1400 Pacheco Pass Hwy Gilroy, CA 95021-1764

November 7, 2019

Director of Compliance and Enforcement Bay Area Air Quality Management District 375 Beale Street, Suite 600 San Francisco, CA 94105-2097

Attn: Title V Reports

Re:

Calpine Gilroy Cogen, L.P. & Gilroy Energy Center, LLC #B1180

**Title V Semi-Annual Monitoring Report** 

Reporting Period May 1, 2019 to October 31, 2019

Dear Director:

To Whom It May Concern:

Enclosed is the Title V CEMS Semi-Annual Monitoring Report for the Calpine Gilroy Cogen, L.P. & Gilroy Energy Center, LLC ("Gilroy") for the reporting period May 1, 2019 to October 31, 2019.

Gilroy is currently in compliance with the District CEMS regulations. Gilroy maintained compliance with the monitoring requirements listed in the Title V permit during this reporting period.

By signing this report I am certifying that based on information and belief formed after reasonable inquiry, the statements and information in the attached report are true, accurate, and complete.

If you have any questions or require additional information, do not hesitate to contact Rosemary Silva, EHS Specialist, at (408) 361-4954.

Sincerely.

Kevin Karwick

Authorized Signatory and General Manager

Calpine Gilroy Cogen, L.P. & Gilroy Energy Center, LLC

Cc:

Region IX,

**EPA** 

Mary Dyas

CEC

			Future		Monitoring	Monitoring		Compliance
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring	(Intermittent/Continuous)
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре	
$NO_x$	BAAQMD	N		9 ppmv @ 15% O <sub>2</sub> , dry	BAAQMD	С	CEMS	Continuous
	9-9-301.1.3				9-9-501			
	BAAQMD	N		0.43 lb/MW-hr or 9 ppmv	BAAQMD	С	CEMS	Continuous
	9-9-301.2				9-9-501			
$NO_x$	SIP	Y		9 ppmv @ 15% O <sub>2</sub> , dry	BAAQMD	С	CEMS	Continuous
	9-9-301.3				9-9-501 and			
					BAAQMD			
					condition			
					#18102, part			
					24			
	SIP	Y		9 ppmv @ 15% O <sub>2</sub> , dry	BAAQMD	P	Source test	Continuous
	9-9-301.3				condition		every 8,000	
i					#18102,		hrs. or every	
			•		part 25		3 yrs.,	
							whichever	
							comes first	
NOx	NSPS, 40	Y		99 ppmv @ 15% O <sub>2</sub> , dry	NSPS, 40	С	CEMS	Continuous
	CFR 60.332			4-hour rolling average	CFR 60.334			
	(a)(1)			(Arithmetic average of the	(b)			
				average NO <sub>x</sub> concentration				
				measured by the CEMS for				
				a given hour and the three				
		İ		unit operating hour average				
				NO <sub>x</sub> concentrations				
				immediately preceding that				
				unit operating hour)				
	None	Y		None	40 CFR 75.10	С	CEMS	Continuous
	BAAQMD	Y		5 ppmv @ 15% O <sub>2</sub> , dry,	BAAQMD	С	CEMS	Continuous
	condition			1-hr average except during	condition			
	#18102,			turbine startup or shutdown	#18102, part			
	part 19.1				19.1, 24			
	BAAQMD	Y	İ	5 ppmv @ 15% O <sub>2</sub> , dry,	BAAQMD	P	Source test	Continuous
	condition			1-hr average except during	condition		every 8,000	
	#18102,			turbine startup or shutdown	#18102,		hrs. or every	
	part 19.1		ļ		part 25		3 yrs.,	
İ							whichever	
	D. 1 63 65			604044			comes first	
	BAAQMD	Y		604.8 lb/calendar day (as	BAAQMD	С	CEMS	Continuous
	condition			NO <sub>2</sub> ) for S-3, S-4, and S-5	condition			
	#18102,		ĺ	combined	#18102,			
	part 22				part 24			

