

Environmental Protection Division  
P.O. Box 1663, MS J978  
Los Alamos, New Mexico 87545  
(505) 667-2211/FAX: (505) 665-8858

Date: February 5, 2007  
Refer to: ENV-DO:07-003

Mr. Edward Horst  
Manager, Enforcement  
New Mexico Environment Department  
Air Quality Bureau  
2048 Galisteo St.  
Santa Fe, New Mexico 87505

**SEMI-ANNUAL MONITORING REPORT FOR JULY – DECEMBER, 2006  
AIR QUALITY TITLE V OPERATING PERMIT P100-M1  
IDEA ID NO. 856 – LOS ALAMOS NATIONAL LABORATORY (LANL)**

Dear Mr. Horst:

Enclosure-1 contains the Los Alamos National Laboratory's Title V Operating Permit semi-annual monitoring report for the period **July 1 – December 31, 2006**. This submission is required by permit condition 4.2 of NMED Operating Permit P100-M1 dated June 15, 2006, and is transmitted within the allowed 45 days after the end of the reporting period, as specified in permit condition 4.3.

One deviation was identified in the deviations section of this report. The deviation refers to the degreaser unit at TA-55 and the ability to meet the freeboard ratio. LANL Ecology and Air Quality (EAQ) staff met with you to discuss the compliance approach currently used for the degreaser and whether this approach requires EPA approval. LANL will notify EPA Region 6 and request approval for the alternative measures. We have contacted Michelle Kelly, Air Enforcement Section, EPA Region 6, and will send a letter to her requesting approval.

If you have any questions or comments regarding this submittal or would like to discuss the submittal in greater detail, please contact Steve Story at 665-2169.

Sincerely,

A handwritten signature in black ink, appearing to read 'Victoria A. George'.

Victoria A. George  
Division Leader  
Environmental Protection Division

SLS:alb

Mr. Edward Horst  
ENV-DO:07-003

-2-

February 5, 2007

Enc: a/s

Cy:

V. Bynum, PADOPS, w/o enc., A102  
R. Watkins, ADESH&Q, w/o enc., K491  
S. Fong, DOE-LA-AO, w/o enc., A316  
P. Wardwell, LC-ESH, w/o enc., A187  
D. Wilburn, ENV-EAQ, w/o enc., J978  
S. Story, ENV-EAQ, w/o enc., J978  
D. Paulson, ENV-EAQ, w/o enc., J978  
K. Gorman-Bates, ENV-EAQ, w/o enc., J978  
M. Stockton, ENV-EAQ, w/o enc., J978  
J. Stanton, SSS-AE-V02, w/o enc., A199  
R. Costa, SSS-AE-V02, w/o enc., A199  
IRM-RMSSO, w/o enc., A150  
ESH&Q File, w/o enc., K491  
ENV-MAQ Title V Monitoring Report File, with enclosure  
ENV-EAQ File

# **Enclosure - 1**

Los Alamos National Laboratory's  
Title V Operating Permit  
Monitoring Report for the period  
**July 1 – December 31, 2006**

LA-UR-07-0629

Approved for public release;  
distribution is unlimited.

*Title:* Semi-Annual Monitoring Report  
July 1 - December 31, 2006  
Air Quality Title V Operating Permit P100M1  
Los Alamos National Laboratory

*Author(s):* David Paulson, ENV-EAQ

*Submitted to:* Mr. Edward Horst  
Manager, Enforcement  
New Mexico Environment Department  
Air Quality Bureau  
2048 Galisteo St.  
Santa Fe, New Mexico 87505



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Operating Permit P100M1  
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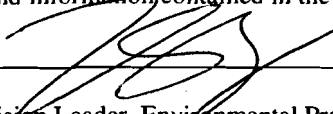
Identifying Information

Source Name: Los Alamos National Laboratory County: Los Alamos  
Source Address:  
City: Los Alamos State: NM Zip Code: 87545  
Responsible Official: Victoria A. George Ph No. (505) 667-2211 Fax No. (505) 665-8858  
Technical Contact: Steven L. Story Ph No. (505) 665-2169 Fax No. (505) 665-8858  
Principal Company Product or Business: National Security and Nuclear Weapons Research Primary SIC Code: 9711  
Permit No. P100M1 (IDEA/Tempo ID No. 856) Permit Issued Date: April 30, 2004  
M1 June 15, 2006

Certification of Truth, Accuracy, and Completeness

I, Victoria A. George certify that, based on information and belief formed after reasonable inquiry, the statements and information contained in the attached semi-annual monitoring report are true, accurate, and complete.

Signature



Date:

1/31/07

Title: Division Leader, Environmental Protection Division

**Los Alamos National Laboratory  
Operating Permit P100M1  
Semi-Annual Monitoring Report  
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**Sources (by permit section)**

- 1. Asphalt Production**
- 2. Beryllium Activities**
- 3. Boilers and Heaters**
- 4. Carpenter Shops, TA-3-38 & TA-15-563**
- 5. Chemical Usage**
- 6. Degreasers**
- 7. Internal Combustion Sources**
- 8. Data Disintegrator, TA-52-11**
- 9. Power Plant at Technical Area 3 (TA-3-22)**

**Deviations**

**Attachments**

- A: Asphalt Plant Opacity Reports**
- B: Beryllium HEPA Filter Tests Results**
- C: Boilers and Heaters Natural Gas Usage**
- D: Carpenter Shop Hours of Operation**
- E: Degreaser Solvent Usage**
- F: Internal Combustion Generator Hours of Operation**
- G: Data Disintegrator Box Throughput**
- H: Power Plant Natural Gas and Fuel Oil Usage**
- I: Power Plant Opacity Reports**

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**1. Asphalt Production**

<b>Permit Section</b>	<b>Monitoring Required</b>	<b>Monitoring Performed</b>
2.1.4.1	Perform monthly six (6) minute opacity readings for each emission point having opacity greater than zero as determined by EPA Method 22.	<p>Monthly opacity reports are provided as Attachment A.</p> <p>Monthly six minute opacity readings are taken using the required EPA Methods.</p>
2.1.4.2	Monitor the differential pressure (inches of water) across the baghouse by the use of a differential pressure gauge, in accordance with condition IV.C.2 of NSR permit number GCP-3-2195G.	<p>A differential pressure gauge is in place to continuously monitor the differential pressure across the baghouse as required by NSR permit GCP-3-2195G condition IV.C.2.</p> <p>The differential pressure is recorded twice each day during operations, once in the morning (or following the start-up of operations) and once in the afternoon (or prior to shutting operations down), as required by NSR permit GCP-3-2195G condition IV.D.2(e).</p> <p>Records are available on-site for NMED inspection.</p>
2.1.4.3	40 CFR Part 60, Appendix A, Method 9 shall be used to determine compliance with the opacity limitation.	LANL has certified opacity readers on-site who perform opacity readings using 40 CFR 60, Appendix A, Method 9 to determine compliance with the opacity limitation.

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**2. Beryllium Activities (Permit Section 2.2.4)**

<b>Source</b>	<b>Monitoring Required</b>	<b>Monitoring Performed</b>
TA-3-29 Chemistry and Metallurgy Research Facility	A log shall be maintained during operations which indicate the number of Be samples processed.	A log is maintained indicating the number of Be samples processed. The log is available on-site for NMED inspection.
TA-3-66 Sigma Facility	A log shall be maintained during operations which show the number of metallographic specimens used in the polishing operation and the weight of Be samples processed in the electroplating/chemical milling, machining, and arc melting/casting operations.	A log is maintained showing the number of metallographic specimens used in the polishing operation.  Logs are maintained showing the weight of Be samples processed in the electroplating/chemical milling, machining, and arc melting/casting operations.  Logs are available on-site for NMED inspection.
TA-3-141 Beryllium Technology Facility (BTF)	Facility exhaust stack will be equipped with a continuous emission monitor used to measure beryllium emissions.	The BTF is equipped with a continuous emissions monitor to measure beryllium emissions. The monitoring system is operated in accordance with LANL Quality Assurance Project Plan ESH-17-BM and emission results are provided to NMED quarterly.  Submissions for this period were provided to NMED in reports dated August 7, 2006 [ENV-EAQ:06-218] and November 21, 2006 [ENV-EAQ:06-310]
	Cartridge and HEPA filters will be equipped with differential pressure gauges that measure the differential pressure across the cartridge and HEPA filters while	Cartridge and HEPA filters are equipped with differential pressure gauges that measure the differential pressure across the cartridge and HEPA filters while the exhaust fans



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<b>Source</b>	<b>Monitoring Required</b>	<b>Monitoring Performed</b>
	the exhaust fans are in operation.	are in operation.
TA-16-207	Project files shall be maintained of components prepared for testing.	Project files are maintained of components prepared for testing. Files are available on-site for NMED inspection.
TA-35-87	A log shall be maintained during operations which show the number of beryllium filters cut.	A log is maintained showing the number of beryllium filters cut. The log is available on-site for NMED inspection.
TA-35-213 Target Fabrication Facility	Records of the stack emission test results (see Condition 2 of NSR Permit No. 632) and other data needed to determine total emissions shall be retained at the source and made available for inspection by the Department.	Records of stack emission test results are maintained on-site and available for NMED inspection. Stack emission test results are used to determine total emissions from this facility.
TA-55-PF-4 Plutonium Facility	The HEPA filtration systems shall be equipped with a differential pressure gauge that measures the differential pressure (inches of water) across the HEPA filters while the exhaust fans are in operation.	The HEPA filtration systems are equipped with differential pressure gauges that measure the differential pressure across the HEPA filters while the exhaust fans are in operation.
	Control efficiency shall be verified by daily HEPA filter pressure drop tests and annual HEPA filter challenge tests of accessible filters.	Control efficiency is verified by daily HEPA filter pressure drop readings. Readings are recorded in the TA-55 Operations Center.  Annual HEPA filter challenge tests of accessible filters are performed. Test results are summarized in Attachment B.

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**3. Boilers and Heaters**

<b>Permit Section</b>	<b>Monitoring Required</b>	<b>Monitoring Performed</b>
2.3.4.1	Emission units TA-21-357-1, TA-21-357-2, and TA-21-357-3: A volumetric flow meter shall be utilized to measure the total amount of natural gas being used on a monthly basis.	A volumetric flow meter is utilized to measure the total amount of natural gas being used on a monthly basis for emission units TA-21-357-1, TA-21-357-2 and TA-21-357-3.  Natural gas usage is summarized in Attachment C.
2.3.4.2	Emission units TA-55-6-BHW-1 and TA-55-6-BHW-2: A volumetric flow meter shall be utilized to measure the total amount of natural gas being used on a monthly basis.	Volumetric flow meters are utilized to measure the total amount of natural gas being used on a monthly basis for emission units TA-55-6-BHW-1 and TA-55-6-BHW-2.  Natural gas usage is summarized in Attachment C.
2.3.4.3	40 CFR Part 60, Appendix A, Method 9 shall be used to determine compliance with the opacity limitation.	LANL uses 40 CFR Part 60, Appendix A, Method 9 to determine compliance with the opacity limitation.

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**4. Carpenter Shops, TA-3-38 & TA-15-563**

<b>Permit Section</b>	<b>Monitoring Required</b>	<b>Monitoring Performed</b>
2.4.4.1	The permittee shall maintain logs of the hours the carpenter shops are in operation.	<p>A log is maintained of the hours of operation at the TA-3-38 shop. During this reporting period, hour meters were placed on the cyclone separators, which will be used for monitoring hours of shop operation.</p> <p>The TA-15-563 carpenter shop is equipped with an hour meter on the cyclone separator. The hour meter is read and recorded monthly.</p> <p>Hours of operation are provided in Attachment D.</p>

**5. Chemical Usage**

<b>Permit Section</b>	<b>Monitoring Required</b>	<b>Monitoring Performed</b>
2.5.4.1	Maintain records of chemical purchasing through facility-wide chemical tracking system, and use the data to calculate the emissions on a semi-annual basis in accordance with Condition 4.1.	Records are maintained in LANL's facility wide chemical tracking system (ChemLog). The data is used to calculate emissions and is submitted in the Semi-Annual Emission Report.

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**6. Degreasers**

<b>Permit Section</b>	<b>Monitoring Required</b>	<b>Monitoring Performed</b>
2.6.4.1	Record the amount of solvent added to the degreaser, and calculate the emissions on a semi-annual basis in accordance with Condition 4.1.	Records are maintained of the amount of solvent added to the degreaser. This data is used to calculate emissions on a semi-annual basis.  LANL's "Historical Solvent Usage Data" report for July 1 – Dec. 31, 2006 is provided in Attachment E.
2.6.4.2	Complete checklist for work practice standards.	LANL completes work practice checklists for the degreaser operation. The checklists are available on-site for NMED inspection.

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**7. Internal Combustion Sources**

<b>Permit Section</b>	<b>Monitoring Required</b>	<b>Monitoring Performed</b>
2.7.4 [Stationary Standby Generators]	Track and record hours of operation for stationary standby generators on a semi-annual basis.	LANL tracks and records generator hours of operation on a semi-annual basis.  Stationary generator hours of operation for 2006 are provided in Attachment F.
2.7.4 [TA-33-G-1]	Track hourly and 12-month rolling total kWh.  Record hours of operation and the time operation begins and ends each day.	On May 18, 2006, LANL started the TA-33 diesel generator. Other than the start up test, the generator has not run. A form has been created and will be used for tracking generator start and stop times as well as hours of operation. These hourly readings will be used in tracking the 12-month rolling total of kWh.
2.7.4.1	40 CFR Part 60, Appendix A, Method 9 shall be used to determine compliance with the opacity limitation.	LANL uses 40 CFR Part 60, Appendix A, Method 9 to determine compliance with the opacity limitation.

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**8. Data Disintegrator, TA-52-11**

<b>Permit Section</b>	<b>Monitoring Required</b>	<b>Monitoring Performed</b>
2.8.4.1	The permittee shall maintain a log of the number of boxes of media that are destroyed and calculate the emissions on a semi-annual basis in accordance with Condition 4.1.	LANL maintains a log of the number of boxes of media that are shredded and calculates the emissions on a semi-annual basis.  The actual number of boxes shredded is included in Attachment G.
2.8.4.2	The permittee shall perform regular maintenance and repair on the cyclone and cloth tube filter(s) per manufacturer's recommendations.	LANL maintains a log documenting all maintenance and repairs performed on the cyclone and cloth tube filters. The Data Disintegrator and associated pollution control devices are maintained under a preventative maintenance contract.

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**9. Power Plant at Technical Area 3 (TA-3-22)**

<b>Permit Section</b>	<b>Monitoring Required</b>	<b>Monitoring Performed</b>
2.9.4.1	Total fuel oil consumption shall be monitored so that combined fuel oil usage of Units TA-3-22-1, TA-3-22-2 and TA-3-22-3 can be calculated on a rolling 365-day total.	Total fuel oil consumption is monitored on a daily basis. These daily readings are used to calculate a 365-day rolling total.  Attachment H contains a summary of monthly fuel oil consumption. Records of daily fuel oil use are available on-site for NMED inspection.
2.9.4.2	Natural gas consumption shall be monitored so that combined natural gas usage of Units TA-3-22-1, TA-3-22-2 and TA-3-22-3 can be calculated on a rolling 365-day total.	A volumetric flow meter is used to measure the total amount of natural gas used on a daily basis. These daily readings are used to calculate a 365-day rolling total.  Attachment H contains a summary of monthly natural gas usage. Daily totals are available on-site for NMED inspection.
2.9.4.3	Natural gas consumption shall be monitored so that natural gas usage for Unit TA-3-22 CT-1 can be calculated on a rolling 365-day total.	The Combustion Turbine has not started operations. No monitoring performed.
2.9.4.4	A certification of total sulfur content of the No. 2 fuel oil used by Units TA-3-22-1, TA-3-22-2 and TA-3-22-3 shall be obtained from the supplier whenever No. 2 fuel oil is delivered to the facility.	No fuel oil was purchased or delivered during this reporting period.
2.9.4.5	If the certification as specified by Condition 2.9.4.4 is not available at delivery, the permittee shall analyze the No. 2 fuel oil to determine the total sulfur content. The analysis shall be	No fuel oil was purchased or delivered during this reporting period.

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<b>Permit Section</b>	<b>Monitoring Required</b>	<b>Monitoring Performed</b>
	conducted using Department approved methods and standards for determining total sulfur content of No. 2 fuel oil.	
2.9.4.6	The operating load of Unit TA-3-22 CT-1 specified by Condition 2.9.3.7 shall be monitored and recorded hourly during normal operations of that unit. Periods of startup and shutdown shall not be included in the hourly monitoring but shall be recorded separately.	The Combustion Turbine has not started operations. No monitoring performed.
2.9.4.7	Compliance with NOx pound per hour emission limits for Unit TA-3-22 CT-1 shall be determined by multiplying the daily total natural gas firing rate for the unit (expressed in thousands of SCF), as recorded pursuant to Condition 2.9.5.3, by the manufacturer's guaranteed emission rate of 0.1029 pounds NOx per thousand SCF of gas burned (applicable for worst-case conditions of negative 18 degrees Fahrenheit) and divided by the number of hours of operation of the unit during that day as recorded pursuant to Condition 2.9.3.8. Compliance with NOx annual emission limits for Unit TA-3-22 CT-1 shall be determined by multiplying the 365 day total natural gas firing rate for the unit (expressed in thousands of SCF), as recorded pursuant to Condition 2.9.5.3, by the manufacturer's guaranteed emission rate of 0.1029 pounds NOx per thousand SCF of gas burned (applicable for annual average conditions of 47.9 degrees Fahrenheit).	The Combustion Turbine has not started operations. No monitoring performed.



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<b>Permit Section</b>	<b>Monitoring Required</b>	<b>Monitoring Performed</b>
2.9.4.8	Compliance with CO pound per hour emission limits for Unit TA-3-22 CT-1 shall be determined by multiplying the daily total natural gas firing rate for the unit (expressed in thousands of SCF), as recorded pursuant to Condition 2.9.5.3, by the manufacturer's guaranteed emission rate of 0.731 pounds CO per thousand SCF of gas burned (applicable for worst-case conditions of negative 18 degrees Fahrenheit), and divided by the number of hours of operation of the unit during that day as recorded pursuant to Condition 2.9.3.8). Compliance with CO annual emission limits for Unit TA-3-22 CT-1 shall be determined by multiplying the 365 day total natural gas firing rate for the unit (expressed in thousands of SCF), as recorded pursuant to Condition 2.9.5.3, by the manufacturer's guaranteed emission rate of 0.0613 pounds CO per thousand SCF of gas burned (applicable for annual average conditions of 47.9 degrees Fahrenheit).	The Combustion Turbine has not started operations. No monitoring performed.
2.9.4.9	At least once each calendar quarter the permittee shall use the method specified in Conditions 2.9.4.7 and 2.9.4.8 to determine compliance of Unit TA-3-22 CT-1 with the hourly and annual emission limits specified in this permit.	The Combustion Turbine has not started operations. No monitoring performed.
2.9.4.10	Visible emissions from stationary combustion equipment shall not equal or exceed an opacity of 20%. Use of pipeline quality natural gas fuel as defined in Conditions 2.9.3.1 and 2.9.3.4 constitutes compliance with	LANL uses 40 CFR Part 60, Appendix A, Method 9 to determine compliance with the opacity limitation.

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**Attachment A  
Asphalt Plant Opacity Reports**

**Summary Table, Reports Attached**

	<b>Source</b>	<b>Date</b>	<b>Time</b>	<b>Opacity*</b>
Jul	Top of Shaker	07/25/06	11:39 am	0
	Top of Baghouse Stack	07/25/06	11:47 am	0
	Conveyor Belt	07/26/06	8:46 am	0
Aug	Conveyor Belt	08/30/06	9:10 am	0
	Top of Shaker	08/30/06	9:20 am	0
Sep	Top of Shaker	09/11/06	11:00 am	0
Oct	Top of Shaker	10/04/06	8:44 am	0
	Top of Baghouse Stack	10/04/06	8:51 am	0
	Conveyor Belt	10/11/06	8:51 am	0
Nov	Top of Shaker	11/02/06	9:56 am	0
	Top of Baghouse Stack	11/02/06	10:02 am	0
	Conveyor Belt	11/02/06	10:08 am	0
Dec	Top of Shaker	12/12/06	9:15 am	0

\* Average opacity for the Asphalt Plant is the sum of the highest consecutive 24 readings divided by 24 (6 minutes of readings). The method is in accordance with 20.2.61 NMAC and condition 2.1.4.1 of the Los Alamos National Laboratory (LANL) Operating Permit P100M1.

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Permit Section	Monitoring Required	Monitoring Performed
	<p>20.2.61 NMAC unless opacity exceeds 20%. At such time as No. 2 fuel oil as defined in Condition 2.9.3.1 is used, opacity shall be measured in accordance with the procedures at 40 CFR 60, Appendix A, Method 9. Opacity measurements shall continue on a quarterly basis per calendar year for each effected unit until such time as pipeline quality natural gas is used.</p>	<p>Delivery of pipeline quality natural gas is specified in the contract with the supplier (PNM).</p> <p>Opacity measurements performed at the TA-03 Power Plant are provided in Attachment I.</p>
2.9.4.11	<p>Initial compliance tests are required on Unit TA-3-22 CT-1 for NO<sub>x</sub> and CO. These tests shall be conducted within sixty (60) days after the unit achieves the maximum normal production. If the maximum normal production rate does not occur within one hundred twenty (120) days of source startup, then the tests must be conducted no later than one hundred eighty (180) days after initial startup of the source. The tests shall be conducted in accordance with EPA Reference Methods 1 through 4, Method 7E for NO<sub>x</sub>, and Method 10 for CO contained in CFR Title 40, Part 60, Appendix A, and with the requirements of Subpart A, General Provisions, 60.8(f). Alternative test method(s) may be used if the Department approves the change. The permittee shall submit a testing protocol to the Department at least thirty (30) days prior to the test date, and provide notification to the Department at least thirty (30) days prior to the test date.</p>	<p>The Combustion Turbine has not started operations. No monitoring performed.</p>
2.9.4.12	<p>The permittee shall comply with fuel sulfur monitoring requirements at 40 CFR 60.334(h) applicable to Unit TA-</p>	<p>The Combustion Turbine has not started operations. No Monitoring performed.</p>

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<b>Permit Section</b>	<b>Monitoring Required</b>	<b>Monitoring Performed</b>
	3-22 CT-1 by making the required demonstration which shows the fuel combusted in the turbine meets the definition of natural gas at 40 CFR 60.331(u).	

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**Deviations**

Permit Section 4.2 requires that all instances of deviations from permit conditions, including emergencies, be clearly identified. Listed below are permit deviations this period:

1. Deviation from section 2.6 “Degreasers” of the LANL operating permit.

LANL operates a small 10” x 12” x 10” deep batch cold cleaning machine (degreaser) inside a fully enclosed glove box. The degreaser uses trichloroethylene. When registered and certified in 1998, it was understood that a 0.75 freeboard ratio could not be maintained. A compliance approach based on 40 CFR 63.462 Batch Cold Cleaning Machine work practice standards and 40 CFR 63.464 Alternative Standards was proposed and submitted to NMED. LANL is in the process of contacting EPA to request the use of an alternative measure.

----- Last Entry -----

# VISIBLE EMISSION OBSERVATION FORM

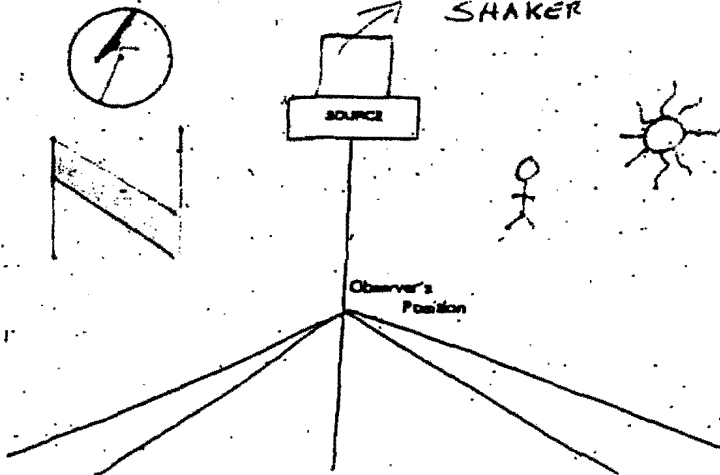


Environmental Improvement Division  
RECORD OF VISUAL DETERMINATION OF OPACITY

SOURCE	OBSERVATION DATE					START TIME					STOP TIME				
	Sec.	0	15	30	45	Min.	0	15	30	45	Min.	0	15	30	45
LOCATION: <b>ASPHALT PLANT</b>	JULY 25, 2006					11:39 AM					11:45 AM				
LOCATION: <b>TA-60</b>															
Type of Source: <b>ASPHALT PLANT</b>	Type of Control Equipment: <b>RASHOUSE</b>					1					13				
Describe Emission Point (top of stack, etc.): <b>TOP OF SHAKER</b>															
Height Above Ground Level: <b>40</b> Feet															
Height Relative to Observer: <b>40</b> Feet															
Distance from Observer: <b>30</b> Yards															
Direction from Observer: <b>NA</b>															
Description of Plume (each exit only): <b>NO EMISSIONS</b>															
Emission Color: <b>NO EMISSIONS</b>															
Plume Type: <b>NO EMISSIONS</b>															
Water Droplets Present? <input checked="" type="checkbox"/> NO															
At what point in the plume was opacity determined?: <b>12 TO 14" ABOVE SOURCE</b>															
Describe Background (i.e. blue sky, trees, etc.): <b>PARTLY CLOUDY (PC)</b>															
Background Color: <b>PC</b>															
Sky Conditions: <b>CLEAR (PC)</b>															
Wind Speed: <b>0.5</b> mph															
Wind Direction (i.e. from North to South): <b>WEST TO EAST (270°)</b>															
Ambient Temperature: <b>71</b> °F															
Wet Temperature: <b>76</b> °F															
Relative Humidity: <b>76</b> %															
COMMENTS: <b>NO VISIBLE EMISSIONS OBSERVED</b>															
Average Opacity: <b>0.0</b>															
Range of Opacity Readings: Min. <b>0</b> Max. <b>0</b>															
OBSERVER (please print): <b>RICHARD COSTA</b> Title: <b>ENGINEER</b>															
Signature: <i>R. Costa</i> Date: <b>JULY 26 2006</b>															
Organization: <b>KSL</b> Certification Date: <b>2-1-06</b>															

Draw Arrow in North Direction

IMPORTANT: Please indicate the following by sketch:



I acknowledge receipt of a copy of these visible emissions observations.

