

memorandum

Environmental Protection Division Office

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

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

Dear Mr. Horst:

Attached is a copy of Los Alamos National Laboratory's Title V Operating Permit semi-annual monitoring report for the period **January 1 – June 30, 2006**. This submission is required by permit condition 4.2 of NMED Operating Permit P100-M1 dated June 15, 2006, and is transmitted within the allowed 45 days after the end of the reporting period as specified in permit condition 4.3.

Date: August 8, 2006 Refer to: ENV-DO:06-009

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

Sincerely.

Victoria A. Georgi Division Leader

Environmental Protection Division

SLS:di

Enc: a/s

Cy: w/o opacity reports

- J. Prooyen, ADPADOPS, A102
- R. Watkins, ADESH&Q, K491
- S. Fong, DOE-LA-AO, A316
- P. Wardwell, LC-ESH, A187
- D. Wilburn, ENV-EAQ, J978
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J. Stanton, SSS-AE-V02, A199

R. Costa, SSS-AE-V02, A199

IRM-RMSSO, A150

ESH&Q File, K491

ENV-MAQ Title V Monitoring Report File, with opacity reports

ENV-MAQ Reading File

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



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Identifying Information		
Source Name: Los Alamos National Laboratory	County: <u>Los</u>	Alamos .
Source Address:		
City: Los Alamos	State: <u>NM</u>	Zip Code: <u>87545</u>
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Principal Company Product or Business: <u>National Security and N</u>	uclear Weapons Research	Primary SIC Code: 9711
Permit No. P100M1 {IDEA/Tempo ID No. 856}	Permit Is	sued Date: <u>April 30, 2004</u>
		M1 June 15, 2006
Certification of Truth, Accuracy, and Compl	eteness	
I, <u>Victoria A. George</u> certify that, based on information statements and information contained in the attached semi-annual residual signature. Title: Division Leader, Environmental Protection Division	n and belief formed after reamonitoring report are true, a	accurate, and complete.
TRIC. DIVISION Deader. Entra offine Rai 1 forcetton 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

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	Min	1-7	<u> </u>	10		Min.	$\mathcal{O}$	Max	$\cdot \circ$	.
· .	CREERV	EA-ipie	er 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	•			
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14 1										
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Osalva,						ervetions				
Position		"	-w-===================================	البية كمؤسسة و. و		m vacith15	•			
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		Det	<b>2</b>							
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D 089 (swed 1/85					······································					
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Environm	ontal lin	r) Private	ment	Divi	tion					
RECORD OF VISUA		•				OPACIT	ΓY			
TAIN — DUACHOR										
) Articles /	ORSER			E	5	TART TIM		STOP	TIME	
Bon. Asphalt Plant		1/5/06				9:25	5	19	13	٤_
Sign Mosq Pos Monos Mi	Min.	0	15	30	45	Mir.	0	15	30	45
Type of Source.		0	1	0	7		 			
Asphalt lard Boghouse	 	0	0	10	0	13	<u> </u>			
Describe Emission Point (top of stack, etc.)	2	0	0	0	10	14				-
Height Above Ground Lavel Height Relative to Observer	† - <u>-</u>	1	1	2	0	-				
2 O Feet 2 > Feet	3.,.	0	0	0		15				
Distance from Observer Yards Direction from Observer Variation Direction from Observer Variation Direction from Observer	4	10	0	0	0	, 16			·	
Description of Plume (stack exit only)	5	12	9)	0	5	17				
Looping Farning Coning Furnisation Emission Color Plume Type	 -	1	6	1		''				
Clear Continuous Fugitive Intermittent	6	0	0	\mathcal{O}	0	18 '				
Water Oropiets Present? A O 20 R NO YES If YES, dropiet plume is Attached Deteched	7	(3	0	0	0	19				
At what point in the plume was opacity determined?		-		41	0	7				
Describe Eackground (Le. blue sky, trees, etc.)	8	0	1)	0		20 ·				
Clear Blue Sky	9	0	<i>(</i>)	0	0	. 21			-	
Peckground Color Sky Conditions CIEGU	10	1	0	0	\bigcirc	22		•		
Wind Direction (I.d. from North to South)			7	_	· ·					
mph // Rejutive Humidity	11					23			<u>· </u>	
ncient Temperature Wet Temperature Relative Humidity	12					24			1	
COMMENTS	Average C		, 7	~ e'		Range of	Opact			_
	OBSERV	<u> /°E</u>		<u> </u>	20	Min	_0	Mas	<u></u>	9
	Name	, ,	`	0	Mic.	ate m	ر :•	W.	Σe,	·
"	Signature			14		Cata	4	06	2	
<u>,</u>	Orpanizat	**	11 2	an	, –	Cartificati	6n Dyt			
	1550	-17	7/	VV		9/1	_	<u> </u>		
Drew Arrow in North Direction		IM	ORT	TINA	Please	incleate	the fo	llowin	ê pA 2	kerch
(7) 1/4					بسبير	-				
$(\Lambda) \rightarrow H$				C		Pur	ne Dire	ction		
				6	· `	-				
SOURCE				~	7	Sun				
				1	1	Non	th.			
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		·								
$\mathcal{G}_{\mathcal{A}}$						ipt of a.c		f thes	ė	
Observer's Position		"	SIDIE (mizzi	uns ol	ASSET VIRTIGAT	T.			
		S	gratur	•:	-					_
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		Di	m=							-
D 089 issued 1/85		`								