			Future		Monitoring	Monitoring		Compliance
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring	(Intermittent/Continuous)
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type	
NOx	BAAQMD	Y		39.5 tons per calendar year	BAAQMD	С	CEMS	Continuous
	condition			(as NO <sub>2</sub> ) for S-3, S-4, and	condition			
	#18102,			S-5 combined	#18102,			
	part 22				part 24			
СО	BAAQMD	Y		6 ppmv @ 15% O <sub>2</sub> , dry,	BAAQMD	С	CEMS	Continuous
	condition			3-hr average except during	condition			
	#18102,			turbine startup or shutdown	#18102,			
·	part 19.3				parts 19.3 and			
					24			
	BAAQMD	Y		6 ppmv @ 15% O <sub>2</sub> , dry,	BAAQMD	P	Source test	Continuous
	condition			3-hr average except during	condition		every 8,000	
	#18102,			turbine startup or shutdown	#18102,		hrs. or every	
	part 19.3				part 25		3 yrs.,	
							whichever	
							comes first	
	BAAQMD	Y		446.1 lb/calendar day for	BAAQMD	С	CEMS	Continuous
	condition			S-3, S-4, and S-5 combined	condition			
	#18102,				#18102,			
	part 22				part 24			
СО	BAAQMD	Y		36.0 tons per calendar year	BAAQMD	С	CEMS	Continuous
	condition			for S-3, S-4, and S-5	condition			
	#18102,	İ		combined	#18102,			
	part 22				part 24			
CO <sub>2</sub>		Y		None	40 CFR 75.10	С	CEMS	Continuous
							$(CO_2)$	
							or CEMS	
							(O <sub>2</sub> ) or fuel	
			1				flow	
							monitor	
$SO_2$	BAAQMD	Y		GLC <sup>1</sup> of 0.5 ppm for 3 min		N		Continuous
	9-1-301		İ	or 0.25 ppm for 60 min or				
				0.05 ppm for 24 hours				
	BAAQMD	Y		300 ppm (dry)	BAAQMD	P/A	Total sulfur	Continuous
	9-1-302		i		condition	}	anđ	
					#18102,		hydrogen	
					part 24		sulfide	
							analysis	

			Future		Monitoring	Monitoring	T	Compliance
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring	(Intermittent/Continuous)
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type	
$SO_2$	NSPS	Y		SO <sub>2</sub> in gases exiting turbine	NSPS, 40	N		Continuous
	40 CFR			≤ 0.015% (vol.)	CFR 60.334			
	60.333(a)			@15% O2 (dry)	(h)(1)			
	or			or				
	60.333(b)			Total sulfur in fuel				
				combusted in turbines				
				$\leq 0.8\%$ by wt. (8000 ppmw)				
SO <sub>2</sub>	None	Y		None	40 CFR		Fuel	Continuous
					75.11, 40		measure-	
					CFR 75,		ments,	
					Appendix D,		calculations	
					part 2.3			
$SO_2$	BAAQMD	Y		0.33 lb/clock hr for S-3,	BAAQMD	P/A	Total sulfur	Continuous
	condition			S-4, and S-5 combined	condition		and	
	#18102,				#18102,		hydrogen	
	part 19.6				part 24		sulfide	
					_		analysis	
	BAAQMD	Y		0.33 lb/clock hr for S-3,	BAAQMD	P	Source test	Continuous
	condition	İ		S-4, and S-5 combined	condition		every 8,000	
	#18102,				#18102,		hrs. or every	
	part 19.6	1			part 25		3 yrs.,	
							whichever	
		ı			ļ		comes first	
SO <sub>2</sub>	BAAQMD	Y		23.8 lb/calendar day for S-	BAAQMD	P/A	Total sulfur	Continuous
	condition			3, S-4, and S-5 combined	condition		and	
	#18102,	ĺ			#18102,		hydrogen	
	part 22		1		part 24		sulfide	
				,			analysis	
	BAAQMD	Y		1.9 tons/calendar year for	BAAQMD	P/A	Total sulfur	Continuous
	condition			S-3, S-4, and S-5 combined	condition		and	
	#18102,				#18102,		hydrogen	
	part 22				part 24		sulfide	
							analysis	
	BAAQMD	Y		Total sulfur content in	BAAQMD	P/Q	Analysis of	Continuous
	condition			natural gas combusted in	condition		total sulfur	
	#18102,		İ	turbines	#18102,		content in	
	part 23.b			$\leq 1.0 \text{ gr/}100 \frac{0.25 \text{ gr/}100}{\text{scf}} \text{ scf}$	part 24.e		fuel	
Opacity	BAAQMD	N		> Ringelmann No. 1 for no		N		Continuous
	6-1-301		]	more than 3 minutes in any				
				hour				