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

# VISIBLE EMISSION OBSERVATION FORM

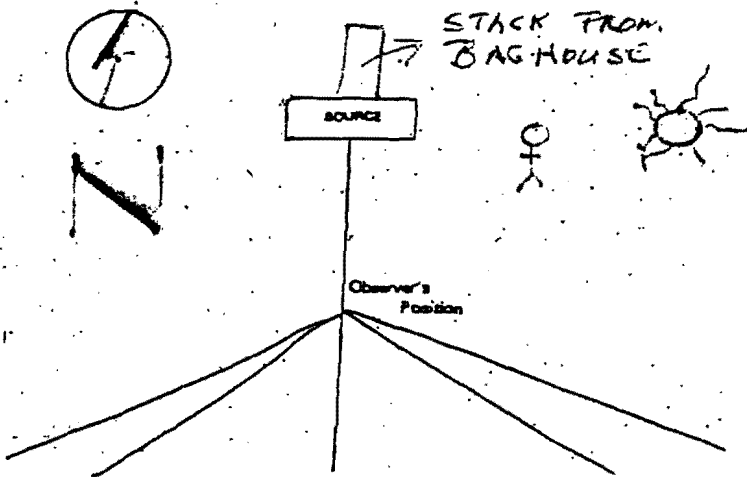
Environmental Improvement Division  
RECORD OF VISUAL DETERMINATION OF OPACITY



SOURCE		OBSERVATION DATE					START TIME		STOP TIME					
ASPHALT PLANT		July 25 2006					11:47 AM		11:53 AM					
LOCATION		Min.					Sec.							
TA-60		0	15	30	45	0	15	30	45					
Type of Source	Type of Control Equipment													
ASPHALT	BAGHOUSE	1 00 00					13							
Describe Emission Point (top of stack, etc.)														
TOP OF BAGHOUSE STACK		2 00 00					14							
Height Above Ground Level	Height Relative to Observer													
25 Feet	20 Feet	3 00 00					15							
Distance from Observer	Direction from Observer													
35 Yards	WEST	4 00 00					16							
Description of Plume (stack exit only)														
<input type="checkbox"/> Looping <input type="checkbox"/> Fanning <input checked="" type="checkbox"/> NO EMISSIONS <input type="checkbox"/> Coning <input type="checkbox"/> Trapping <input type="checkbox"/> Flaring <input type="checkbox"/> Pumping		5 00 00					17							
Emission Color	Plume Type													
NO EMISSIONS	NO EMISSIONS	6 00 00					18							
Water Droplets Present?														
<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> YES, droplet plume is <input type="checkbox"/> Attached <input type="checkbox"/> Detached		7					18							
At what point in the plume was opacity determined?														
12 TO 14" ABOVE THE STACK		8					20							
Describe Background (i.e. blue sky, trees, etc.)														
PARTLY CLOUDY (PC)		9					21							
Background Color	Sky Conditions													
PC - CLEAR	CLEAR	10					22							
Wind Speed	Wind Direction (i.e. from North to South)													
0 to 5 mph	WEST TO EAST (270°)	11					23							
Ambient Temperature	Wet Temperature													
71 °F	76 %	12					24							
COMMENTS:		Average Opacity					Range of Opacity Readings							
NO EMISSIONS OBSERVED		0.0					Min.: 0   Max.: 0							
		OBSERVER (please print)												
		Name: RICHARD COSTA					Title: ENGINEER							
		Signature: [Signature]					Date: July 26 2006							
		Organization: KSL					Certification Date: 2-1-06							

Draw Arrow in North Direction

IMPORTANT: Please indicate the following by sketch:



I acknowledge receipt of a copy of these visible emissions observations.

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

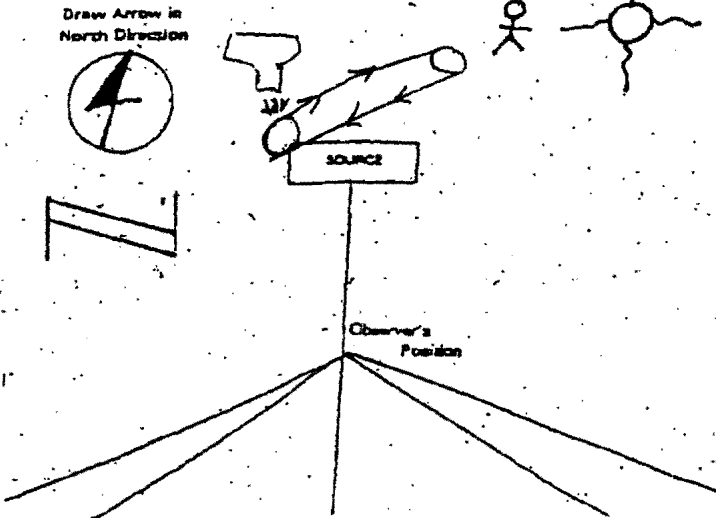
# VISIBLE EMISSION OBSERVATION FORM

*Correct*

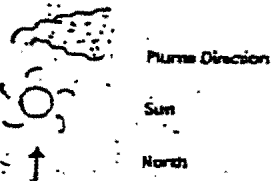
Environmental Improvement Division  
RECORD OF VISUAL DETERMINATION OF OPACITY



SOURCE		OBSERVATION DATE				START TIME				STOP TIME			
ASPHALT PLANT		July 26 2006				8:46 AM				8:52 AM			
LOCATION		Min.				Min.				Min.			
TA-60		0	15	30	45	0	15	30	45	0	15	30	45
Type of Source	Type of Control Equipment												
ASPHALT PLANT	BASKHOUSE	1	0	0	0	13							
Describe Emission Point (top of stack, etc.)													
CONNECTOR TRUCK/HOPPER DROP POINT		2	0	0	0	14							
Height Above Ground Level	Height Relative to Observer												
5 Feet	5 Feet	3	0	0	0	15							
Distance from Observer	Direction from Observer												
35 Yards	WEST	4	0	0	0	18							
Description of Plume (space efficiency)													
<input type="checkbox"/> Lapping <input type="checkbox"/> Fanning <input type="checkbox"/> Coning <input type="checkbox"/> Lifting <input type="checkbox"/> Trapping <input checked="" type="checkbox"/> None Emissions		5	0	0	0	17							
Emission Color	Plume Type												
None	None	6	0	0	0	18							
Water Droplets Present?													
<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES If YES, droplet plume is <input type="checkbox"/> Attached <input type="checkbox"/> Detached		7				19							
At what point in the plume was opacity determined?													
18' to 20' past the source		8				20							
Describe Background (i.e. blue sky, haze, etc.)													
PARTLY CLOUDY (PC)		9				21							
Background Color	Sky Conditions												
PC / CLEAR	PC / CLEAR	10				22							
Wind Speed	Wind Direction (i.e. from North to South)												
2 to 4 mph	NE to SW (29°)	11				23							
Ambient Temperature	Wet Temperature												
(approx) 67 °F		12				24							
Relative Humidity													
(approx) 62 %													
COMMENTS:		Average Opacity				Range of Opacity Readings							
NO EMISSIONS OBSERVED.		0.0				Min: 0 Max: 0							
OBSERVER (please print)													
Name: RICHARD COOPER													
Signature: [Signature]													
Date: July 27 2006													
Organization: KSL													
Correction Date: 2-1-06													



IMPORTANT: Please indicate the following by sketch:



I acknowledge receipt of a copy of these visible emissions observations.

Signature: \_\_\_\_\_

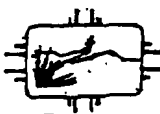
Title: \_\_\_\_\_

Date: \_\_\_\_\_



# VISIBLE EMISSION OBSERVATION FORM

Environmental Improvement Division  
RECORD OF VISUAL DETERMINATION OF OPACITY



SOURCE		OBSERVATION DATE				START TIME		STOP TIME			
ASPHALT PLANT		AUG 30 - 2006				9:10 A.M.		9:16 A.M.			
LOCATION		Sec.				Sec.					
TAGO		0'	15'	30'	45'	0'	15'	30'	45'		
Type of Source	Type of Control Equipment										
ASPHALT PLANT	BAG HOUSE										
Describe Emission Point (Top of stack, etc.)											
CONVEYER BELT											
Height Above Ground Level	Height Relative to Observer										
215 Feet	2 Feet										
Distance from Observer	Direction from Observer										
20 Yards	N										
Description of Plume (stack exit only)											
<input type="checkbox"/> Looping <input type="checkbox"/> Fanning <input type="checkbox"/> Coning <input type="checkbox"/> Fumigation <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES											
Emission Color	Plume Type										
NO EMISSION	NO EMISSION										
Water Droplets Present?											
<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES											
At what point in the plume was opacity determined?											
18' to 20'											
Describe Background (i.e. blue sky, trees, etc.)											
CLEAR SKY - BLUE											
Background Color	Sky Conditions										
B.S.	CLEAR / B.S.										
Wind Speed	Wind Direction (i.e. from North to South)										
0.0 mph	NORTH										
Ambient Temperature	Wet Temperature	Relative Humidity									
APR. 69 °F											

COMMENTS: NO VISIBLE EMISSIONS OBSERVED

Average Opacity: 0.0

Range of Opacity Readings: Min: 0 Max: 0

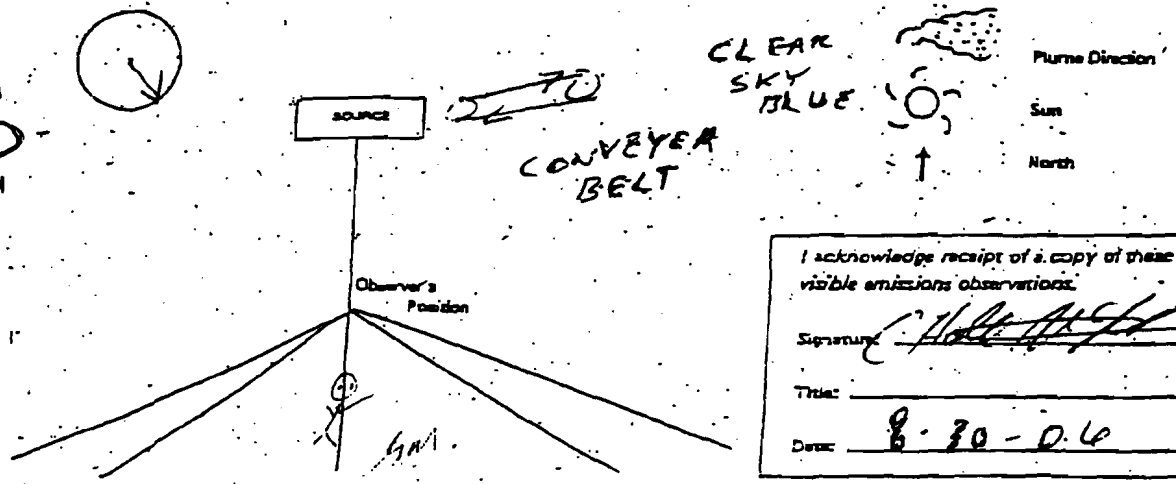
OBSERVER (please print): Name: GLENDA MONTGOMERY Title: ENV-TEC

Signature: [Signature] Date: AUG 30 - 2006

Organization: ENV-EAQ Certification Date: 06-07-06

Draw Arrow in North Direction

IMPORTANT: Please indicate the following by sketch:



I acknowledge receipt of a copy of these visible emissions observations.

Signature: [Signature]

Title: \_\_\_\_\_

Date: 8-30-06

# VISIBLE EMISSION OBSERVATION FORM

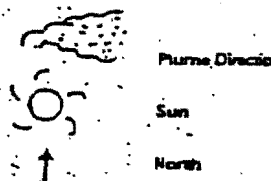
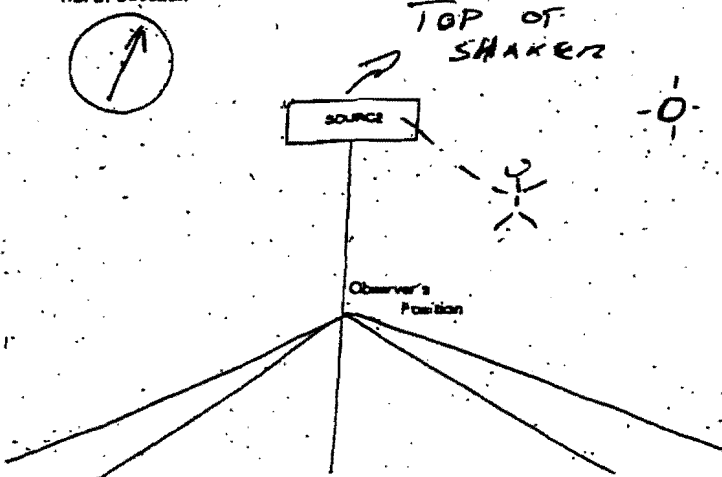
Environmental Improvement Division  
RECORD OF VISUAL DETERMINATION OF OPACITY



SOURCE		OBSERVATION DATE					START TIME		STOP TIME				
ASPHALT PLANT		AUG. 30 - 2006					9:20 AM		9:26 AM				
LOCATION		Sec					Sec						
TA-60		Min.	0	15	30	45	Min.	0	15	30	45		
Type of Source	Type of Control Equipment												
ASPHALT PLANT	BAG HOUSE												
Describe Emission Point (top of stack, etc.)													
TOP OF SHAKER													
Height Above Ground Level		Height Relative to Observer											
40 Feet		40 Feet											
Distance from Observer		Direction from Observer											
20 Yards		S.W.											
Description of Plume (stack exit only)		<input type="checkbox"/> Looping <input type="checkbox"/> Fanning <input type="checkbox"/> Coning <input type="checkbox"/> Fumigation <input type="checkbox"/> Trapping											
Emission Color		Plume Type											
NO EMISSIONS		NO EMISSIONS											
Water Droplets Present?		<input type="checkbox"/> NO <input type="checkbox"/> YES If YES, droplet plume is <input type="checkbox"/> Attached <input type="checkbox"/> Detached											
At what point in the plume was opacity determined?													
12 to 14" ABOVE SOURCE													
Describe Background (i.e. blue sky, trees, etc.)													
CLEAR SKY - BLUE													
Background Color		Sky Conditions											
B.S.		B.S.											
Wind Speed		Wind Direction (i.e. from North to South)											
0.5 mph		N.W.											
Ambient Temperature		Wet Temperature		Relative Humidity									
69 °F													
COMMENTS		Average Opacity					Range of Opacity Readings						
NO VISIBLE EMISSIONS OBSERVED		12.0					Min.: 0 Max.: 0						
		OBSERVER (please print)											
		Name: UCCALD MARTINEZ, ENV. TEL											
		Signature					Date						
		[Signature]					AUG. 30 - 2006						
		Organization					Certification Date						
		ENV-EAD					6-07-06						

Draw Arrow in North Direction

IMPORTANT: Please indicate the following by sketch:



I acknowledge receipt of a copy of these visible emissions observations.

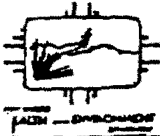
Signature: [Signature]

Title: \_\_\_\_\_

Date: 8-30-06

# VISIBLE EMISSION OBSERVATION FORM

Environmental Improvement Division  
RECORD OF VISUAL DETERMINATION OF OPACITY



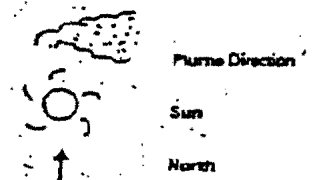
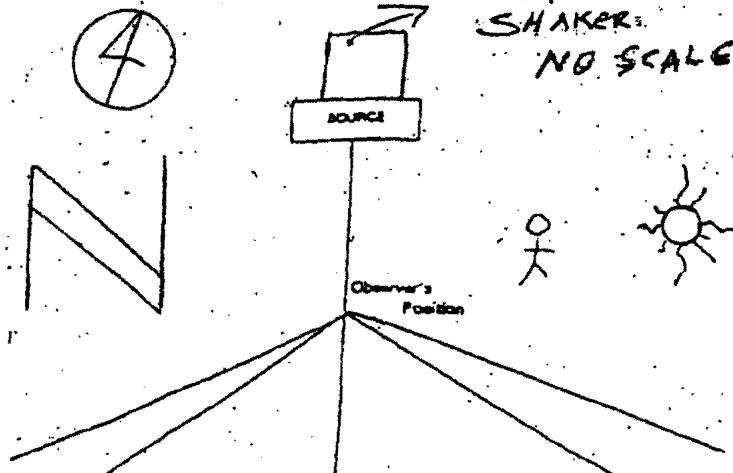
SOURCE		OBSERVATION DATE				START TIME				STOP TIME							
ASPHALT PLANT		SEPT-11-2006				11AM				11:06AM							
LOCATION		Sec				Sec				Sec							
TA-60		Min.	0	15	30	45	Min.	0	15	30	45	Min.	0	15	30	45	
Type of Source	Type of Control Equipment	1		0		0		0		13							
ASPHALT PROD.	BAGHOUSE	2		0		0		0		14							
Describe Emission Point (Top of stack, etc.)		3		0		0		0		15							
TOP OF SHAKER		4		0		0		0		16							
Height Above Ground Level	Height Relative to Observer	5		0		0		0		17							
APPROX 40 Feet	APPROX 35 Feet	6		0		0		0		18							
Direction from Observer	Direction from Observer	7		0		0		0		19							
25 YDS	WEST	8		0		0		0		20							
Description of Plume (loop, skirt, only)		9		0		0		0		21							
NONE		10		0		0		0		22							
Emission Color		11		0		0		0		23							
NO EMISSION		12		0		0		0		24							
Plume Type		13		0		0		0		25							
NO EMISSION		14		0		0		0		26							
Plume Type		15		0		0		0		27							
NO EMISSION		16		0		0		0		28							
Plume Type		17		0		0		0		29							
NO EMISSION		18		0		0		0		30							
Plume Type		19		0		0		0		31							
NO EMISSION		20		0		0		0		32							
Plume Type		21		0		0		0		33							
NO EMISSION		22		0		0		0		34							
Plume Type		23		0		0		0		35							
NO EMISSION		24		0		0		0		36							
Plume Type		25		0		0		0		37							
NO EMISSION		26		0		0		0		38							
Plume Type		27		0		0		0		39							
NO EMISSION		28		0		0		0		40							
Plume Type		29		0		0		0		41							
NO EMISSION		30		0		0		0		42							
Plume Type		31		0		0		0		43							
NO EMISSION		32		0		0		0		44							
Plume Type		33		0		0		0		45							
NO EMISSION		34		0		0		0		46							
Plume Type		35		0		0		0		47							
NO EMISSION		36		0		0		0		48							
Plume Type		37		0		0		0		49							
NO EMISSION		38		0		0		0		50							
Plume Type		39		0		0		0		51							
NO EMISSION		40		0		0		0		52							
Plume Type		41		0		0		0		53							
NO EMISSION		42		0		0		0		54							
Plume Type		43		0		0		0		55							
NO EMISSION		44		0		0		0		56							
Plume Type		45		0		0		0		57							
NO EMISSION		46		0		0		0		58							
Plume Type		47		0		0		0		59							
NO EMISSION		48		0		0		0		60							
Plume Type		49		0		0		0		61							
NO EMISSION		50		0		0		0		62							
Plume Type		51		0		0		0		63							
NO EMISSION		52		0		0		0		64							
Plume Type		53		0		0		0		65							
NO EMISSION		54		0		0		0		66							
Plume Type		55		0		0		0		67							
NO EMISSION		56		0		0		0		68							
Plume Type		57		0		0		0		69							
NO EMISSION		58		0		0		0		70							
Plume Type		59		0		0		0		71							
NO EMISSION		60		0		0		0		72							
Plume Type		61		0		0		0		73							
NO EMISSION		62		0		0		0		74							
Plume Type		63		0		0		0		75							
NO EMISSION		64		0		0		0		76							
Plume Type		65		0		0		0		77							
NO EMISSION		66		0		0		0		78							
Plume Type		67		0		0		0		79							
NO EMISSION		68		0		0		0		80							
Plume Type		69		0		0		0		81							
NO EMISSION		70		0		0		0		82							
Plume Type		71		0		0		0		83							
NO EMISSION		72		0		0		0		84							
Plume Type		73		0		0		0		85							
NO EMISSION		74		0		0		0		86							
Plume Type		75		0		0		0		87							
NO EMISSION		76		0		0		0		88							
Plume Type		77		0		0		0		89							
NO EMISSION		78		0		0		0		90							
Plume Type		79		0		0		0		91							
NO EMISSION		80		0		0		0		92							
Plume Type		81		0		0		0		93							
NO EMISSION		82		0		0		0		94							
Plume Type		83		0		0		0		95							
NO EMISSION		84		0		0		0		96							
Plume Type		85		0		0		0		97							
NO EMISSION		86		0		0		0		98							
Plume Type		87		0		0		0		99							
NO EMISSION		88		0		0		0		100							

COMMENTS:  
METHOD 22 ALSO CONFIRMED NO EMISSIONS FROM THE CONVEYER BELT TRANSFER POINT. NO EMISSIONS FROM BAGHOUSE.

Average Opacity: 0.0  
Range of Opacity Readings: Min: 0 Max: 0  
OBSERVER (please print): RICHARD COSTA  
Title: ENGINEER  
Signature: [Signature]  
Date: 9-11-06  
Organization: KSL  
Certification Date: 8-30-2006

Draw Arrow in North Direction

IMPORTANT: Please indicate the following by sketch:



I acknowledge receipt of a copy of these visible emissions observations.  
Signature: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

# VISIBLE EMISSION OBSERVATION FORM

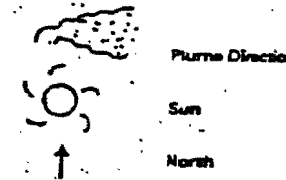
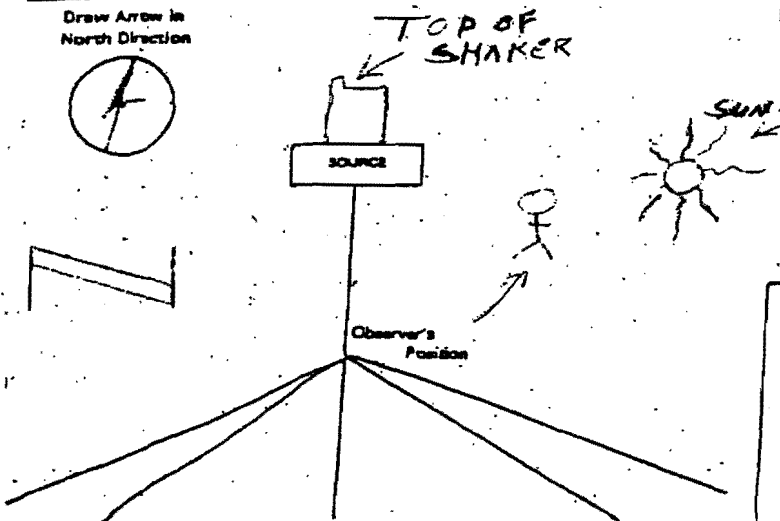


Environmental Improvement Division  
RECORD OF VISUAL DETERMINATION OF OPACITY

SOURCE	OBSERVATION DATE					START TIME					STOP TIME				
	Min.	0	15	30	45	Min.	0	15	30	45	Min.	0	15	30	45
ASPHALT PLANT	10-4-06					8:45AM					9:50AM				
LOCATION	TA-60														
Type of Source	ASPHALT PLANT					Type of Control Equipment					BAGHOUSE				
Describe Emission Point (top of stack, etc.)	TOP OF SHAKER					1					0000				
Height Above Ground Level	40 Feet					Height Relative to Observer					35 Feet				
Distance from Observer	30 Yards					Direction from Observer					WEST				
Description of Plume (stack exit only)	NO PLUME					2					0000				
	<input type="checkbox"/> Looping <input type="checkbox"/> Flaring <input type="checkbox"/> Fanning <input type="checkbox"/> Coning <input type="checkbox"/> Fumigation					3					0000				
Emission Color	NO EMISSION					Plume Type					N/A				
Water Droplets Present	<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> YES, droplet plume is					4					0000				
At what point in the plume was opacity determined?	12 TO 14" ABOVE SOURCE					5					0000				
Describe Background (i.e. blue sky, brown, etc.)	CLEAR					6					0000				
Background Color	BLUE SKY					Sky Conditions					CLEAR				
Wind Speed	1705 mph					Wind Direction (i.e. from North to South)					191°				
Ambient Temperature	62 °F					Wet Temperature					N/A °F				
						Relative Humidity					29 %				
COMMENTS: DURING THIS COMPLIANCE TEST - NO EMISSIONS WERE OBSERVED. ASPHALT HAULROAD PAVED MID SEPT. 2006.	Average Opacity					Range of Opacity Readings					Min.: 0 Max.: 0				
	-00					Name: RICHARD COSTA					Title: ENGINEER				
	Signature: [Signature]					Date: 10-5-06									
	Organization: KSL					Certification Date: 4-30-06									

Draw Arrow in North Direction

IMPORTANT: Please indicate the following by sketch:



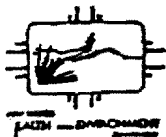
I acknowledge receipt of a copy of these visible emissions observations.