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)	- 	 	_		$\underline{}$					
	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 -		,					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> ' ک	· ·				
SHAREN				_		Plum	ue Direc	rion		
\mathcal{N}				\ <u></u>	. ~					
SOURCE				``(_)['	Sun				•
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- In-						ervation:				
Observer's Position		**	<i>41.45</i> 0	u 11122/E	· · · · · · · ·	VALION	-			
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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.	C	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 WAKNOO		12					24				
COMMENTS:		Average C	pacity				Range of C	pacity	Apadir	<u>l</u>	
NO VISIBLE	EMICCIONE		- 0	ラー		-	Min.:	0	Max.		,
700 171000		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۔ یک	* **	-			
	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
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	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>	<u>76</u>		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		١.	٠]
Describe Emission Point (top of stack,	etc.)	 	+	 		<u> </u>			· ·		
CONVEYER Height Above Ground Lavel	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		- 1.	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		
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SOUR	CI				`O.	,	Sun				
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-	•				Ť		North				
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Ole Cole	boerver's						ervations				
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			Sign	nattire:		يمغريا	2/4)	M	- 20		
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VISIBLE EMISSION O	BSE	RV	ATI	<i>IOI</i>	V F	-OR	M	•		
Environi RECORD OF VISI	mental In					OPAČI	ITY:			
EACH _ DATECHMONT	-	. •		,		3	. , .		-	
ASPHALT PLANT	OBSER	1	TIME	•						
Type of Source.	Min.	0	15	30	45	Sac 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	Cartification Date KSC Z^1-06 IMPORTANT: Please indicate the following by									
North Direction		IMPO	RTAN	T: Ple	asse in	dicate t	he folk	wing	by ske	nch:
(7) KSHAKER				کیک		Plum	e Direct	ion '		÷
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			-		TARTTIM	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 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-TYLLE SKY 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		BLERVE	<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	Direction	on É	•	
SOURCE				•	· O	_					
30002					\cup)	Sun				
	,			~	†		North			•	
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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 SUN	` `	_	DEUK								1

