LA-UR-06-5553

Approved for public release; distribution is unlimited.

Title:

Semi-Annual Monitoring Report January 1 - June 30, 2006 Air Quality Title V Operating Permit P100M1 Los Alamos National Laboratory

Author(s):

Steven Story, ENV-EAQ

Submitted to:

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



Los Alamos National Laboratory, an aftirmative action/equal opportunity employer, is operated by the University of California for the U.S. Department of Energy under contract W-7405-ENG-36. By acceptance of this article, the publisher recognizes that the U.S. Government retains a nonexclusive, royalty-free license to publish or reproduce the published form of this contribution, or to allow others to do so, for U.S. Government purposes. Los Alamos National Laboratory requests that the publisher identify this article as work performed under the auspices of the U.S. Department of Energy, Los Alamos National Laboratory strongly supports academic freedom and a researcher's right to publish; as an institution, however, the Laboratory does not endorse the viewpoint of a publication or guarantee its technical correctness.

Identifying Information		
Source Name: Los Alamos National Laboratory	County: <u>Los</u>	Alamos .
Source Address:	_	
City: Los Alamos	State: NM	Zip Code: <u>87545</u>
	Ph No. <u>(505) 667-2211</u> h No. <u>(505) 665-2169</u>	Fax No. (505) 665-8858 Fax No. (505) 665-8858
Principal Company Product or Business: <u>National Security and Nu</u>	clear Weapons Research	Primary SIC Code: 9711
Permit No. P100M1 {IDEA/Tempo ID No. 856}	Permit Is	sued Date: April 30, 2004
		M1 June 15, 2006
Certification of Truth, Accuracy, and Comple	eteness	
I, <u>Victoria A. George</u> certify that, based on information statements and information contained in the attached semi-annual m Signature Title: Division Leader, Environmental Protection Division	and belief formed after rea onitoring report are true, a	accurate, and complete.
Trac. Division Leager, Environmental Frotection Division		

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
- 1: Power Plant Opacity Reports

1. Asphalt Production

Permit Section	Monitoring Required	Monitoring Performed
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.	Monthly opacity reports are provided as Attachment A. An Excess Emission Report was submitted to NMED on August 2, 2006, for an opacity reading greater than 20%.
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.	A differential pressure gauge is installed to continuously monitor the differential pressure across the baghouse as required by NSR permit GCP-3-2195G condition IV.C.2. The differential pressure is recorded twice each day during operations, once in the morning and once in the afternoon, as required by NSR permit GCP-3-2195G condition IV.D.2(e). Records are available on-site for NMED inspection.
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.

2. Beryllium Activities

Permit Section 2.2.4		
Source	Monitoring Required	Monitoring Performed
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 on February 10, 2006 [ENV-MAQ:06-042] and May 8, 2006 [ENV-MAQ:06-132].
	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

	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.

3. Boilers and Heaters

Permit Section	Monitoring Required	Monitoring Performed
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. No opacity readings were performed during this period.

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

Permit Section	Monitoring Required	Monitoring Performed
2.4.4.1	The permittee shall maintain logs of the hours the carpenter shops are in operation.	A log is maintained of the hours of operation at the TA-3-38 shop.
		The TA-15-563 carpenter shop is equipped with an hour meter on the cyclone separator. The hour meter is read and recorded monthly.
		Hours of operation are provided in Attachment D.

5. Chemical Usage

Permit Section	Monitoring Required	Monitoring Performed
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 will be submitted in the Semi-Annual Emission report.

6. Degreasers

Permit Section	Monitoring Required	Monitoring Performed
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 and used to calculate emissions on a semi-annual basis.
		LANL's "Historical Solvent Usage Data" report for January 1 – June 30, 2006 is provided in Attachment E.
2.6.4.2	Complete checklist for work practice standards.	LANL completes a work practice checklist each time the degreaser is used. This checklist is posted on the degreaser glove box.

7. Internal Combustion Sources

Permit	Monitoring Required	Monitoring Performed
Section		
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 every six months. 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.

8. Data Disintegrator, TA-52-11

Permit Section	Monitoring Required	Monitoring Performed
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 when the cloth tube filters are shaken. The Data Disintegrator and associated pollution control devices are maintained under a preventative maintenance contract.

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

Permit Section	Monitoring Required	Monitoring Performed
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. 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.	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.	A certificate or analysis report indicating the total sulfur content is available for fuel oil shipments. No fuel oil was purchased 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 conducted using Department approved methods and standards for determining	A contract is in place with the fuel oil supplier, which requires a certificate of analysis that includes sulfur content. If the fuel oil is received without the certificate, the shipment will be refused until the certificate is

Permit Section	Monitoring Required	Monitoring Performed
	total sulfur content of No. 2 fuel oil.	available for sulfur content verification or sample results have been received and verified.
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.	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).	Combustion Turbine has not started operations. No Monitoring performed.

Permit	Monitoring Required	Monitoring Performed
Section		
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).	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.	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.

Permit	Monitoring Required	Monitoring Performed
Section	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.	Delivery of pipeline quality gas is specified in the contract with the supplier. Opacity measurements performed at the TA-03 Power Plant are provided in Attachment 1.
2.9.4.11	Initial compliance tests are required on Unit TA-3-22 CT-1 for NOx 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 NOx, 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.	Combustion Turbine has not started operations. No Monitoring performed.
2.9.4.12	The permittee shall comply with fuel sulfur monitoring requirements at 40 CFR 60.334(h) applicable to Unit TA-	Combustion Turbine has not started operations. No Monitoring performed.

Permit Section	Monitoring Required	Monitoring Performed
	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).	

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:

	Asphalt Plant, Permit Condition 2.1.2.1, Fugitive Emission Opacity recorded at 24% on May 1, 2006, Excess Emission Report Submitted to NMED
~~~~~~	Last Entry

# Attachment A Asphalt Plant Opacity Reports

**Summary Table, Reports Attached** 

	Source	Date	Time	Opacity*
Jan	Top of Shaker	01/05/06	9:35 am	0
	Conveyor Belt	01/05/06	9:45 am	0
	Top of Baghouse Stack	01/05/06	9:25 am	0
Feb	Top of Shaker	02/03/06	1:02 pm	0
	Conveyor Belt	02/15/06	1:12 pm	(1.5%) 3%
	Top of Baghouse Stack	02/03/06	1:15 pm	0
Mar	Top of Shaker	03/20/06	1:16 pm	0
	Conveyor Belt	03/23/06	12:46 pm	0
	Top of Baghouse Stack	03/20/06	1:09 pm	0
Apr	Top of Shaker	04/06/06	11:17 am	0
	Conveyor Belt	04/07/06	8:54 am	0
	Top of Baghouse Stack	04/06/06	11:23 am	0
May	Top of Shaker	05/01/06	10:00 am	< 1%
	Conveyor Belt	05/01/06	11:12 am	(4 %) 24%
	Top of Baghouse Stack	05/01/06	10:11 am	< 1%
June	Top of Shaker	06/02/06	9:30 am	0
	Conveyor Belt	06/02/06	9:43 am	1%
	Top of Baghouse Stack	06/02/06	9:37 am	0

^{*} Opacity in ( ) is reported opacity from Observer

- #			Environn	ental lir	U) Private	MYTEN:	. Divi	einn.					
-		F	RECORD OF VISU						ODACI	1757			
الم الم		,	TEOCHE OF THE	- DE	CUM	INA	IIQIV	OT.	UPAC	117			
INDI EMPOWER					. '								
JURCE 1		111	0/ /	CRSER	YATIO	N'DAT	E	5	TART TH	ME .	STO	TIME	
BUMA	> plean	17 P.	(opt	1//		06			9.3	7	9:45		
LOCATION	27		61	Sec	<del></del>	T	T	1	500	<del>.</del> 1	+	<del></del>	<del>/</del> _
29 may 4	1/49/1	1605	Henry MAN	Min.	0	15	30	45	Min	0	15	30	45
Type of Source.	201 L	Type of Co	ntrol Equipment		7	1	1 7	┿	W.H.L.	+	+		-
45/hall	1/hd	1500	1881158	1 1	0	10		10	13				l
Describe Emission Point	(top of mack,	etc.)			<del></del>	+	+	╁			-	<del> </del>	
1/20		•		2	10	10	10	10	14		İ		٠.
Height Above Ground Le	rve!	Hulght Reia	tive to Charver	<del>                                     </del>	┼	+	<del>                                     </del>	+	<del> </del>	1-	<del> </del>	1	
3.	⊘ Feat `		37 Feet	3	0	0	10	16	15	1	i		
Distance from Observer		Direction fr	om Observer	<del>/</del>	+	-	-	┤			<del> </del>	<u> </u>	
1 70	Yarda	1/0	2///- 4	4	0	10	0	17	16		1	İ	
Description of Plume (sta	ck exit only)	N/10 L	ofting Trapping	<del> </del>	<del>  _ ·</del>		Η	-	ļ <u>, </u>	<del> </del>	<del> </del>		
□ Looping □ Fa	inning 🗂		☐ Furnigation	5	0		0	0	17	1			
Emission Color	Plume Type	2//~	annyout	1	<del> </del>		Ι	<del> </del>	<u> </u>	<del> </del>	<u> </u>	<b>                                     </b>	
1/001	1 .	ILLDUX TO F	gitive 🔲 Intermitment	6	0	$\bigcirc$	0	0	_ 18 \				
Water Droplets Present?	NIM	(W	Arres en militaries	<del>                                     </del>		_	_	<u> </u>	<u> </u>	<del> </del>	<del>                                     </del>	<b>  </b>	·
NO TYES H	YES, dropter of	iuma le 🗀	Attached C Cumakani	7	0	$\mathcal{O}$	(2)	10	19	1		.	
At what point in the plum	n was opacity	Getermined?	2/ per 100	<del> </del>	-×					<del> </del>	ļ.—	<b>  </b>	
11 About	10%	1 5	Waker Din	8	O	$\gamma$	7)1	7)	20				- 1
Cascribe Eackground (Le.	blue sky, trees,	. etc.)		<del> </del>				- N		ļ	ļ		
13/110 5	199			9	7)	0	0	OI	21	ŀ.,			
Background Color	/	Sky Consitie	ns ·		$\leq$			_					
Blue		77 /	2-	10	$\bigcirc$	رت ا	$\varnothing$	01	22		·		4
	Wine Diractio		orth to South)										
mph	NA	7	•	11		. 1	- 1		23			.	-
	Wet Temperat		Relative Humidity		+		·	<del>`</del>					
1.7.40	-11.7	1 10	36×	72	- 1		1	- 1	24				.[
COMMENTS			,	Áverage O	pacity		· /		Range of	Opacin	v Gazeti	net	
				1112	1-6	, E	<i>رم)</i> (		Mila.	7	Max	- 7	)
	•	1		16 16.				<u> </u>			· ~4		
•	•		•	CREERVE	S. Ipier	un prir	111 /	171	-6			_	$\overline{+}$
				OBERNO Name:	A Ipla	es prin		Pla	n The		FRV.	Ź,	
					i ipiai	usa prir us //s // L		P/2	The Data		-	Źc,	
		· 		Neme	I plan	prir	ii () Tar	P/2		13	-	7c,	
		· ·		Name: Signature	[].	or print		1		/5	- nev.	1/2, 16	
				Name: Signature	[].	5 pris	"In	1	Costs //	/5	- nev.	1/2. 16 15	
Draw Arrow in		· · · · · · · · · · · · · · · · · · ·		Name: Signature Day Organization 1352	[]. Sun //	- V   	In V	4	Data Cartificati	/ 3	nv.	5	
Draw Arrow in North Direction		3	Sleaker	Name: Signature Day Organization 1352	[]. Sun //	- V   	In V	4	Costs //	/ 3	nv.	5	erch
		7	Shaka	Name: Signature Day Organization 1352	[]. Sun //	- V   	In V	4	Data Cartificati	/ 3	nv.	5	erch
	11	-[]-	- Shakar	Name: Signature Day Organization 1352	[]. Sun //	- V   	In V	4	Cartification indicates	on Cát the fo	nev.	5	etch
	——————————————————————————————————————	-M-	- Shakar Bri	Name: Signature Day Organization 1352	[]. Sun //	- V   	In V	4	Cartification indicates	/ 3	nev.	5	erch:
			Shakar Bri	Name: Signature Day Organization 1352	[]. Sun //	- V   	In V	4	Cartification indicates	the fo	nev.	5	erch:
	SOUR	<i>1</i>	Shakar Bri	Name: Signature Day Organization 1352	[]. Sun //	- V   	In V	4	Cartification indicates	the fo	nev.	5	etch
	SOUR	} 	Shalkar Bri	Name: Signature Day Organization 1352	[]. Sun //	- V   	In V	4	Carufforti indicate Plur Sun	on Oát the fo	nev.	5	etch:
	SOUR		Shakar Bri	Name: Signature Day Organization 1352	[]. Sun //	- V   	In V	4	Cartification indicates	on Oát the fo	nev.	5	etch
	SOUR		Shakar Bri	Name: Signature Day Organization 1352	[]. Sun //	- V   	In V	4	Carufforti indicate Plur Sun	on Oát the fo	nev.	5	etch
	SOUR		Shakar Bri	Name: Signature Day Organization 1352	[]. Sun //	- V   	In V	4	Carufforti indicate Plur Sun	on Oát the fo	nev.	5	etch
		· (	Shakar Bri	Name: Signature Day Organization 1352	IMP	ORTA	NOT: I	Please	Cartificate indicate  Plus  Norte	the fo	llowin	6 5 g by sk	etch
		· (		Name: Signature Day Organization 1352	IMP	ORTA	NOT: I	Please	Cartificate indicate  Plus  Norte	the fo	llowin	6 5 g by sk	estch:
		· (		Name: Signature Day Organization 1352	IMP	ORTA	NOT: I	Please	Certificate indicate Plur Sun	the fo	llowin	6 5 g by sk	etch:
		· (		Name: Signature Day Organization 1352	IMPO	ORTA	NT: I I	Please	Cartificate indicate  Plus  Norte	the fo	llowin	6 5 g by sk	etch:
		· (		Name: Signature Day Organization 1352	IMPO	ORTA	NT: I I	Please	Cartificate indicate  Plus  Norte	the fo	llowin	6 5 g by sk	etch:
		· (		Name: Signature Day Organization 1352	IMPO	CKNOW ible a	NT: I I	Please	Cartificate indicate  Plus  Norte	the fo	llowin	6 5 g by sk	etch:
		· (		Name: Signature Day Organization 1352	IMPO	ORTA	NT: I I	Please	Cartificate indicate  Plus  Norte	the fo	llowin	6 5 g by sk	etch:
		· (		Name: Signature Day Organization 1352	/ a vis Sign The	cknownible experience	NT: I I	Please	Cartificate indicate  Plus  Norte	the fo	llowin	6 5 g by sk	etch:
		· (		Name: Signature Day Organization 1352	/ a vis Sign The	CKNOW ible a	NT: I I	Please	Cartificate indicate  Plus  Norte	the fo	llowin	6 5 g by sk	etch:

	onmental Ir									
RECORD OF VI	ISUAL DE	TERM	IINA	<b>FION</b>	0F	<b>OPACI</b>	TY	•		
Profit BIANCHADE										
			1			. <u>i.</u>				
TURCE DOOR A SE 14 DI	/ CBSE!	VATIC	N DAT	Ę	5	TART TIN	LE .	STOP	TIME	·
10/11/12/10/1 / /md	1//	5/0	/ 6	5		7 45°			:55	5
LOCATION	7 💢 54	2	T	T	7-4	₹ 50€	<del></del>	<del>                                     </del>		1
JEMA 1/391/25 Sill ONTO SE	Min.	0	15	30	45		0	15	30	45
Type of Source: Type of Control Equipment	Z   P	<b>-</b> -	<del>                                     </del>	+	<b>-</b>	Min.	<u> </u>	ļ '-		. 70
Asthall Plut Beforeust	1	3	b	<b>b</b> <			l			l
Describe Emission Point (top of stack, etc.)		10	0	دو	10	13				
	_ · _	10	-	1			1			
About Condry belt	2	10	10	10	10	14			Ĺ	•
Height Above Ground Level Height Relative to Charges		1	t =	1	1-5	<u> </u>	<del> </del>			
2-10 Feet 2-10 Feet	. · 3		12	10	10	15		· 1		
Distance from Observer Direction from Observer			1	<del> </del>	<del>  -</del>					
30 Yarda 70 NO 19	4		10	7	1	18			Ò	
			0	2	0	, 10	Ŀ			
Z//7 C Chiang C Trapper	·s 5	1	8	2	12					
□ Looping □ Fanning □ Coning □ Fumipation		$\perp$ $\cup$		O'	101	17		1	Ì	
Emission Color Plume Type		· .			$\overline{}$		, 1			
Clear Continuous - Fugitive - Intermitten	, 6	1		(C)	ال	، 18 س		1	Ì	
Water Oroplets Present?					$ \rightarrow $				$-\!\!\!\!+$	
NO YES If YES, droplet plume is Attached Detache	_ 7	رنح		7		19		.	. [	
At what point in the piume was opacity determined?		-			L					
ABOVE CAMEYON BELT	8		5	$\supset$				·	ľ	•
				Q		20 -		1	- 1	ļ
Describe Sackground (Le. blue sky, trees, etc.)	1					1				
12/48/P9/ 1000	9	$ \mathcal{O} $		9	$\sim$	- 21	. • ]	- 1	L	
Background Color Sky Conditions			0	$\overline{a}$	$\sim$		<del>+</del>	-	<del>-  </del>	
BIUE CRUV	10	$ \mathcal{O} $			771	22	.	· 1	1	- 1
'Nind Speed Wind Direction (Na. from North to South)		-			= $+$					
Chiph N/H	11		- 1	ľ		23	- 1	- 1	- 1	-1
ncient Temperature   Wet Temperature   Relative Humidity										
12/11/11/11/11	12		į	- 1	. 1			- 1	ı	
COMMENTS:						24			1	1
COMMENTAL	Average C		15	سرتعاد	1	Fiange of C	)pacity	Resdir	ığı	
	Min	1-7	<u> </u>	10		Min.	$\mathcal{O}$	Max	$\cdot \circ$	.
· .	CREERV	EA-ipie	es prin	# 2	7/	J.			~	7
	Name	11/4	لمئے راہ		1 1 12	Title	. 5	40 -	20	- 1
·	Signature	- / /	11/2	7		Data /		£		
	()	J.	///		•	7/4	-/7	6		
	Crysnizat	- Z	<del></del>	w -		artifica tic	<del>/</del>	-		
·	1550	7-14	21	t/i/	/ I.		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	سيزز		
Denote Assess in	<u> </u>					7,7	<u> </u>	<u>~2·</u>		
Draw Arrow in	4	IMP	ORTA	NT: F	lease i	ndicate t	/ he foli	owing	bv 🖖	et ch.
North Direction	1								7 JA	
(11)	1				بربير					
	1			6	٠٠					
	<u>_</u>				بست	Pium	e Direc	ion		
10 m	-			い	\ <del>~</del>					
SOURCE						Sun				
				~	)					
				<b>→</b>		North	1			
$\langle A \rangle \langle A $	,			i		744	•			
111-111	*	-								
14 1										
		1/2	склоч	riedon	menir	t of a.co	מע מל	ii are		
Osalva,						ervetions				
Position		"	-w-===================================	البية كمؤسسة و. و		m vacith15	•			
		-								
		Sig	nanum:	******						.
		1 .								-
		Thu	ie:							. 1
		Det	<b>2</b>							
	-									
D 089 (swed 1/85					······································					
		~~~~~		***************************************		·····	·····			

Environm	شا اداده	ra promana	ment	Divi	rion					
RECORD OF VISUA		•				OPACIT	ry.			
111		_			•					
District of the second of the	OBSER	VATIO	N DAT	F	5	ART TIM	#	STOR	TIME	
BURI- Asphalt Ment	11/	5/1				9:25		5	3	5
Signer Alesa, 200 Aloros Mis	Min.	0	15	30	45	Mir.	0	15	30	.46
Type of Source. Type of Control Equipment /	1	0	0	0	0	13				
Describe Emission Point (top of stack, etc.)	2	0	0	2	1					
Height Above Ground Lavel Height Relative to Observer	1	10	<u> </u>	10	10	14				
2 OFent 2) Feet	3	0	0	0	D	. 15		· .		
Distance from Observer Yards Direction from Observer Yards Variate Direction from Observer	4	0	0	0	0	16				
Description of Plume (stack exit only) ### Lotting Trapping Looping Fanning Cooling Furnishing	5	8	9	0	0	17				
Emission Color Plume Type	6	2	2	0	0	, 18 ⁽	7.	·		
Water Oropiets Present? Non R	7	2	7		19	19				
NO YES If YES, droplet plume is Attached Detyched At what point in the plume was opacity determined?	-	-		61		18				
Describe Eachground (i.e. blue sky, trees, etc.)	8	0	2	0		20 ⋅				
Clear Blue Sky	9	0	6	0	U	. 21		`		
Beckground Color Sky Conditions CIEGU	10	0	9	0	\bigcirc	22				
Wind Speed Smph Wind Direction (I.4 from North to South)	17					23			٠. ا	
nbient Temperature Wet Temperature Asiative Humidity	12					24				
COMMENTS:	Average C		- 7	~ e'	7	Range of	Opact	y Read	-	
	OBSERV	106		20		Min.:	0	Mas	<u>'</u>	9
	Name	, ,	`	1	Me.	all Titl	ر بر	W.	Se,	'
	Signature		1	11		Cate //	4	26	2	
·	Orpanicat	**	11 2	au		CAPUTICAT	6n Dat			
	1550	-17	21	VV		3/	_	05		
Draw Arrow in North Direction		M	ORTA	ANT:	Please	indicate	the fo	llowin	å pÅ 2	ketch
				ہے			-			
(a) 1-11				, ,		Pur	ne Dire	ction		
SOURCE				`()	Sun				
				٠,	,	**				
						Nort	37			
				1						
5						ipt of a c		f thesi	<u> </u>	
Observer's Position			isible (missi		ipt of a.c		f thesi	· ·	
Observer's Position		S	isible (missi				f thesi	*	
Observer's Position		S	isible (missi				f thesi		
Observer's Position		S	isible (missi				f thesi		