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

# VISIBLE EMISSION OBSERVATION FORM

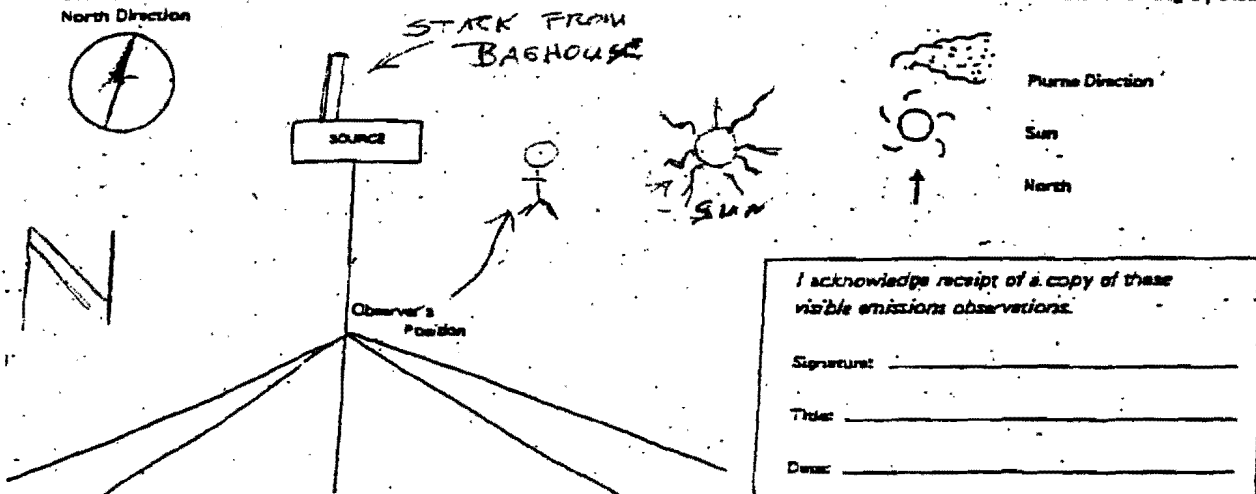


Environmental Improvement Division  
RECORD OF VISUAL DETERMINATION OF OPACITY

SOURCE		OBSERVATION DATE					START TIME		STOP TIME		
ASPHALT PLANT		10-4-06					8:51 AM		8:57 AM		
LOCATION		Sec.					Min.				
TA-60		0	15	30	45	0	15	30	45		
Type of Source	Type of Control Equipment										
BAGHOUSE STACK	BAGHOUSE	1	0	0	0	13					
Describe Emission Point (top of stack, etc.)											
TOP OF BAGHOUSE STACK		2	0	0	0	14					
Height Above Ground Level	Height Relative to Observer										
25 Feet	2.0 Feet	3	0	0	0	15					
Distance from Observer	Direction from Observer										
35 Yards	WEST	4	0	0	0	18					
Description of Plume (see key only)											
<input type="checkbox"/> Looping <input type="checkbox"/> Fanning <input checked="" type="checkbox"/> NO PLUME <input type="checkbox"/> Lifting <input type="checkbox"/> Trapping <input type="checkbox"/> Coiling <input type="checkbox"/> Fumigation		5	0	0	0	17					
Emission Color	Plume Type										
NO EMISSION	N.A.	6	0	0	0	18					
Water Droplets Present?											
<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> YES, droplet plume is <input type="checkbox"/> Attached <input type="checkbox"/> Detached		7				19					
At what point in the plume was opacity determined?											
12 TO 14" ABOVE STACK		8				20					
Describe Background (i.e. blue sky, trees, etc.)											
CLEAR		9				21					
Background Color	Sky Conditions										
BLUE SKY	CLEAR	10				22					
Wind Speed	Wind Direction (i.e. from North to South)										
1 to 5 mph	196°	13				23					
Ambient Temperature	Wet Temperature	Relative Humidity									
APPROX 62 °F	N.A. °F	29 %	12				24				
COMMENTS:		Average Opacity		Range of Opacity Readings							
DURING THIS OBSERVATION NO EMISSIONS WERE OBSERVED ASPHALT HAUL ROAD PAVED MID SEPT 2006.		-0-		Min: 0   Max: 0							
		OBSERVER (please print)									
		Name: RICHARD COFF		Title: ENGINEER							
		Signature: <i>R. Coff</i>		Date: 10-5-06							
		Organization: KSL		Certification Date: 8-30-06							

Draw Arrow in North Direction

IMPORTANT: Please indicate the following by sketch:



I acknowledge receipt of a copy of these visible emissions observations.

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

# VISIBLE EMISSION OBSERVATION FORM

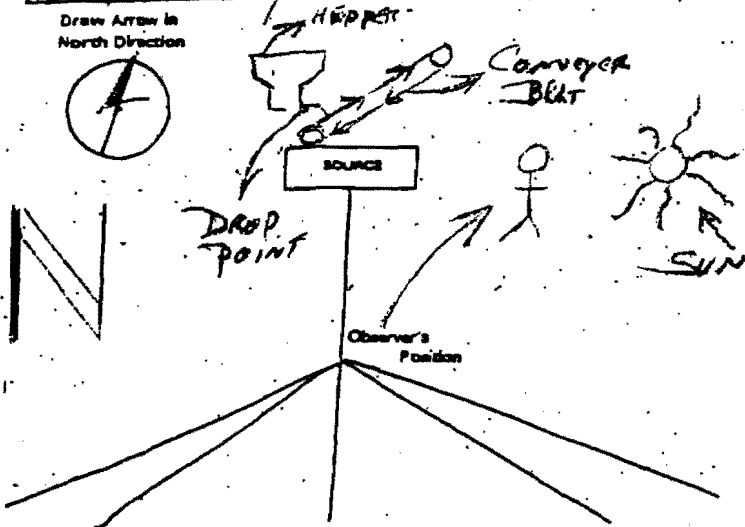


Environmental Improvement Division  
RECORD OF VISUAL DETERMINATION OF OPACITY

8:57 AM  
R. Costa

SOURCE		OBSERVATION DATE					START TIME		STOP TIME			
ASPHALT PLANT		10-11-06					8:51 AM		8:56 AM			
LOCATION		Sec.					Sec.					
TA-60		0	15	30	45	0	15	30	45			
Type of Source	Type of Control Equipment											
ASPHALT PLANT	BAGHOUSE											
Describe Emission Point (top of stack, etc.)												
CONVEYER BELT - DROP POINT												
Height Above Ground Level	Height Relative to Observer											
5 Feet	5 Feet											
Distance from Observer	Direction from Observer											
25 Yards	NORTH											
Description of Plume (loop, etc., any)												
<input type="checkbox"/> Looping <input type="checkbox"/> Fanning <input checked="" type="checkbox"/> NO EMISSIONS <input type="checkbox"/> Lifting <input type="checkbox"/> Trapping <input type="checkbox"/> Coning <input type="checkbox"/> Plume												
Emission Color	Plume Type											
NO EMISSIONS	NO PLUME											
Water Droplets Present?												
<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> YES, droplet plume is <input type="checkbox"/> Attached <input type="checkbox"/> Detached												
At what point in the plume was opacity determined?												
12" TO 14" ABOVE DROP POINT												
Describe Background (i.e. blue sky, trees, etc.)												
CLEAR												
Background Color	Sky Conditions											
BLUE	CLEAR											
Wind Speed	Wind Direction (i.e. from North to South)											
3 TO 8 mph	EAST TO WEST											
Ambient Temperature	Wet Temperature	Relative Humidity										
APPROX 58 °F	WET	APPROX 35 %										
COMMENTS:		Average Opacity		Range of Opacity Readings								
OPACITY READING COMPLETED TO VERIFY THAT ENGINEERING CONTROLS ARE EFFECTIVE. NO EMISSIONS NOTED FACILITY IS COMPLIANT W/ PERMIT CONDITIONS.		- 0 - 0 -		Min: 0   Max: 0								
		OBSERVER (please print)		Title								
		Name: RICHARD COSTA		Title: ENGINEER								
		Signature: R. Costa		Date: 10-11-06								
		Organization: KSL		Certification Date: 8-30-06								

IMPORTANT: Please indicate the following by sketch:



I acknowledge receipt of a copy of these visible emissions observations.

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

# VISIBLE EMISSION OBSERVATION FORM

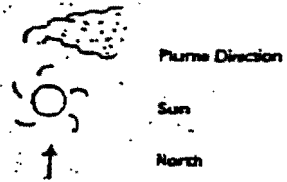
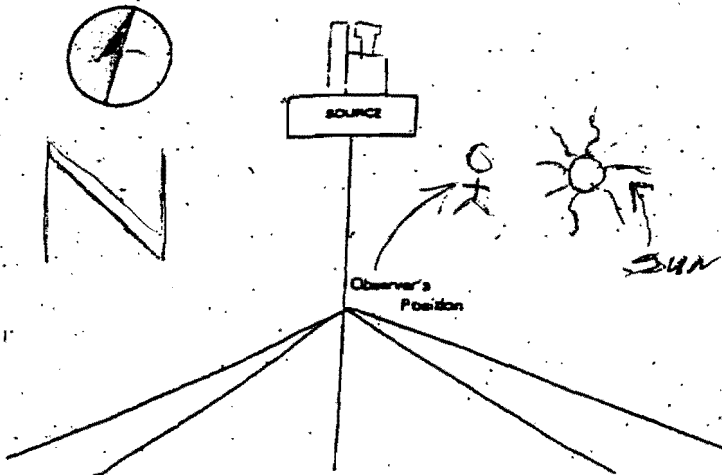
Environmental Improvement Division  
RECORD OF VISUAL DETERMINATION OF OPACITY



SOURCE		OBSERVATION DATE					START TIME		STOP TIME		
ASPHALT PLANT		11-2-06					9:56AM		10:01AM		
LOCATION		Sec.					Min.				
TA-60		0 15 30 45					0 15 30 45				
Type of Source	Type of Control Equipment	1		0000		13					
ASPHALT PLANT	BAGHOUSE	2		0000		14					
Describe Emission Point (top of stack, etc.)		3		0000		15					
TOP OF SHAKER		4		0000		18					
Height Above Ground Level	Height Relative to Observer	5		0000		17					
40 Feet	35 Feet	6		0000		18					
Distance from Observer	Direction from Observer	7				18					
3.5 Yards	WEST	8				20					
Description of Plume (stack exit only)		9				21					
NO EMISSIONS		10				22					
Emission Color		11				23					
NONE		12				24					
Water Droplets Present?		13				23					
<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES If YES, droplets plume is <input type="checkbox"/> Attached <input type="checkbox"/> Detached		14				24					
At what point in the plume was opacity determined?		15									
12 TO 14" ABOVE SOURCE		16									
Describe Background (i.e. blue sky, trees, etc.)		17									
BLUE SKY		18									
Background Color	Sky Conditions	19									
CLEAR	CLEAR	20									
Wind Speed	Wind Direction (i.e. from North to South)	21									
2 to 4 mph	11° to 23°	22									
Ambient Temperature	Wet Temperature	23									
56 (13.5) °F	NONE °F	24									
Relative Humidity		25									
59 %		26									
COMMENTS:		27									
PLANT OPERATIVE NORMAL. NO EMISSION FROM SOURCE & ROADS SUPT 11-1-06 @ 6:30PM		28									
Average Opacity		29									
-0-		30									
Range of Opacity Readings		31									
Min.: 0 Max.: 0		32									
OBSERVER (please print)		33									
Name: RICHARD COOPER		34									
Title: ENGINEER		35									
Signature: [Signature]		36									
Date: 11-2-06		37									
Organization: KSL		38									
Certification Date: 8-30-06		39									

Draw Arrow in North Direction

IMPORTANT: Please indicate the following by sketch:



I acknowledge receipt of a copy of these visible emissions observations.

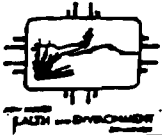
Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

# VISIBLE EMISSION OBSERVATION FORM

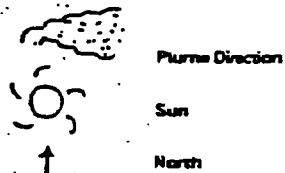
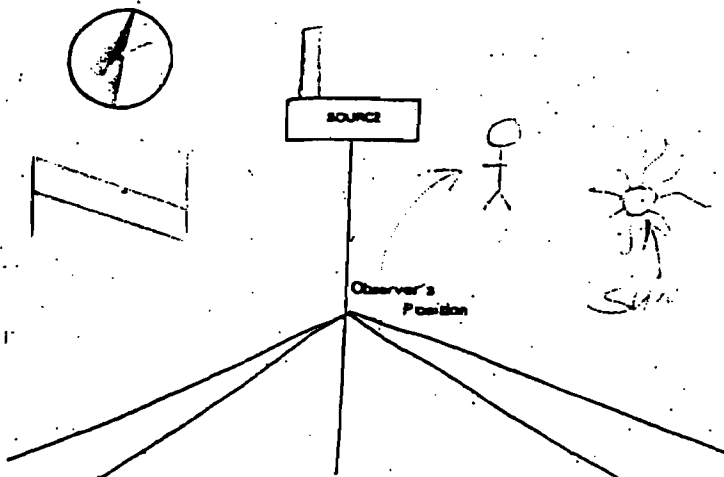
Environmental Improvement Division  
RECORD OF VISUAL DETERMINATION OF OPACITY



SOURCE <b>ASPHALT PLANT</b>		OBSERVATION DATE <b>11-2-06</b>				START TIME <b>10:02AM</b>				STOP TIME <b>10:07AM</b>			
LOCATION <b>TA-60</b>		Sec.	0	15	30	45	Min.	0	15	30	45		
Type of Source <b>ASPHALT PT. BAGHOUSE STACK</b>	Type of Control Equipment <b>BAGHOUSE</b>	1	0	0	0	0	13						
Describe Emission Point (top of stack, etc.) <b>BAGHOUSE STACK</b>		2	0	0	0	0	14						
Height Above Ground Level <b>25</b> Feet	Height Relative to Observer <b>20</b> Feet	3	0	0	0	0	15						
Distance from Observer <b>35</b> Yards	Direction from Observer <b>WEST</b>	4	0	0	0	0	16						
Description of Plume (spec. ash, only) <input checked="" type="checkbox"/> Looping <input type="checkbox"/> Fanning <input type="checkbox"/> Coning <input type="checkbox"/> Trapping <input type="checkbox"/> Fumigation		5	0	0	0	0	17						
Emission Color <b>NONE</b>	Plume Type <input checked="" type="checkbox"/> Continuous <input type="checkbox"/> Fugitive <input type="checkbox"/> Intermittent	6	0	0	0	0	18						
Water Droplets Present? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES If YES, droplet plume is <input type="checkbox"/> Attached <input type="checkbox"/> Detached		7						19					
At what point in the plume was opacity determined? <b>12" TO 14" ABOVE STACK</b>		8						20					
Describe Background (i.e. blue sky, trees, etc.) <b>BLUE SKY</b>		9						21					
Background Color <b>CLEAR</b>	Sky Conditions <b>CLEAR</b>	10						22					
Wind Speed <b>2 TO 4</b> mph	Wind Direction (i.e. from North to South) <b>11 TO 23°</b>	11						23					
Ambient Temperature <b>56 (13.5)</b> °F	Wet Temperature <b>NONE</b> °F	12	Relative Humidity <b>59</b> %					24					
COMMENTS: <b>PLANT OPERATING NORMAL NO EMISSIONS FROM SOURCE ROADS SWEEP 11-1-06 @ 6:30PM</b>		Average Opacity <b>-0-</b>				Range of Opacity Readings Min.: <b>0</b> Max.: <b>0</b>							
OBSERVER (please print) Name: <b>REINHARD COSTA</b> Title: <b>ENGINEER</b>		Signature: <i>[Signature]</i>		Date: <b>11-2-06</b>									
Organization: <b>KSL</b>		Certification Date: <b>8-30-06</b>											

Draw Arrow in North Direction

IMPORTANT: Please indicate the following by sketch:



I acknowledge receipt of a copy of these visible emissions observations.

Signature: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_



**FOR INFORMATION ONLY**  
**300 AREA GLOVEBOX EXHAUST IN-PLACE HEPA FILTER TESTING**  
**ATTACHMENT A**  
**300 Area Glovebox Exhaust FF-854 Data Sheet**

Date: 7-19-06 (8.4.1)      LAS Calibration Expiration Date: 01-25-07 (8.4.3)      Diluter Calibration Expiration Date: 10-18-06 (8.4.4)      Dilution Ratio: 2109 (8.4.2)

Step Number	Item	FF-854 H-5-1450
9.1.12.2	Background concentration (part./cc)	$3.531 \times 10^{-3}$ part. concentration
9.1.12.3	Upstream concentration (part./cc)	$2.512 \times 10^6$ part. concentration
9.1.12.4	Challenge aerosol concentration between $2.00 \times 10^6$ and $2.71 \times 10^6$ part./cc	NO Initials
9.1.12.5	1 <sup>st</sup> stage downstream concentration (part./cc)	$2.835 \times 10^2$ part. concentration
9.1.12.6	2 <sup>nd</sup> /3 <sup>rd</sup> stage downstream concentration (part./cc)	$3.531 \times 10^{-3}$ part. concentration
9.1.12.7	1 <sup>st</sup> stage Penetration $\leq 5.0 \times 10^{-4}$ (efficiency $\geq 99.95\%$ )	$1.128 \times 10^{-4}$
9.1.12.8	2 <sup>nd</sup> /3 <sup>rd</sup> stage Penetration $\leq 2.5 \times 10^{-7}$ (efficiency $\geq 99.999975\%$ )	$2.812 \times 10^{-9}$
9.1.13.2 9.1.13.3	Ensure all test port ball valves are closed; (FF-858-FH1, FF-859-FH1, TP-858-2, TP-855-2, TP-854-2, TP-859-2, TP-854-3, TP-855-3, TP-855-1, TP-854-1)	peo Initials      PT Independent Verification

Valve	Required Position	Initials	Independent Verification
HV-854-J	Closed and Locked	peo	mnt
HV-854-G	Closed	peo	mnt
HV-854-H	Closed	peo	mnt
HV-854-D	Closed	peo	mnt
HV-854-C	Closed	peo	mnt
HV-854-B	Closed	peo	mnt
HV-854-A	Closed	peo	mnt
HV-854-AA	Closed	peo	mnt

Comments:

Surveillance Personnel

*[Signature]*  
Signature

7/19/06  
Date

OC OR-GRY  
Supervisor

*[Signature]*  
Signature

7/20/06  
Date

**FOR INFORMATION ONLY**

# VISIBLE EMISSION OBSERVATION FORM

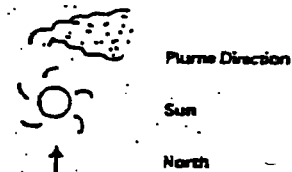
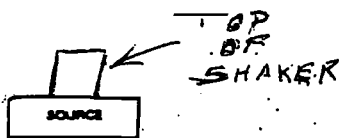
Environmental Improvement Division  
RECORD OF VISUAL DETERMINATION OF OPACITY



SOURCE		OBSERVATION DATE				START TIME		STOP TIME			
ASPHALT PLANT		12-12-06				9:15 AM		9:21 AM			
LOCATION		Sec.				Sec.					
TA-60		0	15	30	45	0	15	30	45		
Type of Source	Type of Control Equipment	1		13							
ASPHALT PLANT	BAGHOUSE	2		14							
Describe Emission Point (top of stack, etc.)		3		15							
TOP OF SHAKER		4		18							
Height Above Ground Level	Height Relative to Observer	5		17							
40 Feet	35 Feet	6		18							
Distance from Observer	Direction from Observer	7		19							
30 Yards	WEST	8		21							
Description of Plume (stack exit only)		9		22							
<input type="checkbox"/> Looping <input type="checkbox"/> Fanning <input type="checkbox"/> Coning <input type="checkbox"/> Trapping <input type="checkbox"/> Funneling <input checked="" type="checkbox"/> NO EMISSIONS		10		23							
Emission Color	Plume Type	11		24							
NO EMISSIONS	NO EMISSIONS	12		25							
Water Droplets Present?		13		26							
<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES If YES, droplet plume is <input type="checkbox"/> Attached <input type="checkbox"/> Detached		14		27							
At what point in the plume was opacity determined?		15		28							
10" TO 13" ABOVE SOURCE		16		29							
Describe Background (i.e. blue sky, trees, etc.)		17		30							
CLEAR BLUE SKY		18		31							
Background Color	Sky Conditions	19		32							
CLEAR	CLEAR	20		33							
Wind Speed	Wind Direction (LA from North to South)	21		34							
17-3 mph	FROM 320° TO 10°	22		35							
Ambient Temperature	Wet Temperature	23		36							
38 degrees	10 TO 18% RH	24		37							
COMMENTS		25		38							
THERE WERE NO VISIBLE EMISSIONS BASED ON THE LIMITED RUN TIME & EAC AGREEMENT, METHOD 22 WAS USED TO DETERMINE "NO EMISSIONS" WERE SEEN FROM THE BAGHOUSE AND CONVEYER BELT. READ CONDITIONS MEET PERMIT REQUIREMENTS		26		39							
Average Opacity: 0-0 Range of Opacity Readings: Min: 0 Max: 0		27		40							
OBSERVER (please print)		28		41							
Name: RICHARD COSTA Title: ENGINEER		29		42							
Signature: [Signature]		30		43							
Date: 12-13-06		31		44							
Organization: KSL		32		45							
Certification Date: 8-30-06		33		46							

Draw Arrow in North Direction

IMPORTANT: Please indicate the following by sketch:



I acknowledge receipt of a copy of these visible emissions observations.