			Future		Monitoring	Monitoring		Compliance
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring	(Intermittent/Continuous)
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type	(Intermittent/Continuous)
Opacity	SIP 6-301	Y	200	> Ringelmann No. 1 for no	Citation	N	7,790	Continuous
		, i		more than 3 minutes in any		- 1		
				hour	•			
Opacity	BAAQMD	Y		> Ringelmann No. 1 for no		N		Continuous
	condition			more than 3 minutes in any				
	#18102,		i	hour or equivalent 20%				
	part 18			opacity				
FP	BAAQMD	N		0.15 grain/dscf		N		Continuous
	6-1-310							
FP	SIP 6-310	Y		0.15 grain/dscf		N		Continuous
$PM_{10}$	BAAQMD	Y		2.5 lb/clock hr for each	BAAQMD	P	Source test	Continuous
	condition	-		turbine, except during	condition		every 8,000	
	#18102,			turbine startup or shutdown	#18102,		hrs. or every	
	part 19.5				part 25		3 yrs.,	
							whichever	
						····	comes first	
$PM_{10}$	BAAQMD	Y		180 lb/calendar day for S-3,	BAAQMD	P	Source Test	Continuous
	condition			S-4 & S-5 combined	condition		every 8,000	
	#18102,				#18102,		hrs. or every	
	part 22				part 25		3 yrs.,	
							whichever	
							comes first,	
		İ					and fuel	
							monitoring	
$PM_{10}$	BAAQMD	Y		14.7 tons/year for S-3, S-4	BAAQMD	Р	Source Test	Continuous
	condition			& S-5 combined	condition		every 8,000	
	#18102,				#18102,		hrs. or every	
	part 22				part 25		3 yrs.,	
							whichever	
							comes first,	
					İ		and fuel	
							monitoring	
POC	BAAQMD	Y		2 ppmv @ 15% O2, dry,	BAAQMD	Р	Source Test	Continuous
	condition			3-hr average except during	condition		every 8,000	
	#18102,			turbine startup or shutdown	#18102,		hrs. or every	
	part 19.4				part 19.4		3 yrs.,	
							whichever	
							comes first.	

			Future		Monitoring	Monitoring		Compliance
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring	(Intermittent/Continuous)
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type	(Intermittent/Continuous)
POC	BAAQMD	Y		2 ppmv @ 15% O <sub>2</sub> , dry,	BAAQMD	P	Source Test	Continuous
	condition			3-hr average except during	condition	1	every 8,000	Commuous
	#18102,			turbine startup or shutdown	#18102,		hrs. or every	
	part 19.4			tarome startup of shatdown	part 25		3 yrs.,	
	Partist				part 23		whichever	
					<b>.</b>		comes first.	
	BAAQMD	Y		84 lb/calendar day for S-3,	BAAQMD	P	Source Test	Continuous
	condition	•		S-4, and S-5 combined	condition		every 8,000	Continuous
	#18102,			5-4, and 5-5 combined	#18102,		hrs. or every	
	part 22				part 25		3 yrs.,	
	purt 22				part 23		whichever	
							comes first.,	
							and fuel	
							monitoring	
POC	BAAQMD	Y		6.9 ton/calendar year for	BAAQMD	P	Source Test	Cantinuana
roc	condition	1		•	condition	P		Continuous
	#18102,			S-3, S-4, and S-5 combined	<u> </u>		every 8,000	
1					#18102,		hrs. or every	
	part 22	İ			part 25		3 yrs.,	
							whichever	
							comes first.,	
							and fuel	
	D						monitoring	
NH3	BAAQMD	N		10 ppmv @ 15% O <sub>2</sub> , dry,	BAAQMD	С	Ammonia	Continuous
Ï	condition			averaged over 3 hrs except	condition		injection	
	#18102,		i	during turbine startup or	#18102,		rate monitor,	
}	Part 19.2			shutdown	parts 19.2 and		calculations,	i
					24, 25		and periodic	
							source	
			İ				testing every	
		ļ					8,000 hrs. or	
		İ			ŀ		every 3 yrs.,	
					i		whichever	
							comes first	
	BAAQMD	N		10 ppmv @ 15% O <sub>2</sub> , dry,	BAAQMD	P	Source Test	Continuous
	condition			averaged over 3 hrs except	condition		every 8,000	
	#18102,			during turbine startup or	#18102,		hrs. or every	
	Part 19.2			shutdown	part 25		3 yrs.,	
			1				whichever	
							comes first.	

