

BAAQMD Title V Permit
6 Month Monitoring Report

A0016 Phillips 66 Company San Francisco Refinery

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Mailing Address:

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City: Rodeo

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State: CA

State: CA

Zip Code: 94572-

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Title: Environmental Engineer

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Inoperable monitors as defined by BAAQMD Regulations 1-522 and 1-523 for the reporting period are summarized below:

Started	Stopped	Deviation #	Source (S#)	Abatement Device (A#)	Emission Point (P#)																																																															
1/13/2012	12:49 PM	1/18/2012	12:40 PM	<input checked="" type="checkbox"/> 004-12																																																																
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Fuel</th> <th colspan="10">Opacity/</th> <th colspan="2">Wind</th> <th colspan="2">Gauge</th> </tr> <tr> <th>CEM</th> <th>GLM</th> <th>Gas</th> <th>Parametric</th> <th>NOx</th> <th>SO2</th> <th>CO</th> <th>H2S</th> <th>TRS</th> <th>NH3</th> <th>O2</th> <th>CO2</th> <th>H2O</th> <th>LTA</th> <th>Lead</th> <th>Steam</th> <th>Flow</th> <th>Wind Dir.</th> <th>Speed</th> <th>pH</th> <th>Temp.</th> <th>VOC.</th> <th>Press.</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>						Fuel		Opacity/										Wind		Gauge		CEM	GLM	Gas	Parametric	NOx	SO2	CO	H2S	TRS	NH3	O2	CO2	H2O	LTA	Lead	Steam	Flow	Wind Dir.	Speed	pH	Temp.	VOC.	Press.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Event Description: At 12:49 PM on 1/13/12 it was discovered that the Cummings Skyway Thermo Model I SO2 GLM unit suffered a pressure transducer failure. The unit was last inspected at 10:50 AM on 1/11/12 and was found to be working properly at that time. A new pressure transducer is due to be shipped from Thermo on Monday, 1/16/12. Unit returned to service 01/18/12 at 12:40 PM.

Started	Stopped	Deviation #	Source (S#)	Abatement Device (A#)	Emission Point (P#)
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1/16/2012 10:08 AM 1/17/2012 1:15 PM 007-12 338

<input checked="" type="checkbox"/> CEM GLM	<input type="checkbox"/> Gas	<input type="checkbox"/> Parametric	<input type="checkbox"/> NOx	<input type="checkbox"/> SO2	<input type="checkbox"/> CO	<input checked="" type="checkbox"/> H2S	<input type="checkbox"/> TRS	<input type="checkbox"/> NH3	<input type="checkbox"/> O2	<input type="checkbox"/> CO2	<input type="checkbox"/> H2O	Opacity/	<input type="checkbox"/> LTA	<input type="checkbox"/> Lead	<input type="checkbox"/> Steam	<input type="checkbox"/> Flow	<input type="checkbox"/> Wind	<input type="checkbox"/> Dir.	<input type="checkbox"/> Speed	<input type="checkbox"/> pH	<input type="checkbox"/> Temp.	<input type="checkbox"/> VOC.	<input type="checkbox"/> Gauge	<input type="checkbox"/> Press.
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Event Description: Unit 233 CEMs H2S Monitor became inoperative on 1/16/12 at 10:08 AM for a period of 27 hours, but, due to an inadvertent breakdown in intra-refinery communications, ConocoPhillips did not report the monitor as inoperative the next business day. The cause of the inoperative monitor was a stuck slide valve. The valve was cleaned and the monitor was returned to service on 1/17/12 at 1:15 PM. During the period of CEMs inoperation the unit collected draeger samples to check fuel gas H2S levels.

1/20/2012 10:30 AM 1/21/2012 4:00 PM 008-12 45

<input checked="" type="checkbox"/> CEM GLM	<input type="checkbox"/> Gas	<input type="checkbox"/> Parametric	<input type="checkbox"/> NOx	<input type="checkbox"/> SO2	<input type="checkbox"/> CO	<input type="checkbox"/> H2S	<input type="checkbox"/> TRS	<input type="checkbox"/> NH3	<input type="checkbox"/> O2	<input type="checkbox"/> CO2	<input type="checkbox"/> H2O	Opacity/	<input type="checkbox"/> LTA	<input type="checkbox"/> Lead	<input type="checkbox"/> Steam	<input type="checkbox"/> Flow	<input type="checkbox"/> Wind	<input type="checkbox"/> Dir.	<input type="checkbox"/> Speed	<input type="checkbox"/> pH	<input type="checkbox"/> Temp.	<input type="checkbox"/> VOC.	<input type="checkbox"/> Gauge	<input type="checkbox"/> Press.
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Event Description: Unit 246 B-801 A/B Nox monitor became inoperative on 1/20/2012 at 10:30 AM. Adjustments were made and the monitor was returned to service on 1/21/2012 at 4:00 PM.