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

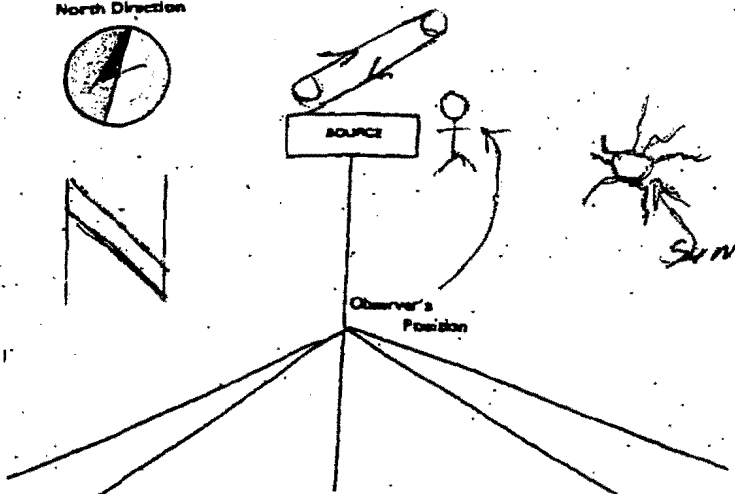
# VISIBLE EMISSION OBSERVATION FORM



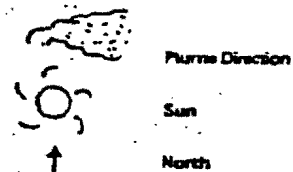
Environmental Improvement Division  
RECORD OF VISUAL DETERMINATION OF OPACITY

SOURCE		OBSERVATION DATE				START TIME				STOP TIME			
ASPHALT PLANT		11-2-06				10:00AM				10:13AM			
LOCATION		Sec.	0	15	30	45	Sec.	0	15	30	45		
TA-60		Min.					Min.						
Type of Source	Type of Control Equipment	1	0	0	0	0	13						
ASPHALT PLANT	BAG HOUSE	2	0	0	0	0	14						
Describe Emission Point (top of stack, etc.)		3	0	0	0	0	15						
CONVEYER BELT DROP POINT		4	0	0	0	0	16						
Height Above Ground Level	Height Relative to Observer	5	0	0	0	0	17						
5 Feet	5 Feet	6	0	0	0	0	18						
Distance from Observer	Direction from Observer	7	0	0	0	0	19						
5 Yards	WNW	8	0	0	0	0	20						
Description of Plume (stack exit only)		9	0	0	0	0	21						
<input type="checkbox"/> Looping <input type="checkbox"/> Fanning <input type="checkbox"/> Coiling <input type="checkbox"/> Trapping <input type="checkbox"/> Fumigation <input type="checkbox"/> NO EMISSION		10	0	0	0	0	22						
Emission Color	Plume Type	11	0	0	0	0	23						
NONE	NONE	12	0	0	0	0	24						
<input type="checkbox"/> Continuous <input type="checkbox"/> Fugitive <input type="checkbox"/> Intermittent Water Droplets Present?		Average Opacity		Range of Opacity Readings		Max. 0		Min. 0					
<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES If YES, droplet plume is <input type="checkbox"/> Attached <input type="checkbox"/> Detached		- 0 -											
At what point in the plume was opacity determined?		OBSERVER (please print)		Name: RICHARD COSTA		Title: ENGINEER							
10 TO 12" ABOVE DROP POINT		Signature		Date		11-2-06							
Describe Background (i.e. blue sky, trees, etc.)		Organization		Certification Date		8-30-06							
BLUE SKY		KSL											
Background Color	Sky Conditions	COMMENTS:											
CLEAR	CLEAR	PLANT OPERATING NORMAL NO EMISSIONS FROM THIS SOURCE											
Wind Speed	Wind Direction (i.e. from North to South)	ROADS SWEEP 11-1-06 @ 6:30PM											
2 TO 4 mph	110-123 DEGREE												
Ambient Temperature	Wet Temperature												
56 °F	NONE °F												
	Relative Humidity												
	59 %												

Draw Arrow in North Direction



IMPORTANT: Please indicate the following by sketch:



I acknowledge receipt of a copy of these visible emissions observations.

Signature: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Los Alamos National Laboratory  
Operating Permit P100M1  
Semi-Annual Monitoring Report  
July 1 – December 31, 2006

Attachment B  
Beryllium HEPA Filter Tests Results

Summary Table, Reports Attached

Unit	Date	Pass/Fail
TA-55 (H5-1450) (FF-854)	7/19/2006	Pass
TA-55 (H5-1460) (FF-855)	7/19/2006	Pass

300 AREA GLOVEBOX EXHAUST IN PLACE HEPA FILTER TESTING

**FOR INFORMATION ONLY**  
**ATTACHMENT C**  
**300 Area Glovebox Exhaust FF-855 Data Sheet**

Date: 7-19-06 (8.4.1)      LAS Calibration Expiration Date: 01-25-07 (8.4.3)      Diluter Calibration Expiration Date: 10-18-06 (8.4.4)      Dilution Ratio: 2109 (8.4.2)

Step Number	Item	FF-855 H-5-1460
9.3.12.2	Background concentration (part./cc)	$1.059 \times 10^{-2}$ part. concentration
9.3.12.3	Upstream concentration (part./cc)	$2.267 \times 10^6$ part. concentration <del><math>2.267 \times 10^6</math></del> 7-20-06
9.3.12.4	Challenge aerosol concentration between $2.00 \times 10^6$ and $2.71 \times 10^6$ part./cc	AD Initials
9.3.12.5	1 <sup>st</sup> stage downstream concentration (part./cc)	$1.017 \times 10^{-2}$ part. concentration
9.3.12.6	2 <sup>nd</sup> /3 <sup>rd</sup> stage downstream concentration (part./cc)	$2.884 \times 10^{-2}$ part. concentration
9.3.12.7	1 <sup>st</sup> stage Penetration $\leq 5.0 \times 10^{-4}$ (efficiency $\geq 99.95\%$ )	$4.484 \times 10^{-5}$
9.3.12.8	2 <sup>nd</sup> /3 <sup>rd</sup> stage Penetration $\leq 2.5 \times 10^{-7}$ (efficiency $\geq 99.999975\%$ )	$1.246 \times 10^{-8}$
9.3.13.2 9.3.13.3	Ensure all test port ball valves are closed; (FF-858-FH1, FF-859-FH1, TP-858-2, TP-855-2, TP-854-2, TP-859-2, TP-854-3, TP-855-3, TP-855-1, TP-854-1)	Initials: <i>mmj</i> Independent Verification: <i>PT</i>

Valve	Required Position	Initials	Independent Verification
HV-855-J	Closed and Locked	<i>mmj</i>	<i>AD</i>
HV-855-G	Closed	<i>mmj</i>	<i>AD</i>
HV-855-H	Closed	<i>mmj</i>	<i>AD</i>
HV-855-D	Closed	<i>mmj</i>	<i>AD</i>
HV-855-C	Closed	<i>mmj</i>	<i>AD</i>
HV-855-B	Closed	<i>mmj</i>	<i>AD</i>
HV-855-A	Closed	<i>mmj</i>	<i>AD</i>
HV-854-AA	Closed	<i>mmj</i>	<i>AD</i>

Comments:

Surveillance Personnel

*Grant L. Oak*  
Signature

7-19-06  
Date

On-duty Supervisor

*[Signature]*  
Signature

7/20/06  
Date

**FOR INFORMATION ONLY**

**Los Alamos National Laboratory  
Operating Permit P100M1  
Semi-Annual Monitoring Report  
July 1 – December 31, 2006**

**Attachment C  
Boilers and Heaters Natural Gas Usage**

### 2006 Small Boilers Data Entry / Gas Use

Data Entry	Metered Boilers			Total Gas Use		Non-Metered Gas Use	12-Month Rolling Total for all Small Boilers (MMSCF)
	TA-55 Boiler Gas Use (MSCF)		TA-50-2 (MSCF)				
	Month	BHW-1B (B-602)	BHW-2B (B-603)	BS-1	(MSCF)	(MMSCF)	(MMSCF)
January	2751	135		69,973	69.97	66.84	513.43
February	591	0		59,582	59.58	58.74	504.46
March	1630	0		58,189	58.19	56.31	496.97
April	1301	57		35,789	35.79	34.18	484.29
May	578	1010		21,932	21.93	20.10	475.96
June	242	910	1492	16,395	16.40	14.99	476.66
July	504	511		12,634	12.63	11.37	474.00
August	2196	6		13,180	13.18	10.73	473.05
September	297	89		23,222	23.22	22.59	480.04
October	1762	749		41,690	41.69	38.93	481.16
November	3	2004		58,111	58.11	55.85	484.30
December	1	2223	1503	79,916	79.92	77.44	490.61
<b>TOTAL</b>	<b>11856</b>	<b>7694</b>	<b>2995</b>	<b>490,613</b>	<b>490.61</b>	<b>468.07</b>	Permit Limit = 870

2006 Non Metered Boiler Pool Capacity: **308.7** MMBTU/hr

Estimated Gas-Use per MMBtu rating Jan-June: 0.81 MMscf/MMBtu/hr  
 Estimated Gas-Use per MMBtu rating July-Dec: 0.70 MMscf/MMBtu/hr  
 Estimated Gas-Use per MMBtu - Annual: 1.52 MMscf/MMBtu/hr

Definitions: MMSCF= Million Standard Cubic Feet  
 MSCF = Thousand Standard Cubic Feet  
 Metered/Non-metered: Metered boilers are those units that have unit specific volumetric flow meters for the boiler(s) only.

AIRS Stack #	Gas Use Non-Metered (MMSCF)								Insignificant Units
	015	016	017	018	019	020	021	024	
<b>Location:</b>	TA-48-1	TA-48-1	TA-48-1	TA-53-365	TA-53-365	TA-59-1	TA-59-1	TA-16-1484	Lab Wide
<b>ID:</b>	BS-1	BS-2	BS-6	BHW-1	BHW-2	BHW-1	BHW-2	Plant 5	Various
<b>Design Rate (MMBTU/hr)</b>	<b>5.336</b>	<b>5.335</b>	<b>7.140</b>	<b>7.115</b>	<b>7.115</b>	<b>5.335</b>	<b>5.335</b>	<b>12.700</b>	<b>253</b>
Calculated Gas Use-Jan-June	4.342	4.341	5.809	5.788	5.788	4.341	4.341	10.333	206.079
Calculated Gas Use-July-Dec	3.749	3.749	5.017	4.999	4.999	3.749	3.749	8.924	177.971
Calculated Gas Use-Annual	8.091	8.090	10.826	10.787	10.787	8.090	8.090	19.256	384.050

**Los Alamos National Laboratory  
Operating Permit P100M1  
Semi-Annual Monitoring Report  
July 1 – December 31, 2006**

**Attachment D  
Carpenter Shop Hours of Operation**



## 2006 TA-3 & TA-15 Carpenter Shops

TA-3	
Month	Data Entry
	Hours of Operation <sup>1</sup>
	TA-3
January	15.5
February	19
March	22.5
April	26.5
May	14.25
June	11
<b>6 mo. Total</b>	<b>108.75</b>

TA-3	
Month	Data Entry
	Hours of Operation <sup>1</sup>
	TA-3
July	12.25
August	13.5
September	22.75
October	14.1
November	8
December	7
<b>6 mo. Total:</b>	<b>77.60</b>

TA-15	
Month	Data Entry
	Hours of Operation <sup>1</sup>
	TA-15
January	10.2
February	19.8
March	29.2
April	13.3
May	13.3
June	16.0
<b>6 mo. Total</b>	<b>101.8</b>

TA-15	
Month	Data Entry
	Hours of Operation <sup>1</sup>
	TA-15
July	29.8
August	21.2
September	7.1
October	15.0
November	14.0
December	10.5
<b>6 mo. Total:</b>	<b>97.6</b>

Reference
1. Based on information provided monthly by the shop foreman from each shop.

Saws, drills, shaping and sanding equipment shall each not operate in excess of 4368 hours per year.

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**Attachment E  
Degreaser Solvent Usage**

# Historical Solvent Usage Data

The usage information for UT Bath degreaser from Jul-01-2006 through Dec-31-2006 is displayed below.

## General Degreaser Information

Degreaser	Type	TA	Solvent
UT Bath	Cold Batch	55	Trichloroethylene

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Date Measured	Initial Solvent Level (inches)	Volume Added (liters)	Level Added (inches)	Volume Removed (liters)	Level Removed (inches)
Jul-21-2006	7.5	0.00	0.00	0.0	0.0
Aug-22-2006	6.5	2.94	1.50	0.0	0.0
Sep-18-2006	8.0	0.00	0.00	0.0	0.0
Oct-25-2006	7.5	0.00	0.00	0.0	0.0
Nov-02-2006	7.5	14.35	7.30	14.74	7.5
Nov-06-2006	7.3	0.98	0.50	0.0	0.0
Dec-22-2006	7.0	1.96	1.00	0.0	0.0

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**Attachment F  
Internal Combustion Generator Hours of Operation**

2006 GENERATOR HOURS

TA	Bldg	Manufacturer	MODEL	KW	Fuel Type	Reading		First 6 Month Readings 2006			Second 6 Month Readings 2006		
						Reading Date 2nd half 05'	05'	6 Month Reading Date	Reading	Hours Run	12 Month Reading Date	Reading	Hours Run
3	40	Onan Sons	1500DVE15R31374B	150	Diesel	Nov-05	246.0	Apr-06	246.0	0.0	Dec-06	246	0
3	223	Onan Sons		45	Nat. Gas	Nov-05	469.1	Apr-06	473.2	4.1	Dec-06	478	4.8
3	440	Cummins	500FDR5051	150	Diesel	Dec-05	98.0	Apr-06	114.5	16.5	Dec-06	121.8	7.3
3	440	Cummins	DFGA-5005210	500	Diesel	Dec-05	42.9	Apr-06	60.7	17.8	Dec-06	69.5	8.8
3	1076	Cummins	DGBB-5601289	35	Diesel	Dec-05	44.5	May-06	80.6	36.1	Dec-06	101.2	20.6
3	1404	Cummins	DFLC-5554001	1250	Diesel	Dec-05	79.0	May-06	112.9	33.9	Dec-06	287.9	175
3	1498	Caterpillar		600	Diesel	Nov-05	281.0	Apr-06	286.0	5.0	Dec-06	303	17
3	2322	Onan Sons		80	Diesel	Nov-05	202.8	Apr-06	284.4	81.6	Dec-06	329.1	44.7
16	980	Cummins	KTA50-G2	1100	Diesel	Dec-05	10.4	May-06	63.6	53.2	Dec-06	226.3	162.7
16	1374	Onan Sons	60ENA	60	Nat. Gas	Nov-05	978.0	Apr-06	1018.6	40.6	Dec-06	1039.4	20.8
18	31	Onan Sons	275DFML29807N	275	Diesel	Dec-05	160.0	May-06	172.2	12.2	Dec-06	173.4	1.2
21	155	Onan Sons	750.ODFV-4XR	750	Diesel	Nov-05	837.8	Apr-06	849.1	11.3	Dec-06	851.6	2.5
21	357	Caterpillar		125	Diesel	Nov-05	456.5	Apr-06	467.9	11.4	Dec-06	497.5	29.6
60	Yard	Onan Sons	H1750DSG15	175	Diesel	Nov-05	2934.0	Apr-06	2962.7	28.7	Dec-06	3054.4	91.7
60	Yard	Onan Sons		350	Diesel	Nov-05	1878.1	Apr-06	2506.4	628.3	Dec-06	2619.4	113
60	Yard	Cummins	150DGFA	150	Diesel	Nov-05	1083.5	Apr-06	1145.0	61.5	Dec-06	1147	2
33	20	Kohler	30ROZ	30	Diesel	Nov-05	915.2	May-06	916.7	1.5	Dec-06	919	2.3
33	151	Caterpillar	XQ225	225	Diesel	Nov-05	2944.0	May-06	2944.0	0.0	Dec-06	2944	0
33	208	Kohler	1600ROZD	1600	Diesel	Nov-05	4.9	May-06	4.9	0.0	Dec-06	9.3	4.4
33	Point	Onan Sons	80DG10A	80	Diesel	Nov-05	7643.1	May-06	7643.1	0.0	Dec-06	7643.1	0
35	2	Onan Sons	100DGDB	100	Diesel	Dec-05	115.3	May-06	115.3	0.0	Dec-06	115.3	0
43	1	Cummins	4BT3.9-GC	50	Diesel	Nov-05	356.7	Apr-06	362.1	5.4	Dec-06	369.4	7.3
43	1	Onan Sons		150	Diesel	Nov-05	506.6	Apr-06	530.2	23.6	Dec-06	562.6	32.4
46	335	Onan Sons	300DEFCEB	300	Diesel	Nov-05	784.6	May-06	824.6	40.0	Dec-06	873.8	49.2
48	45	Onan Sons	DFCB-5740130	300	Diesel	Nov-05	343.7	May-06	2.9	2.9	Dec-06	16	13.1
50	37	Cummins	680FDR5059FF	500	Diesel	Nov-05	475.4	Apr-06	480.4	5.0	Dec-06	485.1	4.7
50	184	Onan Sons	75ENAD	60	Nat. Gas	Nov-05	92.1	Apr-06	112.1	20.0	Dec-06	153.6	41.5
50	188	Onan Sons	L940563879	1250	Diesel	Nov-05	142.7	Apr-06	148.1	5.4	Dec-06	149	0.9
53	1	Onan Sons		60	Nat. Gas	Nov-05	1067.1	Apr-06	1110.9	43.8	Dec-06	1165.4	54.5
53	2	Kato Eng.	Kaman	50	Diesel	Nov-05	194.3	May-06	194.3	0.0	Dec-06	194.3	0
53	M	Cummins		60	Diesel	Nov-05	4440.0	May-06	4440.1	0.1	Dec-06	4440.1	0
53	M	Onan Sons		12.5	Nat. Gas	Nov-05	581.5	May-06	581.6	0.1	Dec-06	581.6	0
54	412	Olympian	95M-07874-F	500	Diesel	Nov-05	269.2	Apr-06	282.5	13.3	Dec-06	292	9.5
55	5			100	Nat. Gas	Dec-05	62.4	Apr-06	65.7	3.3	Dec-06	71.3	5.6
55	8	Detroit		600	Diesel	Dec-05	782.9	May-06	792.2	9.3	Dec-06	805.3	13.1
55	364	Onan Sons	1250DFLC-4987	1250	Diesel	Dec-05	11.9	May-06	23.2	11.3	Dec-06	52.6	29.4
55	28	Onan Sons		40	Diesel	Dec-05	45.1	Apr-06	47.2	2.1	Dec-06	47.3	0.1
55	47	Onan Sons	1465	200	Diesel	Nov-05	492.3	Apr-06	500.1	7.8	Dec-06	515.6	15.5
55	142	Cummins	DFEB-4963414	400	Diesel	Dec-05	75.0	Apr-06	79.4	4.4	Dec-06	88.8	9.4
59	1	Allis Chalmers	2884-0703	90	Diesel	Nov-05	736.8	Apr-06	742.0	5.2	Dec-06	749.3	7.3
63	Yard	Murphy		20	Diesel	Nov-05	569.9	May-06	715.9	146.0	Dec-06	715.9	0
64	1	Onan Sons		250	Diesel	Nov-05	134.5	May-06	140.4	5.9	Dec-06	148	7.6
64	39	Onan Sons		20	Diesel	Dec-05	189.9	May-06	189.9	0.0	Dec-06	189.9	0
69	33	Cummins	DFLC-5568730	1250	Diesel	Nov-05	35.0	Apr-06	40.6	5.6	Dec-06	53.2	12.6
<b>44 Generators in use</b>								<b>TOTAL</b>	<b>1404.2</b>	<b>TOTAL</b>	<b>1022.1</b>		

N/R = Not Read

First half average hours per unit	31.9	Second half average hours per unit	23.2
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Annual Average of hours per unit	27.6
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**Attachment G  
Data Disintegrator Box Throughput**

## 2006 TA-52 Data Disintegrator

Data Entry			Data Entry		
Month	Boxes Shredded	12-Month Rolling Total	Month	Boxes Shredded	12-Month Rolling Total
January	1436	7897	July	890	9360
February	1040	8169	August	1468	10243
March	766	7870	September	599	10842
April	705	7731	October	328	11170
May	1023	7986	November	15	10865
June	1379	9228	December	560	10209
6 mo. Total	6,349		6 mo. Total:	3,860	

Annual Boxes (2006):	10,209
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**Attachment H  
Power Plant Natural Gas and Fuel Oil Usage**



**TA-3 Power Plant Fuel Use Totals 2000 (Data Entry)**

DATA ENTRY								
Month	TA-3-22 Steam Plant Boiler # 1 (Edgemoor Iron Works, 210 MMBTU/hr)		TA-3-22 Steam Plant Boiler # 2 (Edgemoor Iron Works, 210 MMBTU/hr)		TA-3-22 Steam Plant Boiler # 3 (Union Iron Works, 210 MMBTU/hr)		Monthly Totals	
	Natural Gas (MCF)	Fuel Oil (gallons)	Natural Gas (MCF)	Fuel Oil (gallons)	Natural Gas (MCF)	Fuel Oil (gallons)	Natural Gas (MMCF)	Fuel Oil (gallons)
January	5,171	0	7,866	0	55,572	0	68.609	0
February	4,840	713	5,675	0	47,920	0	58.435	713
March	1,934	603	10,104	319	45,818	0	57.856	922
April	0	0	8,249	378	41,663	0	49.912	378
May	0	0	24,512	651	9,412	0	33.924	651
June	0	0	28,120	658	1,346	0	29.466	658
July	0	0	26,542	1,163	342	0	26.884	1163
August	17,919	0	6,403	0	2,705	0	27.027	0
September	24,522	0	4,077	0	4,891	0	33.490	0
October	32,044	438	2,139	0	47,848	0	82.031	438
November	25,681	0	29,612	13,368	9,492	2,634	64.785	16002
December	35,930	0	12,293	0	28,005	219	76.228	219
Annual Totals:	148,041	1,754	165,592	16,537	295,014	2,853	608.647	21144
Jan. - June	11,945	1,316	84,526	2,006	201,731	0	298.202	3322
July - Dec.	136,096	438	81,066	14,531	93,283	2,853	310.445	17822

Month	12-Mo. Rolling Total Natural Gas (MMscf)	12-Mo. Rolling Total Fuel Oil (gallons)
January	561.9	4403
February	563.4	4994
March	561.7	5881
April	563.9	5215
May	556.1	4970
June	554.9	4972
July	552.1	6135
August	551.3	5558
September	556.9	5558
October	596.7	5010
November	608.0	21012
December	608.6	21144

	Totals by Fuel Type	
	Natural Gas (MMscf)	Fuel Oil (Gallons)
Annual Totals:	608.65	21144.00
Jan. - June	298.20	3322.00
July - Dec.	310.45	17822.00

Permit Limits:	2000 MMscf	500,000 gallons
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**Attachment I  
Power Plant Opacity Reports**

**Summary Table, Reports Attached**

Source	Date	Time	*Average Opacity
TA-3-22 Power Plant	07-07-06	10:56 am	0%
	07-11-06	9:25 am	3.125%
	07-18-06	8:00 am	0%
	07-25-06	8:50 am	0%
	10-10-06	9:45 am	3.38%
	11-07-06	9:08 am	0%
	11-07-06	9:48 am	0.5%
	11-14-06	9:08 am	0.5%
	11-14-06	12:20 am	14.875%
	11-14-06	1:37 pm	0%
	11-21-06	9:25am	0%
	12-14-06	8:43 am	2.375%

\* Average opacity for the Power Plant is the sum of the highest consecutive 40 readings divided by 40 (10 minutes of readings). The method is in accordance with 20.2.61 NMAC.

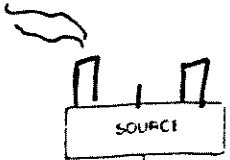
RECORD OF VISUAL DETERMINATION OF OPACITY

LOCATION <b>Fuel oil Boiler #2</b>				OBSERVATION DATE <b>7-7-06</b>				START TIME <b>10:56</b>				STOP TIME <b>11:19</b>			
LOCATION <b>TAS SM22 Power Plant</b>				Type of Control Equipment <b>N/A</b>				Type of Fuel <b>Fuel oil</b>				Type of Control Equipment <b>N/A</b>			
Describe Emission Point (top of stack, etc.) <b>Top of NW stack</b>				Height Above Ground Level <b>150' Feet</b>				Height Relative to Observer <b>200' Feet</b>				Distance from Observer <b>150' feet</b>			
Direction from Observer <b>NW</b>				Description of Plume (stack exit only) <input checked="" type="checkbox"/> Locking <input type="checkbox"/> Fanning <input type="checkbox"/> Coning <input type="checkbox"/> Fumigation				Plume Color <b>Black</b>				Plume Type <input type="checkbox"/> Continuous <input type="checkbox"/> Fugitive <input checked="" type="checkbox"/> Intermittent			
Water Droplets Present? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES				At what point in the plume was opacity determined? <b>1 Foot Above stack</b>				Describe Background (i.e. blue sky, trees, etc.) <b>Grey, white Cloudy skies</b>				Background Color <b>Grey, white Blue</b>			
Sky Conditions <b>Cloudy</b>				Wind Direction (i.e. from North to South) <b>from South to North</b>				Wind Speed <b>3 mph</b>				Wet Temperature °F			
Relative Humidity %				Average Opacity <b>0.0%</b>				Range of Opacity Reading: Min.: <b>0.0%</b> Max.: <b>0.0%</b>							

COMMENTS:  
Boiler in Auto at 11:19am  
stopped taking readings  
Just observing  
stopped observing at 12:50pm

OBSERVER (please print) Name: <b>Brian Ortiz</b> Title: <b>operator</b>	
Signature: <i>Brian Ortiz</i>	Date: <b>7-7-06</b>
Organization: <b>WPPS</b>	Certification Date: <b>3/1/06</b>

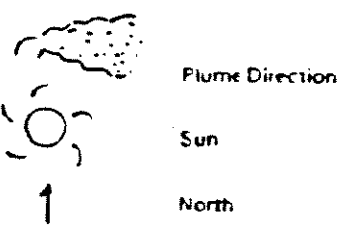
Draw Arrow in North Direction



Observer's Position



IMPORTANT: Please indicate the following by sketch:



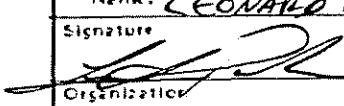
I acknowledge receipt of a copy of these visible emissions observations.