			Future		Monitoring	Monitoring		Compliance
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring	(Intermittent/Continuous)
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type	
Heat	BAAQMD	Y		500 MM BTU/clock hr	BAAQMD	С	Fuel meter,	Continuous
input	condition			(HHV) for each turbine,	condition		firing	
limit	#18102,			S-3, S-4, and S-5	#18102,		monitor	
	part 23				part 24d			
	BAAQMD	Y		500 MM BTU/clock hr	BAAQMD	P/Q	Fuel	Continuous
	condition			(HHV), for each turbine,	condition		composition	
	#18102,			S-3, S-4, and S-5	#18102,		analysis	
	part 23				part 24d			
Heat	BAAQMD	Y		500 MM BTU/clock hr	BAAQMD	P	Source Test	Continuous
input	condition			(HHV), for each turbine,	condition		every 8,000	
limit	#18102,			S-3, S-4, and S-5	#18102,		hrs. or every	
	part 23				part 25		3 yrs.,	
							whichever	
						!	comes first.	
Heat	BAAQMD	Y		12,000 MM BTU/day	BAAQMD	C	fuel meter,	Continuous
input	condition			(HHV) for each turbine,	condition		firing	
limit	#18102,			S-3, S-4, and S-5	#18102,		monitor,	
	part 23				part 30.a		calculations	
	BAAQMD	Y		12,000 MM BTU/day	BAAQMD	P/Q	Fuel	Continuous
	condition			(HHV) for each turbine,	condition		composition	
	#18102,			S-3, S-4, and S-5	#18102,		analysis	
	part 23				part 24d			
Heat	BAAQMD	Y		5,494,300 MM BTU/yr, for	BAAQMD	С	fuel meter,	Continuous
input	condition			S-3, S-4, and S-5, Turbines	condition		firing	
limit	#18102,			combined	#18102,		monitor,	
	part 23				part 30.a		calculations	
Heat	BAAQMD	Y		5,494,300 MM BTU/yr, for	BAAQMD	P/Q	Fuel	Continuous
input	condition			S-3, S-4, and S-5, Turbines	condition		composition	
limit	#18102,			combined	#18102,		analysis	
	part 23	İ			part 24d			
MW				None	BAAQMD	P	Source Test	Continuous
					condition		every 8,000	
					#18102,		hrs. or every	
					part 25		3 yrs.,	
							whichever	
							comes first.	

			Future		Monitoring	Monitoring		Compliance
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring	(Intermittent/Continuous)
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре	
Gas				None	BAAQMD	P	Source Test	Continuous
tempe-					condition		every 8,000	
rature					#18102,		hrs. or every	
					part 25		3 yrs.,	
							whichever	
							comes first.	
Stack gas				None	BAAQMD	P	Source Test	Continuous
flow					condition		every 8,000	
					#18102,		hrs. or every	
					part 25		3 yrs.,	
							whichever	
							comes first.	
NH3				None	BAAQMD	P/A	Source Test	Continuous
injection					condition		every 8,000	
rate					#18102,		hrs. or every	
					part 25		3 yrs.,	
!							whichever	
							comes first.	

