERGENCY GENERATOR NATURAL GAS FIRED ENGINE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance	
								Yes	No
Opacity	BAAQMD 6-303	Y		>Ringelmann No. 2 for no more than 3 minutes in any hour		N		<b>SOURCE NOT INSTALLED</b>	
FP	BAAQMD 6-310	Y		0.15 grains/pcf Particulate Weight Limitation		N			
SO <sub>2</sub>	BAAQMD 9-1-301	N		G.I.C. of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.05 ppm for 24 hours		N			
	BAAQMD 9-1-302	Y		300 ppm (dry)		N			
Hours of operation	BAAQMD 9-8-503	Y		Emergency use for an unlimited number of hours	BAAQMD Regulation 9-8-530	C	Hour meter, recordkeeping		
Hours of operation	BAAQMD Condition #19610, part 44	Y		Reliability related activities not to exceed 100 hr/yr in any consecutive 12-month period	BAAQMD Condition #19610, Parts 43 & 46	C P/E	Hour meter, recordkeeping		
Hours of operation	BAAQMD Condition #19610, part 46	Y		Maintain operating time log		P	Records		