Signature: *Bonny R. Morgan*

Title: **WPPS Sup**

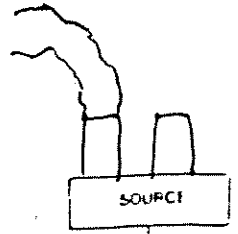
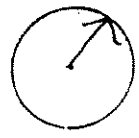
Date: **7/7/06**

RECORD OF VISUAL DETERMINATION OF OPACITY

SUBJECT		OBSERVATION DATE				START TIME				STOP TIME			
UNIT #2 FUEL OIL		7-11-06				0925				1008			
DESCRIPTION		Sec	0	15	30	45	Sec	0	15	30	45		
TA 3 SM 22 POWER PLANT		Min.	0	15	30	45	Min.	0	15	30	45		
Type of Source	Type of Control Equipment	1	0	0	0	0	13	0	0	0	0		
DIESEL FUEL	NA	2	0	0	0	0	14	0	0	0	0		
Describe Emission Point (top of stack, etc.)		3	0	0	5	10	15	0	0	0	0		
TOP OF STACK - WEST		4	10	25	25	25	16	0	0	0	0		
Height Above Ground Level	Height Relative to Observer	5	25	5	0	0	17	0	0	0	0		
150 Feet	170 Feet	6	0	0	0	0	18	0	0	0	0		
Distance from Observer	Direction from Observer	7	0	0	0	0	19	0	0	0	0		
50 Yards	SE	8	0	0	0	0	20	0	0	0	0		
Description of Plume (stack exit only)		9	0	0	0	0	21	0	0	0	0		
<input type="checkbox"/> Looping <input type="checkbox"/> Fanning <input type="checkbox"/> Coning <input type="checkbox"/> Fumigation <input type="checkbox"/> Lifting <input type="checkbox"/> Trapping		10	0	0	0	0	22	0	0	0	0		
Plume Color	Plume Type	11	0	0	0	0	23	0	0	0	0		
BLACK	<input type="checkbox"/> Continuous <input type="checkbox"/> Fugitive <input checked="" type="checkbox"/> Intermittent	12	0	0	0	0	24	0	0	0	0		
Other Droplets Present?		Average Opacity		Range of Opacity Readings:		Observer (please print)		Signature		Date			
<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES If YES, droplet plume is <input type="checkbox"/> Attached <input type="checkbox"/> Detached		3.125		Min.: 5 Max.: 25		Name: LEONARDO PACHECO Title: OPERATOR				7-11-06			
At what point in the plume was opacity determined?		Organization		Certification Date		KSL - UPPS		3-1-06					
TOP OF STACK													
Describe Background (i.e. blue sky, trees, etc.)													
BLUE SKIES													
Background Color	Sky Conditions												
BLUE	CLEAR												
Wind Speed	Wind Direction (i.e. from North to South)												
0-5-8 mph	E TO W												
Temperature	Wet Temperature												
COMMENTS:													

IMPORTANT: Please indicate the following by sketch:

Draw Arrow in North Direction



Observer's Position



Plume Direction



Sun



North

I acknowledge receipt of a copy of these visible emissions observations.

Signature: Tommy R. Marquez

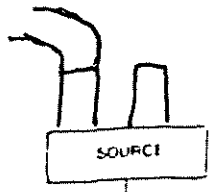
Title: UPPS Sup

Date: 7/11/06

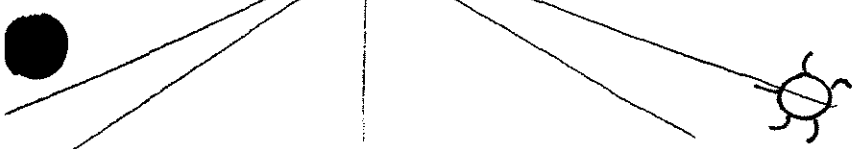
RECORD OF VISUAL DETERMINATION OF OPACITY

SOURCE <b>BURNER #2</b>		OBSERVATION DATE <b>7-11-06</b>				START TIME <b>0925</b>		STOP TIME <b>1008</b>	
DESCRIPTION <b>TA 3 SM 22 POWER PLANT</b>		Type of Control Equipment: <b>NA</b>				Sec. 0 15 30 45		Min. 0 15 30 45	
Type of Source <b>FUEL OIL</b>		Height Above Ground Level: <b>150</b> Feet				Height Relative to Observer: <b>170</b> Feet		1 0 0 0 0	
Describe Emission Point (top of stack, etc.) <b>TOP OF STACK - WEST</b>		Distance from Observer: <b>50</b> Yards				Direction from Observer: <b>S.E.</b>		2 0 0 0 0	
Description of Plume (stack exit only) <input type="checkbox"/> Lifting <input type="checkbox"/> Trapping <input type="checkbox"/> Locking <input type="checkbox"/> Fanning <input type="checkbox"/> Coning <input type="checkbox"/> Funneling		Plume Type <input type="checkbox"/> Continuous <input type="checkbox"/> Fugitive <input checked="" type="checkbox"/> Intermittent				3 0 0 0 0		13 0 0 0 0	
Plume Color <b>BLACK</b>		Water Droplets Present? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES If YES, droplet plume is <input type="checkbox"/> Attached <input type="checkbox"/> Detached				4 0 0 0 0		14 0 0 0 0	
What point in the plume was opacity determined? <b>TOP OF STACK</b>		Describe Background (i.e. blue sky, trees, etc.) <b>BLUE SKY</b>				5 0 0 0 0		15 0 0 0 0	
Background Color <b>BLUE</b>		Sky Conditions <b>CLEAR</b>				6 0 0 0 0		16 0 0 0 0	
Wind Speed <b>5-8</b> mph		Wind Direction (i.e. from North to South) <b>E TO WEST</b>				7 0 0 0 0		17 0 0 0 0	
Air Temperature °F		Wet Temperature °F		Relative Humidity %		8 0 0 0 5		18 0 0 0 0	
9 0 0 0 0		10 0 0 0 0		11 0 0 0 0		12 0 0 0 0		19 0 0 0 0	
Average Opacity <b>3.125</b>		Range of Opacity Readings Min.: <b>5</b> Max.: <b>25</b>				20 0 0 0 0		21	
OBSERVER (please print) Name: <b>LEONARDO PALMERA</b> Title: <b>OPERATOR</b>		Signature: <i>[Signature]</i> Date: <b>7-11-06</b>				22		23	
Organization: <b>KSL-Upps</b>		Certification Date: <b>3-1-06</b>				24		24	

Draw Arrow in North Direction



Observer's Position



IMPORTANT: Please indicate the following by sketch:



Plume Direction  
Sun  
North

I acknowledge receipt of a copy of these visible emissions observations.

Signature: Benny R. Mangue

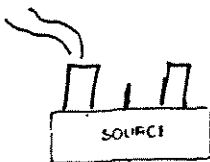
Title: Upps Sup

Date: 7/11/06

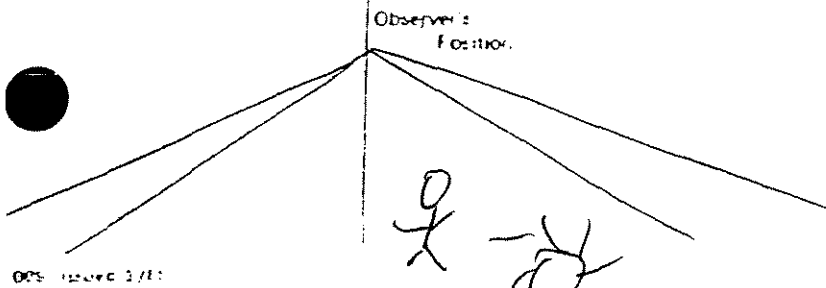
RECORD OF VISUAL DETERMINATION OF OPACITY

LOCATION		OBSERVATION DATE	START TIME	STOP TIME
#2 Boiler		7/18/06	8:00	8:22
TA3 SM 22		Sec. 0	15	30
Type of Source: Fuel oil		Type of Control Equipment: N/A	45	Min. 0
Describe Emission Point (top of stack, etc.): TOP OF STACK		13	0	15
Height Above Ground Level: 150 Feet		14	0	30
Height Relative to Observer: 175 Feet		15	0	45
Distance from Observer: 200 FE		16	0	0
Direction from Observer: NW		17	0	0
Description of Plume (stack exit only): <input checked="" type="checkbox"/> Lifting <input type="checkbox"/> Trapping		18	0	0
<input type="checkbox"/> Looping <input type="checkbox"/> Fanning <input type="checkbox"/> Coning <input type="checkbox"/> Fluctuating		19	0	0
Emission Color: Black		20	0	0
Plume Type: <input type="checkbox"/> Continuous <input type="checkbox"/> Fugitive <input type="checkbox"/> Intermittent		21	0	0
Water Droplets Present? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES		22	0	0
If YES, droplet plume is <input type="checkbox"/> Attached <input type="checkbox"/> Detached		23	0	0
At what point in the plume was opacity determined?: ONE FOOT ABOVE NW STACK		24	0	0
Describe Background (i.e. blue sky, trees, etc.): Blue & GRAY				
Background Color: Blue & GRAY				
Sky Conditions: Partly Cloudy				
Wind Speed: 5 mph				
Wind Direction (i.e. from North to South): SE to NW				
Air Temperature: °F				
Wet Temperature: °F				
Relative Humidity: %				
COMMENTS: Stopped Reading At 8:22 Boiler in Auto Just observing. Came off Fuel oil @ 10:00am NO SMOKE ON SHUT DOWN		Average Opacity: 0.0%		Range of Opacity Readings: Min.: 0.0% Max.: 0.0%
		OBSERVER (please print): Name: BRIAN OPTIZ Title: OPERATOR		
		Signature: <i>Brian Optiz</i> Date: 7/18/06		
		Organization: UPPS Certification Date: 3/1/06		

Draw Arrow in North Direction



Observer's Position.



IMPORTANT: Please indicate the following by sketch:



Plume Direction



Sun



North

I acknowledge receipt of a copy of these visible emissions observations.

Signature: *Brian R. Margus*

Title: UPPS Sup

Date: 7/18/06

RECORD OF VISUAL DETERMINATION OF OPACITY

OBSERVATION DATE		START TIME				STOP TIME						
7-25-06		08:50				09:25						
LOCATION	TYPE OF SOURCE	Type of Control Equipment	Sec				Sec					
			0	15	30	45	0	15	30	45		
FUEL OIL BOILER # 2	FUEL OIL	NA	1	0	0	0	0	13	0	0	0	0
TA3 SM 22 BOILER # 2			2	0	0	0	0	14	0	0	0	0
Describe Emission Point (top of stack, etc.)		Height Above Ground Level	Feet				Feet					
TOP OF STACK		150	170									
Distance from Observer		Yards		Direction from Observer								
50		S.E.										
Description of Plume (stack exit only)			<input type="checkbox"/> Lifting <input type="checkbox"/> Trapping									
<input type="checkbox"/> Locking <input type="checkbox"/> Fanning <input type="checkbox"/> Coning <input type="checkbox"/> Fluctuating			None									
Plume Color		Plume Type		<input type="checkbox"/> Continuous <input type="checkbox"/> Fugitive <input checked="" type="checkbox"/> Intermittent								
BLACK		NA										
Water Droplets Present?			<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES				If YES, droplet plume is <input type="checkbox"/> Attached <input type="checkbox"/> Detached					
At what point in the plume was opacity determined?			TOP OF STACK									
Describe Background (i.e. blue sky, trees, etc.)			BLUE SKY WHITE CLOUDS									
Background Color		Sky Conditions										
BLUE + WHITE		SCATTERED										
Wind Speed		Wind Direction (i.e. from North to South)										
0 mph		N TO WEST										
Air Temperature		Wet Temperature		Relative Humidity								

COMMENTS:

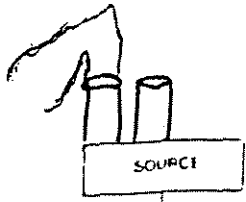
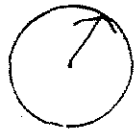
Average Opacity: 0

Range of Opacity Readings: Min.: 0 Max.: 0

OBSERVER (please print)  
 Name: LEONARD PALHEG Title: OPERATOR  
 Signature: [Signature] Date: 7-25-06  
 Organization: KSL UPPS Certification Date: 3-1-06

IMPORTANT: Please indicate the following by sketch:

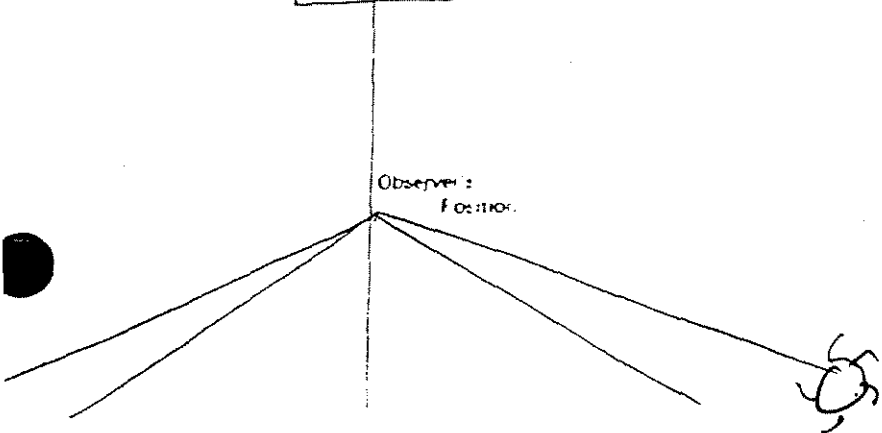
Draw Arrow in North Direction



Plume Direction

Sun

North



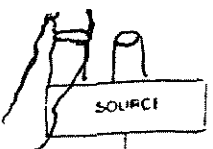
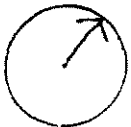
I acknowledge receipt of a copy of these visible emissions observations.

Signature: [Signature]  
 Title: UPPS Sup  
 Date: 7/25/06

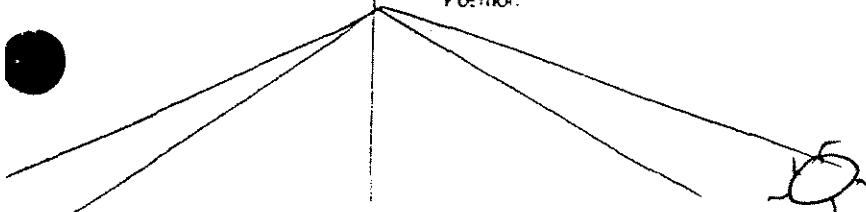
RECORD OF VISUAL DETERMINATION OF OPACITY

OBSERVATION DATE		START TIME				STOP TIME					
7-25-06		09:50				09:25					
LOCATION		Sec	0	15	30	45	Sec	0	15	30	45
TAS SM 22 Boiler #2		Min.					Min.				
Type of Source	Type of Control Equipment	1	0	0	0	0	13				
FUG OIL	NA	2	0	0	0	0	14				
Describe Emission Point (top of stack, etc.)		3	0	0	0	0	15				
TOP OF STACK		4	0	0	0	0	16				
Height Above Ground Level	Height Relative to Observer	5	0	0	0	0	17				
150 Feet	170 Feet	6	0	0	0	0	18				
Distance from Observer	Direction from Observer	7	0	0	0	0	19				
50 Yards	S-E	8	0	0	0	0	20				
Description of Plume (stack exit only)		9	0	0	0	0	21				
None <input type="checkbox"/> Lifting <input type="checkbox"/> Trapping		10	0	0	0	0	22				
<input type="checkbox"/> Lapping <input type="checkbox"/> Fanning <input type="checkbox"/> Coning <input type="checkbox"/> Funneling		11	0	0	0	0	23				
Plume Color	Plume Type	12	0	0	0	0	24				
BLACK	NA	Average Opacity		Range of Opacity Reading:		Min.: 0 Max.: 0		OBSERVER (please print)			
<input type="checkbox"/> Continuous <input type="checkbox"/> Fugitive <input type="checkbox"/> Intermittent		0		Min.: 0 Max.: 0		Name: LEONARDO PALMERO Title: OPERATOR		Signature: [Signature] Date: 7-25-06			
Water Droplets Present?		Organization: VSL UPPS		Certification Date: 3-1-06		Date: 7-25-06		Comments:			
<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES If YES, droplet plume is <input type="checkbox"/> Attached <input type="checkbox"/> Detached		BURNER ON + STABLE STOPPED READINGS AT 0925 OBSERVED TILL 11:15 WHEN NO LONGER ON FUEL OIL									
At what point in the plume was opacity determined?											
TOP OF STACK											
Describe Background (i.e. blue sky, trees, etc.)											
BLUE SKY WHITE CLOUDS											
Background Color		Wind Direction (i.e. from North to South):									
BLUE + WHITE		N-S									
Sky Conditions:		Wet Temperature of		Relative Humidity %							
SCATTERED											
Wind Speed											
0-2 mph											

Draw Arrow in North Direction



Observer's Position



IMPORTANT: Please indicate the following by sketch:



Plume Direction  
Sun  
North

I acknowledge receipt of a copy of these visible emissions observations.

Signature: Benny R. Marjuy

Title: UPPS Sup

Date: 7/25/06

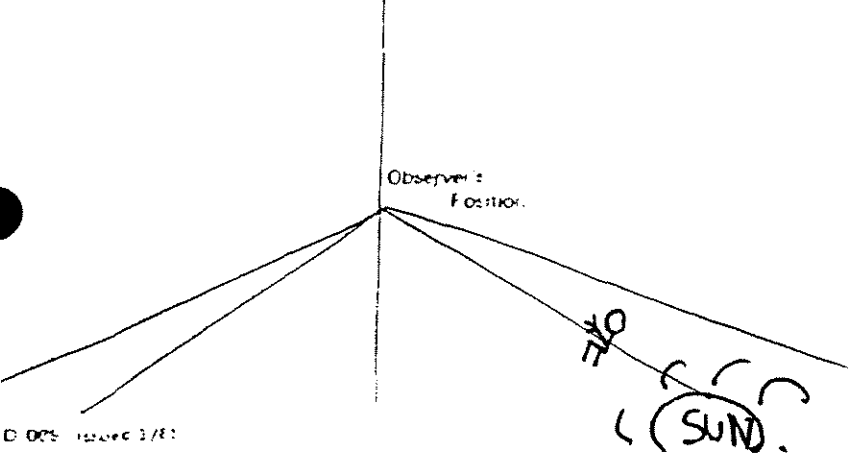
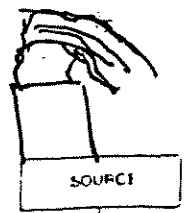


RECORD OF VISUAL DETERMINATION OF OPACITY

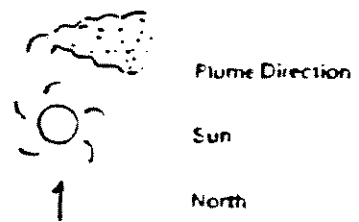
pg#1

SOURCE <i>Fuel oil #1 boiler</i>		OBSERVATION DATE <i>10-10-06</i>				START TIME <i>9:45 am</i>		STOP TIME <i>10:50 am</i>					
LOCATION <i>TA3 Sm 22 Power Plant</i>		Sec	0	15	30	45	Sec	0	15	30	45		
Type of Source <i>Fuel Oil</i>		Type of Control Equipment <i>N/A</i>		1	0	0	0	0	13	5	0	0	
Describe Emission Point (top of stack, etc.) <i>Top of Stack</i>		2	5	0	0	0	14	0	5	0	0		
Height Above Ground Level <i>150</i> Feet		Height Relative to Observer <i>170</i> Feet		3	0	0	5	0	15	0	0	0	
Distance from Observer <i>250'</i> Yards		Direction from Observer <i>SE</i>		4	0	0	5	0	16	0	0	0	
Description of Plume (stack exit only) <input type="checkbox"/> Locking <input type="checkbox"/> Fanning <input type="checkbox"/> Coning <input type="checkbox"/> Fumigation		<input checked="" type="checkbox"/> Lifting <input type="checkbox"/> Trapping		5	0	0	0	0	17	10	0	0	
Emission Color <i>Black</i>		Plume Type <input type="checkbox"/> Continuous <input type="checkbox"/> Fugitive <input checked="" type="checkbox"/> Intermittent		6	0	0	0	0	18	0	0	0	
Water Droplets Present? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES If YES, droplet plume is <input type="checkbox"/> Attached <input type="checkbox"/> Detached		7	5	0	0	0	19	0	0	0	0		
At what point in the plume was opacity determined? <i>Top of Stack</i>		8	0	0	0	0	20	0	0	0	0		
Describe Background (i.e. blue sky, trees, etc.) <i>Blue Sky</i>		9	0	0	0	0	21	0	0	5	0		
Background Color <i>Blue</i>		Sky Conditions <i>Clear</i>		10	0	0	0	0	22	0	0	0	
Wind Speed <i>8</i> mph		Wind Direction (i.e. from North to South) <i>S SE</i>		11	5	0	0	5	23	0	0	0	
Ambient Temperature °F		Wet Temperature °F		Relative Humidity %		12	0	0	0	0	0	80	25
COMMENTS:		Average Opacity <i>3.38</i>				Range of Opacity Reading: Min.: <i>0</i> Max.: <i>80</i>							
		OBSERVER (please print) Name: <i>Patrick GRIEBO</i> Title: <i>Operator 1</i>											
		Signature <i>Patrick Grieco</i>				Date <i>10-10-06</i>							
		Organization <i>TRSL</i>				Certification Date <i>8-29-06</i>							

Draw Arrow in North Direction



IMPORTANT: Please indicate the following by sketch:



I acknowledge receipt of a copy of these visible emissions observations.

Signature: *Clarence Standley*

Title: *Acting Supt. Co-Gen*

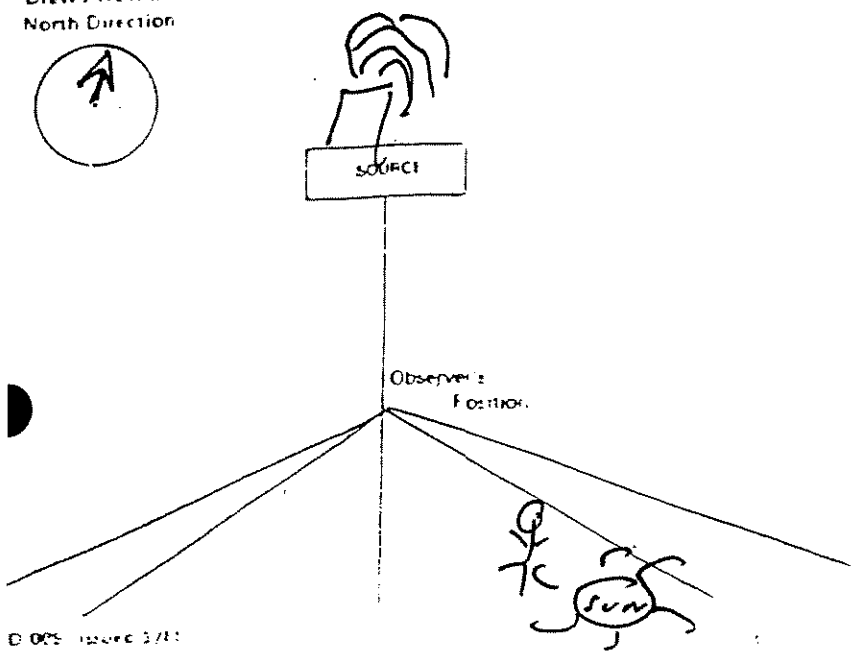
Date: *10-10-06*

RECORD OF VISUAL DETERMINATION OF OPACITY

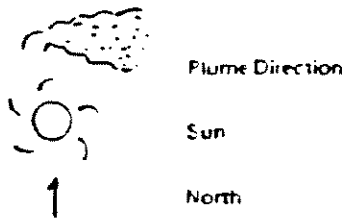
P#2

FACILITY <b>Fueloil #3 Boiler</b>		OBSERVATION DATE <b>10-10-06</b>				START TIME <b>945 am</b>		STOP TIME <b>1050 am</b>			
LOCATION <b>TA 3 Srr 22 Power Plant</b>		Sec	0	15	30	45	Sec	0	15	30	45
Name of Source <b>Fue/oil</b>		Type of Control Equipment <b>N/A</b>		1		15		5		0	
Emission Point (top of stack, etc.) <b>Top of Stack</b>		2		0		0		0		0	
Height Above Ground Level <b>150</b> Feet		Height Relative to Observer <b>170</b> Feet		3		0		0		0	
Distance from Observer <b>250</b> Yards		Direction from Observer <b>SE</b>		4		0		0		0	
Description of Plume (stack exit only) <input checked="" type="checkbox"/> Lapping <input type="checkbox"/> Trapping <input type="checkbox"/> Lapping <input type="checkbox"/> Fanning <input type="checkbox"/> Coning <input type="checkbox"/> Funneling		5		0		0		0		0	
Emission Color <b>Black</b>		Plume Type <input type="checkbox"/> Continuous <input type="checkbox"/> Fugitive <input checked="" type="checkbox"/> Intermittent		6		0		0		0	
Water Droplets Present? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES. If YES, droplet plume is <input type="checkbox"/> Attached <input type="checkbox"/> Detached		7		0		0		0		0	
At what point in the plume was opacity determined? <b>Top of stack</b>		8		0		0		0		0	
Describe Background (i.e. blue sky, trees, etc.) <b>Blue sky</b>		9		0		0		0		0	
Background Color <b>Blue</b>		Sky Conditions <b>Clear</b>		10		0		0		0	
Wind Speed <b>8</b> mph		Wind Direction (i.e. from North to South) <b>SSE</b>		11		0		0		0	
Ambient Temperature °F		Wet Temperature °F		12		0		0		0	
Relative Humidity %		12		0		0		0		0	
COMMENTS:		Average Opacity <b>3.38</b>				Range of Opacity Readings Min.: <b>0</b> Max.: <b>80</b>					
OBSERVER (please print) Name: <b>Patrick Bridges</b> Title: <b>Operator</b>		Signature <b>Patrick Bridges</b>		Date <b>10-10-06</b>		Organization <b>RSI</b>		Certification Date <b>8-27-06</b>			

Draw Arrow in North Direction



IMPORTANT: Please indicate the following by sketch:



I acknowledge receipt of a copy of these visible emissions observations.