	Citation of		Future		Monitoring	Monitoring		Compliance
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring	(Intermittent/Continuous)
limit		Y/N	Date	Limit	Citation	(P/C/N)	Туре	
$NO_x$	BAAQMD	N		<15 ppmv* @ 15% O₂,	9-9-501	С	CEMS	Continuous
	9-9-301.1.2			dry, 3-hr average				
	and 9-9-401			*corrected for efficiency				
NOx	BAAQMD	N		≤ 5 ppmv @ 15% O2, dry,	9-9-501	C	CEMS	Continuous
	9-9-301.2			3-hr average or $\leq$ 0.15				
				<u>lbs/MWhr</u>				
$NO_x$	SIP 9-9-305	Y		$\leq 21.0 \text{ ppmv*}                                    $	BAAQMD	С	CEMS	Continuous
	and			dry, 3-hr average	9-9-501			
	9-9-401		- 11	*corrected for efficiency				
	BAAQMD	Y			BAAQMD	С	CEMS	Continuous
1	Permit			≤25 ppmv @ 15% O <sub>2</sub> , 3-	Permit			
	Cond# 2780			hr avg	Condition			
	part la(i)				2780, part 11			
	BAAQMD	Y			BAAQMD	С	CEMS	Continuous
	Permit	ŀ		< 5 ppmv @ 15% O2 or	Permit			
	Cond#			0.15 lb/MW-hr, 3-hr avg.	Condition			
	2780, part				2780, part 11			
	1a(ii)							
	BAAQMD	Y			BAAQMD	С	CEMS	Continuous
	Permit			≤21.0 ppmv @ 15% O <sub>2</sub> ,	9-9-501			
	Cond#			dry, calendar day average				
	2780, part		ļ					
	1e							
NOx	BAAQMD	Y		< 323.7 tons per any	BAAQMD	С	CEMS	Continuous
	Permit			twelve consecutive	9-9-501			
	Cond#	1		months				
	2780, part							
	1f							
	BAAQMD	Y		< 1876 lb per calendar	BAAQMD	С	CEMS	Continuous
	Permit			day	9-9-501			
	Cond#							
	2780, part							
	1g							
	BAAQMD	Y		≤25 ppmv @ 15% O <sub>2</sub> ,	BAAQMD	С	CEMS	Continuous
	permit			dry 3-hr average	9-9-501			
	condition #							
	21961, part		ļ					
	IX-C.							

Type of limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance (Intermittent/Continuous)
NOx	BAAQMD permit condition # 21961, part IX-C.	Y		Natural Gas or Fuel Oil ≤ 25 ppmv @ 15% O <sub>2</sub> , dry 3-hr average	BAAQMD permit condition # 21961, part IX-E.	С	CEMS	Continuous
NOx	NSPS, 40 CFR 60.332 (a)(1)	Y		82 ppmv @ 15% O <sub>2</sub> , dry 4-hour rolling average (Arithmetic average of the average NO <sub>x</sub> concentration measured by the CEMS for a given hour and the three unit operating hour average NO <sub>x</sub> concentrations immediately preceding that unit operating hour)	NSPS, 40 CFR 60.334 (b) Note: 60.334(c) also applies after the installation of Dry Low NOx Combustors on January 1, 2012	C	CEMS	Continuous
POC	None BAAQMD Permit Condition 2780, part 6	Y		None < 40 TPY NMHC for S-100, S-101, S-102	40 CFR 75.10	C N	CEMS	Continuous  Continuous
SO <sub>2</sub>	None	Y		None	40 CFR 75.11, 40 CFR 75, Appendix D, part 2.3		Fuel measure- ments, calculations	Continuous
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	1	N		Continuous
SO <sub>2</sub>	BAAQMD 9-1-302	Y		300 ppm (dry)		N		Continuous