EID 009 | EU-0 1/85

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		Favira	ımental lı	mnross		+ mad	_:					
-	- '	RECORD OF VIS	UAL DE	TERM	HNΔ.	TIÓN	Sion	OPAC	!T~			
FAUX DIVINO-HIDIT					******		0,	Of AC	117		, ,	•
TURCE,	·		CESE	RVATIO	N DAT		i er	TARTTI			<u> </u>	,
<u> </u>	LT.	PLANT						246		510	PTIME	: - ~
LOCATION	- 7 -	= 07C-01.60	5.0	c 0	1.	i -	ĺ	Sac	-	+	جب	~ `-
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				1
Describe Emission Point		etc)		1	1	1	1		+-	-	1-	
Height Above Ground L	IER 1		2	0	0	0	0	, 14			-	
	Feat	Feet	3	0			-	15		†	1	
Distance from Observer		Direction from Observer			انزع	10	\cup	13	╀┈	 	 	
30_	Yarcıs	RESOUTH NOUTH	4	0	0	\neg	0	, 1 6				
Description of Plume (sta	nning	VOIVE Lotting Trapping Coning D Furnishing	5	10					T	†		
Emission Color	Plume Type	Coning Furnigiation		10	\mathcal{O}	2	0	17		ļ		
NONE Water Orpoiets Present?	Contin	uous 🗆 Fugitive 🗆 Intermitment	6	0	0	0		18	١.	-		
DENO YES IT	YES, dropier p	iums is Armched Deteched	7	.				19		. 1		
At what point in the plum	e was opacity o	1 BOVE SOURCE	8					20		•		
Cescribe Background (Le.	DIU# SKY, trees,	etc.)	1	$\vdash \vdash$. 	-	20 •				
C/Em	BLUE	SKV	9		-	. -		. 21	٠. [. [· .]
Beckground Color		Sky Concitions	10					22		-		
Mind Speed	Wine Director	(La. from North to South)	1		-1		- -					
mph nplent Temperature	Wet Temperatu		. 13		, l	.]		23 .	1	Į	٠. ا	
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COMMENTS:	·		Average Ot	a city		!_		ange of C	Dancetv	Basch	-	
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	RECORD OF VISU	AL DE	ERM	INAT	ION	OF	OPACI	TY		· '.	
	FAITH DAY COMMON	•									
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	ASPHALT PLANT	ATI	316	6- 2	200	6]	11:17		11		312
		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 Phight 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
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	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>		-	
-	2000	Average Op	a city				ungs of C	1	Espais		
^	NORMAC CREMITIONS. NO	~ () -			1.	Mina (ر _{ون} دعت ۱۳۰۳	Max.		
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	Prew Arrow in North Direction 107 0 F		IMPO	TATR	IT: Pie	esse in	diczn t	he folk	gniwe	by ske	nch:
	SHAKER				 عسم						•
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	SOURCE			•	\cup)	Sun				
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RECORD OF VIS	UAL DE	TERM	INAT	TON	OF	OPAC	ĮŢΥ		. '	
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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}_{0}	<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. 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		-	+	\dashv
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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 CBERVE 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 CBERVE 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 CBERVE 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 CBERVE 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 CBERVE 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	rnent	Divis	ion					
PUINRECORD OF VISU	AL DE	i erm	INA	IUN	U +	OPACI	TY		- ′	
LOCATION PLANT	OBSER					854	AM	į	TIME	٠.
Type of Source. Type of Control Equipment	Min.	0	15	30	45	Min	J. 0	15	30	.45
Type of Source 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	b	0	0	0	15			;	-
Distance from Observer 3 O Yards South NOM	4	0	0	0	0	,- 1 6	-			
Description of Plume (stack exit only) Lotting Trapping Looping Fanning Coning Fundation	5	0	0	0	0	17				
No Emission Color Plume Type V, A	6	0	0	OK	コ	18				
Water Oroplets Present? MENO ' YES H YES, droplet plume is Aroched Detached	7)	.			19	•	-		
At what point in the plume was apacity determined? 12"TO 14" ATONE SOURCE	. 8					20				
Describe Background [La, blue sky, trees, etc.]	9		.			21	- 1		.	
Background Color Sky Conditions Sky Conditions Sky Conditions Sky Conditions	10		. -			22	- 1		• •	1
mph See ATTACKED MET	13		· .			23		·		
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North Direction OP ERATION.		IMPO	RTAN	T: Ple	ese in	वीद्यक प	e folio	wing	by ske	ich:
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SOURCE O				, O	, `	Sun	. *			
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LOCATION	(3 -		11-60-RC			15	30	45	Sec.	0	15	30	45
A SPIALT Describe Emission Point		13A	SHOUSE	1	0	0	0	0	13			-	
Height Above Ground L	OF	SHAKE	ER	2	6	0	0	0	. 14				•
Distance from Observer	7 Feet		lative to Observer 40 Feet	. 3	6	0	0	0	15			:	
Description of Plume (co			Trom Observer VORTH	4	0	0	0	0	, 16				
		Coning	ofting	5	0	O	0	0	17				
NONE Water Oropiets Present?			verifie intermittent	6	0	0	0	0	18 '		•	-	
	YES, droplet	plume la C	Attached 🗀 Detached	7 (5	0	0	0	19		.		
2"To /	4" A7	30UE	SOURCE	8	0	0	0	0	20 •				
			CLOUDS	9	0	5	0	0	21	. [].	
Mnd Speed			CGTR North to South)	10	0	0	2	0	22	-	·		
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Draw Arrow in				· · · · · · · · · · · · · · · · · · ·	KS				_2	-/-	0	<u> </u>	
North Direction					IMPC	IN I A	NT: PI	ease in	ndi cate t i	ne folle	wing	by ske	nch:
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HOMOMON HEAT									٠.	O. AO.	• •		• ,	
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LOCATION		-		~~	Sec					Sec	1			<u> </u>
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Type of Source.		1	entral Equipment		START		Π							
ASPHALI	7	133AC	HOUSE]].	0	0	0	0	13				
Describe Emission Point		etc.)			T _	1			T -	1	1			
TOP OF	BAGH	DUSE			2	0	0	0	0	, 14				·
Height Above Ground La	vel		tive to Observer		1					<u> </u>				
<i>7</i> 5	Feet		20 5	et	- 3	0	0	0	0	15				
Distance from Observer			om Observer		Ι.									
<u> </u>	Yarda	NO	patt .		4	0	0	0	0	, 16				
Description of Plume (sta	ck exit only)	. O h	oftsing Trapp	ing										
☐ Looping ☐ ☐ ☐ ☐	inning 🗀	Coning	C Fumigation		5	0	0	0	5	17				
Emission Color	Plume Type	2/02	E Igitive O Intermitte		er?									
NO EMISSION	Contin	Uoun D Fu	gitive 🔲 Intermitte	nt	ь	0	0	\mathcal{O}	0	_ 18 ¹		1		
Water Oropiets Present?					_		_]	***************************************		1	. 1	
X NO YES H	YES, droplet p	lume is 🗆	Arteched C Desset	ed .	7	$ \mathcal{O} $	0	0	0	19		.		
At what point in the plum			* .				·	_				•	T	
2 TO 14 Describe Background (i.e.	11800	<u>ve 57</u>	NCK EX	17	8	0	0	0	\mathcal{O}	. 20 ·			- 1	
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BACKGROUNG COLOR	Somo	CL	onos		9	0	5]	0	0	21	٠			
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Mind Speed	Wind Directio	in (l.s. from i	Yorth'to South)		1					·				
nph ,					17			<u> </u>		23				٠.
nblent Temperature	Wet Temperat	•k: mu	Relative Humidity		12				1	24	1			
OMMENTS					Si 01	pacity				Range of	Deacty	Readt	nes .	
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Draw Arrow in		_				IMP	ORTA	NT: F	le asa	indicate :	the fol	lowing	the el	
North Direction	٠, ٠	>¥. ≤	MEK MEHOUSE							-,			, /	
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LOCATION	<u>, , , , , , , , , , , , , , , , , , , </u>	<u> </u>			<u> </u>) 	100	5 1/	L113	AM	1//	22	AM
Type of Source	33_	Type of C	-60 - RC	Min.	0	15	30	45	Min.	0	15	30	.46
ASPHA	LIT	734	GHOUSE	1	5	15	20	10	13				
Describe Emission Point		tc.)			1	†	T	1	 				
CONV(BEL	Tative to Observer	2	10	20	30	40	14				•
5	Feat		5 Feet	3	25	30	40	40	15				
Distance from Observer	Yarde	1	om Observer	4	40	50	40	40	16				
Description of Plume (sta		Coning	ofting Trapping	5					17		1	\neg	
Emission Color	Plume Type	CONTRIN	☐ Furnigation		10	20	24	20	****				
Water Oropiets Present?	Continu	uous 🔘 Fi	ugitive Kintermittent	6	5	5	10	5	18 '	,			
NO TES H	YES, dropies pi	ume la 🗆	Attached Deteched	STAR	ક	10	5	5	19		. [
At what point in the plum			DURCE	8	5	0	5	5	20 -		•	1	
Describe Background (Le.	blue ricy, trees,	etc.)					· _				\dashv	\dashv	
Background Colot		ky Condition	SOME CIOC	015 -	5	0	5	5	- 21			- 	
Mind Speed	Wind Direction	PART Trom	COUDY	10	5	5	5	5	22				
mph				17	0	5	5	0	23				- [
npient Temperature	Wet Temperati	inte Tibe	Relative Humidity	END 12	0	5	5	0	24				
COMMENTS:				Average C	Dacity			_	Range of C	Inactiv	Pendle		
VERY WIN	7 - X	DRV	CONDITION	اء		#	0	ľ	Min	0		10	.
1 00 12 1	1	- J	-01110V.	OBSERVI	ca (pie	es prin	t }					70	_
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				Organizati		sL		19		n Date			
Draw Arrow in	······································		7	<u> </u>			NT. P						
North Direction		7	Conveyer			····		16 404 1	ndicate t	ne rou	owing	Dy sk	etch;
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VISIBLE EMISSION OBSERVATION FORM