Signature: **Clarence Stundley**

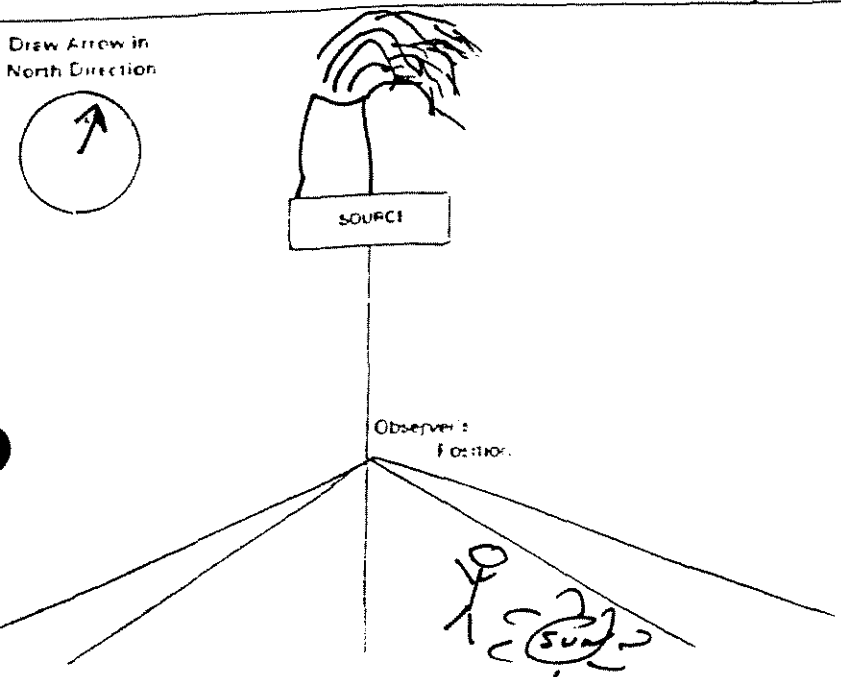
Title: **Asst. Supt. Co-Gen**

Date: **10-10-06**

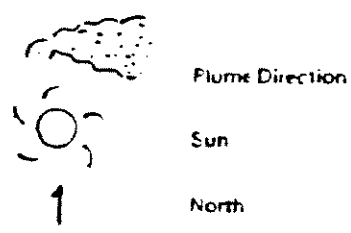
RECORD OF VISUAL DETERMINATION OF OPACITY

Pg #3

SOURCE <b>Fuel Oil #3 Boiler</b>		OBSERVATION DATE <b>10-10-06</b>				START TIME <b>9:45 am</b>		STOP TIME <b>10:50 am</b>	
LOCATION <b>TA 3 Small Power Plant</b>		Sec 0 15 30 45				Sec 0 15 30 45			
Type of Source <b>Fuel Oil</b>		Type of Control Equipment <b>NA</b>				1 0 0 0 0			
Describe Emission Point (top of stack, etc.) <b>Top of Stack</b>		2 0 0 0 0				13 0 0 0 0			
Height Above Ground Level <b>150 Feet</b>		Height Relative to Observer <b>170 Feet</b>				3 0 0 0 0			
Distance from Observer <b>250 Yards</b>		Direction from Observer <b>SE</b>				4 0 0 0 0			
Description of Plume (stack exit only) <input type="checkbox"/> Lapping <input type="checkbox"/> Fanning <input type="checkbox"/> Coning <input type="checkbox"/> Funneling		5 0 0 0 0				17 0 0 0 0			
Plume Color <b>Black</b>		6 0 0 0 0				18			
Plume Type <input type="checkbox"/> Continuous <input type="checkbox"/> Fugitive <input checked="" type="checkbox"/> Intermittent		7 0 0 0 0				19			
Water Droplets Present? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES If YES, droplet plume is <input type="checkbox"/> Attached <input type="checkbox"/> Detached		8 0 0 0 0				20			
What point in the plume was opacity determined? <b>Top of Stack</b>		9 0 0 0 0				21			
Describe Background (i.e. blue sky, trees, etc.) <b>Gray Cloudy Sky</b>		10 0 0 0 0				22			
Background Color <b>Gray</b>		11 0 0 0 0				23			
Sky Conditions <b>Cloudy</b>		12 0 0 0 0				24			
Wind Speed <b>8 mph</b>		Wind Direction (i.e. from North to South) <b>SSE</b>				Average Opacity <b>3.38</b>			
Ambient Temperature °F		Wet Temperature °F				Relative Humidity %			
COMMENTS:		Range of Opacity Readings Min.: <b>0</b> Max.: <b>80</b>				OBSERVER (please print) Name: <b>Patrick Grieg</b> Title: <b>Operator #1</b>			
		Signature: <b>Patrick Grieg</b> Date: <b>10-10-06</b>				Organization: <b>KSL</b> Certification Date: <b>8-29-06</b>			



IMPORTANT: Please indicate the following by sketch:



I acknowledge receipt of a copy of these visible emissions observations.

Signature: **Armond Standley**

Title: **Net Supt. Co-Lead**

Date: **10-10-06**

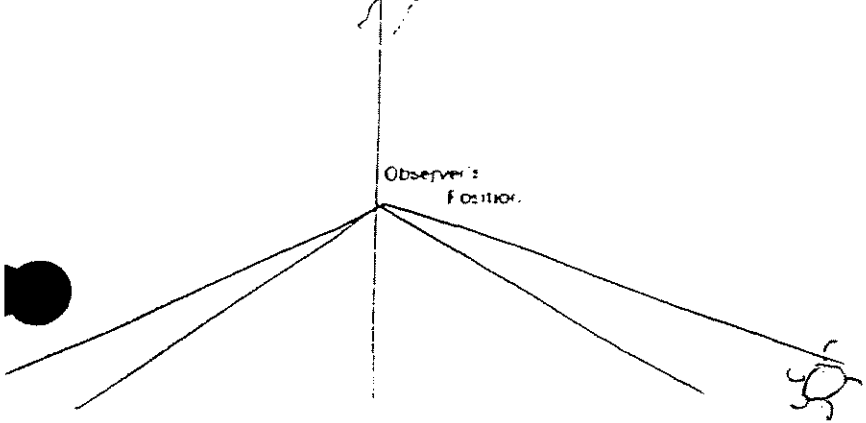
RECORD OF VISUAL DETERMINATION OF OPACITY pg 1 of 2

SOURCE		OBSERVATION DATE				START TIME		STOP TIME			
		Sec	0	15	30	45	Sec	0	15	30	45
OIL #3 BOILER		11-7-06				0908		0932			
CATION TA 3 SM-22											
Type of Source FUEL OIL		Type of Control Equipment N/A				13		0 0 0 0			
Describe Emission Point (top of stack, etc.) TOP OF STACK (EAST)		Height Relative to Observer 170 Feet				14		0 0 0 0			
Height Above Ground Level 150 Feet		Direction from Observer S.E.				15		0 0 0 0			
Distance from Observer 80 Yards						16		0 0 0 0			
Description of Plume (stack exit only) <input type="checkbox"/> Lapping <input type="checkbox"/> Fanning <input type="checkbox"/> Coning <input type="checkbox"/> Funneling		<input checked="" type="checkbox"/> Lapping <input type="checkbox"/> Trapping				17		0 0 0 0			
Emission Color BLACK		Plume Type <input type="checkbox"/> Continuous <input type="checkbox"/> Fugitive <input checked="" type="checkbox"/> Intermittent				18		0 0 0 0			
Water Droplets Present? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, droplet plume is <input type="checkbox"/> Attached <input type="checkbox"/> Detached						19		0 0 0 0			
At what point in the plume was opacity determined? TOP OF STACK						20		0 0 0 0			
Describe Background (i.e. blue sky, trees, etc.) WHITE + BLUE SKY						21		0 0 0 0			
Background Color WHITE BLUE		Sky Conditions BROKEN				22		0 0 0 0			
Wind Speed 0-7 mph		Wind Direction (i.e. from North to South) N TO SW				23		0 0 0 0			
Temperature of		Wet Temperature of		Relative Humidity %		24		0 0 0 0			
COMMENTS:		Average Opacity 0				Range of Opacity Readings: Min.: 0 Max.: 0					
		OBSERVER (please print) Name: LEONARD PACHECO Title: OPERATOR									
		Signature <i>[Signature]</i>				Date 11-7-06					
		Organization KSL				Certification Date 8-29-06					

Draw Arrow in North Direction



Observer's Position



IMPORTANT: Please indicate the following by sketch:



Plume Direction



Sun



North

I acknowledge receipt of a copy of these visible emissions observations.

Signature: *[Signature]*

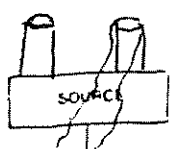
Title: *Acting Control Supt.*

Date: *11-7-06*

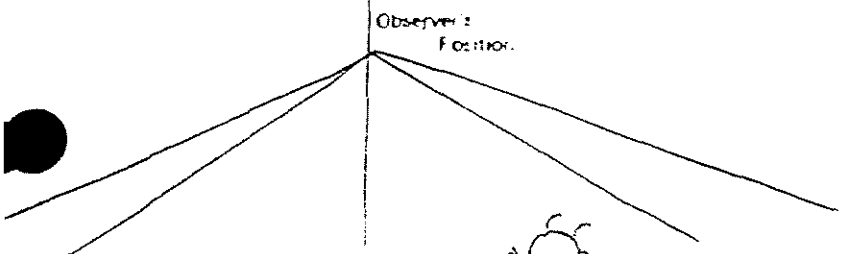
RECORD OF VISUAL DETERMINATION OF OPACITY ~~252~~ <sup>212</sup> ~~2~~

SOURCE <b>FUEL OIL #3 BOILER</b>		OBSERVATION DATE <b>11-7-06</b>				START TIME <b>0948</b>		STOP TIME <b>1005</b>					
LOCATION <b>TA 3-SM-22</b>		Sec 0	15	30	45	Sec 0	15	30	45				
Type of Source <b>FUEL OIL</b>		Type of Control Equipment <b>NA</b>		1	0	0	0	20	13	0	0	0	0
Describe Emission Point (top of stack, etc.) <b>TOP OF STACK EAST STACK</b>		2	0	0	0	0	14	0	0	0	0	0	
Height Above Ground Level: <b>150</b> Feet	Height Relative to Observer: <b>170</b> Feet	3	0	0	0	0	15	0	0	0	0	0	
Distance from Observer: <b>80</b> Yards	Direction from Observer: <b>SE</b>	4	0	0	0	0	16	0	0	0	0	0	
Description of Plume (stack exit only) <input type="checkbox"/> Looping <input type="checkbox"/> Fanning <input type="checkbox"/> Coning <input type="checkbox"/> Funnelling		<input checked="" type="checkbox"/> Lofting <input type="checkbox"/> Trapping		5	0	0	0	0	17				
Plume Color <b>BLACK</b>	Plume Type <input type="checkbox"/> Continuous <input type="checkbox"/> Fugitive <input checked="" type="checkbox"/> Intermittent	6	0	0	0	0	18						
Water Droplets Present? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, droplet plume is <input type="checkbox"/> Attached <input type="checkbox"/> Detached		7	0	0	0	0	19						
At what point in the plume was opacity determined? <b>TOP OF STACK</b>		8	0	0	0	0	20						
Describe Background (i.e. blue sky, trees, etc.) <b>WHITE + BLUE SKY</b>		9	0	0	0	0	21						
Background Color <b>WHITE + BLUE</b>	Sky Conditions: <b>BROKEN</b>	10	0	0	0	0	22						
Wind Speed <b>0-7</b> mph	Wind Direction (i.e. from North to South): <b>N TO SW</b>	11	0	0	0	0	23						
Temperature °F	Wet Temperature °F	Relative Humidity %	12	0	0	0	0	24					
COMMENTS: <b>BOILER #3 TRIPPED, OPERATORS HAD TO RELIGHT BURNERS, SO BEGAN READING AGAIN AT 0948</b>		Average Opacity <b>2.5</b>				Range of Opacity Readings: Min.: <b>0</b> Max.: <b>20</b>							
		OBSERVER (please print) Name: <b>LEONARD PALCHOW</b> Title: <b>OPERATOR</b>											
		Signature <i>[Signature]</i>				Date <b>11-7-06</b>							
		Organization: <b>KSL</b>				Certification Date <b>8-29-06</b>							

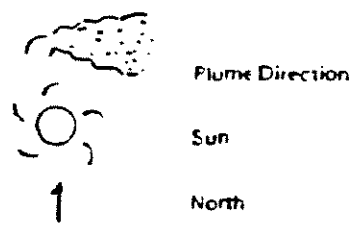
Draw Arrow in North Direction



Observer's Position



IMPORTANT: Please indicate the following by sketch:



I acknowledge receipt of a copy of these visible emissions observations.

Signature: *[Signature]*

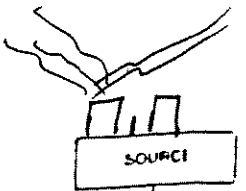
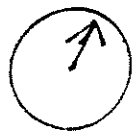
Title: ACTING Supt. CO. GEN

Date: 11-7-06

RECORD OF VISUAL DETERMINATION OF OPACITY

LOCATION		DESCRIPTION	ELEVATION DATE	START TIME	STOP TIME
Fuel Oil #2 Boiler			11/14/06	9:08	
TA3 SM 22 Power Plant					
Type of Source	Type of Control Equipment		Sec	0	15
Fuel Oil	N/A		Min.	30	45
Describe Emission Point (top of stack, etc.)			Sec	0	15
Top of West Stack			Min.	30	45
Height Above Ground Level	Height Relative to Observer				
150 Feet	170 Feet				
Distance from Observer	Direction from Observer				
250'	South				
Description of Plume (stack exit only)					
<input type="checkbox"/> Looping <input type="checkbox"/> Fanning <input type="checkbox"/> Coning <input type="checkbox"/> Fumigation <input checked="" type="checkbox"/> Lifting <input type="checkbox"/> Trapping					
Plume Color	Plume Type				
Black	<input type="checkbox"/> Continuous <input type="checkbox"/> Ejective <input checked="" type="checkbox"/> Intermittent				
Water Droplets Present					
<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES If YES, droplet plume is <input type="checkbox"/> Attached <input type="checkbox"/> Detached					
At what point in the plume was opacity determined?					
One foot above West Stack					
Describe Background (i.e. blue sky, trees, etc.)					
Cloudy Skies					
Background Color	Sky Conditions				
Grey	Cloudy				
Wind Direction (i.e. from North to South)					
From West to East					
Wind Speed (mph)	Relative Humidity				
+ Gusting	60%				
Wet Temperature					
COMMENTS:		Average Opacity	Range of Opacity Readings		
Wind is Gusting From 20 to 30 mph		5	Min: 0.0 Max: 20.0		
As per Weather Bug. Com.		OBSERVER (please print)			
Snow Flurries.		Name: BRIAN DETZ Title: Lead Maint Mar			
		Signature: Brian D		Date: 11/14/06	
		Organization: WPPS		Certification Date: 8-30-06	

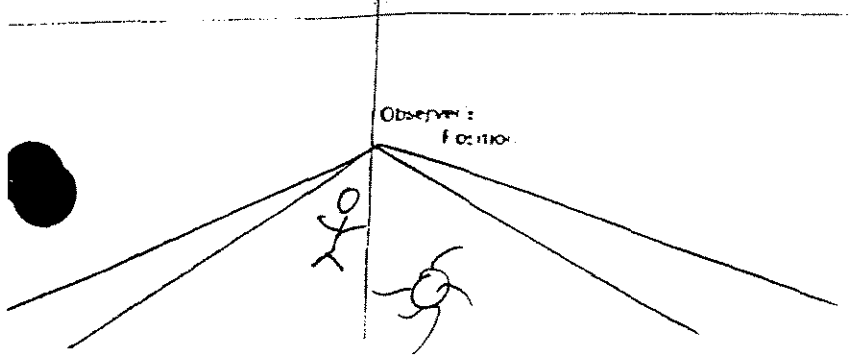
Draw Arrow in North Direction



IMPORTANT: Please indicate the following by sketch:



Plume Direction  
Sun  
North



I acknowledge receipt of a copy of these visible emissions observations.

Signature: Chamond Stindley

Title: Acting Co. Gen. Supt.

Date: 11-17-06

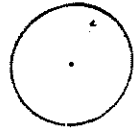
243

RECORD OF VISUAL DETERMINATION OF OPACITY

LOCATION		OBSERVATION DATE				START TIME		STOP TIME			
		Sec Min.	0	15	30	45	Sec Min.	0	15	30	45
Type of Source	Type of Control Equipment	1	0	0	0	0	13	0	0	0	0
Describe Emission Point (top of stack, etc.)		2	0	0	0	0	14	0	0	0	0
Height Above Ground Level Feet	Height Relative to Observer Feet	3	0	0	0	0	15	0	0	0	0
Distance from Observer Yards	Direction from Observer	4	0	0	0	0	16	0	0	0	0
Description of Plume (stack exit only) <input type="checkbox"/> Looping <input type="checkbox"/> Fanning <input type="checkbox"/> Coning <input type="checkbox"/> Fumigation <input type="checkbox"/> Lifting <input type="checkbox"/> Trapping		5	0	0	0	0	17	0	0	0	0
Plume Color	Plume Type <input type="checkbox"/> Continuous <input type="checkbox"/> Fugitive <input type="checkbox"/> Intermittent	6	0	0	0	0	18	0	0	0	0
Water Droplets Present? <input type="checkbox"/> NO <input type="checkbox"/> YES If YES, droplet plume is <input type="checkbox"/> Attached <input type="checkbox"/> Detached		7	0	0	0	0	19	0	0	0	0
At what point in the plume was opacity determined?		8	0	0	0	0	20	0	0	0	0
Describe Background (i.e. blue sky, trees, etc.)		9	0	0	0	0	21	0	0	0	0
Background Color	Sky Conditions	10	0	0	0	0	22	0	0	0	0
Wind Speed mph	Wind Direction (i.e. from North to South)	11	0	0	0	0	23	0	0	0	0
Air Temperature of	Wet Temperature of	12	0	0	0	0	24	0	0	0	0
Relative Humidity %		Average Opacity				Range of Opacity Readings: Min.: Max.:					
COMMENTS:		OBSERVER (please print)									
		Name:					Title:				
		Signature					Date				
		Organization:					Certification Date				

IMPORTANT: Please indicate the following by sketch:

Draw Arrow in North Direction



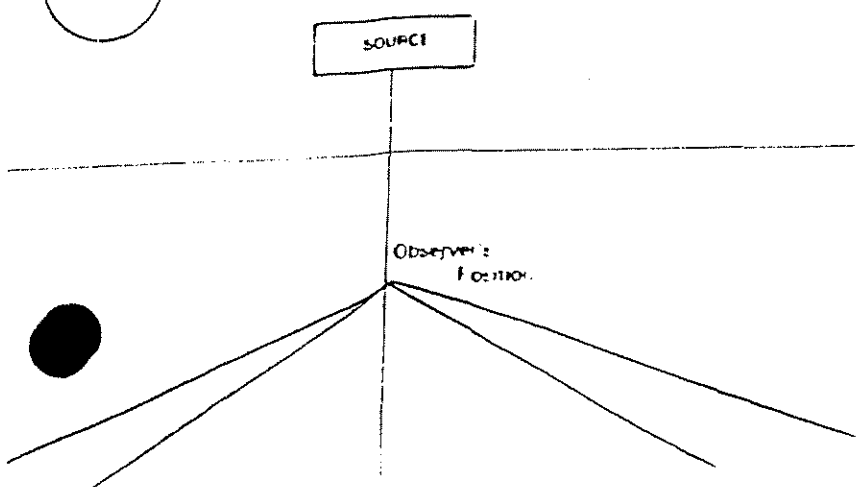
Plume Direction



Sun



North



I acknowledge receipt of a copy of these visible emissions observations.

Signature: Charles Stanley

Title: Active Control Engineer

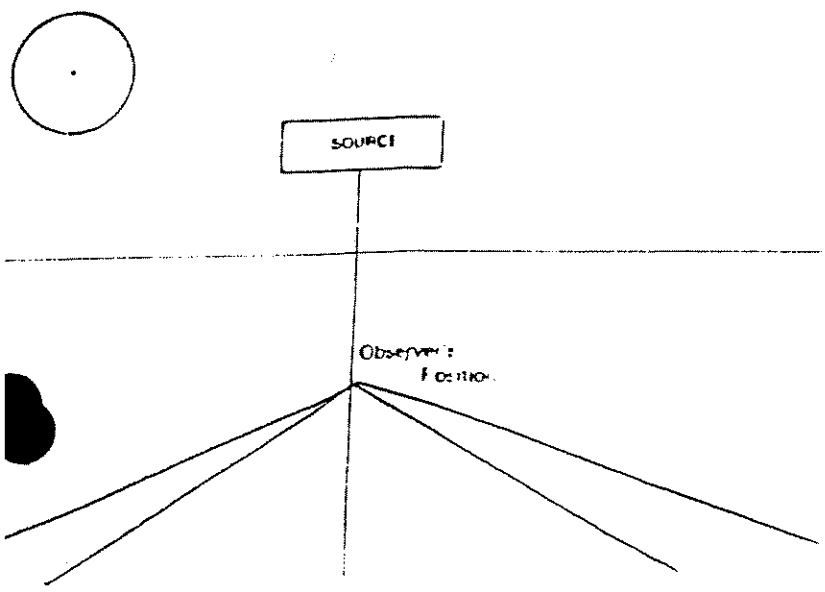
Date: 11-17-06

9/3

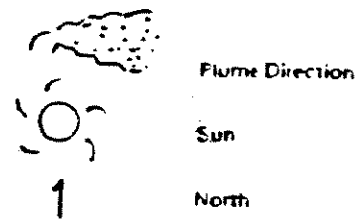
### RECORD OF VISUAL DETERMINATION OF OPACITY

LOCATION		OBSERVATION DATE				START TIME		STOP TIME					
		Sec	0	15	30	45	Min.	0	15	30	45		
Name of Source		Type of Control Equipment		1	0	0	0	0	13				
Describe Emission Point (top of stack, etc.)				2	0	0	0	0	14				
Height Above Ground Level Feet		Height Relative to Observer Feet		3	0	0	0	0	15				
Distance from Observer Yards		Direction from Observer		4	0	0	0	0	16				
Description of Plume (stack exit only)		<input type="checkbox"/> Lifting <input type="checkbox"/> Trapping		5	0	0			17				
<input type="checkbox"/> Lapping <input type="checkbox"/> Fanning <input type="checkbox"/> Coning <input type="checkbox"/> Funneling		Plume Type		6					18				
Emission Color		<input type="checkbox"/> Continuous <input type="checkbox"/> Fugitive <input type="checkbox"/> Intermittent		7					19				
Water Droplets Present?		<input type="checkbox"/> NO <input type="checkbox"/> YES IF YES, droplet plume is <input type="checkbox"/> Attached <input type="checkbox"/> Detached		8					20				
At what point in the plume was opacity determined?				9					21				
Describe Background (i.e. blue sky, trees, etc.)				10					22				
Background Color		Sky Conditions		11					23				
Wind Speed mph		Wind Direction (i.e. from North to South)		12					24				
Wet Temperature °F		Wet Temperature °F		Relative Humidity %									
REMARKS: 2 Boilers stabilized @ 10:01				Average Opacity				Range of Opacity Reading: Min.:                      Max.:					
				OBSERVER (please print)									
				Name:				Title:					
				Signature				Date					
				Organization:				Certification Date					

Draw Arrow in North Direction



IMPORTANT: Please indicate the following by sketch:



I acknowledge receipt of a copy of these visible emissions observations.