	Citation of		Future		Monitoring	Monitoring		Compliance
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring	(Intermittent/Continuous)
limit		Y/N	Date	Limit	Citation	(P/C/N)	Туре	
SO <sub>2</sub>	NSPS 40	Y			NSPS, 40	N		Continuous
	CFR			SO <sub>2</sub> in gases exiting	CFR 60.334			
	60.333 (a)			turbine $\leq 0.015\%$ (vol.)	(h)(1)			
	or			@15% O <sub>2</sub> (dry)				
	60.333(b)			or				
				Total sulfur in fuel				
				combusted in turbines				
				$\leq 0.8\%$ by wt. (8000				
				ppmw)				
	BAAQMD	N		> Ringelmann No. 1 for		N		Continuous
Opacity	6-1-301			no more than 3 minutes in				
				any hour				
	BAAQMD	Y		> Ringelmann No. 1 for		N		Continuous
Opacity	6-301			no more than 3 minutes in				
				any hour				
FP	BAAQMD	N		0.15 grain/dscf @6% O2		N		Continuous
	6-1-310.3							
FP	SIP 6-310.3	Y		0.15 grain/dscf @6% O2		N		Continuous
FP	BAAQMD	Y		< 25 TPY total FP for		N		Continuous
	Permit			S-100, S-101, S-102				
	Condition	i						
	2780, part 6							
CO <sub>2</sub>		Y		None	40 CFR 75.10	С	CEMS (CO <sub>2</sub> )	Continuous
							or CEMS	
			i				(O <sub>2</sub> ) or fuel	
							flow monitor	
Carbon	BAAQMD	Y		emissions < 100 tons/yr	BAAQMD	С	CEMS	Continuous
Monoxide	l l			(for S-100, S-101, and S-	Permit			
	Condition			102)	Condition			
	2780, part				2780, part 11			
	3b							
Carbon	BAAQMD	Y		10 ppmvd @ 15% O <sub>2</sub> , 3-	BAAQMD	С	CEMS	Continuous
Monoxide	Permit			hr average, except during	Permit			
	Condition			startup, shutdown,	Condition			
	2780, part			operation at < 80% load,	2780, part 11			
	3c			and operation at low				
				ambient temperature				

Type of	Citation of Limit	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring	Compliance (Intermittent/Continuous)
limit		Y/N	Date	Limit	Citation	(P/C/N)	Туре	,
Carbon	BAAQMD	Y		< 14670 lbs. CO during	BAAQMD	C	CEMS	Continuous
Monoxide	Permit			startups and shutdowns	Permit			
	Condition			per any consecutive 12-	Condition			
	2780, part			month period	2780, part 11			
	3d							
	BAAQMD	Y		< 750 hours of operation	BAAQMD	С	CEMS	Continuous
	Permit			at < 80% load per any	Permit			
ļ	Condition			consecutive 12-month	Condition			
	2780, part			period	2780, part 11			
	3e							
Carbon	BAAQMD	Y		< 14.8 tons CO during	BAAQMD	С	CEMS	Continuous
Monoxide	Permit			operation at < 80% load	Permit			
	Condition	İ		per any consecutive 12-	Condition			
	2780, part			month period	2780, part 11			
	3e							
Carbon	BAAQMD	Y		< 100 hours of operation	BAAQMD	С	CEMS	Continuous
Monoxide	Permit			at ambient temperatures <	Permit			
	Condition			35° F. per any consecutive	Condition			
	2780, part			12-month period	2780, part 11			
	3f							
Carbon	BAAQMD	Y		15 ppmvd @ 15% O <sub>2</sub> , 1-	BAAQMD	С	CEMS	Continuous
Monoxide	Permit	4		hr average, during	Permit			
	Condition	}		operation at low ambient	Condition			
	2780, part			temperature	2780, part 11			
	3f		Componentia					

<sup>&</sup>lt;sup>1</sup> Ground Level Concentration

#### **Table VII-C** S-101, S-102 – BOILERS

	Citation of		Future		Monitoring	Monitoring		Compliance
Type of	Limit	FE	Effectiv		Requirement	Frequency	Monitoring	(Intermittent/Continuous)
limit		Y/N	e Date	Limit	Citation	(P/C/N)	Type	
NOx	BAAQMD	N		30 ppmv @3%O <sub>2</sub> , dry, 3-hr	BAAQMD	C	CEMS	Continuous
	9-7-301.1			average	Permit			
					Condition			
					2780, part 11			
	SIP 9-7-	Y		30 ppmv @3%O <sub>2</sub> , dry, 3-hr	BAAQMD	C	CEMS	Continuous
	301.1			average	Permit			
					Condition			
					2780, part 11,			
				,	BAAQMD 1-			
					520.1			
	BAAQMD	N		5 ppmv @3%O <sub>2</sub> , dry, 3-hr	BAAQMD	C	CEMS	Continuous
	9-7 <b>-</b> 307.6			average	Permit			
		Ì			Condition			
					2780, part 11,			
					BAAQMD			
					Condition			
					25512 part 3,			
					BAAQMD 1-			
					520.1			
NOx	BAAQMD	Y		40 ppmv @ 3%O <sub>2</sub> , dry,, 3-	BAAQMD	С	CEMS	Continuous
	Permit			hr average	Permit			
	Condition				Condition			
	2780, part 4				2780, part 11			
	BAAQMD	Y		≤ 40 ppmv @ 3% O <sub>2</sub> , dry,	BAAQMD	С	CEMS	Continuous
	permit			3-hr average	permit			
	condition				condition #			
	#21961, part				21961, part			
	IX-C				IX-D.			
	BAAQMD	N		5 ppmv @3%O <sub>2</sub> , dry, 3-hr	BAAQMD	С	CEMS	Continuous
	Condition			average	Condition			
	25512 part 2				25512 part 3			
NOx	NSPS	Y		0.2 lb/MM Btu, averaged		N		Continuous
	60.44b(a)			over 24 hrs				
СО	BAAQMD	N		400 ppmv @ 3% O <sub>2</sub> , dry,		N		Continuous
	9-7-301.4			3-hr average				
СО	SIP 9-7-	Y		400 ppmv @ 3% O2, dry,		N		Continuous
	301.2			3-hr average				