Oppon



FATH DANGWORT						-			•.	
TURCE	-1	VAT10			า	ART TIM	E .	STOP	TIME	
ASPHALT PLANT	FE	33	28	206	: /	OZPI	27	131	ZE	111
OZ ATION.	√ Sec	- 1	T		1	Sec.	T :	7		
713-73-TA-60-RC	Min	0	15	30	45	MIR.	. 0	15	30	4
Type of Source. Type of Control Equipment	STAR	}	_	 					***********	
	1		نسا		ر ا	13	j .	1 .		
ASPHACT PEANT BAGHOUSE	<u>->1</u>	10	0	0	0	14	<u> </u>			
Describe Emission Point (top of stack, etc.)	2	1						j l		
TOP OF SHAKER	-	0	0	0	0	14				
Height Above Ground Level Height Relative to Observer	T	1				,				
40 Foot 40 Foot	3	0	0	0	0	15				
Distance from Observer Direction from Observer	 	1								
30 Yarda NORTH	4	b	0		0	16			- 1	
Description of Plume (stack exit only)	- 	1	_		$\underline{}$					
	5			احسرا		17				
☐ Looping ☐ Fanning ☐ Coning ☐ Furnisation	1	(/_	0	\mathcal{C}	$\overline{}$					
Emission Color Plume Type N.A NONE	END	m	ا ہم ا		7	18 '	.	· [
NO EMISSIONS Continuous C Fugitive C Intermitment	> 6	\mathcal{O}	0	0	0	10		1		
Valer Oropiets Present?	1		أسرا		آير	T		I	T	
NO YES If YES, droplet plume is Attached Detached	7	0	0	0	0	19		. 1		
At what point in the plume was opacity determined?								• 1		
17-14" AROVE THE SOURCE	8	0		0	0	20 .	ĺ	ł	1	
17-TO 14" AROVE THE SOURCE :	1	\vdash								
TRUE CVV	9	0	0	0	0	. 21	٠. إ	1	1	
INCOME SKY	 	4			$\stackrel{\smile}{-}$]				
ackground Color Sky Conditions	10	0	امر	<u></u>	~	22		.		
Sind Speed Wind Direction (La. from North to South)		\cup	2	\subseteq \downarrow		-22				
	1	1 1	-	. 1	1	·	1	- 1	- 1	
mient Temperature Wet Temperature Relative Humidity	11			!	,	23	1	1	٠. [
mient Temperature Wet Temperature Relative Humidity										
PPROX52 " UNKNOWN " 5-015 *	12		1	- 1		24				
OMMENTS:	Average C	pacity				Range of C	opacity	Read	u gu	٠.
NOVISIBLE EMISSIONS.	1		. (")	- 1	Min.:	0	Max	.:)
NO AIDIDEC C WITTE	CBSERV	ER (pie	ese pris	11)						_
FACILITY WAS OPERATING	Name	R	117	\sim		A Title		1614	سيرسي	12
TACILITY WAS DEEKAING	Signature	1717-1	3817		24	Cate		0//		
NORMAL			7		_	一つ.	7	-0	/ .	_
NURMA	Greanizat		و کے	5.64		Cartification		<u> </u>	2	
	1 -		,		1			06	•	
	<u> </u>	<u> </u>	<u></u>				/ -	U6		
Draw Arrow in		IMP	ORTA	NT: F	lease	indicate t	he fol	lowins	bv si	(etr
North Direction										
TOP OF				_	سبير	-				
TOP OF SHAKER				6	<u>.</u> ا	· ·				
SHAREN				_		Plum	ue Direc	rion		
\mathcal{N}				\ <u></u>	. ~					
SOURCE				``()['	Sun				•
				-)					
				+		Norti	3			
	*			- 1		,	-			
-	1									
		- 1	acknie	wiedo	recei	pt of a.c.	ים עם:	these		
- In-						ervation:				
Observer's Position		**	<i>41.45</i> 0	u 11122/E	· · · · · · · ·	VALION	-			
			•		14		20	,	2/	1
		55	dusum	: 🗠		$\overline{-}$				
										i
		n	t ia:							_
								-		
	_	i			•		7 ($\sim /_{-}$		

Oprofor



FACE DANGOMDE			. •				-					
DURCE		OBSER	VATIO	N DAT	E	S	TART TIM	ΙĒ	STOP TIME			
LOCATION ACPHALT	PLANT	FOL	3_3	20	200	5]	1:15 P	m	11:-	251	PM	
LOCATION STA	8-TA-60-RC	Min.	0	15	30	45	Min.	С	15	30	46	
Type of Source.	Type of Control Equipment	STAR	*					1			-	
ASPHALT Describe Emission Point (top of stack,	IRAGHOUSE	->	10	0	10	0	13					
				I _								
TOP OF BAGNO	DUSE FXHAUST	2	10	0	0	0	14					
25 Fast	Height Relative to Observer	- 3	0	0	0	0	15					
Distance from Observer	NORTH	4	0	0	0	0	. 18			-	,	
Description of Piume (stack exit-only)	/V.A.□ Lofting □ Trapping Conling □ Fumigation.	5	0	0	\mathcal{O}	\mathcal{C}	17					
Emission Color Plume Type	NONE	en	- -			<u> </u>						
	nuous D Fugitive D Intermitment	>6	0	0	0	0	18 '	-				
NO YES If YES, droplet	plume is Attached Deteched	7	0	0	0	0	19		.	• •		
12" TO 14" ABOVE	STACK OUTLET	8	0	0	0	0	20 -			-	Ì	
BLUE SK	Y	9	0	0	0	0	21	, -].		
Background Color CLAR	Sky Conditions CLCAR on (i.e. from North to South)	10	0	0		0	22	,	.			
	on (i.e. from North to South) TO VEST ture Restrice Humidity	11					.23				7	
PPRAS 2 *F UNKNOW		12					24					
COMMENTS:		Average C	pacity				Range of C	pacity	Apadir	<u>l</u>		
NO VISIBLE	EMICCIONE		- 0	ラー		-	Min.:	0	Max.		,	
700 131300		CREERVI				>	_				\neg	
FACILITY WA	S OPERATING	Name	Kich	ARD	\subseteq	2057	A Titie	EN	51N	ER	- 1	
	, 3 0 () () ()	Signature			~		Oate ·					
NORMAL		Organizati	7.	_72	W			<u></u>	<u>06</u>			
			₹5	,		1	Cartificatio	n Date	~/		1	
Draw Arrow in									06			
North Direction			IMP(DRTA	NT. P	lease	indicate t	he foll	owing	DY 3K	etch:	
	Sq. STACK TFROM				ربر م	ئے۔ پیشن	* **	-				
	BIGHOUSE				5	ر ا	' Plum	e Direct	ion			
SOUI	ect .					ัว 🐪	Sun					
					†		North					
0	Domrver's						ot of a.co.		these			
	Position			narure:	•	1		1	1 1		4	
							/					
			The	=:		· ~	217		16	,		
	, ,	_	Det	e:				\mathcal{Q}	لمنع	·	ł	





	THE COURT OF VICE	ME DE	1.141	11457	ION	UF	UPACI	ł I		-	
FAIR DIVINOMENT			, •				·				
NIRCE A SOLA / T			VATIO			5	TART TIM	E	STOP	TIME	
1 LOCATION	PLANT		<u> </u>	<u> </u>	76		120	m_	1:	22	Pm
57A-3-33	=TA.10-RC	Min.	0	15	30	45	Sec	0	15	30	45
Type of Source.	Type of Control Equipment		}		+		Min.	<u> </u>		. 30	
ASPHALT	BAG HOUSE	1	15	10	5	5	13		1	٠]
Describe Emission Point (top of stack,	etc.)	 	+	 		<u> </u>			· ·		
CONVEYER Height Above Ground Level	T3 ECT	2	15	10	0	5	14				-
Height Above Ground Lavel	Height Relative to Observer	1.	1	1							
	5 Feet	3	10	0	5	0	15				
Distance from Observer	Direction from Observer		1								
25 Yards	SOUTH	4 -	5	5	5	5	, 16	.			1
Description of Plume (stack exit only)	☐ Lofting ☐ Trapping	STARA				_					
Looping Fanning	Coning	25	0	0	5	21	17		1	٠	.
Emission Color Plume Type		1						·		1	$\neg \neg$
	uous 🗆 Fugitive 🗶 Intermitment	6	0	0	5	\mathcal{O}	18 '		. 1		-
Water Oroplets Present?	<u></u>	7		~		_					
At what point in the plume was opacity	dume is Attached Detached		0	0	0	5	19				
		8		5	~ 1	5	-		•	•	
Describe Background (i.e. blue sky, trees,	JE SOURCE.	-	0	21	0	\geq	20 ·				
	. etc.)	g		_ [_			T	T	
BLUE SKY Background Color	Sky Conditions		0	5	0	21	21			<u>. </u>	
		<i>>10</i> ->10	0	~ 1	\sim $ $	5	22	. [. 1		
Mind Speed - Wind Oliracijo	CLEAR II (I.e. from North to South)	->-	\mathcal{L}	0	\leq $+$						
ا سسسس است	EST	17			1	1	23		ļ	. 1	-
nbient Temperature Wet Temperat	ura Relative Humidity									<u> </u>	
• • •	*F	12				İ	24	1		1	- 4
COMMENTS:		Average C	pacity				Range of C	DEC IV	Fancir		
LT. BROWN DU	ET EMISSIONS			5			Min.:	(2)	_	110	~
		CREEKA	R (pine	s prin	t)		·				
FROM MODERA	· L	Name	Kic	HAR	zn C	05	A Title	EN	161 <i>n</i>	IEE	R
•		Signature		7		10	Date ·				
	Į Į		\mathcal{L}	قد0	24 -		_2	15	-0	5	
N.W.S HIGHEST G	UST CLE MOU	Organizati				١	artificatio	n Date		,	7
-				<u>S </u>				<u> </u>	OI	2	
Draw Arrow in North Direction	Convéyer BELT		IMPO	DRTA	NT: Ph	easa i	ndi cate ti	he foll	cwing	by sk	etch:
	7361-						•			•	
Ein .	1				مسر	٠٠٠,					
	<i>(</i>)				1.00	نتخ	Plum	e Dinec:	tion		
					5	_				-	
SOUR	CI				`O.	,	Sun				
· · · · · · · · · · · · · · · · · · ·		,			<u> </u>	1.					
-	•				Ť		North				
1	•				•						
			-				٠.				
-	· ·		1 2	cknov	viedge i	acaiz	t of a. co	by of	chase	711111111111111111111111111111111111111	
Ole Cole	boerver's						ervations				
- 	Position		1		,	1					4
			Sign	nattire:		يمغريا	2/4)	M	- 20		
			,								1
		•	Thu	e:							
						i					
		_	Den	×			<u> 7 - 0</u>	6			ł

VISIBLE EMISSION O	BSE	RV	ΑTI	<i>IOI</i>	V F	-OR	M	•		
Environi RECORD OF VISI	mental In					OPAČI	ITY:			
EACH _ DANGOWOT	-	. •		,		3	. , .		-	
ASPHALT PLANT	1	KCH.			- 1	ART TH			TIME	•
Type of Source.	Min.	0	15	30	45	Min.		15	30	45
ASPHACT PLANT BAGHOUSE Describe Emission Point (top of stack, etc.)	1	0	0	0	0	13				
TOP OF SHAKER	2	0	0	0	0	, 14		-		
Height Above Ground Level Height Relative to Observer 40 Feet S5 Feet Distance from Observer Direction from Observer	3	0	0.	2	Ö	15				
30 Yards NORTH	4	0.	0	2	0	16	1.	-		ĵ
Looping Faming Coning Furnisation	5	0	0	0	0	17		-		
WO EMISSIONS Continuous Fugitive Intermittent Water Droplets Present?	6	0	0	00	2	18 '				
ST-NO YES If YES, droplet plume is Attached Detached At what point in the plume was opacity determined?	7	-		-		19		. '-		
12"-TO 14" AROVE EMISSION POINT	8					20 •				
PATTLY CLOUDY (P.C.) Background Color Sky Condition	9		- [:	<u> </u> -		21	- 1			
PC - TUNE SKY PC Wind Direction (LA from North to South)	10					22	•		-	
mph	1,1		1			23	-	.		-
COMMENTS:	12					24				
NO VISIBLE EMISSION.	Average CD	.(0		F	Mina.	Operaty	Max.:		
FACILITY WAS OPERATIVING					057,	A Title	<u>~</u>	. : : 1520	VEET	<u> </u>
NORMAL.	Organization		ZA.			3-2	20	06		_
Draw Arrow in	KSC 2-1-0									
North Direction		IMPO	RTAN	T: Ple	asse in	dicate t	he folk	wing	by ske	nch:
(7) KSHAKER				کیک		Plum	e Direct	ion '		ē
SOURCE				, O,		Sun	,			
				- , - <u>†</u>		North	-		•	

I acknowledge receipt of a copy of these visible emissions observations. K SUN EIO 009 (mued 1/85



ASPUNT PLANT		ORSER			-		TART TIM	E .	STOP	TIME	٠,
LOCATION ASPHALT PLANT	· · · · · · · · · · · · · · · · · · ·	MAA	<u>CH -</u>	20 غ	1006		1:09	Pm	1	15 F	2777
JA3 33-TA-6-7		Min.	0	15	30	45	Min.	. 0	15	30	41
Type of Source. Type of Control Equip							-				_
ASPHACT BACHOUL		1.	<u>(U)</u>	U	0	10	13				ĺ
	ACK)	2			~						·
TOP OF TRANSMISS CXHAN	<u>757</u>	<u> </u>	14	\subseteq	\mathcal{Q}	\cup	. 14				
and the same of th	OFeet	3		(2)	1	0	15		.	:	1
Distance from Observer Direction from Observe	-										
30 Yarda NORTH		. 4	0	0	0	0	, 16	.		- 1	
	Trapping	. 5								-	
Looping Fanning Coning Furnigations.	tion			0	0	\bigcirc	17		.		
700,00		6	أخبرا						- 1		
O E M S O Continuous Fugitive	ntermittent		4	의	\mathcal{L}	\subseteq	18 '				
Ø-NO ☐ YES If YES, droplet plume is ☐ Attached ☐	7 Danishard	7	.		.	1	19	1			
t what point in the plume was opacity determined?		·									
2"TO 14" ABOVE STACK OUTCE	€7 .	8	1			.	20	.			
escribe Background (Le. blue sky, trees, etc.)			$\neg \uparrow$	 -	. +			-+	-		
PARTLY CLOUDY (PC) sckground Color Sky Conditions		9		-			- 21	.	1		•
PC-TYLESKY PC.	1	10							7		
nd Speed Wind Direction (i.e. from North to Sout	th)						22				
mph	,	13		.	Ì	- 1	23			.	-
nbient Temperature Wet Temperature Relative Hui	midity ·			- -				-		<u>- </u>	
omments:	*	12					24	- 1		-	
	^	verage Cp:	city			1	lange of C	pacity	Resoln	gs .	
NO VISIBLE EMISSIONS		BLEXVE	<u> </u>				Min.:	<u> </u>	Max.	$\dot{\circ}$)
FACILITY WAS OPERATING	ĺ	Name: 7				~_	- A Tirl-	سر			_
•	- si	gnature .		-	<i>1)</i> (<u> </u>	TA Titles	-/10	<u> </u>	<u>E</u> E1	5
MORMAC.				X		ĺ	3-2	0-	0	<u> </u>	
	o/	rgiin izatioi				- 0	- nues non	- mate			一
D			<u> </u>				<u> </u>				
Draw Arrow in North Direction	•		IMPO	RTAN	IT: Pi	2850 ii	dicate th	e folio	wing	by ske	itch
										•	-
FROM BAGHO				•			•				
DAGNO	V1 5 C			•		سن	Plume	Directi	on É	•	
SOURCE				•	· O	_					
30002					\cup)	Sun				
	,			~	†		North			•	
				-	.1						
							٠.	-			
		Ī	/ aci	knowi	agre	acein	of a.cop	V 0+ ++) e're	,	\neg
Observer's		ļ	nsi	le em	izzion:	COSM	retions				-]
Position										- '	
\mathcal{A}			Signa	munic		1		w	\leq	7	
		-	•				•				
			Title	·							
		_	Dates	:	7- 2	20	-06				
SUN >	` `	_	DEUK								1

EID 009 | EU-0 1/85

		L LIVIISSION O	DSE	ΛV.	HI	10	IV F	-UK	IVI	٠		
- 111		Favira	ımental lı	ń new e		• m=.	_:					
-	- '	RECORD OF VIS	UAL DE	TERM	HNΔ'	TIÓN	21OII	OPAC	!T~			
FAUX DIVINO-HIDIT					******		Ο,	Of AC	117		, ,	•
TURCE,	·		CESE	RVATIO	N DAT	· E	i ser	TARTTI			<u></u>	,
<u> </u>	LT.	PLANT						246		510	PTIME	· .
LOCATION	- 7 -	= 07C-01.60	5.0	e 0	1.	1 -	ĺ	Sac	-	+~	جب	<u> </u>
Type, of Source.	<u> ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~</u>	Type of Control Equipment	Min.	7,	15	30	45	Min.	0	15	30	45
ASHALT	•	173AGHOWE	. 1	10	0	0		13				
Describe Emission Point		etc)		+=	1	\vdash	10		+-	-	1-	
Height Above Ground L	IER 1		2	0	0	0	0	, 14			-	
	Feat	Feet	3	0				15		T	1	
Distance from Observer		Direction from Observer		<u></u>	ان	()	٧	13	╀┈	 	 	
30_	Yarcıs	RESOUTH NOUTH	4	0.	0	-	0	, 1 6				
Description of Plume (sta	nning	Coning D Furnishing	5	1					T			
Emission Color	Plume Type	Coning Fumigiation		101	\mathcal{O}	21	2	17		<u> -</u>		
NONE Water Orpoiets Present?	Contin	uous 🗆 Fugitive 🗆 Intermitment	6	0	0	0	0	18	ļ .	-	.	
DENO YES IT	YES, dropier p	iums is Armched Deteched	7	.				19				
At what point in the plum	e was opacity o	1 BOVE SOURCE	8					20		•		
Cescribe Background (Le.	DIU# SKY, trees,	etc.)	1	\vdash		- +		20 •				
C/Em	BLUE	SKV	9		1	. -		. 21	٠. [. [· .]
Beckground Color		Sky Concitions	10					22		-		
Mind Speed	Wine Director	(La. from North to South)	1		-+							<u>- </u>
mph nplent Temperature	Wet Temperatu		. 13		<u> </u>	.]	_ /.	23 .	1	ļ	٠. ا	- []
•€	same : mitthetifin	Reside Humidity	12					24			1	
COMMENTS:	·		Average Ot	a city				ange of C	Dancetv	Barri	-	
NO VISITS	UE E	MISSIONS			0			Min.±	\bigcirc	Max	-)
	•		CREERVE				7		,,,			
SOK 107	13 mo	DIST W/FROM	Name: Signature	1015/4	rri)	كك	25.72	Title	410	1210	ER	
Now				1	ن ک	177		,	•	_		
Siow	200	· ·	Cryanizatio	ut).			C	#Uficatio	n Date	-		
Draw Arrow In North Direction		Tauracca		IMPO	RTAN	IT: Pic	ezse în	dicate t	he foll	cwinn	hv eks	
Bu	$ \mathcal{P} $	OVEYER BELT	• •			٠.		•			-,	
		- Duri			-	1		٠				
	سيردا				•	-		Plum	e Direct	ion		
	SOURCE					O.	`	Sun				_
	1.			•		~ ⁻)		,			,	
				•		1		North				
1-					-				-			
	ſ			1 206				of a cop				
	O C	erver's						or a.co; vations.		nese		
A A STATE	*	Position					م برد	1.1				
	71			Sign:	ture:	C.F.	a policy of	700			-	
			-	: Tital		-						
	1						<u></u>				William Laboration of the Control of	
_	1			Pinene			- /- 1	41	n _			i

