

**PE-BERKELEY, Inc.**

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BAY AREA AIR QUALITY  
MANAGEMENT DISTRICT

February 14<sup>th</sup>, 2012

Director of Compliance Enforcement  
Attn: Title V Reports  
Bay Area Air Quality Management District  
939 Ellis Street  
San Francisco, CA 94109

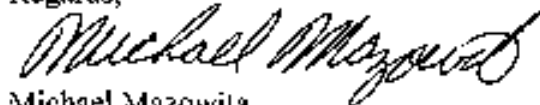
**Subject:** Title V Semi-Annual Monitoring Report for PE Berkeley, Inc., facility ID # B1326, for the period August 1<sup>st</sup>, 2011 through January 31<sup>st</sup>, 2012.

This Semi-Annual Report is being submitted in response to Section I, Standard Conditions Clause F, Monitoring Reports.

PE Berkeley, Inc. is submitting this Monitoring Report as required by the Bay Area Air Quality Management District. The permit requires only monitoring by record, periodically and by event, for source specific permit conditions. This facility maintains records of all product and quantities delivered and production by equipment run. We maintain and review product MSDS and applicable emission data for products delivered for consumption by source.

I certify to the best of my knowledge this to be a true and accurate statement.

Regards,



Michael Mazowita  
PE Berkeley, Inc.

Attachment

## PERMIT NON-COMPLIANCE SUMMARY

(Previously reported to District)

Facility ID: #B1326

Reporting period: August 1<sup>st</sup>, 2011 through January 31<sup>st</sup>, 2012.

### DAS System Events

1. August 11, 2011 – Communications error. System rebooted and operating normally. Cause unknown at this time.
2. August 28, 2011 – Communications error. System rebooted and operating normally. Cause unknown. Manual readings taken. Daily emission totals were estimated from averaged data.
3. August 29, 2011 – Communications error. System rebooted and operating normally. Cause unknown. Troubleshooting system.

### CEMS System Events

1. August 10, 2011 – Failed daily calibration due to faulty sample pressure transducer. Units recalibrated successfully. Ordered spare.
2. August 22, 2011 – Replaced faulty sample pressure transducer with spare.
3. January 31, 2011 – During the daily calibration, the CO calibration gas cylinder was depleted and needed to be changed out. The CO monitor registered "BAD" data from the 1400 to 1500 hour due to this event. The Unit re-calibrated with no issues following this evolution

### Other Events

None.

**Table VII-A  
S-1. Emergency Diesel Engine Generator**

Type of Limit	Emission Limit Citation	PE Y / N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance YES / NO	
Opacity	BAAQMD Regulation 6-303.1	Y		Ringelmann 2.0 for 3 minutes in any hour.		N		X	
FP	BAAQMD Regulation 6-310	Y		0.15 gr/dscf		N		X	
SO2	BAAQMD 9-1-301	Y		Property Line Ground level limits: $\leq$ 0.5 ppm for 3 minutes and $\leq$ 0.25 ppm for 60 min. and $\leq$ 0.05ppm for 24 hours.	None	N	N/A	X	
	BAAQMD 9-1-304	Y		0.5%wt Sulfur in liquid fuel		P/E	Fuel certification of each delivery	X	
	BAAQMD Cowl #22010, Part 4	Y		0.05% wt Sulfur in liquid fuel.	BAAQMD Cowl #22010, Part 4	P/E	Fuel certification of each delivery	X	
Hours of Operation	BAAQMD 9-8-330.1	N		Unlimited hours for emergencies.	BAAQMD 9-8-534.2	P/M	Records of Operating Hours	X	
	BAAQMD 9-8-330.2	N		*20 hours per year for reliability-related activities.	BAAQMD 9-8-530	P/M	Records of Operating Hours	X	

\* Changed to 20 hours per year based on CARB's new AICM for sources. Reference COR 17 section 93115 (e)(2)(B)(3)(a)(i).