Signature: *Richard Stanley*

Title: *Acting Control Supt.*

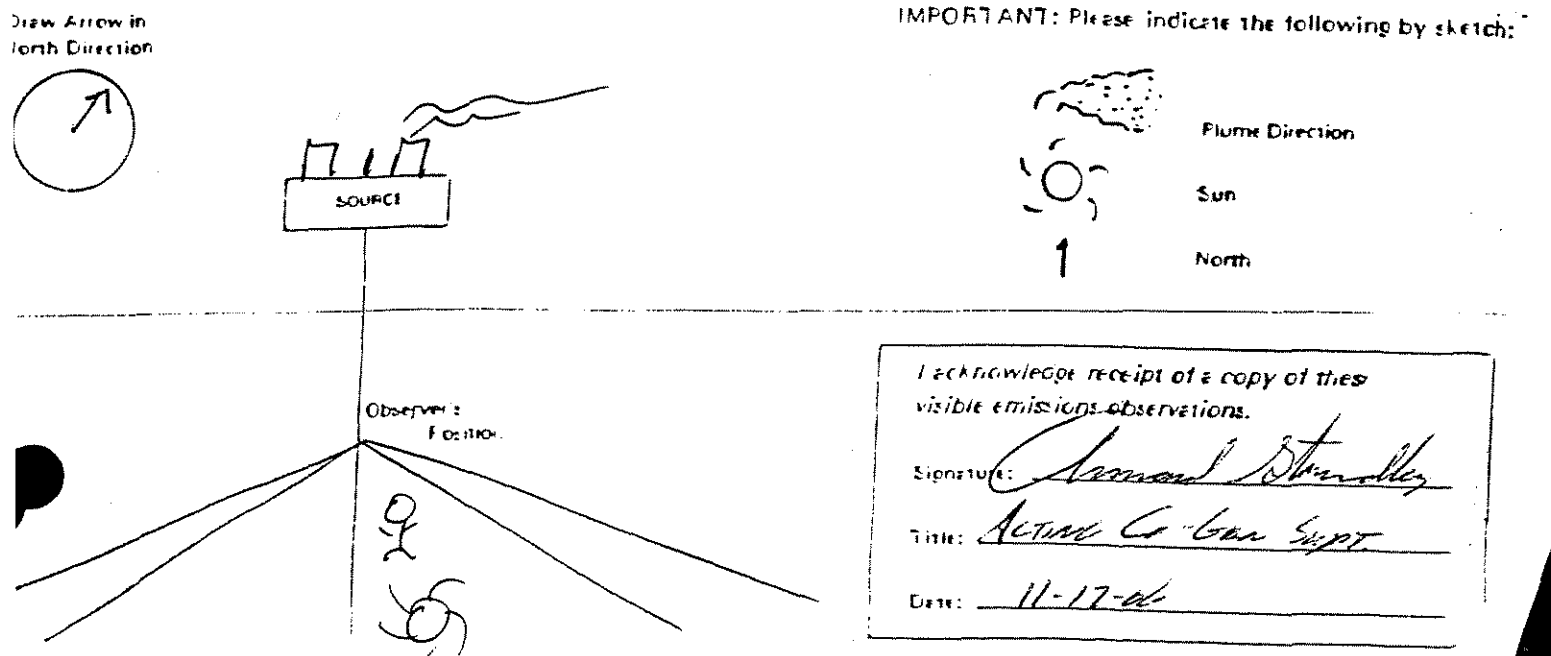
Date: *11-17-06*



10/3

RECORD OF VISUAL DETERMINATION OF OPACITY

# 3 Boiler Fuel Oil		OBSERVATION DATE 11/14/06				START TIME 12:20 PM				STOP TIME				
LOCATION TA3 SM22		Sec Min.				Sec Min.				0 15 30 45				
1	Fuel Oil	Type of Control Equipment N/A	0	0	0	0	13	0	0	0	0	0	0	
2	Top of East Stack	Height Relative to Observer 170 Feet	0	0	0	0	14	0	40	50	50	50	50	
3	150 Feet	Distance from Observer 250'	0	0	0	0	15	50	50	25	25	25	25	
4	Direction from Observer SE	Description of Plume (stack exit only)	0	0	0	0	16	25	50	25	25	25	25	
5	Looping <input type="checkbox"/> Fanning <input type="checkbox"/> Coning <input type="checkbox"/> Fumigation <input type="checkbox"/>	Plume Type <input checked="" type="checkbox"/> Lifting <input type="checkbox"/> Trapping <input type="checkbox"/>	0	0	0	0	17	20	25	25	25	25	25	
6	Plume Color Black	Plume Type <input type="checkbox"/> Continuous <input type="checkbox"/> Fugitive <input checked="" type="checkbox"/> Intermittent	0	0	0	0	18	25	10	0	0	0	0	
7	Water Droplets Present? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES If YES, droplet plume is <input type="checkbox"/> Attached <input type="checkbox"/> Detached	What point in the plume was opacity determined? One foot above East Stack	0	0	0	0	19	0	0	0	0	0	0	
8	Describe Background (i.e. Blue sky, trees, etc.) Grey Cloudy Skies	Background Color Grey	0	0	0	0	20	0	0	0	0	0	0	
9	Wind Direction (i.e. from North to South) 35 mph From East to West	Sky Conditions Cloudy	0	0	0	0	21	0	0	0	0	0	0	
10	Wet Temperature °F	Relative Humidity %	0	0	0	0	22	0	0	10	20	20	20	
11	Wet Temperature °F	Relative Humidity %	0	0	0	0	23	20	0	0	0	0	0	
12	Wet Temperature °F	Relative Humidity %	0	0	0	0	24	0	0	0	10	10	10	
REMARKS: Wind gusting from 20-35 mph & SNOW FLURRIES		Average Opacity 14.8% 15.1% 28.0% 10.1%	Range of Opacity Reading: Min.: 0.0 Max.: 50.0				Observer (please print) Name: Brian Ortiz Title: Maint. Leadman				Signature: Brian Ortiz Date: 11-14-06			
		Organization: WPPS				Certification Date: 8-30-06								

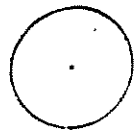


2092

### RECORD OF VISUAL DETERMINATION OF OPACITY

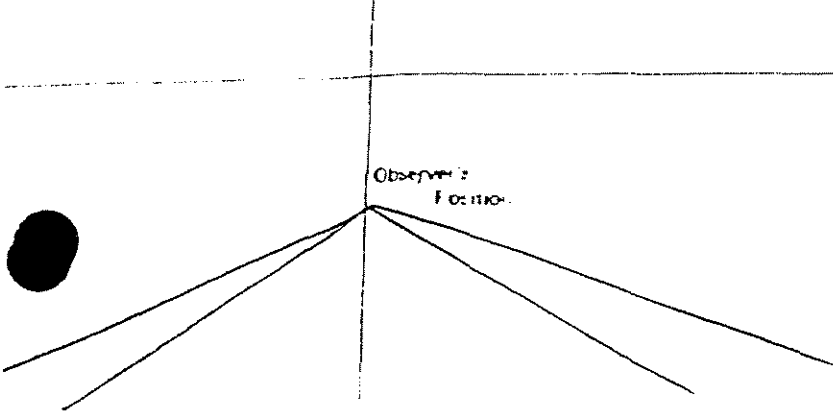
		OBSERVATION DATE				START TIME				STOP TIME			
LOCATION		Sec.		Min.		Sec.		Min.		Sec.		Min.	
		0	15	30	45	0	15	30	45	0	15	30	45
Type of Source:		Type of Control Equipment:		1	20	20	20	20	13	0	0	0	0
Describe Emission Point (top of stack, etc.)		2	10	10	10	5	14	0	25	25	10		
Height Above Ground Level: Feet		Height Relative to Observer: Feet		3	25	10	10	10	15	5	5	5	0
Distance from Observer: Yards		Direction from Observer		4	0	0	0	0	16	0	0	0	0
Description of Plume (stack exit only)		<input type="checkbox"/> Lifting <input type="checkbox"/> Trapping		5	0	0	0	0	17	0	0	0	0
<input type="checkbox"/> Looping <input type="checkbox"/> Fanning <input type="checkbox"/> Coning <input type="checkbox"/> Funneling		Plume Type		6	0	0	0	0	18	0	0	0	0
Emission Color		<input type="checkbox"/> Continuous <input type="checkbox"/> Fluctuating <input type="checkbox"/> Intermittent		7	0	0	0	0	19	0	0	10	5
Water Droplets Present:		<input type="checkbox"/> Attached <input type="checkbox"/> Detached		8	0	0	0	0	20	0	0	0	0
<input type="checkbox"/> NO <input type="checkbox"/> YES If YES, droplet plume is		What point in the plume was opacity determined?		9	0	0	0	0	21	0	0	0	0
Describe Background (i.e. blue sky, trees, etc.)		Sky Conditions		10	0	0	0	0	22	0	0	0	0
Background Color		Wind Direction (i.e. from North to South):		11	0	0	0	0	23	0	10	20	20
Wind Speed (mph)		Wet Temperature °F		12	0	0	0	0	24	20	20	20	20
Relative Humidity %		Relative Humidity %		Average Opacity:		Range of Opacity Readings:		Min.:		Max.:			
COMMENTS:		OBSERVER (please print)		Name:		Title:		Signature:		Date:			
		Organization:		Certification Date:									

Draw Arrow in North Direction

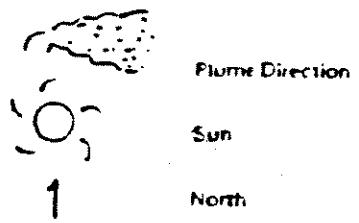


SOURCE

Observer's Position



IMPORTANT: Please indicate the following by sketch:



I acknowledge receipt of a copy of these visible emissions observations.

Signature: David Stanley

Title: Active Co-Gen Supt.

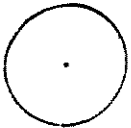
Date: 11-17-06

343

RECORD OF VISUAL DETERMINATION OF OPACITY

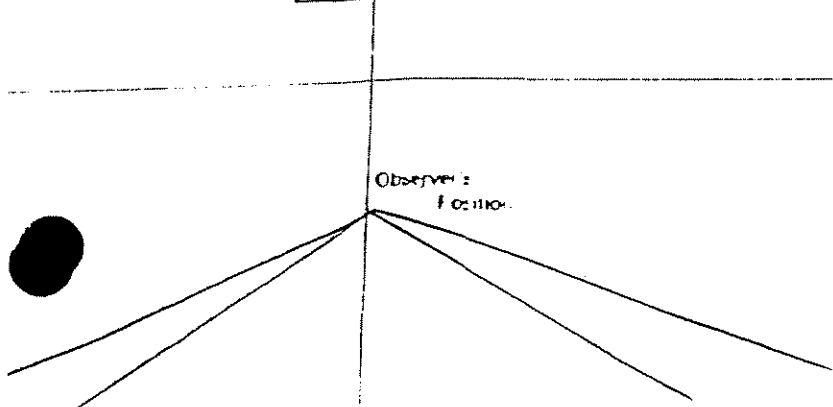
LOCATION		OBSERVATION DATE				START TIME		STOP TIME			
		Sec	0	15	30	45	Sec	0	15	30	45
		Min.					Min.				
Type of Control Equipment		1	20	10	10	10	13				
Describe Emission Point (top of stack, etc.)		2	10	10	5	5	14				
Height Above Ground Level Feet	Height Relative to Observer Feet	3	5	5	5	5	15				
Distance from Observer Yards	Direction from Observer	4	5	5	5	0	16				
Description of Plume (stack exit only) <input type="checkbox"/> Looping <input type="checkbox"/> Fanning <input type="checkbox"/> Coning <input type="checkbox"/> Fumigation <input type="checkbox"/> Lifting <input type="checkbox"/> Trapping		5	0	0	0	0	17				
Plume Color	Plume Type <input type="checkbox"/> Continuous <input type="checkbox"/> Fugitive <input type="checkbox"/> Intermittent	6	0	0	0	0	18				
Water Droplets Present? <input type="checkbox"/> NO <input type="checkbox"/> YES If YES, droplet plume is <input type="checkbox"/> Attached <input type="checkbox"/> Detached		7	0	0	0	0	19				
At what point in the plume was opacity determined?		8					20				
Describe Background (i.e. blue sky, trees, etc.)		9					21				
Background Color	Sky Conditions	10					22				
Wind Speed mph	Wind Direction (i.e. from North to South)	11					23				
Wet Temperature °F	Wet Temperature °F	12					24				
Relative Humidity %											
COMMENTS: Stopped to relocate and repairs need to fix a leak.		Average Opacity		Range of Opacity Readings Min.: Max.:							
		OBSERVER (please print)		Name:		Title:					
		Signature		Date							
		Organization		Certification Date							

Draw Arrow in North Direction

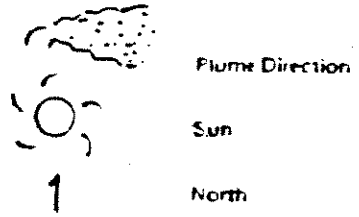


SOURCE

Observer's Location



IMPORTANT: Please indicate the following by sketch:



I acknowledge receipt of a copy of these visible emissions observations.

Signature: Chamond Standley

Title: Asst. Insp. Co. 1000 Supt.

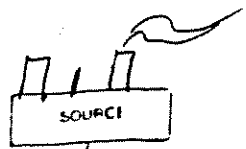
Date: 11-17-06

RECORD OF VISUAL DETERMINATION OF OPACITY

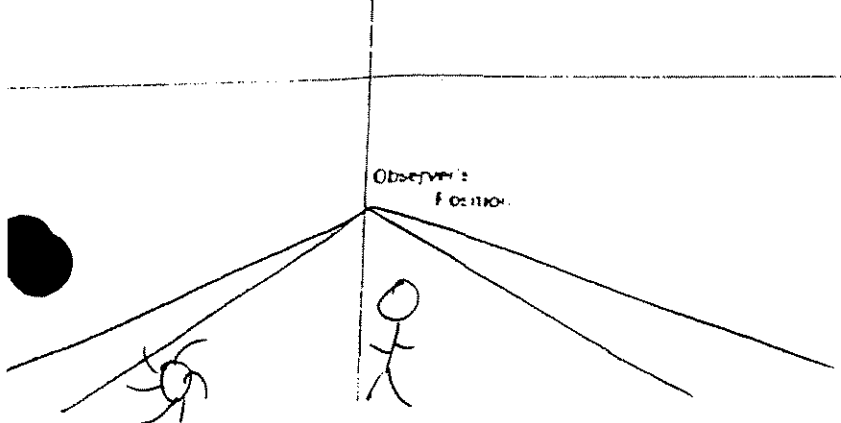
194

LOCATION		ELEVATION DATA				START TIME		STOP TIME			
#3 Boiler Fuel oil		11/14/06				1:37		2:42 PM			
TYPE OF SOURCE		Sec				Sec					
TA 3 SM 22		Mil.	0	15	30	45	Mil.	0	15	30	45
Type of Control Equipment		1				13					
Fuel oil N/A		0 0 0 0				0 0 0 0					
Describe Emission Point (top of stack, etc.)		2				14					
Top of EAST Stack		0 0 0 0				0 0 0 0					
Height Above Ground Level		3				15					
150 Feet		0 0 0 0				0 0 0 0					
Height Relative to Observer		4				16					
170 Feet		0 0 0 0				0 0 0 0					
Distance from Observer		5				17					
25'		0 0 0 0				0 0 0 0					
Direction from Observer		6				18					
NE		0 0 0 0				0 0 0 0					
Description of Plume (stack exit only)		7				19					
<input checked="" type="checkbox"/> Lifting <input type="checkbox"/> Trapping		0 0 0 0				0 0 0 0					
<input type="checkbox"/> Looping <input type="checkbox"/> Fanning <input type="checkbox"/> Coning <input type="checkbox"/> Fumigation		8				20					
Plume Color		9				21					
Black		0 0 0 0				0 0 0 0					
Plume Type		10				22					
<input type="checkbox"/> Continuous <input type="checkbox"/> Fugitive <input checked="" type="checkbox"/> Intermittent		0 0 0 0				0 0 0 0					
Water Droplets Present?		11				23					
<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, droplet plume is <input type="checkbox"/> Attached <input type="checkbox"/> Detached		0 0 0 0				0 0 0 0					
At what point in the plume was opacity determined?		12				24					
One foot Above EAST Stack		0 0 0 0				0 0 0 0					
Describe Background (i.e. blue sky, trees, etc.)		13				25					
Greyskies		0 0 0 0				0 0 0 0					
Background Color		14				26					
Grey		0 0 0 0				0 0 0 0					
Sky Conditions		15				27					
Cloudy		0 0 0 0				0 0 0 0					
Wind Direction (i.e. from North to South)		16				28					
30 mph		0 0 0 0				0 0 0 0					
West to East		17				29					
Wet Temperature		18				30					
Relative Humidity		0 0 0 0				0 0 0 0					
COMMENTS: Gusty winds, SLOW Plumes		Average Opacity				Range of Opacity Reading:					
		0.00%				Min.: 0.0 Max.: 0.0					
OBSERVER (please print)		Name:				Title:					
Bryan		Bryan				Maint. Leadman					
Signature:		Date:				Certification Date:					
Bryan		11/14/06				8-30-06					
Organization:		Upps									

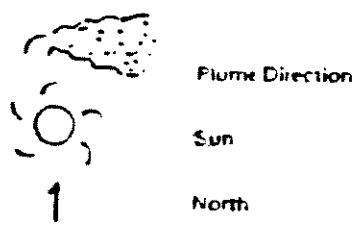
Draw Arrow in North Direction



Observer's Position



IMPORTANT: Please indicate the following by sketch:



I acknowledge receipt of a copy of these visible emissions observations.

Signature: Clayton Staudley

Title: Acting Co. Gen. Supr.

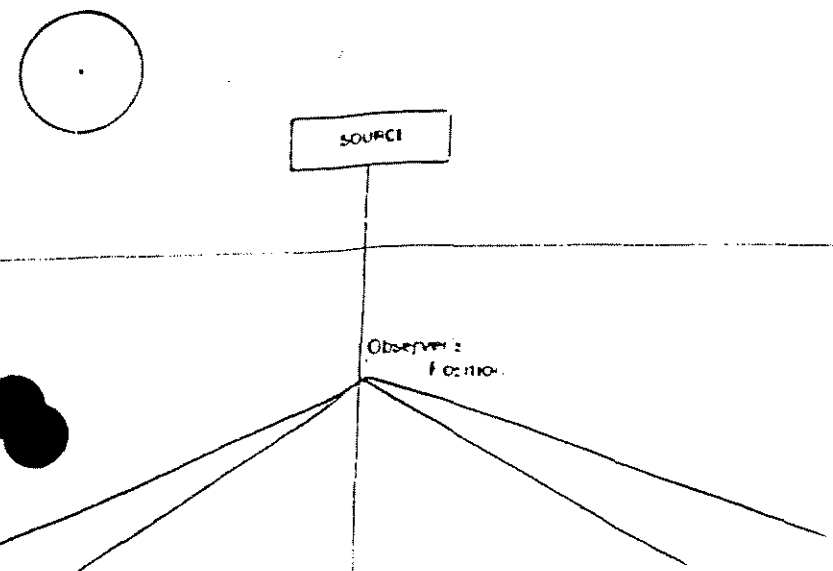
Date: 11-17-06

# RECORD OF VISUAL DETERMINATION OF OPACITY

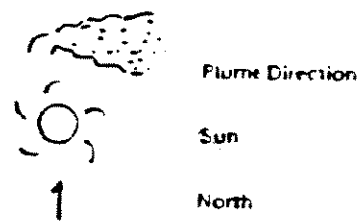
244

LOCATION		OBSERVATION DATE				START TIME				STOP TIME							
		Sec	0	15	30	45	Sec	0	15	30	45	Sec	0	15	30	45	
Description of Source		Type of Control Equipment		1	0	0	0	0	13	0	0	0	0				
Describe Emission Point (top of stack, etc.)				2	0	0	0	0	14	0	0	0	0				
Height Above Ground Level Feet		Height Relative to Observer Feet		3	0	0	0	0	15	0	0	0	0				
Distance from Observer Yards		Direction from Observer		4	0	0	0	0	16	0	0	0	0				
Description of Plume (stack exit only)		<input type="checkbox"/> Lifting <input type="checkbox"/> Trapping		5	0	0	0	0	17	0	0	0	0				
<input type="checkbox"/> Looping <input type="checkbox"/> Fanning <input type="checkbox"/> Coning <input type="checkbox"/> Fluctuating		Plume Type		6	0	0	0	0	18	0	0	0	0				
Emission Color		<input type="checkbox"/> Continuous <input type="checkbox"/> Fugitive <input type="checkbox"/> Intermittent		7	0	0	0	0	19	0	0	0	0				
Water Droplets Present		<input type="checkbox"/> Attached <input type="checkbox"/> Detached		8	0	0	0	0	20	0	0	0	0				
<input type="checkbox"/> NO <input type="checkbox"/> YES If YES, droplet plume is		What point in the plume was opacity determined?		9	0	0	0	0	21	0	0	0	0				
Describe Background (i.e. blue sky, trees, etc.)				10	0	0	0	0	22	0	0	0	0				
Background Color		Sky Conditions		11	0	0	0	0	23	0	0	0	0				
Wind Speed mph		Wind Direction (i.e. from North to South)		12	0	0	0	0	24	0	0	0	0				
Temperature of		Wet Temperature of		Relative Humidity %													
COMMENTS:				Average Opacity				Range of Opacity Readings									
								Min.:                      Max.:									
				OBSERVER (please print)													
				Name:				Title:									
Signature				Date													
Organization:				Certification Date													

Draw Arrow in North Direction



IMPORTANT: Please indicate the following by sketch:



I acknowledge receipt of a copy of these visible emissions observations.

Signature: Clarence Stanley

Title: Assistant Control Super.

Date: 11-17-66

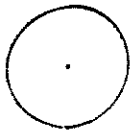
# RECORD OF VISUAL DETERMINATION OF OPACITY

314

OBSERVATION DATE		START TIME				STOP TIME						
		Sec. Min.	0	15	30	45	Sec. Min.	0	15	30	45	
Description of Source		1	0	0	0	0	13	0	0	0	0	
Type of Control Equipment		2	0	0	0	0	14	0	0	0	0	
Describe Emission Point (top of stack, etc.)		3	0	0	0	0	15	0	0	0	0	
Height Above Ground Level Feet		Height Relative to Observer Feet		4	0	0	0	0	16	0	0	0
Distance from Observer Yards		Direction from Observer		5	0	0	0	0	17	0	0	0
Description of Plume (stack exit only)		<input type="checkbox"/> Lapping <input type="checkbox"/> Trapping <input type="checkbox"/> Locking <input type="checkbox"/> Fanning <input type="checkbox"/> Coning <input type="checkbox"/> Funneling		6	0	0	0	0	18	0	0	0
Plume Color		Plume Type		7	0	0	0	0	19	0	0	0
<input type="checkbox"/> Continuous <input type="checkbox"/> Fugitive <input type="checkbox"/> Intermittent		Water Droplets Present?		8	0	0	0	0	20	0	0	0
<input type="checkbox"/> NO <input type="checkbox"/> YES    If YES, droplet plume is <input type="checkbox"/> Attached <input type="checkbox"/> Detached		At what point in the plume was opacity determined?		9	0	0	0	0	21	0	0	0
Describe Background (i.e. blue sky, trees, etc.)		Sky Conditions		10	0	0	0	0	22	0	0	0
Background Color		Wind Direction (i.e. from North to South)		11	0	0	0	0	23	0	0	0
Wind Speed mph		Relative Humidity %		12	0	0	0	0	24	0	0	0
Air Temperature of		Wet Temperature of		Average Opacity				Range of Opacity Readings Min.:                  Max.:				
COMMENTS:												
OBSERVER (please print)						Title:						
Name:						Date:						
Signature:						Certification Date:						
Organization:												

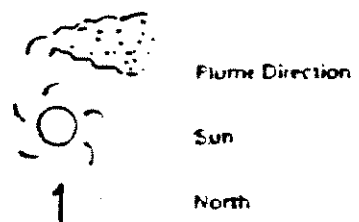
IMPORTANT: Please indicate the following by sketch:

Draw Arrow in North Direction



SOURCE

Observer's Position

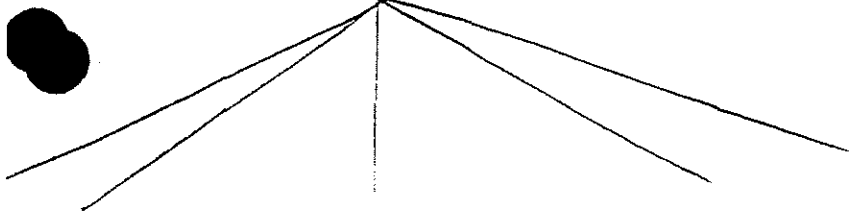


I acknowledge receipt of a copy of these visible emission observations.