	Environm								•		
	RECORD OF VISU	AL DE	ERM	INAT	ION	OF	OPACI	TY		· '.	
	FAITH DAY COMMON	•									
	JURGE / C P / L	CESER	VATIO	N DAT	E	51	ART TIN	AE .	STOP	TIME	
	ASPHALT PLANT	ATI	316	6- 2	200	6]	11:17		11		3 1
		Min.	0	15	30	45	SOE	a	15	-	45
,	Type of Source. Type of dontrol Equipment	10-112.	}—			-	Min.	-			
	ASPHALT PLANT TRACHOUSE DESCRIBE Emission Point (top of stack, etc.)	1	0	0	0	0	13				
	TOP OF SHAKER Height Above Ground Level Paight Relative to Channel	2	M	Ò	0	0	. 14				
	Height Above Ground Level Height Relative to Observer 40 Feet	3		9			15				
	Distance from Observer Direction from Observer	1		()		믯	19				
	Description of Plume (stack exit only)	4	0	0	0	0	, 16 ,	<u>. </u>			1
	Looping Farming Coning Furnigation	5	0	0	01	0	17			ļ	,
	NO FMISSIONS Continuous Fugitive Intermittent	6	in	0		7	780		- 1	-	$\neg \neg$
	Water Oropiets Present?	-			- 1	\dashv		 			
	M-NO TYES If YES, droplet plume is Attached Detached At what point in the plume was opacity determined?	7	·				19		• 1	·	
	12"-TO 14" AROVE EMISSION POINT Describe Background (Le. blue sky, trees, etc.)	8		.			20	Ì	•	1	
٠	Describe Background (La. blue sky, trees, etc.)	9	1	1.			- 21				_
	Background Color Sky Conditions		-		-+				-+		
	Mind Speed Wind Direction (i.e. from North to South)	10					22				
	mon SEE ATTICHED WICKTIFE	13		·			23			.]	-
	nblent Temperature Wet Temperature Fautive Humidity STATS, %	12	•				24	<u> </u>		-	
-		Average Op	a city				ungs of C	1	Espais		
^	NORMAC CREMITIONS. NO	~ () -			1.	Mina (ر _{ون} دعت ۱۳۰۳	Max.		
		CHERVE						<u> </u>			_
	EMISSIONS NOTED.	Name:	KICH.	MA	\bigcirc	-77A-	Title	:E_1	G/2	Χ	
1	ROADS WET FROM SNOW. T		- ()	マンプラ	.		-215			בי <i>וציו</i> ק ב	/
İ	Ī	Ofganizatio		, <u>, , , , , , , , , , , , , , , , , , </u>		ć	APRI.	n Data		رب.	
Į			<u> </u>	<u></u>			_2	- /-	-0	6	
	Prew Arrow in North Direction 107 0 F		IMPO	TATR	IT: Pie	esse in	diczn t	he folk	gniwe	by ske	nch:
	SHAKER				 عسم						•
	(7)				Chi		Plume	e Direct	ion '		
				•	5	٠.					
	SOURCE			•	رب)	Sun				
					1		North				
				•							
			/ ac	knowi	edge i	eceipt	t of a.cop	ov of t	hase		7
	Choever's Position		NE	ble em	ission	obse	rvations				
			Sign		L	lø,	49	6	2		
	// 							-			
		_ ,.]	Titia								ĺ
_	SUN	_	Date	:	1-	<u> </u>	-06				
36	0 089 Issued 1/85					· · · · ·					

lb_						-			-	
	mental li					-			,-	
RECORD OF VIS	UAL DE	TERM	INAT	TON	OF	OPAC	ĮŢΥ		. '	
PATTA DANKO-MOT		. •						•		
ACDUALT DIAGE	*1	OTTAVI	N DAT	E .	15	TARTTI			TIME	•
LOCATION	5		بخستم	(20)	61/	Suc	SAM	11	29	120
Type of Source.	Min.	D'.	15	30	45	Min.	. 0	15	30	45
ASPHALT BASHOUSE	1.	10	0	0	0	13				
Describe Emission Point (top of rack, etc.) (STACK)	2	19	~	-			1.		 	
Height Above Ground Level Height Relative to Observer	 - - - - - - - - - 	0	0	\mathcal{O}_{\parallel}	<u></u>	14-	 			
Distance from Observer Direction from Observer	- 3	10	0	0	0	75			;	-
30 Yarde NOTETH	4	0	0	0	0	., 18	1.		,	-
Description of Plume (stack exit-only)	5			<u></u>		17	1- 1			
Emission Color Plume Type	<u> </u>		9							
NOEMSSINS Continuous Fueitive Intermittent	6	0	0	0	9	18 '				
☑NO ☐ YES 'H YES, dropler plume Is ☐ Attached ☐ Detached	7	-		-		19				
At what point in the plume was opacity determined? 12" TO 14" ATOUE COACK Cascribe Background [La. plue sky, trees, stc.]	. 8		-			20				
Cascribe Background (La. blue sky, trees, etc.)	g			1		20		-	+	\neg
Beckground Color Sky Concitions	1 -			_		. 21				
SCUE SKY SOME CLOUBS Ning Speed Wine Direction (La from North to South)	10					22				
	1 1	· 1		- 1	ł	. 1	- 1		1	-
mph	13	-]	1.	.]	. 1.	23	Ì		٠]	- [
nbient Temperaturs Wet Temperature Relative Humidity	13	-					1		-	-
nbient Temperature Wet Temperature Relative Humidity of STATEST STATE		acity				24		Readin	-	
nbient Temperature Wet Temperature Relative Humidity of STATEST STATE	12 Average Co		3-	And the same of th		24		Readin Max.		
nbient Temperature Wet Temperature Relative Humidity %	72	R (piess	3-			24 ange of C	pacty	Max.	0	
nbient Temperature Wet Temperature Relative Humidity of STATEST STATE	72 Average CD	R (piess	7		ora.	24 ange of C		Max.	0	
nbient Temperature Wet Temperature Relative Humidity of STATEST STATE	12 Average Co Caserve Name	RICAL		G	ora.	24 iange of C	pacty	Max.	0	6
nbient Temperature Wet Temperature Relative Humidity	Average Cp CBERNYE Name: Signature	RICH	1050	G A		24 Min.: (Title ate APRI	Control Contro	Max:	eer loc	6
nbient Temperature Wet Temperature Relative Humidity COMMENTS:	Average Cp CBERNYE Name: Signature	RICH	1050	G A		24 iange of C	Control Contro	Max:	eer loc	6
nbient Temperature Wet Temperature Relative Humidity X	Average Cp CBERNYE Name: Signature	RICH	1050	G A		24 Min.: (Title ate APRI	Control Contro	Max:	eer loc	6
nbient Temperature Wet Temperature Relative Humidity X	Average Cp CBERNYE Name: Signature	RICH	1050	G A		24 Min.: (Tirla ste APRI artification to dicate to	Control Contro	O'CO'C	eer loc	6
nbient Temperature Wet Temperature Relative Humidity COMMENTS:	Average Cp CBERNYE Name: Signature	RICH	1050	G A		24 Min.: (Title site APR/ eruffication Plums	C / Lord Date	O'CO'C	eer loc	6
Draw Arrow in North Direction Draw Arrow in North Direction Draw Arrow in North Direction Draw Arrow in North Direction Draw Arrow in North Direction Draw Arrow in BAGHAUSE	Average Cp CBERNYE Name: Signature	RICH	1050	G A		24 Lange of C Min.: (Tirle ste APR eruffication Plums Sun	C / Lord Date	O'CO'C	eer loc	6
Draw Arrow in North Direction Draw Arrow in North Direction Draw Arrow in North Direction Draw Arrow in North Direction Draw Arrow in North Direction Draw Arrow in BAGHAUSE	Average Cp CBERNYE Name: Signature	RICH	1050	G A		24 Min.: (Title site APR/ eruffication Plums	C / Lord Date	O'CO'C	eer loc	6
Draw Arrow in North Direction Draw Arrow in North Direction Draw Arrow in North Direction Draw Arrow in North Direction Draw Arrow in North Direction Draw Arrow in BAGHAUSE	Average Cp CBERNYE Name: Signature	RICH	1050	G A		24 Lange of C Min.: (Tirle ste APR eruffication Plums Sun	C / Lord Date	O'CO'C	eer loc	6
Draw Arrow in North Direction Draw Arrow in North Direction Draw BAG HAISE SOURCE Relative Humidity Rel	Average Cp CBERNYE Name: Signature	R (please RICH) IMPO	RTAN COMME	T: Pie	aceipt	24 January of C Min.: (Title are APR / Hums Sun North	Disectory of the	Mex.: Control	eer loc	6
Draw Arrow in North Direction Draw Arrow in North Direction Draw Arrow in North Direction Draw Arrow in North Direction Draw Arrow in North Direction Draw Arrow in BAGHAUSE	Average Cp CBERNYE Name: Signature	R (please RICH) IMPO	RTAN COMME	T: Pie	aceipt	24 Janes of C Min.: (Title ate APR/ ATURIO Be dicate to Plum Sun North	Disectory of the	Mex.: Control	eer loc	6
Draw Arrow in North Direction Draw Arrow in Sq. STACK Source Source Comments: Comme	Average Cp CBERNYE Name: Signature	R (please RICH) IMPO	RTAN nowle emi	T: Pie	aceipt	24 January of C Min.: (Title are APR / Hums Sun North	Disectory of the	Mex.: Control	eer loc	6
Draw Arrow in North Direction Draw Arrow in Sq. STACK Source Cobevers Position Cobevers Position	12 Average Co CREERVE Name: Signature Committee	R (please R) CALL (P)	RTAN nowle emi	T: Pie	aceipt	24 January of C Min.: (Title are APR / Hums Sun North	Disectory of the	Mex.: Control	eer loc	6
Draw Arrow in North Direction Draw Arrow in Sq. STACK Source Cobsers: Position Cobsers: Position Cobsers: Position	Average Cp CBERNYE Name: Signature	IMPO	ATAN INDOMÍNICA CONTRACTOR CONTRA	T: Pie	asse in	24 January of C Min.: (Title are APR / Hums Sun North	Disectory of the	Mex.: Control	eer loc	6

Environm	nental Ir	nprove	ement	Divis	ion					
FUIN PRINCE P	AL DE	LEHM	INA	IUN	U +	OPACI	TY		- ′	
LOCATION PLANT	CBSEF APK			-		854	AM	į	TIME	٠.
Type of Source. Type of General Equation 1	Min.	0	15	30	45	Min	. 0	15	30	45
Type of Control Equipment' RAGHOUSE Describe Emission Point (top of rack, etc.)	1	0	0	0	O.	13				
CONVEYER TIGET	2	0	Ó	0	Ö	, 1 4		,		
5 Feet 5 Feet	3	0	0	0	0	15			;	-
Distance from Observer 3 O Yards South North	4	0.	0	0	0	,- 1 6	-			
Description of Plume (stack exit only Lotting	5	0	0	0	0	17				
No Emission Color Plume Type V. A. No Emission Continuous Fugitive Intermitment	6	0	0	OK	J	18	· .	•		
Water Oropiets Present? MENO ' YES H YES, dropler plume is Attached Detached	7		-			19	•	-		
At what point in the plume was specify determined? 12" TO 14" ATONE SOURCE	- 8					20				
Describe Background [Le, blue sky, treex, etc.]	9		.			21	- 1		.	
Beckground Color Sky Conditions Sky Conditions Sky Conditions Sky Conditions	10		. -	1,		22	- 1		• •	1
mph See ATTACHED MET	13		· .			23		·		
comments:	12	· .				24	-			1
	Average Cb	-	> -			Min.:	Decty 2	Keacin Max.	-	
	Name		print!	a C	- 2a		Ex	2/4	EER	
	Signature		TA.			PRI	C-/	0	200	2
	(A	<< <				ruffica tion	n Date	0	/	
North Direction OF ERATION.		IMPO	PTAN	T: Plex	esa in	dicate th	e folio	wing	by ské	ich:
(1) BING 70						Plume	Dinecti	on. ′		
SOURCE D			. (Óζ		Sun				
Conveyer	₹ -			1	:	North				
	_				~					
Choerver's						of i.cop vations.	y of t	es e	-	
Position		Signa	nun: <	Ch	- #	7	96		-	
SUN	-	Tries	-			-				
		Dates		1-1	7-	06				de la laboración de la companyon de la company
069 issued 1/88	L	·								1

Opr 6



TANK - ENROWOR .			THE OF THE	ML DE	i munia	MM	IUN	U+	UPACI	- -	-	- '.	,
ASPH.	167	PCAN	7	1	VATIO		E 200	ا د	TART TH		1	TIME	•
LOCATION	L-3-		11-60-RC	-		15		45	Sec.	0	15	30	45
A SPIALT Describe Emission Point		13A	SHOUSE	1	0	0	0	0	13				
Height Above Ground L	OF.	SHAKO	517	2	6	0	0	10	. 14				
40	7 Feet		40 Feet	3	0	0	0	0	15			;	-
Distance from Observer			TOTO Observer	4	0	0	0	0	, 16				
	enning [Coning	Lofting Trapping D Furnipation	5	0	0	0	0	17				
MONE	Plume Type Conti		ve iugitive 🗆 intermittent	6	0	0	0	0	18 '		-		
Water Oropiets Present?	YES, droplet	pluma la [Attached 🗀 Detached	7	5	0	0	0	79			-	
At what point in the plum 12" TO Describe Background (Le.	4" A	3006	SOURCE	8	0	0	0	0	20 ·			\exists	
			CLOUDS	9	0	5	0	0	21				
			North to South)	10	0	0	0	0	22	-			
mph mblent Temperature	Wet Tempera		:	11					23		1		-
*F	Wet / Willipera	•£	Relative Humidity	12					24				,
NOVISIBLE	E Em	15510	vs- Very	Average C	(0			Range of C Min.a. (pacty		:5	
WINDY-F	ACIC	170	PETRATING	Name						EN	2/246	an	
NORMAC.		·		Organizatio		(a	K772-		M/A	Y:	3 (06	
Draw Arrow in			-		KS				_2	-/-	0	5	
North Direction					IMPO	RTA	NT: P	lease i	ndicate ti	he folk	owing	by ske	nch:
(4)		107 7 SH	OF AKER				<u>~</u>		Plum	e Direct	ion '		
	SOUP	ca]					0,)	Sun				
			•			٠.	1		North		_		
		boorver's	•		l ac	know	iedge	receip	t of a cop	by of t	hese		
		Position	OBSERVE		Sign		16	Ex C	MICHAEL CONTRACTOR	S			1
		ξ×	SUN	:	Title	:							
	1	•		_	Dete		<u>5</u> -	20	عر ۞ ~	-			

Opi6 Form



Ivan boundmen									٠.		•		• .	
TURCE		_	·		ORSER	OITA	N DAT	E	5	TART TIM	12	STOP	TIME	<u>.</u>
. A < PHA	UT 7	CAN	7	,	mA	Y (01 :	7 (7)	61	0:11	im	1	1:2	i Am
LOCATION		-		,	5					Sec	Ť	 		
7/	-33	- //	4-60-7	てせ	Min.	0	15	30	45	Min.	. 0	15	30	46
Type of Source.			ntrai Equipment		START									
ASPHALI	<i>7</i>	TRAC	HOUSE		1	0	0	0	0	13	1			
Describe Emission Point		etc.)			1		1	Ī		 				
TOP OF	BAGH	DUSE			2	0	0	0	0	, 14	1			,
Height Above Ground La	vel		tive to Observer							 				
25	Feet		20 "	aut.	3	0	0	0	0	15			4 -	
Distance from Observer			om Observer		1									
30	Yarda	NO	1271		4	0	0	\mathcal{O}	0	, 16	,			
Description of Plume (sta	ck exit only)	. 0 7	ofting Trap	ping	T				_					
☐ Looping □ ○ □ CF a	inning 🗀	Coning	C Fumigation		5	0	0	0	5	17		-		
Emission Color	Plume Type	2/02	Æ		er?									
NO EMISSION	Contin	Uour 🗀 Fu	E Igitive 🗆 Intermit	Tent.	6	0	0	\circ	0	18 '		1	l	
Water Droplets Present?	`						_		_			1	. 1	
NO TES H	YES, droplet p	lume la 🖸	Attached C Desse	ched	7	0	0	0	0	19		1		
At what point in the plum			* _					_ [•	T	
2 TO 14 Describe Background (i.e.	AROL	VE 57	ACK EX	1T	8	0	0	0	\mathcal{O}	. 20 ·				
					9	~ T	[1					
BACKGROUNG COLOR	Some	<u> </u>	onos		_ =	0	5	0	0	21	*			
Sackground Color		Sky Conditio	ons			0		\sim	2					
					10	\mathcal{O}	0	0	0	22	·			
Mind Speed	Wine Directio	in (l.s. from ?	orth to South)		11	- 1		. 1	1	23				
mph	Wet Temperat		P				<u> </u>		<u> </u>				•	•
nblent Temperature	AAAT LAMBORING	•#	Relative Humidity	*	12				- [24	}			
COMMENTS:					Average Of	os city		<u>-</u>		Range of	Opacty	Readt	ngs	_
Ven	-/25/-	No	5m/5511	ای رود	20	<u> </u>	MAN	- 1		Min.:	0	Max	: 5	
very wil	107	7,40			CHEERVE	R (pie	we prin	m _	7					
VERY WILL	WAS	076	アハアから	1	Name:/	KICH	IARD	<u>(</u>	257/	- Titk	5	512	CER	
		,		1	Signa tura	_	,		. [1	Date	*			1
NORMAL.				ļ.			050							
			-	ļ	Organizatio	эп У	- 1) '	Cartificati	on Data 7 ^ /		/	***************************************
						Δ	٦ ـــ							
Draw Arrow in North Direction		<- <u>/-</u>				IMP	DRTA	NT: F	le ass	indicate "	the fol	lowing	by sk	etch:
	_	<u> </u>	4 / 1000 1 %						ســـــــــــــــــــــــــــــــــــــ	-				
	<i></i>	ي الم	TACK IM HOUSE			•			ر ۽ ج	į.				
(T)	(N)	1 3						٠.٠		Plun	ne Direc	noir		
\checkmark		<u></u>						く	\ <u> </u>					
	SOUF	rcz	•					ال	<i>!</i> \	Sun				
C 1 1 11 11	<u> </u>								J					
	1							- 1		Nort	h			
			•				-	,						
\backslash	. 1.													
, "	ľ		٠			12	ckno	viedas	recei	pt of a.c.	opy of	these		
	lo	beerver's "	_							ervagion		-		-
•	<u>بلر</u>	Position	•)		**		-		, ·	11-1	250			
		///				Sig	nanye	: <i>L</i>	201		76			
<i></i>		$\mathcal{L} \mathcal{L}$	>	, <	ur .		_	-6						
///	1	スペ	/			772	ie:			····				.
		- •		> <	_									
			*			Den	t#:	<u>5</u>	2	<u>0 - C</u>	40			.
			-0>		į			····						_].
089 (street 1/85	•		Ŧ O											

Op16 Form

•	للــــ
	_ff
	The F
	1111

			RECORD	OF VISU	AL DET	TERM	INA	FION	OF	OPACI	TY		٠.	
ENTH DANGOWOII														
TURCE A C D LI	415	D . 1	ــــــــــــــــــــــــــــــــــــــ		OBSER				1	ART TIM		STOP	TIME	
LOCATION	<u>467</u>	161	/V/		KN A	<u>γ</u>	<u>ز / دِ</u>	رعم	5 1	1112	<u>AM</u>	11.	22	AM
Type of Source	<u> 33</u>	工人	- 60)	·RC	Min.	0	15	30	45	Min.	0	15	30	46
ASPHA	LT		GHOU.		1	5	15	20	10	13				
Describe Emission Point	(top of stack, e	rtc.)				1—	+	 ~	10		-			
CONV		BEL			2	20	10	30	40	14				•
Height Above Ground L	Fear	Haight Rei	ative to Obser	rer Feet	3	25	30	40	40	15				
Distance from Observer	Yarde	1	om Opperver		4	40	50	40		16			Ŧ	•
Description of Plume (sta		Coning	ofting [Trapping	5	2/2	2	-20	(الرواب	17				
Emission Color	Piume Type				1 _		~							
Water Dropiets Present?	Contin	uous D F	ugitive X in	termittent	6 57A6	5	5	10	5	18 ']		
At what point in the plum	YES, droplet p	iume la C	Attached	Detached	STAR	ઈ	10	5	5	19		•		
Describe Background (Le.			DURC	E	8	5	0	5	5	20 ·				
CCEAR	737	<u>(1E-</u>	30me	Circo	9	5	0	5	5	- 21				
Background Color BLUE	7	PART	CU	MOY	10	5	5	5	5	22	-			
Mind Speed mph	Wind Direction	n (l.s. from	North to Sout	th)	11				_		- i		_	
apient Temperature	Wet Temperati	ure	Asiative Hun	nidity	END	0	5	5	의	23			-	
•\$		•F		*	12	0	5	5	01	24	1	1	-	
COMMENTS:		\			Average C	pa city	l¥	_		Range of (Opacity	Readin	igs .	
VERY WIN	oy -	UKY	COND	MONS	CREEN	· 63 . d m d m -		<u>Q</u> _		Min.:	0	Max.	:/0	
*	•				Name	72.	ess prin	· ·		77-14				1
				٠.	Signature	VIC V	<u> </u>		STATE) te	CNO	JNE	<u> </u>	
				ļ	1		é	TA	-	MA	y -	3 0	26	-
					Organizatio				-	MA				\neg
Draw Arrow in							<u> </u>				<u>~/-</u>			
North Direction			Conv	EVEN		iMP(ORTA	NT: P	lease i	ndicate t	he foll	owing	by sk	etch:
T B	IN	10	Conv	3647					سب	•				
(ケ)ち	مرجدات	L'A	<i>y</i>					٠,٨		Plum	e Direc	tion		
	SOUR	CE	.•					\mathcal{O}'		Sun				
								†	•	Norti				
				•				1			•	_		
				•		/ 2	cknov	viedge	лесвір	T of a.cc	py of	these		
	O	Position	1			•			_	ervations				
	0				į	Sig	raminé.	ff.	rle.	M)	14			
///		. `	_	_		The								
	人					1 170			***************************************	""·····	·			1
	△		6	SUN				<u>5</u> -	20	- 08	3			