**Table VII-B  
S-40, Turbine**

Type of Limit	Emission Limit Citation	FE Y / N	Future Effective Date	Emission Limit	Monitoring Frequency Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance YES / NO
NOX	BAAQMD 9-9-303.2	Y		20.2 ppmv @ 15% O <sub>2</sub> , dry (adjusted per 9-9-401), except during start-up	BAAQMD 9-9-501	C	CEM	X
NOX	BAAQMD 9-9-303.2	Y		42 ppmv @ 15% O <sub>2</sub> , dry during natural gas curtailment or short testing periods	BAAQMD 9-9-501	C	CEM	X
NOX	BAAQMD Cond #366 Part 4	Y		26.2 ppmv - natural gas @ 15% O <sub>2</sub> , 3 hr avg. except during start-up	BAAQMD Cond #366 Part 12	C	CEM	X
NOX	BAAQMD Cond #366 Part 5	Y		26.2 ppmv - natural gas @ 15% O <sub>2</sub> (combined S-40 & S-41), 3 hr avg. except during start-up	BAAQMD Cond #366 Part 12	C	CEM	X
NOX	BAAQMD Cond #366 Part 6	Y		42 ppmv - fuel oil @ 15% O <sub>2</sub> , 3 hr avg. except during start-up	BAAQMD Cond #366 Part 12	C	CEM	X
NOX	BAAQMD Cond #366 Part 7	Y		39 ppmv - fuel oil @ 15% O <sub>2</sub> (combined S-40 & S-41), 3hr avg. except during start-up	BAAQMD Cond #366 Part 12	C	CEM	X
NOX	BAAQMD Cond #366 Part 10	Y		547 lb/day when burning natural gas and 1093 lb/day when burning fuel oil (combined S-40 & 41)	BAAQMD Cond #366 Part 12	C	CEM	X
NOX	NSPS Subpart GG, 60.332(a)(1)	Y		99 ppmv @ 15% O <sub>2</sub> dry, 4-hr average	NSPS Subpart GG, 60.334(b)	C	CEM	X
CO	BAAQMD Cond #366 Part 4a	Y		200 ppm @ 15% O <sub>2</sub> 3-hour average except during start-up.	BAAQMD Cond #366 Part 12a	C	CEM	X
CO	BAAQMD Cond #366 Part 5a	Y		200 ppm @ 15% O <sub>2</sub> (combined S-40 & S-41) 3-hour average except during start-up	BAAQMD Cond #366 Part 12a	C	CEM	X
CO	BAAQMD Cond #366 Part 10	Y		2195 lb/day (natural gas and fuel oil)(combined S-40 & 41)	BAAQMD cond #366 Parts 10 and 18	P/E	Annual source test	X
SO <sub>2</sub>	BAAQMD Cond #366 Part 2	Y		Maximum of 0.12% by wt Sulfur in fuel oil	BAAQMD Cond #366 Part 2	P/E	At each delivery, fuel sampling using District's laboratory procedure method 10	X

<sup>1</sup> Ground level Concentration

**Table VII-B**  
**S-40, Turbine**  
*Continued...*

Type of Limit	Emission Limit Citation	FE Y / N	Future Effective Date	Emission Limit	Monitoring Frequency Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance YES / NO	
SO2	BAAQMD Cond #366 Part J	Y		Maximum of 0.25% by wt Sulfur in fuel oil during periods of natural gas curtailment	BAAQMD Cond #366 Parts 2	P/E	At each delivery, fuel sampling using District's laboratory procedure method 10	X	
SO2	BAAQMD Cond #366 Part II	Y		987 lb/day (natural gas) 40 tons/year (combined S-40 & S-41)	BAAQMD Cond #366 Parts 11	P/E	fuel sampling using District's laboratory procedure method 10	X	
SO2	BAAQMD 9-1-301	Y		GLC <sup>1</sup> of 0.5 ppm for 3 min or 0.25 ppm for 60 min or 0.15 ppm for 24 hours		N		X	
SO2	BAAQMD 9-1-302	Y		300 ppm (dry)		N		X	
SO2	BAAQMD 9-1-304	Y		0.5% wt Sulfur in liquid fuel		P/E	Fuel certification	X	
SO2	NSPS Subpart GG, 60.333(a)	Y		0.015% (vol) @ 15% O <sub>2</sub> (dry), or 0.8% sulfur in gaseous fuel by weight	NSPS Subpart GG, 60.334 (b)(3)	PCM or EN	Monthly gaseous fuel analysis of current, valid purchase contract, tariff sheet or transportation contract	X	
SO2	NSPS Subpart GG, 60.333(b)	Y		0.8% sulfur in fuel by weight	NSPS Subpart GG, 60.334(b)(1), 60.334(c)(1)	P/E	At each fuel oil delivery, fuel sampling using District's laboratory procedure method 10	X	
Opacity	BAAQMD 6-301	Y		Ringlemann No. 1	BAAQMD Cond #366 Part 19	P/E, during distillate oil combustion	Visible emissions monitoring	X	
FP	BAAQMD 6-310	Y		0.15 grains/dscf @ 6% O <sub>2</sub>		N		X	