Signature: Arnold Stuckley

Title: Acting Co-Gen Supt.

Date: 11-17-06



# RECORD OF VISUAL DETERMINATION OF OPACITY

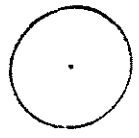
464

LOCATION		OBSERVATION DATE				START TIME		STOP TIME					
		Sec	0	15	30	45	Min.	0	15	30	45		
Type of Source		Type of Control Equipment		1	0	0	0	0	13				
Describe Emission Point (top of stack, etc.)				2	0	0	0	0	14				
Height Above Ground Level Feet		Height Relative to Observer Feet		3	0	0	0	0	15				
Distance from Observer Yards		Direction from Observer		4	0	0	0	0	16				
Description of Plume (stack exit only)		<input type="checkbox"/> Lifting <input type="checkbox"/> Trapping		5	0	0	0	0	17				
<input type="checkbox"/> Looping <input type="checkbox"/> Fanning <input type="checkbox"/> Coning <input type="checkbox"/> Funneling		<input type="checkbox"/> Plume Type		6	0	0	0	0	18				
Emission Color		<input type="checkbox"/> Continuous <input type="checkbox"/> Fugitive <input type="checkbox"/> Intermittent		7	0	0	0	0	19				
Water Droplets Present?		<input type="checkbox"/> NO <input type="checkbox"/> YES If YES, droplet plume is <input type="checkbox"/> Attached <input type="checkbox"/> Detached		8	0	0	0	0	20				
At what point in the plume was opacity determined?				9	0	0	0	0	21				
Describe Background (i.e. blue sky, trees, etc.)				10	0	0	0	0	22				
Background Color		Sky Conditions		11	0	0			23				
Wind Speed mph		Wind Direction (i.e. from North to South)		12					24				
Temperature °F		Wet Temperature °F		Relative Humidity %									

REMARKS: Stopped Reading At 2:42pm #3 Boiler

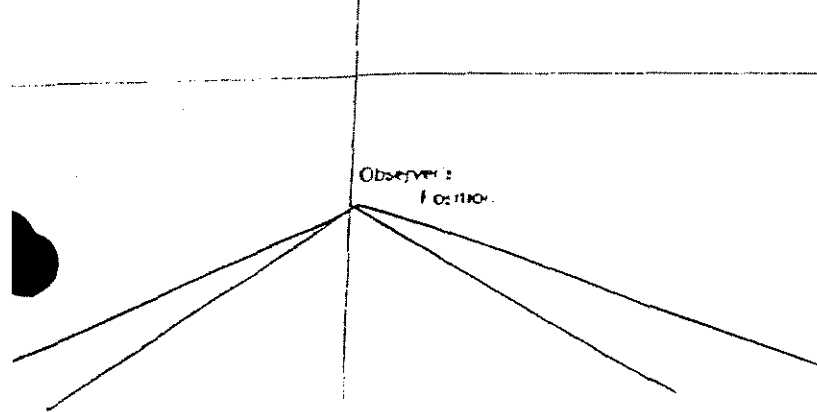
Average Opacity		Range of Opacity Reading: Min.:                      Max.:	
OBSERVER (please print)			
Name:		Title:	
Signature		Date	
Organization:		Certification Date	

Draw Arrow in North Direction

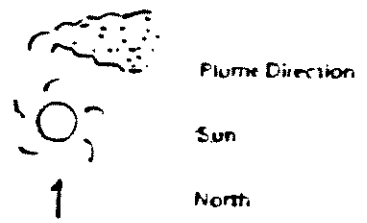


SOURCE

Observer's Position



IMPORTANT: Please indicate the following by sketch:

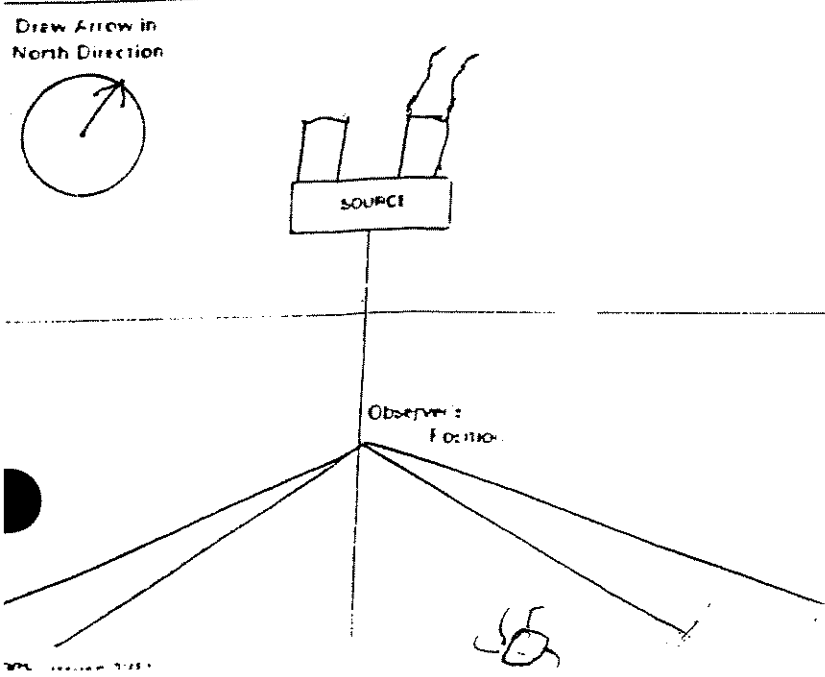


I acknowledge receipt of a copy of these visible emissions observations.	
Signature: <u>Richard Stanley</u>	
Title: <u>Assistant Control Super</u>	
Date: <u>11-17-06</u>	

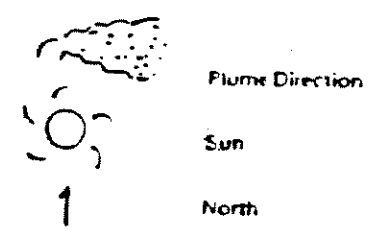
RECORD OF VISUAL DETERMINATION OF OPACITY

pg-1

FUEL OIL BOILER #3		OBSERVATION DATE	11-21-06	START TIME	09:25	STOP TIME	1036
FA 3 SM 22 POWER PLANT		Sec		Sec			
FUEL OIL NA		0	15	30	45	0	15
TOP OF EAST STACK		1	0	0	0	13	0
150 Feet		2	0	0	0	14	0
74 Yards		3	0	0	0	15	0
SE		4	0	0	0	16	0
None		5	0	0	0	17	0
BLACK		6	0	0	0	18	0
None		7	0	0	0	19	0
TOP OF STACK EAST		8	0	0	0	20	0
BLUE SKY		9	0	0	0	21	0
CLEAR		10	0	0	0	22	0
S TO N		11	0	0	0	23	0
		12	0	0	0	24	0
Average Opacity: 0		Range of Opacity Reading: Min: 0 Max: 0					
OBSERVER (please print) Name: LEONARDO PACHECO Title: OPERATOR							
Signature: [Signature]						Date: 11-21-06	
Organization: KSL						Certification Date: 8-06	



IMPORTANT: Please indicate the following by sketch:



I acknowledge receipt of a copy of this visible emissions observations.

Signature: [Signature]

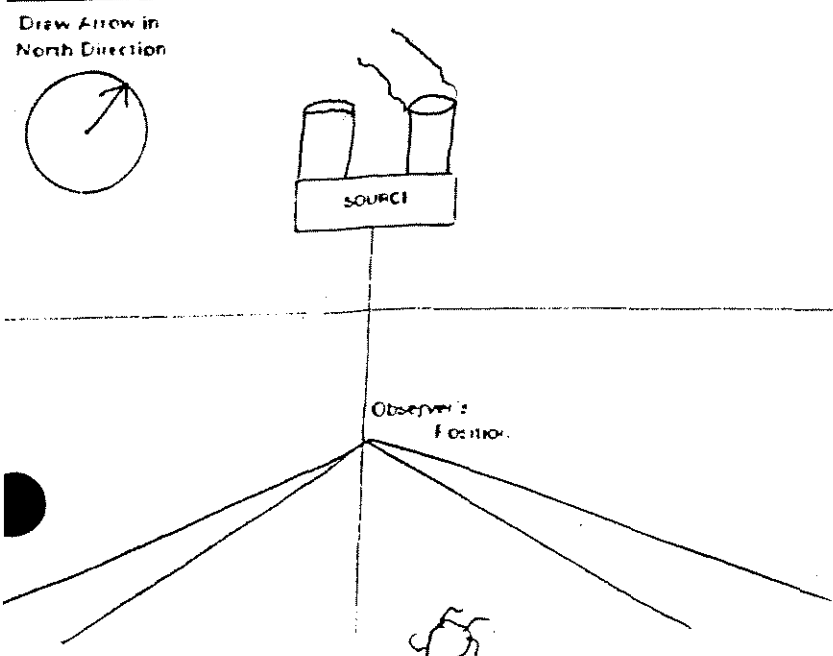
Title: KSL/PLS 575 Assistant Compliance

Date: 11-21-06

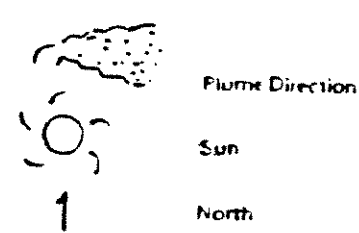


RECORD OF VISUAL DETERMINATION OF OPACITY

EQUIPMENT <b>FUEL OIL ON BOILER #3</b>		OBSERVATION DATE <b>11-21-06</b>				START TIME <b>09:25</b>		STOP TIME <b>1036</b>					
LOCATION <b>TAB 3 SIM 22 POWER PLANT</b>		Sec Min.   0   15   30   45				Sec Min.   0   15   30   45							
Type of Source <b>FUEL OIL</b>		Type of Control Equipment <b>NA</b>		1	0	0	0	0	13	0	0	0	0
Describe Emission Point (top of stack, etc.) <b>TOP OF EAST STACK</b>		2	0	0	0	0	0	14	0	0	0	0	
Height Above Ground Level: <b>150</b> Feet		Height Relative to Observer: <b>170</b> Feet		3	0	0	0	0	15	0	0	0	0
Distance from Observer: <b>74</b> Yards		Direction from Observer: <b>SE</b>		4	0	0	0	0	16	0	0	0	0
Description of Plume (stack exit only) <input type="checkbox"/> Locking <input type="checkbox"/> Fanning <input type="checkbox"/> Coning <input type="checkbox"/> Funneling <input checked="" type="checkbox"/> None		<input type="checkbox"/> Lifting <input type="checkbox"/> Trapping		5	0	0	0	0	17	0	0	0	0
Plume Color <b>BLACK</b>		Plume Type <input type="checkbox"/> Continuous <input type="checkbox"/> Fugitive <input checked="" type="checkbox"/> Intermittent		6	0	0	0	0	18	0	0	0	0
Doer Droplets Present? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES If YES, droplet plume is <input type="checkbox"/> Attached <input type="checkbox"/> Detached		7	0	0	0	0	0	19	0	0	0	0	
At what point in the plume was opacity determined? <b>TOP OF EAST STACK</b>		8	0	0	0	0	0	20	0	0	0	0	
Describe Background (i.e. blue sky, trees, etc.) <b>BLUE SKY</b>		9	0	0	0	0	0	21	0	0	0	0	
Background Color <b>BLUE</b>		Sky Conditions <b>CLEAR</b>		10	0	0	0	0	22	0	0	0	0
Wind Speed <b>0-4</b> mph		Wind Direction (i.e. from North to South): <b>S SW W</b>		11	0	0	0	0	23	0	0	0	0
Air Temperature °F		Wet Temperature °F		Relative Humidity %		12	0	0	0	0	0	0	0
COMMENTS:				Average Opacity <b>0</b>				Range of Opacity Reading: Min.: <b>0</b> Max.: <b>0</b>					
				OBSERVER (please print) Name: <b>LEONARD PACHECO</b> Title: <b>OPERATOR</b>									
				Signature: <i>[Signature]</i> Date: <b>11-21-06</b>									
				Organization: <b>KSL</b> Certification Date: <b>8-06</b>									



IMPORTANT: Please indicate the following by sketch:



I acknowledge receipt of a copy of these visible emissions observations.

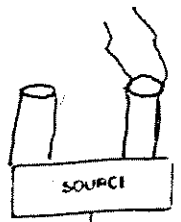
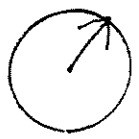
Signature: *[Signature]*  
Title: **KSL/MSRB Acting Co-Gen Supervisor**  
Date: **11-21-06**

RECORD OF VISUAL DETERMINATION OF OPACITY

FUEL OIL <del>oil</del> BOILER #3		ESTIMATION DATE	START TIME	STOP TIME							
TA 3 SMI 22 POWERPLANT		11-21-06	0925	1036							
LOCATION		Sec	0	15	30	45	Sec	0	15	30	45
FUEL OIL NA		Min.					Min.				
Type of Control Equipment:		1	0	0	0	0	13	0	0	0	0
Describe Emission Point (top of stack, etc.)		2	0	0	0	0	14	0	0	0	0
Height Above Ground Level:		3	0	0	0	0	15	0	0	0	0
Distance from Observer:		4	0	0	0	0	16	0	0	0	0
Description of Plume (stack exit only)		5	0	0	0	0	17	0	0	0	0
Plume Color		6	0	0	0	0	18	0	0	0	0
Plume Type		7	0	0	0	0	19	0	0	0	0
At what point in the plume was opacity determined?		8	0	0	0	0	20	0	0	0	0
Describe Background (i.e. blue sky, trees, etc.)		9	0	0	0	0	21	0	0	0	0
Sky Conditions		10	0	0	0	0	22	0	0	0	0
Wind Direction (i.e. from North to South)		11	0	0	0	0	23	0	0	0	0
Wet Temperature		12	0	0	0	0	24				
Relative Humidity		Average Opacity		Range of Opacity Readings:		Min.:		Max.:			
COMMENTS:		0		0		0		0			
#4 BURNER LIT AT 10:25 AND STABLE.		OBSERVER (please print)		Name:		Title:					
11:00 BURNER # 4 OFF AND NO LONGER ON FUEL OIL.		Signature:		Date:		Certification Date:					
		KSL		11-21-06		8-06					

IMPORTANT: Please indicate the following by sketch:

Draw Arrow in North Direction



Plume Direction



Sun



North

Observer: \_\_\_\_\_  
Location: \_\_\_\_\_

I acknowledge receipt of a copy of this visible emissions observations.

Signature: Edward P. Pineda

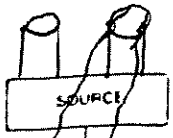
Title: KSL/MSRB Acting Co-Lead Supt.

Date: 11-21-06

RECORD OF VISUAL DETERMINATION OF OPACITY pg 1

URCE		OBSERVATION DATE				START TIME		STOP TIME			
FUEL OIL #3 BOLLER		12-14-06				08:43		0945			
LOCATION		Sec	0	15	30	45	Sec	0	15	30	45
A 3 SM 22 POWER PLANT		Min.					Min.				
Type of Source		Type of Control Equipment		1		13		0		0	
FUEL OIL		NA		0		0		0		0	
Describe Emission Point (top of stack, etc.)		2		0		0		0		0	
Top of East Stack		3		0		0		0		0	
Height Above Ground Level		Height Relative to Observer		150		170		0		0	
Feet		Feet		3		15		0		0	
Distance from Observer		4		0		0		0		0	
74		S.E.		16		0		0		0	
Description of Plume (stack exit only)		5		0		0		0		0	
<input type="checkbox"/> Looping <input type="checkbox"/> Fanning <input checked="" type="checkbox"/> Coning <input type="checkbox"/> Fungation <input type="checkbox"/> Lofting <input type="checkbox"/> Trapping		6		0		0		0		0	
Emission Color		Plume Type		18		0		0		0	
BLACK		<input type="checkbox"/> Continuous <input type="checkbox"/> Fugitive <input checked="" type="checkbox"/> Intermittent		7		0		0		0	
Water Droplets Present?		8		0		0		0		0	
<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, droplet plume is <input type="checkbox"/> Attached <input type="checkbox"/> Detached		9		0		0		0		0	
At what point in the plume was opacity determined?		10		0		0		0		0	
TOP OF EAST STACK		11		0		0		0		0	
Describe Background (i.e. blue sky, trees, etc.)		12		0		0		0		0	
BLUE + WHITE SKY		10		0		0		0		0	
Background Color		Sky Conditions		11		0		0		0	
BLUE + WHITE		BROKEN		12		0		0		0	
Wind Speed		Wind Direction (i.e. from North to South)		11		0		0		0	
0.2 mph		N.S.		12		0		0		0	
Ambient Temperature		Wet Temperature		12		0		0		0	
				24		0		0		0	
REMARKS:		Average Opacity				Range of Opacity Readings					
		2.375 0.4 1-25-07				Min.: 0 Max.: 25					
		OBSERVER (please print)				Name: LEONARDO PACHECO Title: OPERATOR					
		Signature				Date					
		<i>[Signature]</i>				12-14-06					
		Organiz. No.				Certification Date					
		KSL				8-06					

Draw Arrow in North Direction



Observer's Position

IMPORTANT: Please indicate the following by sketch:



Plume Direction



Sun



North

I acknowledge receipt of a copy of these visible emissions observations.

Signature: *[Signature]*

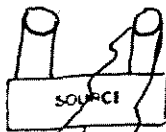
Title: *Retired Co-Gen Supt.*

Date: *12-14-06*

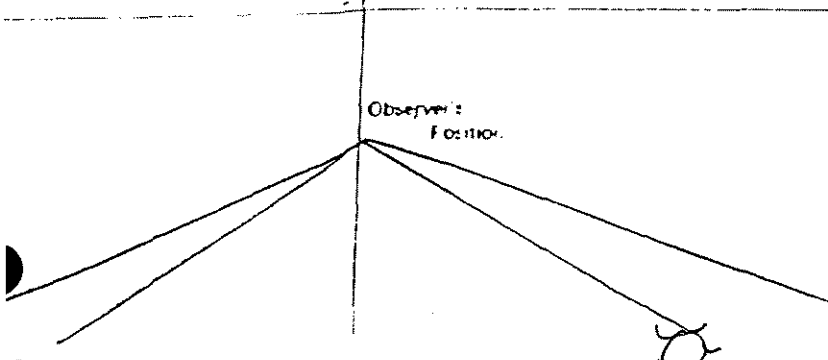
RECORD OF VISUAL DETERMINATION OF OPACITY 2

SOURCE FUEL OIL # 3 PLANT		OBSERVATION DATE 12-14-06				START TIME 0843		STOP TIME 0945						
LOCATION TA 3 SM 22 P.P.		Sec	0	15	30	45	Sec	0	15	30	45			
Type of Source FUEL OIL		Type of Control Equipment NA		1	0	0	0	0	13	0	0	0		
Describe Emission Point (top of stack, etc.) TOP OF STACK (EAST)		2	0	0	0	0	14	0	0	0	0			
Height Above Ground Level SAME Feet		Height Relative to Observer SAME Feet		3	0	0	0	0	15	0	0	0		
Distance from Observer SAME Yards		Direction from Observer S.E.		4	0	0	0	0	16	0	0	0		
Description of Plume (stack exit only) <input type="checkbox"/> Looping <input type="checkbox"/> Fanning <input checked="" type="checkbox"/> Coning <input checked="" type="checkbox"/> <del>Directional</del> <sup>12-14-06</sup>		<input type="checkbox"/> Lifting <input type="checkbox"/> Trapping		5	0	0	0	0	17	0	0	0		
Emission Color BLACK		Plume Type <input type="checkbox"/> Continuous <input type="checkbox"/> Fugitive <input checked="" type="checkbox"/> Intermittent		6	0	0	0	0	18	0	0	0		
Water Droplets Present: <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES If YES, droplet plume is <input type="checkbox"/> Attached <input type="checkbox"/> Detached		7	0	0	0	0	19	0	0	0	0			
At what point in the plume was opacity determined? TOP OF EAST STACK		8	0	0	0	0	20	0	0	0	0			
Describe Background (i.e. blue sky, trees, etc.) WHITE CLOUDS		9	20	20	25	25	21	0	0	0	0			
Background Color WHITE		Sky Conditions OVERCAST		10	5	0	0	0	22	0	0	0		
Wind Speed SAME mph		Wind Direction (i.e. from North to South) SAME		11	0	0	0	0	23	0	0	25		
Ambient Temperature of		Wet Temperature of		Relative Humidity %		12	0	0	0	0	25	25	5	0
REMARKS:		Average Opacity 4 - 2.375 <sup>pl</sup> 11/25/07				Range of Opacity Readings: Min.: 0 Max.: 25								
		OBSERVER (please print) Name: LEONARDO PACHECO Title: OPERATOR												
		Signature: <i>[Signature]</i> Date: 12-14-06												
		Organization: KSL Certification Date: 8-06												

Draw Arrow in North Direction



Observer's Position.



IMPORTANT: Please indicate the following by sketch:



Plume Direction



Sun



North

I acknowledge receipt of a copy of these visible emissions observations.

Signature: *[Signature]*

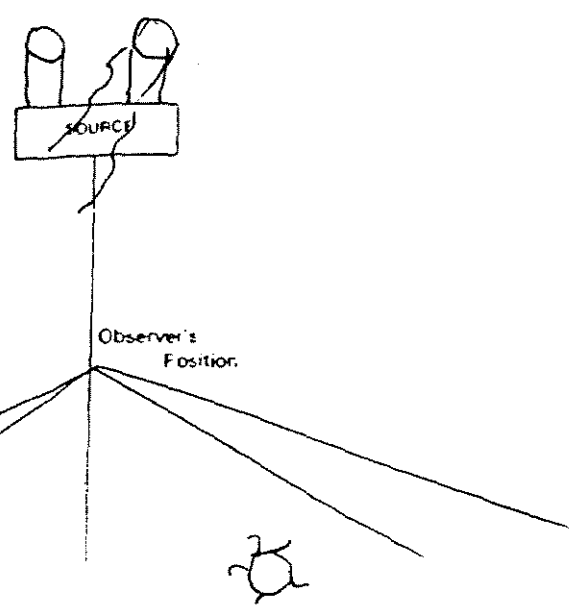
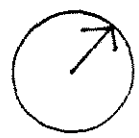
Title: *ACTING CO-LEAD SUP. T.*

Date: 12-14-06

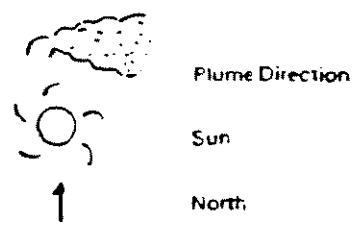
RECORD OF VISUAL DETERMINATION OF OPACITY

OBSERVATION DATE		START TIME				STOP TIME			
Sec.	0	15	30	45	Sec.	0	15	30	45
SOURCE: SAME						0945			
LOCATION: SAME									
Type of Control Equipment		N.A.							
Type of Source: SAME									
Emission Point (top of stack, etc.): SAME									
Height Above Ground Level: SAME Feet		Height Relative to Observer: SAME Feet							
Distance from Observer: SAME Yards		Direction from Observer: SAME							
Description of Plume (stack exit only)		<input type="checkbox"/> Lofting <input type="checkbox"/> Trapping <input type="checkbox"/> Looping <input type="checkbox"/> Fanning <input checked="" type="checkbox"/> Coning <input type="checkbox"/> Fumigation							
Emission Color: SAME		Plume Type: <input type="checkbox"/> Continuous <input type="checkbox"/> Fugitive <input checked="" type="checkbox"/> Intermittent							
Water Droplets Present?		<input type="checkbox"/> NO <input type="checkbox"/> YES If YES, droplet plume is <input type="checkbox"/> Attached <input type="checkbox"/> Detached							
At what point in the plume was opacity determined?: SAME									
Describe Background (i.e. blue sky, trees, etc.): BLUE SKY - WHITE CLOUDS									
Background Color: BLUE WHITE		Sky Conditions: OVERCAST							
Wind Speed: SAME mph		Wind Direction (i.e. from North to South): SAME							
Ambient Temperature: °F		Wet Temperature: °F		Relative Humidity: %					
REMARKS: 6 BURNER ON AND STABLE 0938		Average Opacity: 2.375				Range of Opacity Readings: Min.: 0 Max.: 25			
OBSERVER (please print):		Name: LEONARD PALMICO				Title: OPERATOR			
Signature: [Signature]		Date: 12-14-06							
Organization: KSL		Certification Date: 8-06							

Draw Arrow in North Direction



IMPORTANT: Please indicate the following by sketch:



I acknowledge receipt of a copy of these visible emissions observations.

Signature: [Signature]

Title: ACTING CO-GEN SUPT.

Date: 12-14-06