-	_
,	6
de	O
/X`	
レ'	

4_b
1
7
111
7

-		Envi	ironme	ntal In	norova	ment	Divi:	ຕ່ວກ					
-		RECORD OF							OPACI	TY			
FACEL BANGOWIDE					. •							- ,	
TURCE /			·	OBSER	VATIO	DAT	E	51	ART TIM	Ε .	STOP	TIME	
ASPH	127	TCKYT	,	134	NE	2.	0	5 0	1:30	AM	91	36	M
= 74	2 7 -	TA-60 RC		1	0	15	30	45	Suc	0	15	30	45
Type of Source	<u> </u>	Type of Control Equipment		Min.	1			-	Min.	-			
ASPHALT PRO	DUCTOR	1 BIGHOUSE		K/ 1	0	0	0	0	13		C	> —	-
Describe Emission Point (to		•		2						1			·
Height Above Ground Level	SHAK	Haight Relative to Observer			10	0	0_	0	, 14	ļ			
. 40	Feet **	l		3	0	0	0	0	15				
Distance from Observer	Yarde	Direction from Observer		. 4			_		3.60				
Description of Plums (stack		<u>NNE</u> 			101	0	0	0	, 16 .	-			
☐ Looping ☐ Fano		Coning D Furniquetion	ung	5	10	Öl	0	0	17		.	1	•
	turne Type	NONE	1	√P 6					1		- 1	·	
NO EMISSION Water Droplets Present?	Continu	Bous D Fugitive D Intermite	ent 9		\mathcal{C}	2	0	\mathcal{Q}	18 (1	
ONO OYES HYE	S, dropiet pi	lume la 🔲 Attached 💭 Detect	had	- Y7		d	5 	_	19			· .	
At what point in the plume w	_		- 1	8	1	_	, 1		. 20		•		
Describe Background (La. blue	Sky, treat,	EMISSION POI	100	-	\dashv	4			20	-1			
CLEAR TSLI	1E S	< Y	`.	9	$\boldsymbol{\epsilon}$		• 十	-	. 21	.]	. [.	
Background Color	.	Sky Conditions		10		7			22	. 1			
Bing Speed Wil	nd Direction	CLEAR (LA Trom North to South)				\dashv	Ī						
3-07 mph	_5	<i>E.</i>		13	-1	a .	\dashv		23			٠. ا	
nblant Temperature We	t Temperati N. A	Paintive Humidity	*	12		<i>~</i>			24				
COMMENTS			A	rerage Op	»city				Cange of C	pacity	Rendli	1 G=	
MoV1 S 1 B 6 E	EN	USSIONS, TOT.	<u>کر :</u>		-) -			Mina. (\supseteq	Mex.	<u>:0</u>	
DB SERVATION	Time	E, 13min.	6	Name	* (pian	m primi		47A	Title	- /=_			
SPACITY THAN	46 7:3	30 TO 9:36 AM.	5	onature /	<u> Sicu</u>	1190	<u></u>	\$7A)ate .	·	SIN	cer	
*7 TO13 NOE	MISSIA	215 SEEN.			\subseteq_{i}		7			NE	<u> 3</u> (<u> 26 </u>	
	•		0,	panizatio مور تريخ	m < /			19	artifica tio	n Diti	0	/	
Draw Arrow in		_			IMPO	RTAN	JT. PI		ndicate t			<u> </u>	
North Direction							• • • • • •		INITERS L	two 1154€	nwin	DY 3K	srch!
		SHAKER					ہے		•				
								حــت	Plum	e Direct	ion (
(プ)	1						_						
	SOURCE		,			1	ó	^	Sun				
			-				Ó	ָ כ	Sun	•			
						1	Ó.	.	Sun				
				لد			Ó.†	(
				العملك		· nou-			North	-	-		
	Source			June 1						py of i	these		
	Source		· · · · · · · · · · · · · · · · · · ·	Juni [North	py of i	hase		Course Avances
	Source			Short [b/e em			North	py of i	hase		
	Source		+	Short .	vivil	nun!			North	py of i	these		The state of the s
	Source		4	Short	vivil Sign:	ole em	ission Ll	obse	North	py of I	these .		

	عللد	_
4.	#	T
		二二
	<u> </u>	
	477	

Environmental Improvement Division

	. *		RECORD (OF VISU	AL DE	TERM	INAT	ION	Ω£	OPACE	ry		,		
From Tensomon.									٠.	0.70.	• •		~	•	
)URCE	<u> </u>			·	- In news										
• " • "	HALT PLANT					DESERVATION DATE					937AM 9 42AM				
LOCATION	<u> </u>	, 2/1	/ 	a ' '	1/2	1110			6	751	am	9	<u>421</u>	m	
	- 7-	72	7A-60	"-RC	Min.	0	15	30	45		0	15	30	45	
Type of Source		Type of	Control Equipme			+	 	<u>!</u>		Min.			-	<u> </u>	
AS, PHA	17	173	AGHOU	< CC	1	. ~	10	-	ŀ	13	-	ے ا	b -	- "	
Describe Emission Poin		etr.)				 	<u> </u>						-	-	
TOPOF		<u> 2450</u>	EXH	WST	2	1 -	19			, 14				!	
Height Above Ground	Feet .	i might Ri	elative to Observe	w '_	3	1 .				·					
Distance from Observer	,	Dimerin	from Observer	Feet	1	$\perp -$	19			15				-	
70	Yarda	1	INE		. 4		1	_	-	16		, ,		-	
Description of Plume (s	1	VUVV		Trapping	5			2 _		17	- +				
Emission Color	Plume Type	7.7.7	C Fumigation							- '/	-				
NO EMISSION Water Oropiets Present?	Conti	LIOUS D	ugitive 🗆 inte	rmittent	6		4	2 -		18 '			.	ا	
O-NO O YES H			Areched D	Desschad d	1104	0	0	0	0	19			· .]		
At what point in the piu			, 677K		8	~ 1	01	7	-, T	20 -	丁	•		一	
Describe Background (La	blue My, trees	. etc.)		·				-	\preceq		-			\dashv	
Backgroune Color	TELISE	Sky Condit	Y ions		9	<u> </u>	20	2	4	- 21	-		·		
KING Speed	Wine Cleans	C	North to South)		10	01.	00	2	2	22				.	
3707 mph	5,	T ILL HOM		, .	13	0	0	010		23				-	
nbient Temperature	wet Temperat	•E	Relative Humid	ity *	, P2	<u></u>	<u></u>		<u> </u>	24	\dashv	1	计		
COMMENTS.	. / V . / C	\ <u>``</u>	1850/5		Aiverage Ct	<u> </u>			4,		<u> </u>				
NO EMISS	ION D	URINI	6 77k	- '			5			Min_: (DIOM I	Max.	_	,	
17 min 07	BSERVE	B. 1	teru A		DEFERVE	A (Pies	= print)							
OPACITY TO	KST FX	em 1	77012 Z	06.	Name	Zisuz	T)		-50	Thries	En	(32 <i>n</i>	وشوستو م	æ	
					Smature		7			ate (
				` <u> </u>			ŹS 11	1_		Vie	16	5	0	6	
•				١	Manizatio	•	<i>y</i>			- Vince tion	Date	. ^	1		
Draw Arrow in		^			_/\	>د.				_<		.0	6		
North Direction			,			IMPO	RTAN	T: Ple	enso ir	idi cae u	e folio	wing	by sk	arch:	
			STACK 1		.,		,,							-	
(4)		7	BISHOW	155.			•	C.C.							
	11		-				`	_		Plume	Directi	an '			
\smile	SOURC	,		•				0	`	÷					
1	-			· . · .	•			ر ``)	Sun					
V				2 -	4.			+		North			•		
	1		× -				٠.								
I. \\					أم				***	٠.	-				
$1 \cdot \lambda$.				ا گرا	/ac	knowii	dge n	aceio:	of s. cop	v of if			7	
,	ОР	MYM'S			7	VISTE	le emi	ssions	obse	varions.		-	. •	-	
		Position	0	1	/			MI	11						
	//	//	_ I			Signa	rture: (1		-0	<u>Lee</u>			1	
/ /				-0	_	•			٠.	-					
			///	~ 1		Tittles					•				
	1				_	Desic		6	/	6. 6	0			ĺ	
	- 1				- 1									ı	

·	•												
	:		nvironm	en ci lle			Dia:						
= =	REC	ORD O	F VISID	PT DE	TEDM	HINETI TAIAT		CE	0040	!"T"\			
LAURI ENTROPHON					1 7-1 7141	11147	IOI¥	OΤ	UPAL	117		- ´	
TURCE		·	-		. `				<u> </u>				
ASPHALT	2/100		: :	ORSER	VATIO	_			TARTT			TIME	
LOCATION				Nº	4	~~	000	-1-		Am	9:	53	AN
113	3311	A-60	-RC	Min	0	15	30	45	Mire	. 0	15	30	45
Type of Source.	Type of Contro	Equipmen	1	7704	1	1			-	4	-	-	+
ASPANT PROB.	173/G/	lous	€ :	\$7,01	10	0	0	0	13				"
Describe Emission Point (top of stack,	72			2						1	1		<u> </u>
Height Above Ground Level	Height Relative	tn Chroner			10	0	0	$\underline{\mathcal{O}}$, 14			·	
5 Feet	5	,·· ·	Fest	_ 3	1	1	0		15			:	
Olmanica from Observer	Direction from			<u> </u>				<u>ر</u>		 			
3-5 Yards	NOR			4	0	C	0	5	, 16			٠.	
Description of Plume (stack exit only)	Lotting		rapping	5				\overline{a}	4-7	1.			
Emission Color Plume Type	Coning X	umigation				3 1	9	\mathcal{L}	17		·]		
LT. GRAY Commin	Dour D Fugitive	Mintern	nimon 4	m/6	0	.5	5	\bigcirc	18 1			.	-
Water Dropiets Present?			1				\dashv	\dashv		<u> </u>			
At what point in the plume was opacity of	lume is 🗀 Arts	ched 🗀 De	reched	7		-9			19		. 1		
14" ABOUC T		رسم جو ردر	_	8	1	(7)-	\dashv	T	20 -		•	\neg	
Describe Background (La. blue sky, from,	#C)	a c			-+	1			20	1			
CLEAN BLUC	SKY			9	- 1,	0	+		. 21		.	.	.
	ky Conditions					~ a -		+		- +			
Ning Speed Wine Direction	CLG	170		10			Ι.		22				. 1.
3-7 7 mph 56	The mon result	en south)	1	13	.	.			23		- [T	-
nbient Temperature Wet Temperatu	Po Finance	ive Humidit	y .			- -							
COMMENTS	F 1870	215	*	12					24				-
			_ A	Person Opi	T.		17 () F	ange of C			_	\neg
NOEMISSION E			c	BEERVE		Orinti	7.		Min.		Max	<u> 5</u>	
20% PERMIT 1	LLOW	ABC	€.	Name			6	-c-*- A	Tiria	EN	. • •		.
FACKITY IS CO			- 3	On A true	7			D	sta .	_ 	CAZZ	CEA	\vdash
FREILIT 13 C	770 PC11	134		Tentzettor	(0	50			Jus	CE 3	5	06	
AT THIS TIME.		•	.	// / / / / / / / / / / / / / / / / / /				- 0	runoto	in Date	0/	r	
Draw Arrow in	^					DT 43.0		' -			<u> </u>		
North Direction					::U	BIAN	i i Me:	RSO IN	dicare t	he folio	wing	by ske	uch:
HOT	10						غنر						
(4) 50	* Co	BAT				. '	بسمن	_∷∷	Plum	• Directi	~ ′		
	~	Bar				٠, ر	<u></u>						
SOURCE	<u> </u>	,					\mathcal{U}_{γ}		Sun				
			7				,	:	N				
		•				- :	1		North				
l.			. _	SUN.	•			~		-			
	Q^{-1}		سريكم	Γ	Lack	nowie	ane n	œint	of a.cop				7
Observ	rmer's 🏌		Ĭ						vetions.			. •	1
	Position		-	1		_	K	e y	10		.	•	
		-			Zibusi	rure: Z	-						1
					Title:		•						
		_		.	· sum				•	<u>-</u>			1 .
				_	Deter	6	<u>.</u>	6.	Cor	5			1

Attachment B Beryllium HEPA Filter Tests Results

Summary Table, Reports Attached

Unit	Date	Pass/Fail
TA-55 (H5-1430) (FF-852)	5/10/2006	Pass
TA-55 (H5-1440) (FF-853)	4/28/2006	Pass

TA55-TSR-104A-R01.1 Page 32 of 33

TA55-T 100 AREA GLOVED XIXHAUST IN-MACE HEPA FILTER TESTING

100 Area Glovebox Exhaust FF-852 Data Sheet

Date: 5-10- Calibration Expiration Date: 0:35-07 Expiration Date: 08-06-06 Ratio: 2100 (8.4.2)

	<u>(8.4.3)</u>	(8.4.4) (8.4.2)					
Step Number	ltem	FF-852 H-5-1430					
9.1.12.2	Background concentration (part./cc)	3.178XIO part. concentration					
9.1.12.3	Upstream concentration (part./cc)	2.521410 part. concentration					
9.1.12.4	Challenge aerosol concentration between 2.00 x10 ⁶ and 2.71 x10 ⁶ part./cc						
9.1.12.5	1 st stage downstream concentration (part./cc) 5-246×10 ¹ part						
9.1.12.6	2 nd /3 rd stage downstream concentration (part./cc)	3.884×10 part concentration					
9.1.12.7	1 st stage Penetration ≤ 5.0 x10 ⁻⁴ (efficiency ≥ 99.95%)						
9.1.12.8	$2^{\text{nd}}/3^{\text{rd}}$ stage Penetration $\leq 2.5 \times 10^{-7}$ (efficiency $\geq 99.999975\%$) $2 \cdot 80110^{-9}$						
9.1.13.3 9.1.13.4	Ensure all test port ball valves are closed	M m Initials Impapement Verification					

Valve	Required Position	Initials	Independent Verification
HV-852-H	Closed and Locked	MMY	RO
HV-852-G	Closed	mmi	10
HV-852-F	Closed	MW	m
HV-852-D	Closed	Mad	(d)
HV-852-C	Closed	mmy	LnA
HV-852-B	Closed	MWI	4
HV-852-A	Closed	mmi	60
HV-852-AA	Closed	Enm	MB

Comments:		
Surveillance Personnel Signature	OS/10/01 Supplifier Signature Date	- - - -

TA55-TSR-104A-R01.1 Page 33 of 33

TA55-TE 100 AREA GLOVEROLEXHAUST IN-PLACE HEPA FILTER TESTING

TACHMENT B 100 Area Glovebox Exhaust FF-853 Data Sheet

Date: UN/25/04 Expiration Date: 01/25/01 Expiration Date: 08.4.3)

LAS Calibration Diluter Calibration Expiration Date: 07/25/01 Expiration Date: 07/25/04 Ratio: 2100/1 (8.4.2)

(8	(6.4.3)	(0.4	.4)	(8.4.2)			
Step Number	Item	ltem					
9.2.12.2	Background concentration (part./cc)	0.0	part, concentration				
9.2.12.3	Upstream concentration (part./cc)	2.57x					
9.2.12.4	Challenge aerosol concentration between 2.00 x10 ⁶ and						
9.2.12.5	1 st stage downstream concentration (part./cc)		2,2261	(10 ²			
9.2.12.6	2 nd /3 rd stage downstream concentration (part./cc)		1.059)	part, concentration			
9.2.12.7	1 st stage Penetration ≤ 5.0 x10 ⁻⁴ (efficiency ≥ 99.95%)		8.661	X 10-5			
9.2.12.8	2 nd /3 rd stage Penetration ≤ 2.5 x10 ⁻⁷ (efficiency ≥ 99.999	9975%)	4.132	x 10-9			
9.2.13.3 9.2.13.4	Ensure all test port ball valves are closed	Initials	M MJ Independent Verification				

Valve	Required Position	Initials	Independent Verification
HV-853-H	Closed and Locked	PT	mmi
HV-853-G	Closed	アナ	mmi
HV-853-F	Closed	PT	MM
HV-853-D	Closed	ŹТ	mmi
HV-853-C	Closed	77	MIN
HV-853-B	Closed	アナ	month
HV-853-A	Closed	PT	mm
HV-852-AA	Closed	アナ	mmi

Comments:			
Surveillance Personnel	Paul Znielle 43806 Supervisor Signature	Signature	4/25/4 Date

Attachment C Boilers and Heaters Natural Gas Usage

2006 TA-21 Steam Plant Data Entry / Fuel Use

		Monuny ruel Use					
	TAZ	N-214357	Converted		Natural Gas Use	Fuel Oil Use	
	Natural Gas	Fuel Oil	Natural Gas		12-Month Rolling Total	12-Month Rolling Total	
Month	(MCF)	(gallons)	(MMscf)	Month	(MMScf)	(Gallons)	
January	4001	0	4.001	January	31.75	242	
February	3476	0	3.476	February	31.62	232	
March	3557	0	3,557	March	31.45	232	
April	2517	0	2.517	April	31.34	136	
May	2002	0	2:002	May	31.21	48	
June	1720 1/	70	1.720	June	31.38	œ	
July	Charles Colonial Res			July			
August				August			
September				September		ALAMANA MARIA PARTAMENTAN MARIA MARI	
October	100		43	October			
November			3	November			
December				December			
Annual Totals:	17273	0	17.273				_
Jan June	17273	0	17.273		Permit Limit = 60 MMScf/v	Permit Limit = 60 MMScf/vr natural gas (12 month rolling total)	lling total)
July - Dec.	0	0	0.000		and 10,000 gal/	and 10,000 gallyr fuel oil (12 month rolling total)	total)
						•	

Reviewed by/Date: Walt Whith 1/25/64

2006 Small Boilers Data Entry / Gas Use

		N	letered Boile	75				
			TA-55 Boller Gas Use (MSCF) ^(c)		Total Gas Use ^(a)		Non-Metered Gas Use	12-Month Rolling Total for
	Month	BHW-1B (B-602)	BHW-2B (B-603)	BS-1	(MSCF)	(MMSCF)	(MMSCF)	all Small Bollers (MMSCF) ^(*)
ŀ	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
ntry	May	578	1010		21,932	21,93	20.10	475.96
ш	June	242	910	1492	16,395	16.40	14,99	476.66
10	July			7777777		1		
Data	August		***************************************					
	September				1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	October					1	1	
	November December							
***************************************	TOTAL	7093	2112	1492	261,860	261,86	251,16	Permit Limit: 870

2006 Non Metered Boiler Pool Capacity:	306.1	MMBTU/hr ^(f)	
Estimated Gas-Use per MMBtu rating Jan-June:		0.82	MMscf/MMBtu/hr
Estimated Gas-Use per MMBtu rating July-Dec:		0.00	MMscf/MMBtu/hr
Estimated Gas-Use per MMBtu - Annual		0.82	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.

		Gas Use Non-Metered ^(g) (MMSCF)							
AIRS Stack #	015	016	017	018	019	020	021	024	Insignificar Units ^(h)
Location:	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
ID:	BS-1	BS-2	BS-6	BHW-1	BHW-2	BHW-1	BHW-2	Plant 5	Various
Design Rate ⁽⁸⁾ (MMBTU/hr)	5.336	5.335	7.140	7.115	7,115	5.335	5.335	12.700	251
Calculated Gas Use-Jan-June	4,379	4.378	5.859	5.838	5.838	4.378	4.378	10.421	205,696
Calculated Gas Use-July-Dec	0,000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Calculated Gas Use-Annual	4,379	4.378	5.859	5,838	5.838	4.378	4.378	10,421	205.696

Reviewed By/Date:

Attachment D
Carpenter Shop Hours of Operation

2006 TA-3 & TA-15 Carpenter Shops

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

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

TA-3	Data Entry
	Hours of Operation ¹
Month	TA-3
July	;
August	
September	
October	-
November	
December	
6 mo. Total:	0.00

TA-15	Data Entry
	Hours of Operation ¹
Month	TA-15
July	
August	
September	
October	
November	
December	
6 mo. Total:	0.0

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

Reference

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

Reviewed By/Date: Will With 7/25/06

> Attachment E Degreaser Solvent Usage

Degreaser Type

5.5

7.2

0.0

Solvent



RRES-MAQ Labylew

RISK REDUCTION & ENVIRONMENTAL STEWARDSHIP DIVISION

phone: 665-8855 fax: 665-8858 who we are

Degreaser Compliance Site

Historical Solvent Usage Data

The usage information for UT Bath degreaser from Jan-01-2006 through Jun-30-2006 is displayed below.