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Environmental Improvement Division

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VISIBLE EMISSION OBSERVATION FORM

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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	
9.1.12.5	1 st stage downstream concentration (part./cc)	5-246×10 part, concentration
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%)	2. 079 ×10-5
9.1.12.8	2 nd /3 rd stage Penetration ≤ 2.5 x10 ⁻⁷ (efficiency ≥ 99.999	
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	40
HV-852-A	Closed	mmi	60
HV-852-AA	Closed	Ewm	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	FF-853 H-5-1440			
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	d 2.71 x x	(10 ⁶ part./		
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	P7	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	mmed
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	A-21:357	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 PART	
October	100		43	October			
November			3 S	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				
		4 11 1	er Gas Use CF) ^(c)	TA-50-2 ^(d) (MSCF)	Total Ga	ıs Use ^(a)	Non-Metered Gas Use	12-Month Rolling Total for
	Month	BHW-18 (B-602)	BHW-2B (B-603)	BS-1	(MSCF)	(MMSCF)	(MMSCF)	all Small Bollers (MMSCF) ^(*)
	January	2751	135		69,973	69.97	66,84	513.43
	February	591	0		59,582	59.58	58.74	504.46
l	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
ᇤ	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 Batch		55		Trichloroethylene			
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

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



Apr-10-2006

Apr-27-2006

May-01-2006

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Degreaser Compliance User's Guide

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

Attachment F
Internal Combustion Generator Hours of Operation

								First 6 Month Readings 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	03.00.0000000	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	697		
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	452.12	<u> </u>	
33	20	Kohler	30ROZ	30	Diesel	Nov-05	915.2		916.7	1.5		<u> </u>	ļ
33	151	Caterpillar	XQ225	225	Diesel	Nov-05	2944.0	<u> </u>	2944.0	0.0	7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		
33	208	Kohler	1600ROZD	1600	Diesel	Nov-05	4.9		4,9	0.0	2 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4		
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			<u> </u>
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	7,8103	<u> </u>	
48	45	Onan Sons	DFCB-5740130	300	Diesel	Nov-05	343.7		2,9	2.9	5. 1.00000000000000000000000000000000000		
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	1000000		
53	1	Onan Sons	120-1040607.0	60	Nat. Gas	Nov-05	1067.1	Apr-06	1110.9	43.8	800	 	
53	2	Kato Eng.	Kaman	50	Diesel	Nov-05	194.3	·	194,3	0.0			
53		Cummins	1 12/1/201	60	Diesel	Nov-05	4440.0	····	4440,1	0.1	222 222 222 222 22		
53	M	Onan Sons		12.5	Nat. Gas	Nov-05	581.5		581.6	0.1		<u> Santa da /u>	
54	412	Olympian	95M-07874-F	500	Diesel	Nov-05	269.2	· · · · · · · · · · · · · · · · · · ·	282.5	13.3	7.00		
55	5	C.ympian	COMPONENT .	100	Nat. Gas	Dec-05	62.4	1	65.7	3.3			i i aga a sa
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	TIENSOI EGASOI	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			1
55	142	Cummins	DFEB-4963414	400	Diesel	Dec-05	75.0	· · · · · · · · · · · · · · · · · · ·	79.4	4.4		<u>lipinaryati wa maji yi is</u> L	
59	1 1	Allis Chalmers	2884-0703	90	Diesel	Nov-05	736.8		742.0	5.2		randa Managara	
63	Yard	Murphy	15004-0103	20	Diesel	Nov-05	569.9		715.9	146.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
64	1	Onan Sons		250	Diesel	Nov-05	134.5	1	140.4	5.9	350 2610		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. 13.53.4.3 13.843.888.89		
		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	

A	
Annual Boxes (2006):	6,349
minual Dokes (2000).	1 0.047
	\$ 3 alab ar 7 d. T.

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	
Date	Time	Opacity
02-21-06	9:44 am	9.625%
03-28-06	8:10 am	0%
04-04-06	10:15 am	5.5%
05-31-06	10:47 am	10.75%
06-06-06	9:15am	0%
06-20-06	7:50 am	6.5%
	02-21-06 03-28-06 04-04-06 05-31-06 06-06-06	02-21-06 9:44 am 03-28-06 8:10 am 04-04-06 10:15 am 05-31-06 10:47 am 06-06-06 9:15am