#### **Table VII-C** S-101, S-102 – BOILERS

	Citation of		Future		Monitoring	Monitoring		Compliance
Type of	Limit	FE	Effectiv		Requirement	Frequency	Monitoring	(Intermittent/Continuous)
limit		Y/N	e Date	Limit	Citation	(P/C/N)	Туре	
	BAAQMD	Y		< 100 tons per year, for S-	BAAQMD	С	CEMS	Continuous
	Permit			100, S-101, and S-102	Permit			
	Condition				Condition			
	2780, part				2780, part 11			
	3b							
SO <sub>2</sub>	BAAQMD	Y		GLC <sup>1</sup> of 0.5 ppm for 3 min		N	,	Continuous
	9-1-301			or 0.25 ppm for 60 min or				
				0.05 ppm for 24 hours				
	BAAQMD	Y		300 ppm (dry)		N		Continuous
	9-1-302							
Opacity	BAAQMD	N		> Ringelmann No. 1 for no		N		Continuous
	6-1-301			more than 3 minutes in any				
				hour				
Opacity	SIP 6-301	Y		> Ringelmann No. 1 for no		N		Continuous
				more than 3 minutes in any				
				hour				
FP	BAAQMD	N		0.15 grain/dscf		N		Continuous
	6-1-310.3			@ 6% O2				
FP	SIP 6-310.3	Y		0.15 grain/dscf		N		Continuous
				@ 6% O <sub>2</sub>				
FP	BAAQMD	Y		< 25 TPY FP for		N		Continuous
	Permit			S-100, S-101, S-102				
	Condition							
	2780, part 6							
POC	BAAQMD	Y		< 40 TPY NMHC for S-		N		Continuous
	Permit			100, S-101, S-102				
	Condition							
	2780, part 6							
NH3	BAAQMD	N		10 ppm @ 3 % O2	BAAQMD	P	Annual	Continuous
	Condition	ĺ		••	Condition		source test	
	25512 part 4				25512 part 5			
Hours of	BAAQMD	Y		Simultaneous use with the	none	P/E	Record-	Continuous
operation	Permit			gas turbine < combined			keeping	
•	Condition			total of 28 boiler hours/day				
	2780,	ĺ		or 3950 boiler hours/year				
	part 18			, "				
Hours of	BAAQMD	N		15,800 hours combined for	none	P/E	Record-	Continuous
operation	Condition			S-101 and S-102			keeping	<del></del>
,	25512 part 6						rp	

#### Table VII-D S-104 – COOLING TOWER

Type of limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance (Intermittent/Continuous)
Opacity	BAAQMD 6-1-301	N		> Ringelmann No. 1 for no more than 3 minutes in any hour		N		Continuous
Opacity	SIP 6-301	Y		> Ringelmann No. 1 for no more than 3 minutes in any hour		N		Continuous
FP	BAAQMD 6-1-310	N		0.15 grain/dscf		N		Continuous
FP	SIP 6-310	Y		0.15 grain/dscf		N		Continuous
	BAAQMD 6-1-311	Y	·	40 lbs/hr		N		Continuous
	SIP 6-311	Y		40 lbs/hr		N		Continuous