<sup>1</sup> Ground level Concentration

**Table VII-C  
S-41, Duct Burner**

Type of Limit	Emission Limit Citation	FF Y / N	Future Effective Date	Emission Limit	Monitoring Frequency Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance YES / NO	
NOX	BAAQMD 9-9-303.2	Y		20.2 ppmv @ 15% O <sub>2</sub> , dry (adjusted per 9-9-401), except during start-up	BAAQMD 9-9-501	C	CEM	X	
NOX	BAAQMD 9-9-303.2	Y		42 ppmv @ 15% O <sub>2</sub> , dry during natural gas curtailment or short testing periods	BAAQMD 9-9-501	C	CEM	X	
NOX	BAAQMD Cond #366 Part 5	Y		20.2 ppmv - natural gas: @15% O <sub>2</sub> (combined S-40 & S-41), 3 hr avg. except during start-up	BAAQMD Cond #366 Part 12	C	CEM	X	
NOX	BAAQMD Cond #366 Part 7	Y		39 ppmv - fuel oil: @15% O <sub>2</sub> (combined S-40 & S-41), 3hr avg. except during start-up	BAAQMD Cond #366 Part 12	C	CEM	X	
NOX	BAAQMD Cond #366 Part 10	Y		547 lb/day when burning natural gas and 1093 lb/day when burning fuel oil (combined S-40 & S-41)	BAAQMD Cond #366 Part 12	C	CEM	X	
NOX	NSPS Subpart GG, 60.332(a)(1)	Y		99 ppmv @ 15% O <sub>2</sub> dry, 4 hr average	NSPS Subpart GG, 60.334(b)	C	CEM	X	
CO	BAAQMD Cond #366 Part 5a	Y		200 ppm @ 15% O <sub>2</sub> (combined S-40 & S-41) 1-hour average except during start-up	BAAQMD Cond #366 Part 12a	C	CEM	X	
CO	BAAQMD Cond #366 Part 10	Y		2195 lb/day (natural gas) 2195 lb/day (fuel oil) (combined S-40 & 41)	BAAQMD Cond #366 Parts 10 and 13	P/E	Annual source test	X	
SO <sub>2</sub>	BAAQMD Cond #366 Part 11	Y		987 lb/day (natural gas) 40 tons/year (combined S-40 & 41)	BAAQMD Cond #366 Part 11	P/E	At each fuel delivery, fuel sampling using District's laboratory procedure method 10	X	
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		X	
SO <sub>2</sub>	BAAQMD 9-1-302	Y		300 ppm (dry)		N		X	
SO <sub>2</sub>	BAAQMD 9-1-304	Y		0.5% wt Sulfur in liquid fuel		P/E	Fuel certification	NA <sup>2</sup>	
SO <sub>2</sub>	NSPS Subpart GG, 60.333 (a)	Y		0.015% (vol) @ 15% O <sub>2</sub> (dry), or 0.8% sulfur in gaseous fuel by weight	NSPS Subpart GG, 60.334(h)(3)	P/M or EN	Monthly gaseous fuel analysis of current valid purchase contract, tariff sheet or transportation contract	X	

<sup>1</sup> Ground level Concentration

<sup>2</sup> Not Applicable. Source #41 configured for gaseous fuel only.

**Table VII-C  
S-41, Duct Burner  
Continued...**

Type of Limit	Emission Limit Citation	PE Y/N	Future Effective Date	Emission Limit	Monitoring Frequency Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Compliance YES / NO	
SO <sub>2</sub>	NSPS Sulphur GG, 60.333 (b)	Y		0.8% sulfur in fuel oil by weight	NSPS Subpart GG, 60.334 (h)(1), 60.334(i)(1)	P/E	At each fuel delivery, fuel sampling using District's laboratory procedure method 10	NA <sup>2</sup>	
Opacity	BAAQMD 6-301	N		Ringlemann No. 1	BAAQMD, Code #366 Part 19	P/E, during distillate oil combustion	Visible emissions monitoring	NA <sup>2</sup>	
FP	BAAQMD 6-310	Y		0.15 grains/dscf @ 6% O <sub>2</sub>		N		X	

<sup>2</sup> Not Applicable. Source #41 configured for gaseous fuel only.