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	
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(50	Lame to UPserve.	0000
distance from Observe	170	
_ 250	Checien from Chains	0000
escription of Plume (s	NW	10000
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c 5 best	wine Direction (i.e. from North to South)	
3-5 mph	SE to NW	2000 22
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1MEN75:	helative mumicity	0000 22 0000
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		Signature Opposed
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)		IMPORTANT: Please indicate the following by sketch:
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At what point in the plume was opacity determined?	-	1		<u> </u>				*		싞
TOO OF STACK		ļΟ	0		Û	20	\mathcal{U}	<u>の</u> k		21
Coscribe Exchiround (i.e. Dive say, trees, etc.)	£	0	0	0	01	21 ·	0	()	0	\J
Background Color DI Sky Conchions	10	N	0	Δ	M	22		0		H
GRAY + BLUG PIRTLY CLOUPY		1	<u> </u>	$\stackrel{\checkmark}{\leftarrow}$	兴		믯		<u>ب ۲</u>	싀
0.3 mph 5-1	11	$ \mathcal{O} $	0	0	01	23	0	\mathcal{O}	20	\mathcal{O}
Ambient Temperature Wet Temperature Aciditive Humidity	12	0	01	01	oT	.24		0	01	7
	Average C	ovel13	<u> </u>	<u>.</u>	~	hange of	Opediy			_
			<u> </u>			Min.:	0		<u>. O</u>	
· . I	CESERV		aan prir			***				
1	Name: Signature	4	VACO	TAC		Title Date	- oyi	CRAT	<u> </u>	
					.	_ <i></i> 7-28	_ ′	_		1
<u>_</u>	نتناء دوات	7				נויווויוי)	on Date	· · · · · · · · · · · · · · · · · · ·		
	, ,	KSI			- 1	_				
						<u></u>	-06			
Draw Arrow in		IMP	ORTA	N7: F	I E #SE	indicate:		lowing	by sk	etch:
North Direction		IMP	ORTA	N7: F	isase .			lowing	by sk	etch:
		IMP	ORTA	N7: F	ile asse	indicate :	the foi		by sk	etch:
North Direction		IMP	ORTA	NT: F	lease	indicate :			by sk	etch:
North Direction		IMP	ORTA	NT: F		indicate :	the foi		by sk	etch:
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North Direction		IMP	ATRO	NT: F	Please	indicate :	the fol ne Direc		by sk	etch:
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Norsh Direction		,		1);	Plum Sun Nort	the fol ne Direc	Clion	by sk	etch:
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Norsh Direction		1	eckno isiDle e	1 wieco	e receiptions obs	Plum Sun Nort	the foliate Direction	Clion	by sk	etch:
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Norsh Direction Source:		<i>1 v s s s</i>	ackno isible e	1 wieconissie	e receipne ob	Plum Sun Nort	the following Direction opy of the St.	Clion	by sk	etch:
Norsh Direction Source:		1 v. Si	ackno isible e	1 wieconissie	e receipne ob	Plum Sun Nort pt of a conservation R. 2	the following Direction opy of the St.	Clion	by sk	etch:

SOURCE	OBSERY				57	ART TIM	£	STOP	TIME	
FUEL OIL # 2 BOILER		ر. ۶	8-00	<u> </u>		0810)	1	115	
TA 3 SIM 22 DOWER PLANT	Min.	0	15	30	45	MIN.	0	15	30	45
Type of Source Type of Control Equipment Type of Source Type of Control Equipment	1	0	0	0	O	13	0	0	0	0
Describe Emission Point (100 of stack, etc.)	2	0	0	0	0	14	0	0	0	0
Height Above Ground Level Height Relative to Observer	3	10	0	1	\mathcal{O}	15	7	0	0	
Distance from Observer Direction from Observer	4	1	5	0		16	5	$\langle \rangle$	1	5
Description of Plume (stack exit only) D Lotting D Tracping		12	10	10	$\frac{\mathcal{O}}{2}$	- 10		U	2	$ \mathcal{Q} $
D Locaing Fenning Coning Fumipation	5	0	0	0	0	17	0	0		0
Emission Color Plyme Type BLACK Continuous Fugitive EIntermittent	6	0	0	0	0	18	0	0	0	0
Water Dropiets Present? ENO DYES If YES, proplet plume is Attached Detected.	7	0	0	0	0	· 19	0	0	<u>()</u>	
At what point in the plume was opacity cetermined?	8	0	0	0		. 5Q	0	Š		Ĭ
Describe Background (i.e. blue sky, siees, etc.)				3	<u>/</u>		7		7	4
Eachground Color: 2 Say Conditions	9	1	0	7	\mathcal{Q}	21	2	잌	\mathcal{O}_{\downarrow}	띡
GRAY + K/UF DARTIN (LOUDY)	10	0	0	0	0	22	0	0	0	0
Wind Speed Wind Direction (Ue, from North le South)	11	0	0	0	0	23	0	0	0	0
Ambient Temperature Wes Temperature Relative humidity	12	0	0	0	0	-24	0	D	0	
	A							<u> </u>		
COMMENTS:	Average C	PACITY			- 1	Range of	Opedity	Read	luða.	- 1
			<u> </u>	~!\		Min_:	Opedi;	Read! Maa	~ ~	
	OBSERV					Min.:	0	Мэ	u: <u>()</u>	1
		E# (ph (E0)			CHEC	Min.: O Title Date	<u>e</u> • • •	Mar SZA	~ ~	3 .
	OBSERV Name: Signature	ER (ph			CHEC	Min.: O Thi	<u>e</u> • • •	Mar SZA	u: <u>()</u>	1 .
	OBSERV Name:	ER (ph			CHEC	o Trib Date 3-2 Carillian	8-0	Ms: 82A	u: <u>()</u>	1
	OBSERV Name: Signature	LEO LEO KSL	NACY S	, β. >	CHEC	Min: O Title Dete 3-2 Cortificati 3-/	8-0 8-0	Ms: 524	1.1 O	keteh
	OBSERV Name: Signature	LEO LEO KSL	NACY S	, β. >	CHEC	o Trib Date 3-2 Carillian	8-0 8-0	Ms: 524	1.1 O	keteh
Draw Arrow in	OBSERV Name: Signature	LEO LEO KSL	NACY S	, β. >	CHEC	Mina Date 3-2 Continue 3-/ indicate	8-0 en Dat -0 &	SEA.	1.1 O	ketch
Draw Arrow in	OBSERV Name: Signature	LEO LEO KSL	NACY S	, β. >	CHEC	Mina Date 3-2 Continue 3-/ indicate	8-0 8-0	SEA.	1.1 O	ketch
Draw Arrow in	OBSERV Name: Signature	LEO LEO KSL	NACY S	, β. >	CHEC	Mina Date 3-2 Continue 3-/ indicate	8-0 en Dat -0 &	SEA.	1.1 O	ketch
Draw Arrow in North Direction	OBSERV Name: Signature	LEO LEO KSL	NACY S	, β. >	CHEC	Min.: O Title Date \$ - 2 Continuati 3 - / indicate	8-0 on Dat -08 the to	SEA.	1.1 O	ketch
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Draw Arrow in North Direction SOURCY	OBSERV Name: Signature	ER (ph	PORT	ANT:	Please	Min.: O Title Date \$ - 2 Continuati 3 - / indicate Plue Sum Non	8-0 on Dat -0 & The to	Max SEA 6 flowin	TER	ketch
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Draw Arrow in North Direction SOURCE Otherwor's	OBSERV Name: Signature	ER (ph	ORT /	ANT:	Please Please OF rece Ons ob	Min.: O This Date 3-2 Continuati 3-/ indicate Plur Sun Non Non Representation	8-0 on Dat -0 & The to	Max SEA 6 flowin	TER	ketch
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		•
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 18 0000
Distance from Observer	1000	0 10 000
Description of Plume Islack eals only? Lotting Dispping	10000	
Contact Color Plante Type	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 Openily	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