1/21/2012 7:20 AM 1/23/2012 8:20 AM 006-12 338

<input checked="" type="checkbox"/> CEM GLM	<input type="checkbox"/> Gas	<input type="checkbox"/> Parametric	<input type="checkbox"/> NOx	<input type="checkbox"/> SO2	<input type="checkbox"/> CO	<input type="checkbox"/> H2S	<input checked="" type="checkbox"/> TRS	<input type="checkbox"/> NH3	<input type="checkbox"/> O2	<input type="checkbox"/> CO2	<input type="checkbox"/> H2O	Opacity/	<input type="checkbox"/> LTA	<input type="checkbox"/> Lead	<input type="checkbox"/> Steam	<input type="checkbox"/> Flow	<input type="checkbox"/> Wind	<input type="checkbox"/> Dir.	<input type="checkbox"/> Speed	<input type="checkbox"/> pH	<input type="checkbox"/> Temp.	<input type="checkbox"/> VOC.	<input type="checkbox"/> Gauge	<input type="checkbox"/> Press.
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Event Description: Unit 233 CEMs H2S Monitor became inoperative on 1/21/12. Repairs were made and the monitor was returned to service on 1/23/12 at 8:20 AM.

1/21/2012 9:40 PM 1/23/2012 10:13 AM 010-12 5

<input type="checkbox"/> CEM GLM	<input type="checkbox"/> Gas	<input type="checkbox"/> Parametric	<input checked="" type="checkbox"/> NOx	<input type="checkbox"/> SO2	<input type="checkbox"/> CO	<input type="checkbox"/> H2S	<input type="checkbox"/> TRS	<input type="checkbox"/> NH3	<input type="checkbox"/> O2	<input type="checkbox"/> CO2	<input type="checkbox"/> H2O	Opacity/	<input type="checkbox"/> LTA	<input type="checkbox"/> Lead	<input type="checkbox"/> Steam	<input type="checkbox"/> Flow	<input type="checkbox"/> Wind	<input type="checkbox"/> Dir.	<input type="checkbox"/> Speed	<input type="checkbox"/> pH	<input type="checkbox"/> Temp.	<input type="checkbox"/> VOC.	<input type="checkbox"/> Gauge	<input type="checkbox"/> Press.
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Event Description: The U231 B102 O2 analyzer which is used as a parametric monitor became failed at approximately 1/20/2012 at 9:40 PM. Repairs were made to the analyzer and it resumed normal operation at 1/23/2012 at 10:13 AM.

Started _____ Stopped _____ Deviation # _____ Source (S#) _____ Abatement Device (A#) _____ Emission Point (P#) _____

2/2/2012 10:10 AM 015-12 30

Fuel	Gas	Parametric	NOx	SO2	CO	H2S	TRS	NH3	O2	CO2	H2O	Opacity/	LTA	Lead	Stream	Flow	Wind	Dir.	Speed	pH	Temp.	VOC.	Gauge	Press.
CEM	GLM	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Event Description: Unit 200 B-101 O2 monitor used for NOx Box compliance became inoperative on 2/2/2012 at 10:10 AM. Repairs are underway.

2/3/2012 10:00 AM 2/9/2012 9:15 AM 016-12

Fuel	Gas	Parametric	NOx	SO2	CO	H2S	TRS	NH3	O2	CO2	H2O	Opacity/	LTA	Lead	Stream	Flow	Wind	Dir.	Speed	pH	Temp.	VOC.	Gauge	Press.
CEM	GLM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Event Description: At 10:00 AM on 2/3/12 it was discovered that the Hillcrest Thermo Model I SO2 GLM unit suffered a pressure transducer failure. The unit was last inspected on 13:30 on 2/1/12 and was found to be working properly at that time. A new pressure transducer is due to be shipped from Thermo on Monday, 2/6/12. The unit was returned to service at 09:15 on 2/9/12 after the replacement part was installed.

2/5/2012 3:47 PM 2/7/2012 10:42 AM 018-12

Fuel	Gas	Parametric	NOx	SO2	CO	H2S	TRS	NH3	O2	CO2	H2O	Opacity/	LTA	Lead	Stream	Flow	Wind	Dir.	Speed	pH	Temp.	VOC.	Gauge	Press.
CEM	GLM	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Event Description: Unit 233 CEMs H2S Monitor became inoperative on 2/5/12. Repairs were made to the temperature meter.

2/16/2012 11:46 AM 2/17/2012 4:00 PM 021-12

Fuel	Gas	Parametric	NOx	SO2	CO	H2S	TRS	NH3	O2	CO2	H2O	Opacity/	LTA	Lead	Stream	Flow	Wind	Dir.	Speed	pH	Temp.	VOC.	Gauge	Press.
CEM	GLM	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Event Description: At 1:10 PM on 2/17/12 it was discovered that the newly installed (as of 2/9/12) Crockett Thermo Model I H2S GLM unit had failed. The unit was last inspected at around 09:30 AM on 2/16/12 and was found to be working properly at that time. The Thermo Model I H2S GLM will be shipped back to the factory and will be replaced with the previously installed Thermo Model A H2S GLM until the Thermo Model I H2S GLM has been repaired.