General Degreaser Information

TA

Building

Cold Ba	tch	55		Trichloroe	thylene
Date Measured	Initial Solvent Level (inches)	Volume Added (liters)	Level Added (inches)	Volume Removed (liters)	Level Removed (inches)
Jan-03-2006	6.5	0.00	0.00	0.0	0.0
Feb-01-2006	6.3	0.00	0.00	0.0	0.0
Mar-01-2006	5.9	0.00	0.00	0.0	0.0
Apr-03-2006	5.5	0.00	0.00	0.0	0.0

3.34

0.00

0.00

Change Selection	Vie	w Emissio	ns]	Main Menu
Problem Rep	ort	Exit A	pplicati	on)



Apr-10-2006

Apr-27-2006

May-01-2006

The World's Greatest Science Protecting America

Operated by the Los Alamos National Security, LLC for the U.S. Department of Energy's NNSA

0.0

14.15

0.0

0.0

7.2

0.0

Outside | © Copyright 2006 LANS LLC All rights reserved | Disclaimer/Privacy | Web Contact

Degreaser Compliance User's Guide

1.70

0.00

0.00

Page Last Modified: 29-Jul-2004 10:18

Attachment F
Internal Combustion Generator Hours of Operation

								First 6 M	onth Readin	gs 2006	Second 6	Month Read	ings 2006
TA	Bida	Manufacturer	MODEL	KW	Fuel Type	Reading Date 2nd half 05'	Reading 2nd half 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	100000000000000000000000000000000000000	k in diameter	
3	223	Onan Sons		45	Nat. Gas	Nov-05	469.1	Apr-06	473,2	4,1			
3	440	Cummins	500FDR5051	150	Diesel	Dec-05	98.0	Apr-06	114,5	16.5	607		
3	440	Cummins	DFGA-5005210	500	Diesel	Dec-05	42.9	Apr-06	60.7	17.8			
3	1076	Cummins	DGBB-5601289	35	Diesel	Dec-05	44.5	May-06	80,6	36.1			
3	1404	Cummins	DFLC-5554001	1250	Diesel	Dec-05	79.0	May-06	112.9	33.9			
3	1498	Caterpillar		600	Diesel	Nov-05	281.0	**************************************	286.0	5.0		······································	
3	2322	Onan Sons		80	Diesel	Nov-05	202.8		284.4	81,6			<u> </u>
16	980	Cummins	KTA50-G2	1100	Diesel	Dec-05	10.4	May-06	63.6	53.2			
16	1374	Onan Sons	60ENA	60	Nat. Gas	Nov-05	978.0	****	1018,6	40.6			ļ
18	31	Onan Sons	275DFML29807N	275	Diesel	Dec-05	160.0		172,2	12.2	-		<u> </u>
21	155	Onan Sons	750.ODFV-4XR	750	Diesel	Nov-05	837.8		849,1	11.3			-
21	357	Caterpillar		125	Diesel	Nov-05	456.5	·	467.9	11.4	- 		
21	1002	Onan Sons	H1750DSG15	175	Diesel	Nov-05	2934.0		2962,7	28.7		·	
21	1002	Onan Sons		350	Diesel	Nov-05	1878.1	Apr-06	2506.4	628,3		The second second second	
21	1002	Cummins	150DGFA	150	Diesel	Nov-05	1083.5		1145,0	61.5	4/2/2		
33	20	Kohler	30ROZ	30	Diesel	Nov-05	915.2		916.7	1.5		<u> </u>	<u> </u>
33	151	Caterpillar	XQ225	225	Diesel	Nov-05	2944.0	<u> </u>	2944.0	0.0	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		
33	208	Kohler	1600ROZD	1600	Diesel	Nov-05	4.9		4,9	0.0	11 1. 2000		
33	Point	Onan Sons	80DG10A	80	Diesel	Nov-05	7643.1	May-06	7643.1	0.0			
35	2	Onan Sons	100DGDB	100	Diesel	Dec-05	115.3		115,3	0.0		*************************************	
43	1	Cummins	4BT3.9-GC	50	Diesel	Nov-05	356.7	Apr-06	362.1	5.4			ند نند د د بازد د د بازد د بازد د بازد د بازد د بازد د بازد د بازد د بازد د بازد د بازد د بازد د بازد د بازد د
43	1	Onan Sons		150	Diesel	Nov-05	506.6		530.2	23.6			
46	335	Onan Sons	300DEFCB	300	Diesel	Nov-05	784.6		824,6	40.0	1,200	<u> </u>	
48	45	Onan Sons	DFCB-5740130	300	Diesel	Nov-05	343.7		2,9	2.9	3 3 3 3 3 3 3	3	
50	37	Cummins	680FDR5059FF	500	Diesel	Nov-05	475.4		480.4	5.0			
50	184	Onan Sons	75ENAD	60	Nat. Gas	Nov-05	92.1	Apr-06	112.1	20.0		7	
50	188	Onan Sons	L940563879	1250	Diesel	Nov-05	142.7	·	148.1	5.4			1
53	1	Onan Sons	1	60	Nat. Gas	Nov-05	1067.1	Apr-06	1110.9	43.8			
53	2	Kato Eng.	Kaman	50	Diesel	Nov-05	194.3	·	194,3	0.0			
53	M	Cummins	Transa.	60	Diesel	Nov-05	4440.0	····	4440.1	0.1	2 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15		
53	M	Onan Sons		12.5	Nat. Gas	Nov-05	581.5		581.6	0.1		Santa Caraca Cara Cara Cara Cara Cara Cara C	
54	412	Olympian	95M-07874-F	500	Diesel	Nov-05	269.2	· · · · · · · · · · · · · · · · · · ·	282.5	13.3			
55	5	Crympian	OOM-OTOTAL	100	Nat. Gas	Dec-05	62.4	1	65.7	3.3			
55	8	Detroit	 	600	Diesel	Dec-05	782.9		792.2	9.3			
55	364	Onan Sons	1250DFLC-4987	1250	Diesel	Dec-05	11.5		23.2	11,3			
55	28	Onan Sons	TIENDI LO TON	40	Diesel	Dec-05	45.1	Apr-06	47.2	2.1			
55	47	Onan Sons	1465	200	Diesel	Nov-05	492.3	1	500,1	7.8		A CONTRACTOR OF THE PARTY OF TH	**************
55	142	Cummins	DFEB-4963414	400	Diesel	Dec-05	75.0	· · · · · · · · · · · · · · · · · · ·	79.4	4.4			
59	1	Allis Chalmers	2884-0703	90	Diesel	Nov-05	736.8		742.0	5.2			
63	Yard	Murphy	12004-0103	20	Diesel	Nov-05	569.9		715.9	146.0			
64	1	Onan Sons		250	Diesel	Nov-05	134.5	1	140.4	5.9	350 9610		7 8 2 4 3 1 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
64	39	Onan Sons	 	20	Diesel	Dec-05	189.9		189.9	0.0			
69	33	Cummins	DFLC-5568730	1250	Diesel	Nov-05	35.0		40.6	5.6	C. 19.59.4, 213 & 19.80.98 & A		
		Generators in	use					-	TOTAL	1404.2		TOTAL	0.0

N/R = Not Read

First half average hours per unit 31.9 Second half average hours per unit

Annual Average of hours per unit 31.9

Attachment G
Data Disintegrator Box Throughput

2006 TA-52 Data Disintegrator

Reviewed By / Date:

Walt	Shatter
------	---------

	Data Entry			Data Entry	
Month	Boxes ^(c) Shredded	12-Month Rolling Total	Month	Boxes ^(c) Shredded	12-Month Rolling Total
January	1436	7897	July		
February	1040	8169	August		
March	766	7870	September		
April	705	7731	October		
May	1023	7986	November		
June	1379	9228	December		
6 mo. Total	6,349		6 mo. Total:	0	

	F 42 1 38 88 11 5 6 1
Annual Boxes (2006):	6,349
minual buxes (2000).	0.349
	3.13at.6.3c

Attachment H
Power Plant Natural Gas and Fuel Oil Usage

Entry)	
3 (Data E	
2006 (1	
Fotals	
uel Use Totals	
t Fuel	
r Plan	
Powel	İ
TA-3 F	-

			DATA ENTRY	INTRY				
	TA-3-22 Steam Plant Boiler#1 (Edgemoor! Works, 210 MMBTU/h	TA-3-22 Steam Plant ^b olier # 1 (Edgemoor Iron Works, 210 MMBTU/hr)	TA-3-22 Steam Plant ^b Boller # 2 (Edgemoor Iron Works, 210 MMBTU/hr)	eam Plant ^b Igemoor Iron MMBTU/hr)	TA-3-22 St Boller # 3 (Uni 210 MM	TA-3-22 Steam Plant ^b Boiler # 3 (Union Iron Works, 210 MMBTU/hr)	Monthly Totals	/ Totals
Month	Natural Gas (MCF)*	Fuel Oil (gallons)*	Natural Gas (MCF)*	Fuel Oil (dallons) ²	Natural Gas (MGE)*	Fuel Oil	Natural Gas	Fuel Oil
January	5,171	0	7.866		65 570	(Sanolis)	(IVIIVICE)	(gallons)
February	4 840	713	2000	> 0	7/6'66	O	68.609	_
March) CO #		c/ole		47,920	0	58.435	713
Anril	4024	603	10,104	319	45,818	0	57.856	922
May	0 0	0	8,249	378	41,663	0	49.912	378
line	0 0	0	24,512	651	9,412	0	33.924	
July	\		28,120	2 858 L	1,346	/ / 0	29.466	
August								
September								
October					The contract of the same of the same			
November			10 Mary 1997 (1997)					
December					(July)			
Annual Totals:	11,945	1.316	84 526	2 008	201 201			
Jan June	11 945	1316	000 00	0000	107,102	0	298.202	3322
July - Dec		0.04	076,40	2,006	201,731	0	298.202	3322
			0	0	0	0	0.000	
								2

	Totals by	Totals by Fuel Type
	Natural Gas	Fuel Oil
	(MMscf)	(Gallons)
Annual Totals:	298.20	3322.00
Jan June	298.20	3322.00
July - Dec.	0.00	0.00

12-Mo. Rolling Total Fuel Oil (gallons)

12-Mo. Rolling Total Natural Gas (MMscf)

Month

4403 4994

561.9 563.4 561.7

February January

March

April May

563.9 556.1 554.9

5215 5881

4970 4972

Sheet	
Summary Sheet"	
mission 5	
, See "E	
For References, See "Emission Summary Sheet"	
For	

Data Reviewed By: WM WMV 7/35/04

The limit for Natural Gas is from NSR Permit # 2195BM2. 2000 MMscf

Permit Limits:

September

August

June

JEIS

October

November December

The limit for Fuel Oil is from the Title-V Operating Permit. 500,000 gallons

Attachment I Power Plant Opacity Reports

Summary Table, Reports Attached

~		P	
Source	Date	Time	Opacity
TA-3-22 Power Plant	02-21-06	9:44 am	9.625%
TA-3-22 Power Plant	03-28-06	8:10 am	0%
TA-3-22 Power Plant	04-04-06	10:15 am	5.5%
TA-3-22 Power Plant	05-31-06	10:47 am	10.75%
TA-3-22 Power Plant	06-06-06	9:15am	0%
TA-3-22 Power Plant	06-20-06	7:50 am	6.5%

SOURCE		DETERMINATION OF OPACITY
E /	11 # 1 0 11	SIACITY
LOCATION	Sm ZZ Power Plant Sm ZZ Power Plant Type of Control Layloren: NA Interport Stack, etc.)	OESE RVATIONOITE JESO
TA3	5003- 0	SEC START TIME STOFTIME
Type of Source	STAZZ TOWER Plant	MIR. 0 15 30 15 500 10 194
- Fuel	Int (top of stack, etc.)	MIR. 0 15 30 45 Sec
Describe Limitation Pol	Int tipe of the	Min. 0 15 30 45
TOP	of Sack Level Pelphi Relative to Co	
Hight Abeve Ground	Livel	100000
(50	Lame to UPserve.	0000
distance from Observe	170	
_ 250	Checien from Chains	0000
escription of Plume (s	NW	10000
D Looping D	Colline Communication	0000
mission Coins	Plume 3 ype	
Black		
ater Dioplets Present?	Continuous Ofugitive Conterminen	
ONO DYES	Vre	6 0 0 25 25 18 0 0 0
what point in the plui	YES, diodies plume is Attached Detached me was opacity determined?	
000	Foot Above Stack	1000110
scribe Exceptioung Il.e.	Dive sty live sty	
Blu Q	Sk	00 5 0 0 20
patenue Color	Say Consilion:	
Blue		0 0 000 25 21
c 5 best	wine Direction (i.e. from North to South)	
3-5 mph	SE to NW	2000 22
cient 7 emperature	Wet 7 emperature	11 0000
1MEN75:	helative mumicity	0000 22 0000
CONT IN 19:	*	112 000 000
		AMISS COUCHD 24 0 000
		9.625 6 Kange of Opecity Respings
		OBSERVER (GISTAN DETRITION Mas.: 100 Nette: BRIAN OFTRITIE: Operator Signature Date Date
	•	Neme: BRIBALLY
		Signature Opposed
		Duan One
		Organization 2-21-06.
om Acrom in Th Direction		utilities Certificities Dates
A .		IMPORTANT - 31/05
1	\sim	TANT: Please indicate the follows
)		IMPORTANT: Please indicate the following by sketch:
	$H \setminus H$	
		Firm
	SOU#C1	Flume Direction
		Sun
		1 North
	i	
	Opene :	L SCALIGNIPOON TO
	FOSITION.	visione emissions observed
		Total vations.
		Signatural home in the 11
//	0	Sienerum homen Sterlingen Cen: 2-21-06
	J.	in Carrience E
	λ \	MINIMIAN
W* 6 3 /1 :		OF11: 2-21-66
	1	
	1	

Fuel Oi	1#1	Boil	er		211	06		57	9:44	-	570F	TIME	
TA 3	5M		Power Plant	Mir.	<u>c</u>	15	30	45	Sec Mir.	0	15	30	45
Fuel Oi	1		ntrol Louisimen:	1	0	0	0	0	13	0	0	0	0
scribe (mission Foling ()	Stac	4		7	0	0	0	0	14	0	0	0	0
15C	FEET		170 feet	3	0	0	0	0	15	0	0	0	0
350	些	Direction to	NE	4	0	0	0	0	16	0	0	0	0
Scription of Plume (stac		Coming	aniqqaini Disping	£	0	0	0	0	17	0	0	0	Ö
Black	Plume Type	uous 🗆 fu	priting Intermittens	E	0	0	0	0	18	0	0	0	0
NO DYES IT	YES, oroplet s	lume is 🔘	Ansched Distached	7	0	0	0	0	19	0	0	0	0
what point in the plum		bove	Stack	ξ	0	0	Ö	0	20	0	0	0	
Slug	olue sky, trees.	. e1c.)		ē	0	0	0	0	21	0	0	0	0
Slua Blua		Sky Conollie	Tear	10	0	0	0	0	22	0	0	0	
3-5 mph	wine Direction		North te South;	11	0	0	0	0	23	0	0	0	0
nblens Temperature of	Wet Temperat	eş Türk	heistler seiteren	17	0	0	0	0	·24	0	0	0	0
MMEN75:	ı			Average C	ox city	.63	<	2	Range of 6			-	
	•		•	OBSERV	LA ICIE	ass Drir	11)	\sim		0		: 10	
¥				Name: Signature	DI	e IA	≤ 4		7/2 Tith	<u>: 0</u>	rec	Ato	2
				6	uan		XX			21/1	26		
				Organizati いい	+//:	tie	S		8/8	on Date	5		
Draw Airow in North Direction								le ese	indicate 1	he foli	lowing	by sk	etch:
1	7							سببير	:				
(1,)	'n	'n					· ~	سنة:	Fluit	ne Direc	non.		
	ـــلـــ	11_					10)~					
	500	AC1						'n	Sun				
	1						1		North				
	1												
	1				1	ECKTION	wieoge	recei	ot of a co	py of	thes:	-	_
•		Observer's							ervations				
		Fositio	y .		Sir	crietuil	1] Zoon		tan	lle		
//		0			. 1	110	Mr.	NTS.	MANLI	En	ریمزی/	i se se	;
///		\mathcal{Y}		_				2/-					1
		人、	~ \	-									
PROPERTY AND ADMINISTRATION OF THE SECOND													

Fueloil #1 Boiler	OESE EVATIO	IFAD NO		9:4		57 OF	_	d
TAS SMZZ Power Plant	MIG. 0	15	30 45	Sec		15	30	1
oc of Source	1 2			MII.		15	30	45
scribe Emission Point (top of stack, etc.)	'	101		13	-			
Ight Above Ground Level Meight Relative to Observe	1 0	0	00	14				
	1:0	0	00	15				
lance from Observer 170 Feet	1	10	20	16				-
scription of Plume Islack exit only; Colling Cireoping	: 0				;		1	· · · · · · · · · · · · · · · · · · ·
D Leoping		0	010	17				
Black D Continuous D Fugitim & Intermittent	(0	00	00	18			-	
Ter Displets Fresents NO DYES ITYES, arapias plume is Asserted Described	1:0	Oc	00	· 19				
ONL FOOT Abour Stack	£ 0	00	20	20				
cribe Ezchgroung (i.e. blue sky, trees, etc.)	, 0							
ASTOUR SKY CONSTITUTE Blue Cleak		0	20	21			-	
Blue Clear Wine Direction (i.e. from North to South)	10 0	00	70	22				
3-5 mph 18 E 20 NW	11 0	00	0	23				
bient Temperature Wet Temperature Felative Humidity %	12 0	00	00	.24				
Stopped Reading At 10:44 Now just observing.	Average Circlis	625	- 9/	Range of C			-	
310//22	GESERVER IDI	ase print)	1	Min.:			:70	9
NOW JUST OBSCING.	Neme: Be	CAN		Date Date			<u>t</u> o	<
_	Organization	100		2-2	4-0	<u>م</u> ے د	1	
	Utili	fies				0,	-	
Draw Arrow in North Direction	IMF	ORTAN"	T: Please					etch
			مېمپىر ـ	-			•	
		•		Flun	e Direc	nois		
Sourci Sourci		(O.^	ანო				
			-)	•				
			1	Nort	•			
	<i>-</i>							
Observe 's	i /.	acknowle Since emi	coe recei	pt of a co	py of	क्षेत्रक		
Fostiso.				i l-	1	//		
	\$.,	srieture.	Maries	1/2	and	ley		
0	. 71	11. <u>/</u>	GARATA.	MNCA	En	to jan	In	:
	· De	14:	2-22	-06				100
* 1900ec 17ft	****	***						
• 🗸)								