FUEL OIL #2 BOILER	3-28-06 080 1015	
OCATION CONTRACTOR (122)	Sec 10 15 20 45 Sec	
TAI 3 5M 22 YOWER PLANT	Mir. 0 15 30 45 Min. 0 15 30	45
FIRE OIL NA	1 00000 12 000	0
escribe Emission Foint (top of stack, etc.)	1:0000 :000	
WEST STACK - TOD OF STACK Helph Above Ground Level Helph Felelive to Observe	1000014000	0
175 Feet 190 Feet	1 5 0000 15 0 00	0
Islance from Observer	40000 16000	0
Escription of Piume Islack exit only) Lotting Trapping	10000 17000	
O Looping O Fenning O Cening O Fumipation Tission Color Plume 7 year		0
BLACK Consinuous Fugitive Intermittent	6 0000 18 000	0
aler Dropiets Present?	100000 18000	
what point in the plume was opacity determined;	0000	4
ISCRIDE EXCEPTION (I.E. Blue Sky, Irees, etc.)	E 0000 20 000	
GRAY + BLUE SKY	1 5 0 0 0 0 21 0 0 0	0
	10 0000 22 000	
GRAY + BLUE PARTLY CLOUDY INE Speec Wino Direction the from North to South)	0000	
0-3 mph S-N	11 0000 23 000	0
nblent Temperature West Temperature	1 12 0000 01 24 000	0
MMENTS:	Average Opacity Featings	
	CESERVER (please print)	<u>'</u>
	Name: LEONARD PALHERO THE OPERATER	
	Signature Cote 3-28-06	
	Esparterion Certification Date	_
	KSL 3-1-06	لب
Draw Arrow in North Direction	IMPORTANT: Please indicate the following by s	ketch:
	- minimum	
$() \cdot $	Flume Direction	
	· ·	
	\ <u>\</u>	
SOURCE	Sun	•
SOURCE	Sun 1 Norm	•
SOURCE		•
SOURCE	1 North	
	1 North I acknowledge receipt of a copy of these	***************************************
SOURCE 2 FOSTION	North I schriewledge receipt of a copy of these visible emissions observations.	
Opene :	1 North I acknowledge receipt of a copy of these	
Opene :	North I schriewledge receipt of a copy of these visible emissions observations.	
Opene :	I SCHROWLEDGE RECEIPT OF E COPY OF these visible emissions observations. Signature: Banaca R. Abayana Title: UPPS Ops Super Info Selections.	
Opene :	I sektionledge receipt of a copy of these visible emissions observations. Signature: British R. Mayor	

SOURCE					DESERV	OLTA	N DATI		5	ART TIM		STOP	7155	-
LOCATION LOCATION	16 # 3	2_B	ILER			28		<i>'</i>		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 ק	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				
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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	1 691	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	人	1	<u>(</u> ک		L							,	 '