Update (2/20/12 09:00) - The unit was repaired without the need to send to the factory. The unit was returned to service at 16:00 on 2/17/12.

Started	Stopped	Deviation #	Source (S#)	Abatement Device (A#)	Emission Point (P#)
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2/23/2012	8:53 AM	2/24/2012	12:45 PM	<input checked="" type="checkbox"/> 022-12	338
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Fuel		Opacity/		Wind	
CEM	GLM	Gas	Parametric	NOx	SO2
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H2S	TRS	NH3	O2	CO2	H2O
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LTA	Lead	Stream	Flow	Wind	Dir.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Speed	pH	Temp.	VOC.	Gauge	Press.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Event Description: Unit 233 CEMs H2S Monitor became inoperative on 2/23/2012 at 8:53 AM. Troubleshooting is underway.

3/10/2012	12:58 AM	<input type="checkbox"/>	024-12	338
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Fuel		Opacity/		Wind	
CEM	GLM	Gas	Parametric	NOx	SO2
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
H2S	TRS	NH3	O2	CO2	H2O
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LTA	Lead	Stream	Flow	Wind	Dir.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Speed	pH	Temp.	VOC.	Gauge	Press.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Event Description: Unit 233 CEMs H2S Monitor became inoperative on 3/10/12 at 12:58 AM. Repairs are underway.

3/16/2012	5:25 PM	3/20/2012	1:30 PM	<input checked="" type="checkbox"/> 025-12
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Fuel		Opacity/		Wind	
CEM	GLM	Gas	Parametric	NOx	SO2
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
H2S	TRS	NH3	O2	CO2	H2O
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LTA	Lead	Stream	Flow	Wind	Dir.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Speed	pH	Temp.	VOC.	Gauge	Press.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Event Description: Power outage at Cummings skyway SO2 analyzer #2263. Contacting PGE. Power was restored by PGE and equipment returned to service at 13:30 PDT on 3/20/12.

4/21/2012	1:33 PM	4/21/2012	1:41 PM	<input type="checkbox"/> 030-12
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Fuel		Opacity/		Wind	
CEM	GLM	Gas	Parametric	NOx	SO2
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H2S	TRS	NH3	O2	CO2	H2O
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LTA	Lead	Stream	Flow	Wind	Dir.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Speed	pH	Temp.	VOC.	Gauge	Press.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Event Description: Unit 231 B-102 O2 monitor used for NOx Box compliance became inoperative on 4/21/2012 at 9:53 AM. Repairs are underway.

Started _____ Stopped _____ Deviation # _____ Source (S#) _____ Abatement Device (A#) _____ Emission Point (P#) _____

4/23/2012 9:25 AM 4/25/2012 10:00 AM 032-12 438

Fuel		Opacity/										Wind		Gauge									
<input checked="" type="checkbox"/>	CEM GLM	Gas	Parametric	NOx	SO2	CO	H2S	TRS	NH3	O2	CO2	H2O	LTA	Lead	Steam	Flow	Wind	Dir.	Speed	pH	Temp.	VOC.	Press.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Event Description: The Unit 110 CO monitor became inoperative on 4/23/12 at 9:25 AM. Repairs are underway.

4/26/2012 9:00 PM 033-12 5

Fuel		Opacity/										Wind		Gauge									
<input type="checkbox"/>	CEM GLM	Gas	Parametric	NOx	SO2	CO	H2S	TRS	NH3	O2	CO2	H2O	LTA	Lead	Steam	Flow	Wind	Dir.	Speed	pH	Temp.	VOC.	Press.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Event Description: Unit 231 B-102 O2 monitor used for NOx Box compliance became inoperative on 4/21/2012 at 9:53 AM. Repairs are underway.

5/5/2012 11:59 PM 5/8/2012 035-12 338

Fuel		Opacity/										Wind		Gauge									
<input checked="" type="checkbox"/>	CEM GLM	Gas	Parametric	NOx	SO2	CO	H2S	TRS	NH3	O2	CO2	H2O	LTA	Lead	Steam	Flow	Wind	Dir.	Speed	pH	Temp.	VOC.	Press.
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Event Description: The Unit 233 H2S CEM became inoperative on 5/5/2012 at 23:59 due to a failed calibration timer. The calibration timer was replaced and the CEM automatically calibrated on 5/9/12 at 1:25 AM.

The inoperative monitor was reported to the BAAQMD on 5/8/12 (ID #06F14). The inoperative monitor was not reported on the next working day as required by the regulation.