IOURCE 2	OEEEFV			1 -	ARTTIN	16	STOP	TIME	
FUEL DIL # 2 BOILER	3:	2 % -	0.6	10	810		10) 15	
FUEL OIL # 2 BOILER	See		. : :		SOL	!			
TA 3 SM 22 HOWER PLANT	MIr.	0	15 30 1	45	MID.	. 0	15	30	45
		-				<u> </u>			
Type of Source	1	17	00		· 13			\sim	~
TUFL OIL	- <u>-</u>		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<u> </u>		\downarrow		()	
Describe Emission Foint (100 of Stack, etc.)	5	Δ	nini				~ ·		~
War STACK - TOW OF STACK	<u> </u>	0	00	\mathcal{O}	14		\mathcal{O}		\mathcal{O}
Height Above Ground Level Height Relative to Observe:	T . i	\sim	10:01						
17 Feet 190 Feet	3	U	00	0	16	C	(フト	0	
Distance trem Observer Direction from Observer									_
250 ×000 1/ 1/ 10	-	O	$O(\alpha)$	0	16	(')	0	()	
Description of Plume Istack eath only? Lorsing Laboring	1	1		_		_		~	~
	E	01	D.OI	\cap	17	01	1	1	\sim
	 	<u> </u>	<u> </u>	-	 	\smile $+$	쏫ㅣ	-	$\mathbf{\mathcal{A}}$
	f (00		18	\cap	$O \perp$		\bigcirc]
BLACK D Consinuous D fugitin & Intermittent	{ ∤		<u> </u>	-4	_	4		<u> </u>	\leq
Water Diopiets Fresent?	7		$\Delta \Omega $	Δ	19	10	171	~ 1	\wedge
NO DYES IT YES, croplet plume is Defrached Defrached		<u> </u>	<u> </u>	ᆚ	18	1			لك
At what point in the plume was opacity ceterhined?		0	no	\sim l		1	01	\sim	\wedge
TOD OF STACK	{ }	U	<u> </u>	<u> </u>	20		<u> </u>		اپ
Gescribe Excepteuho (i.e. Dive sky, trees, etc.)	1 . i	\wedge	noi		_		1		
Coon + R/ 1 5 KEES	[F]	\mathcal{O}	UUI	<u>이</u>	21-	$ \mathcal{O} $	ر ال		<u>ا</u> ت
Backgroune Colors Say Condition:		\overline{a}					7		対
GRAV- BLUE PARTLY CLOUDY	10		O(D)	\cap 1	55	O	()	O!	ال /
Carly to work to have to be the				Z I		\overline{A}	_ +		
wine speec' wine Direction (at the month)	11	01	001		23	()	0	7/	つし
		元				\succeq		\	_
Ambient Temperature wet Temperature of A	12 (O(O)	\cap	.24.	()1	01	7	つし
	Average Cp	2015		\sim	Kanye of	Omelly	<u> </u>	200	\prec
Committee 191		سمتر)	Į	Mind	1	Mos.	~ ~) [
I FUEL OIL BURNER PUT IN SERVICE	OUSERVE		m priet) O						
		7	JAKO PA	i Loike.	ren Shel	.		•	
AT 08:10 AND REMOVED FROM SERVICE	3					· quex	ster		
	Signatur	/}_	//		Oate G 6				
AT 1015 OPERATERS UNLACE TO					3-28				
DUT AND THE DIRECT CO.	Constitution			ĺ	Certificati				- 1
PUT ANOTHER BURNER IN SERVICE.	KS	<u>_</u>			<u> 3-/-</u>	08			
× ×		IMP	ORTANT: P	le ase	indicate	the foll	lowing	hu el	
Draw Arrow in North Direction					moreste.	11 <i>PE</i> 1011	10 W 11 1 <u>5</u>	DA SK	t (Cn;
North Oliverium					•			•	•
			(2		<i>:</i> •				
			_		Plur	ne Direc	tion		
			\ \	. ~					
			``) [Sun				
Sourci)					
			4		a lmer				
			1		Nort	ef i			
		1	ecknowleage	e recei	01 01 5 0	ממע מל	77.05		
			sible emissic						1
Observe :		i "	ene ennati A	/**** U.D	act valjuli	16. 			
Fostion.		1	. <i>R</i>	د د معادی	2 %	27			İ
			pnasure: 🕰	77 1744	D: (/	NAM	}		- /
		ì	,,000	V		U_{i}	ν, ,	L	` }
		; 7i	: <u>UPPS</u>	Up:	Suga	<u>LIME</u>	rden!		. ! '
		1	_ 1	./	, ,	•			İ
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		i o	nc:3/2	8/06					
		•							!
E10 00% issues 3/F1					***************************************				
TRACTURE AND AND AND AND AND AND AND AND AND AND									

	1				1			<u> </u>		
SOURCE HO P	DESE AV				57	ART TIM		57 OF	-	
FUEL OIL #2 BOILER		<u> 28-</u>	06			810	ļ	10	15	
OCA710h	5"	0	15	30	45	200	0	15	30	45
TA 3 SM 22 YOWER DLANT	Min.			,	_ 1	Min.	-			45
FUEL OIL NA	1 !	0	0	0	0	13	0	0	0	0
Describe Emission Point (100 of stack, etc.)	. 5			0		. 14		1		$\overline{}$
WEST STACK - 102 OF STACK	1	<u> </u>	<u>ب</u>	ب	0	1.44	12	1	\mathcal{O}	U
175 teet 190 feet	3	0	0	0	0	3.6	0	0	0	0
Distance from Observe. Direction from Observer	4	0	0	ol	0	16	0	0	0	0
Cestription of Flume islack exit only! Lotting D Trapping	:		A	$\overline{}$			7	7.0	$\stackrel{\smile}{\sim}$	\preceq
O Looping O Fanning O Coning O Furnission	<u> </u>	01	U^{\parallel}	<u>リ</u>	\cup	17	0	0	\mathcal{O}	
Emission Color Flume Type R/ACV Densinuous Drugitive Dintermittens		01	0	01	01	· 1&	0	0	0	\bigcirc
Water Deopless Fresenti		亓	A	A I	= 1	1		$\overrightarrow{\wedge}$	<u> </u>	\preceq
DNO DYES ILYES, GIODRI DIUMETE DATIECHE DETECHE	7	<u>U</u>	<u>UK</u>	7	\cup	16	(2)	(2)		OI
At what point in the plume was opacity satermined?	8	01	al.	· 5	\sim 1	20		M		~
JOD OF STACK	<u> </u>	$\stackrel{\ \ }{\hookrightarrow}$	식비	<u> </u>	싓		M	쏫	<u> </u>	4
GRAY + BLUE SKY	\$	0	0	01	0	21 ·	0	O	0	<u>ا</u>
ESCRETOUTE COLOR RLUE DIRTLY CLOUN	10	010	01	01	01	22	0	0	0	7
wine speec Wine Discuss the Hom North to south;	i . i			一	A		7	M	$\stackrel{\sim}{\sim}$	\precsim
$0.3 \text{ mph} \qquad 5.0$	17 (<u>ノ (</u>		1	4	23			$\mathcal{Q}($	
Ambient Temperature wer Temperature Aciative momitally	12	01	01	0/	ÖΙ	-24	0	0	0	2
COMMENTS	Awrage Co	veits	*~			hange of	Opediy			
, ,	,	ک		• >		Min.:	0	Mea.	<u>: 0</u>	
'	Name: /		acprin			Ties	44 . m²	'a 10 a	~~ ~	1
1	Signature		NO.	7		Date	יייף -	ELAT	<u> </u>	
<u> </u>				-						1
	1	4		_	<u>,</u> 1	3-28	3-06	•		•
	المعتارة ال	4	<u> </u>			<i>32 - ح</i> (انمارانانا)	on Date		~~~	
		SL				Certificati	9-06 -06			
Draw Arrow in		S/ IMPC	ATRO	NT: F		Certificati	-06		by sk	erch:
Draw Arrow in Norsh Direction		SL IMPC	ATRO	NT: F		3-/	-06		by sk	etch:
Draw Arrow in		SL IMPO	ATRO	NT: F		3-/ indicate	on Date '-06 the foi	llowing	by sk	etch:
Draw Arrow in Norsh Direction		SL IMPO	ATRO	NT: F		3-/ indicate	-06	llowing	by sk	etch:
Draw Arrow in Norsh Direction		SL IMPC	ATRO	NT: F		3-/ indicate:	on Date '-06 the foi	llowing	by sk	etch:
Draw Arrow in Norsh Direction		SL IMPO	ATRO	NT: F		3-/ indicate	on Date '-06 the foi	llowing	by sk	etch:
Draw Arrow in Norsh Direction		SL	ATRO	NT: F		indicate:	on Date -06 The fol	llowing	by sk	etch:
Draw Arrow in Norsh Direction		SL IMPO	ATRO	NT: F		3-/ indicate:	on Date -06 The fol	llowing	by sk	etch:
Draw Arrow in Norsh Direction		SL IMPO	ATRO	NT: F		indicate:	on Date -06 The fol	llowing	by sk	etch:
Draw Arrow in Norsh Direction		,) }	Sun	on Date -06 The following Direction	llowing	by sk	etch:
Draw Arrow in Norsh Direction Source Observer:		13	cknov	1	Please) }	indicate:	on Date -06 The following Direction	llowing	by sk	etch:
Draw Arrow in Norsh Direction Source		1 a	ecknor	1 Nieconisie	Please Preceipt ob	Plum Sun Nort	on Date -06 The following Direction	llowing	by sk	etch:
Draw Arrow in Norsh Direction Source Observe:		1 a	CKNON	1 wiecomissie	t recei	Plum Sun Nort ipt of a conservation R. Z	on Date -06 The following Direction The Dire	llowing	by sk	etch:
Draw Arrow in Norsh Direction Source Observe:		1 a	CKNON	1 wiecomissie	t recei	Plum Sun Nort	on Date -06 The following Direction The Dire	llowing	by sk	etch:
Draw Arrow in Norsh Direction Source Observe:		1 a vis	CKNON	1 wiecomissie	t recei	Plum Sun Nort ipt of a conservation R. Z	on Date -06 The following Direction The Dire	llowing	by sk	etch:

SOURCE	OESER'				57	ART TIM	£	STOP	TIME	
FUEL OIL # 2 BOILER		<u>3 - 2</u> ,	8-00	<u> </u>		0810)	1	115	
TA 3 SM 22 DOWER PLANT	Min.	0	15	30	45	MIN.	O	15	30	45
Type of Source Type of Control Equipment LUF1 VA	1	0	0	0	0	13	0	0	0	0
Describe Emission Point (100 of stack, etc.)	2	0	0	0	0	14	0	0	0	α
Height Above Ground Level Height Relative to Objerver	3	10	5		7	42	5		5	
Distance from Observer Direction from Observer	-	10	19	10	9	15	2	Q	U	0
2.50 NW	4	10	0	0	0	16	O	0	0	0
Description of Plume (stack exit only) Lotting Trapping Localing Funiostical	5	0	0	0	0	17	0	0		
Looping Fanning Coning Fumipation. Emission Color Plume Type		12						١		
BLACK Consinuous - Fugitive SIntermittens	6	0	0	0	0	18	0	0	0	0
Water Dropiets Present? ENO DYES If YES, proplet plume is Detached Detached.	7	0	0	0	0	· 19	0	0	0	0
At what point in the plume was opacity cetsimined?	8	5				. 50	\		\supset	Ĭ
Describe Background (i.e. blue sky, siers, etc.)		<u> </u>	1	<u> </u>	<u> </u>	40	\mathcal{O}			U
GRAV + BLUE SKY	9	0	0	0	0	21	0	0	0	0
Eachground Calet . Sky Conditions	10	0		0		22	0	0	0	$\overline{\wedge}$
Wind Speed Wind Direction (Ue, from Nighth le South)		<u>(1)</u>			\lesssim		$\stackrel{\sim}{\sim}$	\lesssim		Θ
Ambiens Temperature Wes Temperature Relative Humicity	11			Q		23	2	0	0	0
Ambient Temperature Wet Temperature Relative Humicity	12	0	0	0	01	-24	0	0	0	0
	Average C	100 C 10 W				Range of			<u> </u>	
COMMENTS:		7	\		1		_		~ ~	l
COMMENTS:		<u> </u>)	est)		Min.:	0	Ma	~ ~	
COMMENTS:	OESERV	E# (ph				Min.:	0	Мэ	u: <u>()</u>	1 .
COMMENTS:		EA (ph Leo)			CHEC	Min.: O Title Date	<u>e</u> • • •	Mar SZA	~ ~	1 .
COMMENTS:	OBSERV Name: Signature	ER (DH			CHEC	Min.: O Thi	<u>e</u> • • •	Mar SZA	u: <u>()</u>	1 .
COMMENTS:	OBSERV Name:	ER (DH			CHEC	o Trib Date 3-2 Carillian	<u>e</u> • • •	M3: SZA:	u: <u>()</u>	1
Draw Arrow in	OBSERV Name: Signature	LEO LEO KSL	NACY S	γ ρ _Α	CHEC	o Trib Date 3-2 Carillian	8-0 8-0	Ms: 524	1. O	ketch
	OBSERV Name: Signature	LEO LEO KSL	NACY S	γ ρ _Α	CHEC	Min: O Title Dete 3-2 Cortificati 3-/	8-0 8-0	Ms: 524	1. O	ketch
Draw Arrow in	OBSERV Name: Signature	LEO LEO KSL	NACY S	γ ρ _Α	CHEC	Mina Date 3-2 Continue 3-/ indicate	8-0 en Dat -0 &	SEA.	1. O	ketch
Draw Arrow in	OBSERV Name: Signature	LEO LEO KSL	NACY S	γ ρ _Α	CHEC	Mina Date 3-2 Continue 3-/ indicate	8-0 8-0	SEA.	1. O	ketch
Draw Arrow in	OBSERV Name: Signature	LEO LEO KSL	NACY S	γ ρ _Α	CHEC	Mina Date 3-2 Continue 3-/ indicate	8-0 en Dat -0 &	SEA.	1. O	ketch
Draw Arrow in North Direction	OBSERV Name: Signature	LEO LEO KSL	NACY S	γ ρ _Α	CHEC	Min.: O Title Date \$ - 2 Continuati 3 - / indicate	8-0 on Dat -08 the to	SEA.	1. O	keteh
Draw Arrow in North Direction	OBSERV Name: Signature	LEO LEO KSL	NACY S	γ ρ _Α	CHEC	Min.: O Title Date \$ - 2 Continuati 3 - / indicate Plur	8-0 on Dat -08 the to	SEA.	1. O	ketch
Draw Arrow in North Direction	OBSERV Name: Signature	ER (ph	PORT	ANT:	Please	Min.: Date 3-2 Corrillicati 3-/ indicate Plur Sun	8-0 on Dat -0 & The 10	Max SEA 6 flowin	TER	keteh
Draw Arrow in North Direction SOURCY	OBSERV Name: Signature	ER (ph	PORT	ANT:	Please	Min.: O Title Date \$ - 2 Cortificati 3 - / indicate Plue Sum Non	8-0 on Dat -0 & The to	Max SEA 6 flowin	TER	ketch
Draw Arrow in North Direction	OBSERV Name: Signature	ER (ph LEO)	PORT	ANT:	Please	Min.: Date 3-2 Corrillicati 3-/ indicate Plur Sun	8-0 on Dat -0 & The to	Max SEA 6 flowin	TER	keteh
Draw Arrow in North Direction Source Otserver's	OBSERV Name: Signature	ER (ph	ORT /	ANT:	Please Please Proce	Min.: O Title O Title S-2 Cortificati 3-/ indicate Plue Sun North ipt of a conservation R. 20	8-0 on Dat -0 & The to	Max SEA 6 flowin	TER	ketch
Draw Arrow in North Direction Source Otserver's	OBSERV Name: Signature	ER (ph Leo)	ORT /	ANT:	Please	Min.: O Title O Title S-2 Cortificati 3-/ indicate Plue Sun North ipt of a conservation R. 20	8-0 on Dat -0 & The to	Max SEA 6 flowin	TER	keteh

		•
FUEL OIL # 2 BOILER	OESERVATION DATE	START TIME STOPTIME
	3-28-06	10810 1015
TA 3 5/M 22 POWER FRAT	MID. 0 15 30.	Sec
Type of source Type of Control Eculpmen:	1000	
Cescribe Emission Foint from of stack, etc.)	2000	
MEST STACK - 1 DD OF STACK I meight Above Groung Level meight helative to Observe:	, 0000	0 10000
175 Feet 190 Feet	: 0000	0 11 0000
Distance from Observer	1000	0 10 000
Description of Plume Islack eals only? Lotting Dispping	10000	
Contact Color Plante 3 yps	10000	0 17 0000
RIALK Gonzinuous . Fugitive Consensistens	6000	0 16 0000
ONO DYES IF YES, GLODIES DIOME IS D'ATTREME D'DETREME	,000	0 0000
TOD OF STACK	1000	0 20 0 0 0
Describe baco ground (i.e. blue sky, trees, etc.)	: 000	
Bechgioung Color SLUE SKY Bechgioung Color Sky Conclisions		0 21 6 0 0 0
Wine Speed Wine Direction flux, from yorth to South;	10 000	0 22 0000
0-3 mph 5:-//	" 000	0 23 0 0 0 0
Amplent Temperature Wat Temperature Fetative Humidity	12 0000	0 24 0 0 0 0
COMMENTS:	Avelage Operetty	Sange of Opedity Seadings
,	<u> </u>	Min.: 6 Mex.: 0
	DESERVER (please print)	•
	Name: LEONARD PA	LAHO THE OPERATER
·		7-28-06
4	Disanization.	Certification Data
, .	KSL	3-1-06
Drew Arrow in North Direction	IMPORTANT: P	lease indicate the following by sketch
	سر	
A(A)	(n	
		Flume Direction
SOUPCE	. , O	Sun
)
	1	North
ľ	•	
4		
	l zeknowlecjos	receipt of a copy of these.
Observe :	visible emission	ns observations.
Fosition.	Signature: B.	aced R. Hamis
	, i pae	age Superintentent
	1	of superintentent
	Date: 3/28/	66

												•	
LUEL LUEL	αu	#2	BOILER	OBSE	3.2			5.7	0810		E .	TIME	•
OCATION -		0-	.2 7.	75		:	!	سنگ آمد	300	T		15	!
TA 3	5M 27	YOW OF CONT	ER PLANT	MIr.	> -	15	30	45	wiv.	0	15	30	45
FIJEL (DIL !	\mathcal{A}		1	0	0	0	0	13	0	0	0	0
escribe Emission Foini it			CT - 416	7		10	1/7	1				0	
WEST STAC	K-TO	eight Felella	STACK		10	<u> </u>	10	10	14	10	\mathcal{O}	U	0
175	feet		190 100	1 3	0	0	0	0	15	O	0	0	0
Islanca trom Observes	→ 	N V		4	10	0	0	0	16	0	0	0	
Iscription of Plume Islac		U Lois	•	٤		10	10		17				
D Looping D fer	Plume Type	viut [I Fumipation		$\frac{1}{100}$		0			0	9	\subseteq	Q
BLACK_		us D Fuçi	ive Coremirent	· •	U	0	0	0	18	0	01	01	01
ster Dropiets Present?	eff months blut	nei: 🗀 A	stached D Deteched	7	10	0	0	0	19	0	0	0	
what point in the plume	was opacity cat	ermined:		E	1	10		\preceq		5		$\stackrel{\sim}{\sim}$	쒸
TOP (STA	<u> </u>			+	10		띡	20	9	9	\mathcal{O}	<u> </u>
GRAV +	BLUE S	SKY	•	٤	0	0	0	0	21	0	01	0	0
				10	0	0	0	0	22	0	0	7	
GRAY + BL	Wino Direction	Le. from No	eth to South;	1,	10	0	δ	首		M	$\frac{1}{2}$		
noient 7 emperature	Met 3 (mpc/alum	N . 18	eletive homotos	 ''-	10			4	23	$\frac{9}{1}$			
•6		• • •	X	12	0	0	0	0	·24	0	0	01	0
MMENTS:				Average	Opacity	1)		Flange of	•	Feedle	_	
				CESERY	ER (ple	tase pri	nt)	<u> </u>			. mex.		- ,
				Name		MAR	0 1		CO Thi	ope	FATE	ER.	
	•		1	1 7		1			2- د	8-0	6	4	
			•	E Same	KSL	,		1	3-/				
B				1			N7. I	Please:					ᆛ.
Draw Arrow in North Direction					1144	0,1,7	-111, 1	H esc	indicate :	ine tol	lowing	Dy sk	etch:
A	مرسر						12		•			•	•
	nn	•					-		Plun	ne Direc	tion	٠	
	SOUPCI						'C) _	Sun		٠		
	2004							1					•
	İ						1		Nort	'n			
			1										
	Í				1	ackno	nlecio	e receij	ol of a co	py of	these		
	00.	Fosition			•	isidie (misio	ons obs	ervation	5. ,			
•		, Va.10.			5	ignetur	<u>Z</u>	Mon	R. 29	Q	~		
					1		•	7	-	.0	1		- :
///					1	itle:	_ /	1	Supp	INO			-
	. !	9			۵ ا	*14:	3/20	las			1		
		·፟፟፟፟	7)				1						
00% (More 1/8)													

SOURCE					DESERV	OLTA	N DATI		5	ART TIM		STOP	7155	-
LOCATION LOCATION	16 # 3	2_B	ILER			28		<u> </u>		0810		1	2.75	-
TA ?	SM 3	_	OWER DIN	Wit	Min.	0	15	30	45	Soc win.	0	15	30	45
FUEL OIL		ו בפער ב	entrol Louismen:		1	0	0	0	0	13				
Describe Emission Point I	100 01 11464, 61	To	on of	STACK	2	0	0	0	0	14				
HEIGHT Above Ground Les		reight Rei	DOF S		3		1		$\overline{\Delta}$					· ·
Distance from Observer	f eet	Direction 1	10m Observes	Feet		0	0		<u>U</u>	15				
250	- Yerds		N.W_	 	4	0	()	<u>U</u>	0	. 16				
Description of Plume Islan			Offins 11	epping	5	0	0	0	0	17,				
Emission Color BLAU	Plume Type	_	ugitim Øintern	nitte nt	6					18				
MAIET CICCIETS FIRMANT	VES - ADDIS É	ume is [American Cline	asibad	7					. 19				
AT - NAT point in the plum	was opacity o	esasminedi —	S A HACHAGO OF OR		8		,	:		20				
Describe Background fl.e.	OF S	e(C)		***		i,								
Bachgroune Color	at KLU6	Ly Conclu	ipns	•	9					21				
GRAY + B	LUE !	PAUL	The Cinu	ey i	10					22		•		
Minc Speed mph	wind Direction		Newin to south)		11					23			•	-
Brutersques resident	Wet Temperati	ufe =F	Feiglive Hymidi	17	12					-24				
COMMENTS:		·····			Average Of	pacity	<u></u>			Range et C	pacity		•	_
		٠.			Name: Name: Signature	1 69	VARA		CHE	Cultivatio	8-0			
Draw Arrow in North Direction	· · · · ·					IMP	<u>) (.</u> ORTA	NT: I	le ase	indicate t	<u>/ - 0</u> he 101		by sk	L) erch:
	SOUR	a					•			.Sun	e Direc	Tion		
	°	bserver's Fositio				vi	eckno sible e poesure	missio Q	ons et	ipt of a conservations	py of	thes		
///		Q Q		*	_		11e: <u>L</u> 11e: <u> </u>	_7	0p :	,	inte	W		
10 00% issues 2/8:	٠	八	1	<u>(</u> ک		L							,	 '