SOURCE OSSERVATION DATE							7.5					-	
FUEL OIL	# 2) je	BOLLER		1-4	,	•		015	- E	STOP	TIME	
LOCATION	71	\sim	2011261	500		1	1	1/	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 OIL		1 / L	/ / 	-	10	+	0	10	 	0	0	0	0
WEST STAL			To The Great	2	0	10	0	0	14				
Helphi 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	$\dot{\circ}$
Distance from Observer	Yorke	Oirection t	Tom Caserver	4	0	0		$\overline{}$	16				
Description of Plume Israc			<u>ا لاح</u> offine Dirapping	 	10	0	0	\mathcal{O}_{-}		0	0	0	\mathcal{O}
O Loopins O Far		Coning	Orting U Trapping D Fumigation	5	0	0	0	75	17	0			6
Emission Color	Plume Type			6					4.5	ب			
BI ACK	Continu	uous 🗆 F	upitive Sintermittent	 	75	50	5	0	18	0	0	0	0
ZNO DYES HY	rES, propiet p	lume is C	Attached Detached	7	0	0	0	0	19	0	0	01	
At what point in the plum	was coacity	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 POPLE -	~		st.	. 8		0	0	0	21	01	0	0	0
Backgroune Color) (_	<i>^</i>	10'	0	0			22	0		~	
VINC Speech	Wind Direction	h ile. trom	North to South		<u>-</u> -		0	9		싴	<u> </u>	0	2
2-5 mph	500	<u> </u>		11	0	01	0	0	23	<u> </u>	0		0
Amplent Temperature	wel Temperat	-k	Relative Humidity	13	0	0	0	01	24	0			\supset
COMMENTS:				Average O					Range of C	Pacity	Feaci	ngs	=
1 .		'n 10		- 5	• 5				Min.:		Mea		
BURNER ON	AROUT /	0 0 30											
BURNER ON			ļ	CESERVI	R Jole	ese prir	" ³))	_	不	جز_	عربد	
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1	T 10:	27 .	<i>.</i> ≸.	OBSERVI Name: Signature	A jple	MARI		actie	CO Title	**************************************	Lari	H H	
BOILE TEST A	T 10:	27 .	1	Name: Signature	<u> </u>	MARI		actie	Constitute and	4-0	Lati 6	* * * * * * * * * * * * * * * * * * *	
BOILE TEST A	T 10:	27 .	1	OBSERVI Name: Signature Signalari	<u> </u>	MO KI		actie	Certification	7-0	6	X)	
BOILER TREP A BURNER BACK Draw Arrow in	T 10:	27 .	1	Name: Signature Organizan	(to.	NO KJ			Certification 3-1	7-0 on Date /-06	6		
BURNER BALL	T 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	T 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	T 10:	27 .	1	Name: Signature Organizan	(to.	NO KJ			Certificate 1	9-0 on Date /-06 the fol	llowing		xeteh:
BOILER TREP A BURNER BACK Draw Arrow in	T 10:	27 .	1	Name: Signature Organizan	(to.	NO KJ			Certificate 1	7-0 on Date /-06	llowing		etch:
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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 Pur Sun North	7-0 on Date 1-06 the followed Direct	llowing ction	g by sk	etch:
BOILER TREP A BURNER BACK Draw Arrow in	ON 10	27 230		Name: Signature Organizan	IMP	ORTA Geknor	NT: F	Please Please e recei	indicate 1 Puri Sun North	7-0 on Date 1-06 the followed Direct	llowing ction	g by sk	setch:
BOILER TREP A BURNER BACK Draw Arrow in	ON 10	Daerver's		Name: Signature Organizan	IMP	ORTA	NT: F	Please Preceipns ob	Certificate 1 indicate 1 Sun North	he follower Direct	llowing ction	g by sk	etch:
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BOILER TREP A BURNER BACK Draw Arrow in	ON 10	Daerver's		Name: Signature Organizan	IMP	ORTA	NT: F	Please Preceipns ob	indicate 1 Puri Sun North	he follower Direct	llowing ction	g by sk	etch:

SOURCE DESERVATION DATE STARTTIME STOPTIME										
FUEL OIL #2 BOLLER	4-4.06 1015					~	1200			
LOCATION	500	<u> </u>		į	<u> </u>	Sec		+4=	00	T
TAS SM 22 POWER PLANT Type of scurrer Type of scurrer Type of scurrer	MIN.	10	15	30	45	MIR	0	15	30	45
Type of Equity Type of Control Louipmen:					i) 	1	-	
FUEL OIL NA	1	0	0	10	0	13	10	0	0	0
Describe Emission Foint (top of stack, etc.)	7			;	i]	1		 _	
WEST STACK TOP OF STACK Helph Above Groung Level Ineight Relative to Casers	2		0	10	0	14	10	0	0	0
	3				-					٠,
Cistance from Observer Cirection from Observer	<u> </u>	<u> </u>	10	0	0	15	10	0	0	0
250 xere: 55	4	0	0	0	0	16	0	0	0	7
Description of Plume (Stack east only) D Lotting D Trapping	2	-	1	1	[1				~
Looping Fanning Coning D tumigation	٤	0	10	0	0	17	0	0	0	0
Emission Color Flume Type	€	10		0		18		7	0	
BLACK Continuous Fugitive Cintermittent	 	┼──	1		<u>ر</u>	1 42	14	0	<u> </u>	\leq
DNO DYES IF YES, proplet plume it Desected Desected	7	0	0	0	0	. 19	0	0	25	74
At what point in the plume was opacity determined?			<u> </u>				 			-3-
TOP OF STACK Describe Escapiound (I.e. Dive sky, 11841, etc.)	ε	0	0	0	0	20	50	50	5	01
	8	0		/ 1	0	21	0			
BLUE + WHITE S'KAY Bacaground Color Say Conditions		1		1			9	9	9	\mathcal{O}
Blue + WHITE SAME	10	0	0	0	0	22	0	0	0	0
Vine apere Wine Direction (i.e. from North to South)	11	0	0	0		23	0	\wedge	0	
2-5 mph SAME Amblent Temperature Met Temperature Relative humidity				_	9			<u> </u>	9	\mathcal{Q}_{\parallel}
•f •f 3	12	0	0	0	0	24	01	0	25	S
COMMENTS:	Average Opecity Readings S - 5 Minut 7 Mexic 3									
	_	CEST DVII TOTAL CHAPT								•
1055 : BURNER ON	CESTON	(OSSERVER DISCOURSE INCOME COLORS)							<u>د</u>	_
1055: BURNER ON	CESTON	T.E	age pil	nt) 2			不		1 7	7
1055: BURNOR ON	CESTON	LE IDIE	22 EII	nt) 2 Pac	Hero	7 in l	" ope	 2,47.6	1 7	
	OESERV Name: Signature	LF (0)0	NARG	nt) Pal	HEKO .	7 in l	不	 2,47.6	1 7	
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	OESERV Name: Signature Crganitat	LF (0)0	ves.	nt) Par		Titl Date 4-:	1: ope 4-06	PATE	1 7	
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MEST STALK TOP OF STACK Meight Aprile Ground Level (meight Leiblive to Observe)			<u> </u>	1	0	14	0	0	0	6
150 Feet 170 Feet	3		10	2						1
Distance from Observer Direction from Observer	- 	40			\mathcal{Q}	18	0	0	10	10
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Description of Plume Istack exist only) Destring Trapping	1 .	1			\prec		0	0	9	0
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41 what point in the plume was opacity determined?	 	10	<u> </u>	4	\hookrightarrow \downarrow	19	의	0	Q_{X}	<u></u>
TOD OF STACK Discribe Exceptional fl.e, plue sky, lives, etc.)	. 8	0	0	ÒΙ	21	20	1		7.	~
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	DESERVATION DATE IST ART TIME								•		
SOURCE	2			-	-	157	ARTTIN	_	,	TIME	
FUEL OIL #2	BOILER		4.4	<u> 1-06</u>				5	15	200	
TA 3 SM 22	POWER PLANT	Mir.	0	15	30	45	MID.	0	15	30	45
FUEL DIE	Type of Control Equipment	1	0	0	0	0	13	0	0	0	7
Cascille Emission Point (top of stack,			1	†			1	_	1	14	1
WEST STACK	TOP OF STACK		0	10	0	0	14	0	0	0	0
150 Feet	170 Feet	3	0	0	0	0	15	0	0	0	0
Distance from Observer	Sirection from Observer	4	0	0	0	0	16	0	0	0	0
Description of Plume Islace exit only)	Dicting Direpting	7	i	i							_
	Coning [Li tumisation		10	0	0	0	17	0	0	0	0
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At what point in the plume was opacity	determined;	1	+	<u> </u>	$\stackrel{\smile}{\smile}$	\sim		~	4	4	<u>U</u>
TOD OF 5	TACK	E	0	0	0	0	20	0	01	0	0
Cescribe Beckground (i.e. blue sky, 1144)	(etc.) 50.1	9	3	0			21	0	0	0	<u>~</u>
WHOTE + BLUE BACKGROUND COLOR	Sky Conthion:	 	$\frac{1}{2}$		<u>_</u> '	4		\mathcal{L}	-	\mathcal{L}	<u>U</u>
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OESERVATION DATE START						ART TIM	t	STOP	TIME	
FUEL OIL # 2 BOURK	0622						•		00	
FUEL OIL #5-2 DOLLER	Sec	<u>.</u>				Sec			$-\gamma$	
TA 3 SM 22 POWER JUANT Type of London Koulement	Min.	0	15	30	45	MIN.	0	15	30	45
Type of Equity Type of Control Kausement FIG. OLL NA	1	0	0	0	Ö	13			Ì	
FUEL OIL NA Describe Limitsion Foint (100 of stack, etc.)		122	1					ऻ	- i	
WEST STACK TOP OF STACK Winni Above Ground Level meight Relative to Charner	2	10	0	0	0	14				
	3	0	0	0	0	18				
Distance from Observer Direction from Observer	4		0	\cap	0	16				
		<u> </u>	2	<u> </u>	_					
Description of Plume (steen esit only) Lotting Trapping	5	0	0	0	0	17				
Emission Color Plume Type	6	0	0	\bigcirc	0	18				
BLACK Continuous O Fugitive State misters water Deceles Present?	7		ח	$\overline{\Delta}$	<i>(</i>)	· 19				
Al what point in the plume was opacity cetermined?		14	<u> </u>	ノ	×					
Al what point in the plume was opacity cetermined?	8	10	0	0	0	20				
Top of STACK Discribe Exceptound (i.e. blue sky, trees, etc.)	. 9	10	10	()	\bigcirc	21				
BUE WITTE SKILL	10	0	0	2	$\frac{\mathcal{S}}{\mathcal{O}}$	22				_
BLUG + WHITE BROKEN Inc speec wine Direction (i.e. from North to South))		_					
5-10 mph 70 /5	11					23			<u> </u>	
Ambient Temperature Wet Temperature Relative Humidity	12					-24				
COMMENTS:	Average C	pacity				Range of	-	y Seadl	w 600	
BURNER IN SERVICE NO MORE BURNES	OBSERV	\sum_{i}		P. 1		Min.:	<u> </u>	Max	<i>ڪڪ</i> ٿ	
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Fuel Oil Pype of Control Control Control		0	00	0	13	0	0	0	0
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Description of Flume 1stack exits only) Totaing Littingston	E_	50	30 25	10	17	0	0	0	0
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Esertibe Exercioune the blue sky, trees, etc.)	٤	0	00	0	21	0	0	0	0
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Type of source	Type of Control Eden went	1	0	0	0	0	· 13	0	0	0	0
Enscribe Emission Foint (top of stack,	151	2	0		0	0	14	1	0	2	
TOPO+ STAC	Melght Felzilve to Observe:	 	1	10				\cup	0		4
Height Above Ground Level /50 Feet	175 Feet	ε.	0	0	0	0	15	0	0	0	0
Distance from Observer	Direction from Ctarives	4	0	0	0	0	16	0	0	\bigcirc	0
Description of Flume Istach ests only)	Elotting Cirepping	5	10	0			17			$\overline{\wedge}$	0
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