SOURCE				OBSER	/4710	N OAT							-
FUEL OIL	# 2) je	BOLLER		1-4	,	•		015	- E	STOP	TIME	
LOCATION	71	\sim	2011261	500		1	T		N 50E	T	1/-	f OZ	<u>} </u>
TA 3 SM	1 <u>22</u>	Down	H PLANT	Min.	0	15	30	45	Min,	0	15	30	45
Type of Source		Type of C	ontrol Equipment	1			0		. 13	5			
FUEL OLL		1 / L	/ /	-	10	+	<u> </u>	1	 	0	0	0	0
WEST STAL			To The Great	2	0	10	0	0	14				
Helpha Apove Ground Lev		height Rei	TOR OF STACK	1	126	10	U	<u> </u>		0	0	0	0
150	Fee1		10 feet	3	0	0	0	0	15	0	0	0	Ö
Distance from Observer	York	Oirection t	Tom Caserver	4	0	0		$\overline{\wedge}$	16				<u>~</u>
Description of Plume Israc			<u>ا لاح</u> ofting Dirapping	 	10	0	0	\mathcal{O}_{\perp}		0	0	0	\mathcal{Q}
Loopins D Far		Coning	Orting U Trapping D Furnigation	5	0	0	0	75	17	0			6
Emission Color	Plume Type			6					4.5	بد			
BI ACK	Contin	uous 🗆 F	upitive Sintermittent	 	75	50	5	0	18	0	0	0	0
ZNO DYES HY	rES, oropies <u>p</u>	lume is C	Attached Detached	7	0	0	0	0	19	0	0	7	
At what point in the plume	was opacity	belermine G?		. 8			Ö		24				4
Describe Background (i.e. t	57/3	#1c.)		<u> </u>	\mathcal{L}		$\Theta \parallel$	의	20	0	\mathcal{O}	0	
WHITE PAR -	~		st.	. 8		0	0	0	21	01	0	0	\circ
Backgroyne Color	5 1	_		10'	0	0			22	0		~	
VINC Speech	Wind Direction	h ile. trom	North to South		<u>←</u>		0	Q		싓	9	0	2
2-5 mph	Sour	<u> </u>		11	0	01	0	0	23	0	0	0	0
Amplent Temperature	Wel Temperat	-k	Relative Humidity	13	0	0	0	01	24	$ \sqrt{} $			\overline{A}
COMMENTS:				Average O					Range of C	Pacity	Feaci	ngs	=
1 .					.5				Min.:		Mea		
BURNER ON	AROUT /	0 /14											
BURNER ON				CESERVI	R Jole	em prir	¹¹⁾))	_	不	جز_	1	- I
BOILE TERD A	r 10=	27 .	_	OBSERVI Name:	R Jole Co.	MARI		actié	co This	م عربو:		توکد م	
1	r 10=	27 .	. ≸.	Name: Signature	() pole () Co.	MARI		actie	CO Title	**************************************	Lari	K) K	
BOILE TERD A	r 10=	27 .	1	Name: Signature	<u> </u>	MAR!		actie	Certificanie	4-0	Lati	- <i>X</i> p	
BOILE TERD A	r 10=	27 .	1	OBSERVI Name: Signature Siganjaari	<u> </u>	MARI		actic	Certification	7-0	6	X)	
BOILE TERD A	r 10=	27 .	1	Name: Signature Organizan	(to.	NO KJ			Certification 3-1	7-0 on Date /-06	6		
BURNER BACK	r 10=	27 .	1	Name: Signature Organizan	(to.	NO KJ			Certification	7-0 on Date /-06	6		etch:
BOILER TREP A BURNER BACK Draw Arrow in	r 10=	27 .	1	Name: Signature Organizan	(to.	NO KJ			Certification 3-1	7-0 on Date /-06	6		etch:
BOILER TREP A BURNER BACK Draw Arrow in	r 10=	27 .	1	Name: Signature Organizan	(to.	NO KJ			Certificate 1	9-0 on Date /-06 the fol	llowing		etch:
BOILER TREP A BURNER BACK Draw Arrow in	r 10=	27 .	1	Name: Signature Organizan	(to.	NO KJ			Certificate 1	7-0 on Date /-06	llowing		etch:
BOILER TREP A BURNER BACK Draw Arrow in	r 10=	7 7 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1	Name: Signature Organizan	(to.	NO KJ			Certificate 1	9-0 on Date /-06 the fol	llowing		etch:
BOILER TREP A BURNER BACK Draw Arrow in	ON 10	7 7 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1	Name: Signature Organizan	(to.	NO KJ			Certificate 1	9-0 on Date /-06 the fol	llowing		etch:
BOILER TREP A BURNER BACK Draw Arrow in	ON 10	7 7 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1	Name: Signature Organizan	(to.	NO KJ			Certificate 1	9-0 on Date - 06 the follower Direct	llowing		etch:
BOILER TREP A BURNER BACK Draw Arrow in	ON 10	7 7 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1	Name: Signature Organizan	(to.	NO KJ			Certificate 1	9-0 on Date - 06 the follower Direct	llowing		setch:
BOILER TREP A BURNER BACK Draw Arrow in	ON 10	7 7 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1	Name: Signature Organizan	IMP	ORTA	NT: F	Please	indicate 1	7-0 on Date - 06 the follower Direct	llowing	g by sk	etch:
BOILER TREP A BURNER BACK Draw Arrow in	ON 10	7 7 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1	Name: Signature Organizan	IMP	ORTA	NT: F	l'lease	indicate 1 Pur Sun North	7-0 on Date 1-06 the followed Direct	llowing	g by sk	setch:
BOILER TREP A BURNER BACK Draw Arrow in	ON 10	27 230		Name: Signature Organizan	IMP	ORTA Geknor	NT: F	Please t recei	indicate 1 Puri Sun North	7-0 on Date 1-06 the followed Direct	llowing	g by sk	actoh:
BOILER TREP A BURNER BACK Draw Arrow in	ON 10	Daerver's		Name: Signature Organizan	IMP	ORTA	NT: F	Please receipns ob	Certificate 1 indicate 1 Sun North	he follow Direct	llowing	g by sk	setch:
BOILER TREP A BURNER BACK Draw Arrow in	ON 10	Daerver's		Name: Signature Organizan	IMP	ORTA	NT: F	Please receipns ob	Certificate 1 indicate 1 Sun North	he follow Direct	llowing	g by sk	etch:
BOILER TREP A BURNER BACK Draw Arrow in	ON 10	Daerver's		Name: Signature Organizan	IMP	ORTA	NT: F	Please receipns ob	indicate 1 Puri Sun North	he follow Direct	llowing ction	g by sk	etch:

SOURCE	OBSE	VATIO	NOAT	1	1124	FART TIA	4.8	1		
FUEL OIL #2 BOLLER		1-4		•	•	101	~	1 .	TIME	
LOCATION	500	E ;	1	1	 	Sec		+4=	00	T
TA 3 SM 22 POWER PLANT Type of source Type of control Equipment:	MIN.	10	15	30	45	MIR	0	15	30	45
Type of Equipmen:			7		i) 	1	-	
FUEL OIL NA	_	0	0		10	13	0	0	0	0
Describe Emission Point (top of stack, etc.)	7			!	i] 	T -	<u> </u>	 _	<u> </u>
WEST STACK TOP OF STACK Helph Above Ground Level Ineight Relative to Casens	2		0	10	0	14	0	0	0	0
	3	M								
Cistance from Observer Circulan from Observer		<u> </u>	<u> 10</u>	0	10	15	0	0	0	0
250 mms 5 5	4	0	0	0	0	16	0	0	0	7
Description of Plume Islach exit only) D Lotting D Trapping		100	1	1	!	1				
Looping Fanking Coning Exmission	٤	\Box	Q	10	0	17	0	0	0	0
Emission Color Flume Type	€	0	0	0	1	18	0	0	2	0
BLACK Consinuous Fugitive Statesmissens	1		1						~	\preceq
DNO DYES IF YES, proplet plume is Desched Desched	7	0	0	0	0	. 19	0	0	25	25
As what coins in the plume was opacity desermined? TOO OF STACK	8 0 0 0 0 20							50	5-	
TOP OF STACK Exercibe Escapiound (i.e. plue sky, trees, etc.)										<u> </u>
BLUE + WILTE S'UM BREAGROUPE COLOR SAY CONCINENS		0			10	21	0	0	0	0
Blue + WHITE SAME	10	0	0	0	0	22	0	0	0	0
vine speec wind Direction (i.e. from North to South)	11	0	0	0	0	23	0	0	0	
Amplent Temperature Wet Temperature Relative Humidity	12	0	7	0		24	$\stackrel{\checkmark}{\sim}$		<u>-</u>	
										52
COMMENTS: Average Opecity Range of Opacity Readings										
	_				l					- !
1055: BURNER ON	S	- 5	age çil	nt)		Min.:		Mex.		
	S	- 5	MARG	(۱۹۱۱) افراد د	HEKO	Min.:	25	Mex	1 2	-
	S	- 5 EF (6)	NAR.	nt)	NAEKO	Min.: Titl	? <u>\$</u>	Max	1 2	
1055: BURNER ON	Seserv Name: Signature	-5 EF (D):	NAR.	nt)		Min.: Titl	25 " ope 4.06	Max	1 2	
1055: BURNER ON	OESERV Name: Signature Croanitat	-5 EF (ple	NAS.	nt)		Min.: Title Date Cy - i Certificate	25 open	Max	1 2	
1055: BURNER ON	OESERV Name: Signature Croanitat	LE cole	R	e ta		Minut State That Date Cy - 1 Certificate 3 - /-	1-06 006	Mex	: 2 1	
1055: BURNER ON	OESERV Name: Signature Croanitat	LE cole	R	e ta		Min.: Title Date Cy - i Certificate	1-06 006	Mex	: 2 1	retchi
1055: BURNER DN Dian Ariem in	OESERV Name: Signature Croanitat	LE cole	R	e ta		Minut State That Date Cy - 1 Certificate 3 - /-	1-06 006	Mex	: 2 1	retchi
1055: BURNER DN Dian Ariem in	OESERV Name: Signature Croanitat	LE cole	R	e ta		Minu: Thi Date G = 1 Certificate: 3 = /: indicate:	1.06 4.06 on Day -06	Mex PATE	: 2 1	vetch:
1055: BURNER DN Dian Ariem in	OESERV Name: Signature Croanitat	LE cole	R	e ta		Minu: Thi Date G = 1 Certificate: 3 = /: indicate:	1-06 006	Mex PATE	: 2 1	etch:
1055: BURNER DN Dian Ariem in	OESERV Name: Signature Croanitat	LE cole	R	e ta		Minu: Thi Date G=1 Certificate: 3-/: indicate:	4-06 on Details on Det	Mex PATE	: 2 1	etch:
Draw Arrow in North Direction	OESERV Name: Signature Croanitat	LE cole	R	e ta		The C4-1 Certificate 1 indicate 1	4-06 on Details on Det	Mex PATE	: 2 1	retch:
Draw Arrow in North Direction	OESERV Name: Signature Croanitat	LE cole	R	e ta		The C4-1 Certificate 1 indicate 1	4-06 con Date -06 The follower	Mex PATE	: 2 1	etch:
Draw Arrow in North Direction	OESERV Name: Signature Croanitat	LE cole	R	e ta		Title Date G-1 Certificate 3-/ indicate Flor	4-06 con Date -06 The follower	Mex PATE	: 2 1	etch:
Draw Arrow in North Direction	OESERV Name: Signature Croanitat	EF uple	PORT	ANT:	Please	The Cy - 1 Certificate 1 Indicate 1 Sun Nort	1-06 on Deta -06 The follower	Mex PATE Blowing	e by si	vetch:
Draw Arrow in North Direction Source	OESERV Name: Signature Croanitat	EF aple	PORT	ANT:	Please	Title Date Gentlese 3-/- indicate Flur Sun Nort	1-06 con Details on Direction of the following Direction	Mex PATE Blowing	e by si	·etch:
Draw Arrow in North Direction	OESERV Name: Signature Croanitat	EF aple	PORT	ANT:	Please	The Cy - 1 Certificate 1 Indicate 1 Sun Nort	1-06 con Details on Direction of the following Direction	Mex PATE Blowing	e by si	retchi
Draw Arrow in North Direction Source Observer:	OESERV Name: Signature Croanitat	EF uple	PORT	ANT:	Please Please Please Please Please Please Please	Title Date Gentlese 3-/- indicate Flur Sun Nort	1-06 con Detail -06 The follower	Mex PATE Blowing	e by si	·etch:
Draw Arrow in North Direction Source Observer:	OESERV Name: Signature Croanitat	EF aple	PORT I	ant:	Please Please Please Please Please Please Please	The Date 4 - 1 Certificate 1 Indicate 1 Flur Sun North April 10 to 6 conservation 10 to 6	1-06 con Detail -06 The follower	Mex PATE Blowing	e by si	vetch:
Draw Arrow in North Direction Source Observer:	OESERV Name: Signature Croanitat	S C IMF	PORT I	ant:	Please Please ons ob	The Date 4 - 1 Certificate 1 Indicate 1 Flur Sun North April 10 to 6 conservation 10 to 6	1-06 con Detail -06 The follower	Mex PATE Blowing	e by si	retch:

SOURCE	 		······································	····							
FUEL OIL # 2 BOILER		4-4	ON DAT	£	\$	TART TH	-	STOPTIME			
LOCATION	50		-26	7		101		12	200	,	
TA. 3 SM 22 POWER DLANT Type of Equitor Type of Equitor	MID	10	15	30	45	300	0	15	[
		1				Min.	\	13	30	45	
Liscite Limitagion Folia stop of stack, etc.)	1	5	0	0	So	13	0	0	0	10	
4	2			i		 	+	+	12	10	
MEST- STALK TOP OF STACK Meight Acres Ground Level (meight Leiblive to Observe)		\\$_	<u> </u>	1	0	14	0	0	0		
150 Feet 170 Feet	3		10	2		1					
Distance from Observer Direction from Observer		4	<u>' (</u>		$\underline{\mathcal{U}}$	18	0	0	LO	10	
250 +m SE	4	0		0	0	16	10		$\overline{}$		
Description of Plume Islack exist only) Destring Trapping	1 .	1			\prec		0	0	\mathcal{L}	0	
Looping Denning Oconing Deumication Emission Color Plume Type	5	0	0	0	0	17	0	0	0		
	6							_	\sim	\leq	
Water Displets Fresent?	<u> </u>	10	0	<u> </u>	Ω	1.8	0	01	0	0	
ONO DYES ITYES, propiet plume is Attached Despende	7	0	0	0	0	10					
41 what point in the plume was opacity determined?	 	 	9	91	\hookrightarrow \downarrow	19	0	O	Q	9	
TOD OF STACK Discribe Becksibung fl.e, plue sky, liees, etc.)	. 8	0	0	ÒΙ	01	20	1		Z .	\sim	
Discribe Bechstound fl.e, Dive sky, trees, etc.)					$\stackrel{\sim}{\preceq} +$		$\checkmark \downarrow$	4	4	رح	
Exergeoune Color Sky Conchions	8	0	O(a)	21		21	01	01	01	$\boldsymbol{\alpha}$	
WHITE BROKEN	10	0			$\overline{\Box}$	· 1				4	
WHITE BLOKEN Ind Speec Wine Direction (i.e. from North to South)		10	4	2 (4		0	0	0 (0 I	
5-10 mon 5 70 E	11	0	01	7 /	2	23	Δ	12			
Amplent Temperature Wet Temperature Relative Humidity		7		\leftarrow	\leq $+$		4		$\mathcal{Q}_{\mathcal{Q}}$	2	
of of the state of	12	OI	010	2/	51	.24	01		00	\neg $ $	
DOWNER 13:	Aveiage O	_			F	lenge of C	Pacity	Feacin	99	\preceq	
.	CESERV	<u> </u>				Min,:	<u>25</u>	Mex.	2	ı	
· · · · · · · · · · · · · · · · · · ·	Name	/2.	رور امار معار مرمار	0		. These	~		\$3		
to the state of th	Signature		41100	7 AC.	To	Q / 17/4	ope	RATE	42		
	- Alex				1	4.	4-0	5			
19	Organizali.				10			-			
	1					3-/-	06			- 1	
Draw Arrow in North Direction		IMPO	ORTAN	17: Ple	ese in	dicate 1)	ne folia	wine	h- +1-		
					_				-7 3×5	riun:	
					$\widetilde{\cdots}$						
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\						Plum	Direct	ion			
			•	0	•						
SOUPCI			•	$\mathcal{L}_{\mathcal{I}}$		Sun					
				1		At was				•	
				ţ		North					
		1 = 1	koowi	ecins -						_	
Observer's		visi	DIE EM	ssione	obre:	of a cop	y 01 t	n est			
Forther,				2		-e(IUNS,	- A				
		Sipe	eture:	Dec	251_	R 2	bog	% /			
					U			1		\cdot	
	j	Titte	: UF	15	Seper	ciohest	cat	········			
	_	Date	. 4	15%	Z						
		~e14		_/		·		·· · · · · · · · · · · · · · · · · · ·		1,	
00% (350ec 276)			7							-' /	

															
SOURCE	, .	2				V 47 10	-		157	ARTTIN	t	STOPTIME			
FUEL OIL	#2	DOIL	EL.,			4.4	1-06				<u>r</u>	15	200		
TA 3 SM	n 22	Done	2 PLAN.	Z	Mir.	0	15	30	45	MIR.	0	15	30	45	
FUEL DIE			A Louismen		1	0	0	0	0	13	0	0	0	7	
Cascribe Emission Point II	10p 01 1136k, e1					1 .	1			1		 	<u> </u>		
MEST S	TACK	TOP	OF ST.	ACK	2_	0	0	0	0	14	0	0	0	0	
150	Fee1	Cirection In	70	Feet	3	0	0	0	0	15	0	0	0	0	
250	****61				4	I o	0	0	0	16	0	0	0	0	
Description of Plume Islac	me istack exit only) D Lotting D Trapping Panning Coning D Exemplation					10	6	()	0	17	0		7	1	
Emission Color	Plume Type		-		6	10	0		$\tilde{\mathbf{x}}$	18					
Water Disciets Fresent?	U Continu	ous UF	pine Elmen	mitlent		0	<u>\(\) \(\) \(\) \(\)</u>		쒸		\mathcal{O}	0	익	0	
DNO DYES HY	ES, orcpies pi	ume is 🔘	Atteched D De	1Echec	7	10	0	0	0	- 19	0	0	8		
Al what point in the plume		elermineo; ACK			£	0	0		0	20	0	6			
Cescrice Background (i.e. b	Ive sky, 11845.	e1¢}		7			\lesssim		\preceq			0	O_1	<u>U</u>	
Background Color	+ BLUC	Sev	n:		- 6	0	0	Q_{\parallel}	24	21	0	0	0	0	
					10	0	0	0	0	22	0	0	0!	0	
Vind Energy mph	Mine Direction	(i.t. fiem h	E South		31	0	0	7	0	23	0	0:	_	ر د .	
	wet Temperate)†e >£	Felstive mercial	ny a	12	0	(2)		7	·24			<u>.</u>	2	
COMMENTS:					Average Openity Renge of Openity Re						<u> </u>	<u>U</u>	\cup		
				1		5-5				Min.:				-	
				1	OESERV Nyme:					2:-1-					
				ŀ	Signature	75		IFA	CUE	Oale 7ith	•				
				L	Z		//			4	-4.	06	ı	- [
				ľ	Ofganizer	SC.				3-1	on Date				
Drzw Arrow in			-				ORTA	NT: P	lease	indicate 1			by si	esch:	
North Direction	//									.					
	Hom							7			æ Dires				
	1111							5	<u>, ~</u>	· 1511	~ Drei	, INCHT)			
	source	.1							'	Sun					
								1		Norti	h				
	1			•		1.	eckno	wiecioe	recei	pi of a co	ום עם	Ties	·····	_	
	0	Position				vi	sible e	misio	ns obs	ervation	s.	,			
•		105110				Si	gneture	: Ba	Tions.	R. 2	Harr	4			
//						71	11e: U	GPS	Sup	es irkor	600	0			
		•			_	İ		4/-	1			-		-	
	1			16		C	TE:	72/	<u> </u>				<u> </u>	-	

	CESERVATION DATE					ART TIM	t .	STOP TIME				
FUEL OIL #2 BOLLER	1			-			•	i	00			
FUEL OIL #5-2 DOVER	SEC				 _	Sec		10	-			
TA 3 SM 22 POWER JUNIT	Min.	0	15	30	45	Min.	٥	15	30	45		
Type of Equity Type of Control Kausement FIGURE OIL NA	1	0	0	0	Ö	13						
	 		1							-		
Describe Emission Folia (top of Stack, etc.) WET STACK TOP OF STACK Weight Reserve to Cusene:	2	0	0	0	0	14						
	3	0	0	0	0	18						
Distance from Observe! Direction from Observe	4		0	$\overline{\Delta}$		16						
250 snor 5 E	<u> </u>	<u> </u>	0	2	<u> </u>							
Description of Flume (steen exit only) Lotting Trapping Locsing Fumication	5	0	0	0	0	17						
February Color Plyme Type	6	0	0	()	0	18				İ		
BLACK Continuous D Fugitive Dintermistens	7		N N	Δ	E)	· 19						
Al what point in the plume was opacity ceremined?	<u> </u>	14	<u> </u>	ノ	K.							
Al what point in the plume was opacity ceremined?												
Top of STACK Ciscribe Exceptound (i.e. blue sky, trees, etc.)		0	10	0	0	21						
Blue WHITE Sky Lengthons	10	0	0	2	$\frac{\mathcal{S}}{\mathcal{O}}$	22						
BLUC & WHITE BRUKEN INC Speec Wine Direction (Le. from North to South)		0	<u>)</u>	0		44						
5-10 mph) 70/5	11					23			į			
Ambiens Temperature Wes Temperature Gelative Humidity	12					·24	· 					
COMMENTS:	Average C	pacity				Range of	-					
Brance IN SERVICE NO MORE Brances		Min.: Mex.:										
WILL BE PUT IN SERVICE NOT NO OTHER	Name	・ノム		سند س	ر ب	Zera Thi	2. المائة 2. المائة		···· 47			
WILL BE PUT THE SERVICES OUT TO	Signature		1	'' '	//!/	Date		7.41	-75			
ADJUSTMENTS WILL BG 14ADG.			1-1		4	4-	4-	26				
	Organizat	lion				Certification Date						
	K	56				3-/-	06			•		
Draw Arrow in		IM	ORT	ANT:	Picase	indicate	the fo	llowin	g by s	kerch:		
Nonh Direction												
					-	.a°. An Pisa	me Din					
					_	· Fig.	THE U	121011				
Source				($\supset_{\gamma}^{\gamma}$	Sur	•					
					1	Nor	Tr)					
		1				eipt of a d	-	of thes	2			
Observer's Fosition			visible	enus:	ions o D	bservetio	73/1 17/1/1	2				
			Signatu	ne: 4	Dogg	3 R	OH4	*		- :		
			Title: .	UNP	مک	paints	w/se	<u> </u>		_		
			Date:	4/5	106	•						
	•	<u> </u>		7	/							





	·		~ ~ ~ .				10		
OUFCE 1 / # 2 B= 100	OESE F		06		0,4	TAM	,	1 JIME	. /
Fuel DII - Doiler	3/6		15 30	45	Sec	0	1		1
Fue DI # 2 Boiler OCATION TA 3 SM22 POWL Plant	Min.	U ≥====	15 31	/ NE	MIG.	-	15	30	45
Fuel Oil Pype of Control Control Control		0	00	0	13	0	0	0	0
Describe & mission Exint (100 of stack, etc.)	2	0	00	00	14	0	0	0	0
TOP of STACK Height Factore Ground Level Height Relative to Conserve	ξ.				15		5		
150 feet 000 feet	 		O	<u>ں ر</u> ر لہ		0	0	\mathcal{O}	<u>U</u>
200 FE NW	<u> </u>	75	100 15	75	16	0	0	0	0
Description of Flume 1stack exits only) Totaing Littingston	E_	50	30 25	10	17	0	0	0	0
Flume Type	6	0	00	0	18	0	0	0	0
Black Continuous Ci Fusitive Floresmittens	7	5	7/2	0	- 19	0	0	\overline{A}	
TWO YES IN YES, Gropher plume is Africated Li Deteched	 	14							<u> </u>
ONE FOOT About Stack	ξ	10	00	10	20	0	0	0	
Esertibe Exercioune the blue sky, trees, etc.)	٤	0	00	0	21	0	0	0	0
Eschoroune Color / /	4	0	00	0	22	0	0	0	
vine speed wine Direction (i.e. from North is south)	11	0	00	0	23	0		0	
Ambient Semporature Wet Temperature Relative Hemicity	12		00	0	-24	0	0		
	Average C	Descity.	<u> </u>		France of	Opecity	Fraci	ngs	٦,
COMMENTS:	10	<u> 2. 7</u>			Min.:	0.0%	<u>Mex</u>	:: /00	·0/c
	OESERV Neme:		LIAN		Z 7ini	": Ox	ZIAT	5c. 7	Z
	Signature	7.	13	\mathcal{L}	5	/3/	10	6	
The same of the sa	Organizat	nor.	0<		Caramon	on Daty			\dashv
	<u> </u>	UP,		. 5:	<u> </u>	///	2 <u>6</u>		
Drew Arrow in	~ °/_		TNATRO	: Please	indicate '	in∈ fol	llowing	Dy sk	etch:
North Direction 10.	75/0	7 = / -	,		~				
(7) n = /430	:40				2 Plur	ne Direc	ction		
SOLFC1	77. Cos.	or-	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	O_{γ}^{-}	Sun				
Source		1		1	Nort	th		•	,
				1					
		<u> </u>	ecknowle	COL PER	int of = ^	ימ עממ	thee		
Observe :		;	ecknowie isibie emii	-			41150		
Fortion.			ipnature: .	Banns	1 R. 79	langus	(
		1	inie: <u>U</u>		,	<i>v</i> (<i>,</i>		
17		i	<u>5</u>						
1/4	_	₹.	ر ــــــــــــــــــــــــــــــــــــ	90110					
				-					

	Locatev	67106	0671		1<7	MITTAA	F	STOP	7 1845	 ,
Fuel Oil #2 Boiler	OESEEVATION DATE 5/31/06				ľ		-	1		,
Fuel Dil 12 Ballet		/3/	10	_		10:4	/	,	1:3	(
100 011 0 0	1500	7	7			Sec	1			
TA3 5M22 POWER Plant Type of Control Course no	MIL	1 0	15	30	45	MID.	0	15	30	45
TO3 SM 22 YOUR CONC	4			- ***********			1	 	 	 '
Type of Control Courses:	1 ,	1		_		13		1_		
T-INI	! '		$ \bigcirc $	10] '3	10		10	
tuel Oil	1]	Ī			1	T	1	1	
receive t mission Foint from of stack, etc.)	2					14	0	0	1	
Topof Stack		<u> </u>		<u> </u>	<u> </u>	ļ	1	\cup	<u> </u>	\bigcirc
	1	1	i	j			<u> </u>	}		
wight their Ground Live	3	0				15	0			
150)	 	: 	1	<u>. </u>			 		<u> </u>	\sim
instance from Observer FL Direction from Observer	4					16			_	
Stance from Cibilities F. Direction from Crisives	-	\cup	\circ	\mathcal{O}	\mathcal{O}		0	ر	\bigcirc	\cup
		i							i	
ietion of Pilitin William St.	E .		0	0	$ \langle \rangle $	17	0	0	0	01
Chloring Ofenning Oceaning Chronication	 	<u> </u>			\sim					\simeq
Plume Type	_		_	_	\sim	1 £	_	\sim	~ 1	
The second of th	6			\mathcal{O}	O	11	\bigcirc	\mathcal{O}	\mathcal{O}	01
									1	
vater Droplets Frest nt?	7				\bigcirc	19	0	01	01	\bigcirc
When Dioplets Pleasers: Vest If YES, gropper plant is Described Described Described				\smile	-1			-	\sim	\simeq
	ے ا		_	0	0	20			~	~ 1
	₽		O		\cup	20	0	0	0	OI
	l	:	-	<u></u>						
Describe becognound file, blue sky trees, etc.)	9	0	0	$\langle \rangle$	0	21		1	1	1
alia skia / White Cloud >				\sim	4					
			_ 1	~ 1			1	f	-	1
Escretorario Color / 1.	10	0	0	01	0	22	•	ļ		
		j		i		ĺ	1	1	3	
nc speec Winc Direction (i.e. from North & South)	17	\bigcirc	0	0		23	l	į	;	1
3-5 mph 30uth to NOCTH		\searrow \downarrow		-	-				- _	i
3-5 mph South to North Section 13 mph 1 mp	امدا	0			~ 1	-24	j	i	i	- 1
** ** ** ** **	12	\mathcal{O}_{\parallel}	0		O_{\perp}	24			1	
11:3/Am Stopped to Obselve Boilerin Automatic. CAME Of Fuel Oil at 1:00pm	Average O	pecity		/		hange of	Opecity	Resci	ng:	7
COMMENTS: 11 DOSOLIO BOILEIN		0.7	~%	m .	1	Min.: /	つか?	/ Mex	:100	0%
11. 3/2 Stopped to Up 1000	DESERV						<u> </u>			-4
The state of the s		/ /			\cap			n	1 _	_
Automatic. 1 + 1:000m	Name:	DE	141	UA	M	112 Th	: <i>Ol</i>	resa.	0211	2
and of fuel oil at	Signatus	7 .		$Z \subseteq$	T - T	Date	1			
L'AME UT		$\sum_{i \in \mathcal{I}} a_i$	11	(天	\mathcal{V}	5/	(3//	06	2	i
	<u> </u>	mu			27	Ce1111/01				
	Organizat		_		1				_	1
	\mathcal{U}		>			ک	_/-	05	7	
		10.617	met /	N NIT .	Diene	:d:			. .	
Drew Arrow in		HVIT	UNIZ	~ IV 1 .	rit 25t	indicate	the 10	iowin	D DY E	fich:
North Direction										
(Orth Direction		~				7				
					٠					
(/ ` \				_		Plut	ne Dire	ction		
				1	`					
				`() '	Sun				
SOUPCI				_	-)					
· ·					1					
				1		Nort	th.			
•										
## C				•						
				•						
				•						
		<u> </u>	-/4/.	laci	34 /5-/4	int at z c	nov o	1 11,60	······································	
		ł		-		ipt of & c		l thes		-
Observe:		ł		-		ipt of a c		l thes	······································	Minister Miller of Languages
Observer:			isíble i	emisi O	ons ot	servetion	15.		***************************************	arram Ambier defende Ambier and A
			isíble i	emisi O	ons ot	servetion	15.			and the state of t
			isíble i	emisi O	ons ot	-	15.			and design the second s
			izible i	emisi 1: B	ions ot	servetion	15.			dame or or specific transfer of the specific transfer of transfer
			isíble i	emisi 1: B	ions ot	servetion	15.			The state of the s
			izible i	emisi 1: B	ions ot	servetion	15.			The second secon
			izible i	emisi 1: B	ions ot	servetion	15.			The state of the s

	DESERVATION DATE					ST ART TIME			STOPTIME					
Fuel oil #2Boiler	6	/6/	106	2	^	7:15		9	2					
THE OIL TO DE TO	500'	0	15	30	45	Sec	0	15	30	45				
1A3 SM2 CTOWOLGIANC	Mir.	-	1			Min.			-					
Type of Source	1	0	0	0	0	· 13	0	0	0	0				
Describe Emission Foint (top of stack, etg.)	7	0	_			14		-	2					
TODAT DIACA		10	10	\mathcal{O}	0	1=	0	0	$\overline{\mathcal{C}}$	9				
Height Above Ground Level Height Feizilve to Observe:	3	0	0	0	0	15	0	0	0	0				
Distance from Observer	4	0	0	0	0	16	0.	0		0				
Description of Flume Istack esit only) Description of Flume Istack esit only)	5	10				17			\sim	0				
Discours Difference Coming Differencestion		0	\cup	$\tilde{\mathcal{Q}}$	\mathcal{O}	,,,	0	\cup	\mathcal{O}_{\parallel}	\subseteq				
Emission Color Plume Type Continuous D Fugitive Cintermittens	E	0	0	0	0	18								
Water Duppiets Fresent?	7	0	0	0	0	19				.				
TENO TYPES IT YES, croplet plume is Attached Dietsched At what point in the plume was opacity determined?				~						-				
MAJO FOOT ABOUR DIGCA	8	O	0	\cup	0	20								
Blue Sky	6	0	0	0	0	21								
Eachgroune Color Sky Concisions	10	0		0		22								
Wine Direction (i.e. from North to South)	11		<u> </u>	0	0	23								
0-3 mph FROM SW TO NE		ر	9		$\stackrel{\smile}{-}$			A						
Ampletic rempeters	12	0	0	0	0	24								
Stopped Reading At 9:32Am Stopped Reading Automatic	Average C	pacity	7	0/		Range of (Min.:	Opeching G	Max	ng: .:	9				
Stopped new	OESERV				$\overline{}$					77				
Boiler IN Automic	Na me :		LIAN	_کر ا	-	Z Tith	: D	Pele	ato	771				
Just observing	Signatuur	5	.1 /	1 0		Date 6	/2/	6						
Justonos	Organizat	<u>uu</u>				Certification	on Date	-						
· · · · · · · · · · · · · · · · · · ·		PP	5/1	56	-]									
		1MF	ORT	ANT:	Please	indicate t	the fo	llowin	g by si	etch:				
Draw Arrow in : North Direction						~								
				C,	<u> </u>									
(\mathcal{A}) \ddot{n} n						- Plun	ne Dire	CHON						
				,() $$	Sun								
SOUPCE				_	,									
				1		Nort	h							
			+CkDO	wiece	ot Mich	ipt of a co	opv o	tties	,					
Observation 1		- }				servation								
Observer : Fourtor.				7	سعينيما	o Al]	1.,,						
		5	ionstu	:: As)onna	Jr. (V)	pigu	1		- :				
		7	iiie:	UPP	<u>s 5</u>	uperinte	andan-	1		}				
				///	61-	,								
	_	, (JETRI 🛣	1 10/	~ <i>L</i> 0					-				

	DESERVATION DATE	ST ART TIME	STOPTIME			
FUEL OIL #2 BOILES	6-20-06	0250	105			
FUEL OIL # 2 DOICE	Sec	Sec	1-4			
OCATION - 2 2 1/11/1-	0 15 30	45	15	30	45	
JA 3 5M 22 DOWER DLANT	Mir 0 15 30	Min.	1 12	- JU	40	
1/1)/11 of the property of						
ype of Source	1 1000	() 13 ()) 1	-		
TICL OIL NOT	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		+	ļ <u>.</u>		
Fried stop of stack, etc.)	1 , 100	\cap	.	1 .		
Ascribe Emission Folia (Top of STACK	1 2 000	() 14		!		
ID OF STACK			7			
wints Stave Ground Level Height Relative to Observer	3 000	15				
150 Feet 170 Feet	1 - 101010					
15 years work County	MA	\sim	7			
Distance from Cosciver	1 4 (2)(1)(2)((16	1 1			
Y210: 5 E	1 - 1 - V - V		╅──┤			
Description of Flume Istack exist only) Lofting [Trapping	1:10/0/01	$\int 17 $				
Description of Plant Coninc	£ () () ()	<u>ا " ا</u>	1	. !		
Checking Drenning	THE TATE		1 1			
Plume Type		7 18	1 1			
The second secon	10101010	- - - - - - - - - - 	+			
	1. 1/1/1-1	\sim 1 1	1 1	1		
Water Dioclets Fresent?	170000) 19	1 1	_		
NO DYES IT YES, croplet plume is Attached Detached	1-1212121		 			
	1 8 0 0 0 0	M 20	1	l		
		<u> </u>	$\perp \perp \perp$			
	1 1/2/20		1			
Describe Eachpround (Le. blue swy, trees, etc.)		21	1			
9, 1, 6, 1, 6			 !			
BCUE SKY Sky Concilions	I MINIAL	71 1	1	ł		
Backgroune Color	10 0000) 22	1	1		
21 LEAR	 +=+=+=+		T		1	
iwing Direction (i.e. from North to South)	11 10000	7 23	1	i	Į	
Wine sheet		4	<u> </u>		<u> </u>	
LEADING Promisity		α			1	
Ambient Temperature Wet Temperature	12 (2) (2) (3)	O 24		-		
•F 8		Fange of Opecis	IV E	ner		
	Average Opedity				_	
COMMENTS:	130 de 26.5	Min.: ,5	Mex	<u> </u>	0	
OSUD STOPPED READING	OESERVER (please print)					
- II		Tinler .	200	-0		
WHILE CHANSING TO DEFERENT	NEME: CONRROLAC		SATE	-fX		
MALLE CHILD	Signature	Date		-		
		165	- 06			
BURNER	Degenization	Certification Da	ile.			
		7		•		
	KSL LAPS	1 3.7-0	<u>05</u>			
		lemen to dit		- h-		
Description in	IMPORTANT: P	lease indicate the fo	onowin;	ā bā īķt	:1cl	
Draw Arrow in						
North Direction		بمبي				
	r2					
/ //\	. 7	Flume Dir	ection			
IZIMM						
\ / / / / / /	\ <u>`</u>	<u> </u>				
		Sun				
SOUPCI	~	j				
	4	North				
	1	NOTE				
•						
(三)						
					1	
	Lacktoniecon	receipt of a conv	of thes		-	
		receipt of a copy	of thes		ļ	
		receipt of a copy one observations.	of thes			
Observer:	visible emissio	ins observations.	of these			
	visible emissio	ins observations.	of these			
Observer:	visible emissio		ot these			
Observer:	visible emissio Signature: Ba	ans observerions.	of these			
Observer:	visible emissio Signature: Ba	ans observerions.	of these		The state of the s	
Observer:	visible emissio	ans observerions.	of these			
Observer:	visible emissio Signature: Ba Title: UPDS	ins observations. Camp R. OKan Sup	of these	- :	A CANADA CONTRACTOR OF THE CANADA CONTRACTOR O	
Observer:	visible emissio Signature: Ba	ins observations. Camp R. OKan Sup	of these		The state of the s	
Observer:	visible emissio Signature: Ba Title: UPDS	ins observations. Camp R. OKan Sup	of these		The second section of the second section of the second section section sections (see Section 1).	
Observer:	visible emissio Signature: Ba Title: UPDS	ins observations. Camp R. OKan Sup	of these		The second secon	

JUFCI	OBSERVATION DATE	STOPTIME	STOPTIME						
To a six of a Roman	6-20-06	0810	1820	_					
FUEL OIC # 2 BOTHER	500	Sec							
A 3 SIK 22 POWER PLANT DE OT SOUTH	Mir. 0 15 30	45 Min.	0 15 30	45					
De of Source Type of Control Laurg ment									
	$I^{-1} O O O$	0 13 6	2000	クト					
scribe Emission Foint (top of stack, etc.)									
TO E STACK	1 2 0 0 0	() 14 $($	1000	γ					
ight Above Ground Level Height Relative to Observe:									
150 Feet 120 Feet	1 : (1) 0 0	U 15 (1000	1					
Stance from Observer Direction from Observer									
SO YEIGE SE	1 10075 50	25 16							
scription of Flume latech exit only) Lotting Linespping									
Discours Discours Discours	5 5 0	0 17							
nission Color Plume Type	5 5 6			_					
	6000	18							
rter Dropiete Fresent;	- 2000		1.						
THE TYPES IT YES, GLODIES plume is Assected Desched	70000	19							
what point in the plume was opacity determined?	EDDD	A 20							
Scribe Exceptions de Dive sky, ties, etc.)		20							
scribe background file, blue sky, trees, etc.)	1 9 000	(2) 21		1					
BLUE SKY Sky Conditions									
exproune Color Sky Conchions	10 0000	\bigcap 22							
BLUG CLEAR INC Speec Wine Direction (i.e. from North to South)		<u> </u>							
• • • • • • • • • • • • • • • • • • • •	11 0000	23							
O. 3 mpn 3 - 14				- ^					
mbient Temperature Wet Temperature meistive momitally	12 177010	24							
	Average Opechy	Range of Open	ity Feecings						
BEGAN REDUING SMOKE AGOIN AFTER	Average Opechy			,					
Denny legions 2 100 W 41-16K	OESERVER (Dieam print) Name: CONTRO AC Signature								
CHANGING TOO DEFECTION BURNER. 0810	NEME: EQUIPED PAC	HELD Title: 1	MCKATIK	1					
	Signature	Date		1					
BURNER LIT OFF + STABLE 0823		Certification D	1-06:						
OFF FUEL AT 1035	Organization	Certification D)ale						
OF 1 100 AT 1000	KSL UPS	3-1-0	05-						
			following by thei						
Drew Arrow in North Direction		cosc morcete trie	IOHOWING DA SKEE	en:					
North Direction									
	(~								
	•	Plume Di	rection						
	′ (^ _	A A A A A A A A A A A A A A A A A A A						
SOURCE	\mathcal{L}	Sun							
	4	81							
		North							
				_					
	1 zcknowiecje	receipt of a copy	of these						
Obselver:	visible emission	s observetions.							
fourtion.	9	MAN							
		R I/No	Wes.						
	Signature: 2	Mary V. Y.							
		. (8	1.					
	Sipristore: <u>P</u>	Sup	ð						
		Sup	8						
		Sap los	Ŏ						
	Title: UPPS	Sup los	Ŏ						