Los Alamos
NATIONAL LABORATORY
EST.1943

Environment, Safety, Health and Quality
P. O. Box 1663, MS K491
Los Alamos, New Mexico 87545
505-667-4218/Fax 505-665-3811

Date: January 26, 2010
Refer To: ESH&Q-10-001

Manager, Compliance & Enforcement Section
New Mexico Environment Department
Air Quality Bureau
1301 Siler Road
Building B
Santa Fe, New Mexico 87507-3113



Dear Compliance & Enforcement Manager:

SUBJECT: ANNUAL COMPLIANCE CERTIFICATION REPORT FOR JANUARY– DECEMBER, 2009
TITLE V OPERATING PERMIT P100R1
IDEA ID NO. 856 – LOS ALAMOS NATIONAL LABORATORY (LANL)

Attached is Los Alamos National Laboratory's Title V Operating Permit Annual Compliance Certification Report for the period **January 1 – December 31, 2009**. This report is required by permit condition 5.1 of Operating Permit P100R1, and is being submitted by January 30, 2010, as required by this condition. In addition, this certification is made on NMED's Annual Compliance Certification Report Form, is certified by LANL's "Responsible Official" as defined in 20.2.70 NMAC, and a copy is being provided to US EPA Region 6.

One permit deviation occurred during this certification period. The deviation was with permit condition 2.1.4.3 of our operating permit. Detailed information on this deviation can be found under the compliance method column for this condition and in part 2 of the attached report. No excess emissions occurred as a result of this deviation.

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 (505) 665-2169 or David Paulson at (505) 665-8884.

Sincerely,

J. Chris Cantwell
Associate Director
Environment, Safety, Health & Quality
Los Alamos National Security, LLC

Attachment: a/s

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Sincerely,

J. Chris Cantwell
Associate Director
Environment, Safety, Health & Quality
Los Alamos National Security, LLC

Attachment: a/s

Cy: David Garcia (6EN-A), U.S. EPA
M. Mallory, PADOPS, A102
S. Fong, DOE-LASO, E550
P. Wardwell, LC-ESH, A187
C. Blackwell, LC-EHS, A187
D. Hjeresen, ENV-DO, K404
D. Wilburn, ENV-EAQ, J978
S. Story, ENV-EAQ, J978
IRM-RMSSO, A150
ESH&Q File, w/att., K491
ENV-EAQ Title V Certification Report File
ENV-EAQ Correspondence File

New Mexico Environment Department
Air Quality Bureau
Compliance and Enforcement Section
1301 Siler Road Building B
Santa Fe, NM 87507
Phone (505) 476-4300 Fax (505) 476-4375

Version 07.03.08

NMED USE ONLY	
DTS	
TEMPO	

REPORTING SUBMITTAL FORM

NMED USE ONLY	
Staff	
Admin	

PLEASE NOTE: ® - Indicates required field

SECTION I - GENERAL COMPANY AND FACILITY INFORMATION

A. ® Company Name: Los Alamos National Security			**D. ® Facility Name:** Los Alamos National Laboratory		
B.1 ® Company Address: P.O. Box 1663 MS J978			**E.1 ® Facility Address:** Same as Company		
B.2 ® City: Los Alamos	**B.3 ® State:** NM	**B.4 ® Zip:** 87545	**E.2 ® City:**	**E.3 ® State:**	**E.4 ® Zip:**
C.1 ® Company Environmental Contact: Dianne Wilburn	**C.2 ® Title:** EAQ Group Leader		**F.1 ® Facility Contact:** Steve Story	**F.2 ® Title:** Air Compliance Manager	
C.3 ® Phone Number: 505 667 6952	**C.4 ® Fax Number:** 505 665 8858		**F.3 ® Phone Number:** 505 665 2169	**F.4 ® Fax Number:** 505 665 8858	
C.5 ® Email Address: dianne@lanl.gov			**F.5 ® Email Address:** story@lanl.gov		
G. Responsible Official: (Title V only): J. Chris Cantwell	**H. Title:** Associate Director ESH&Q		**I. Phone Number:** 505 667 4218	**J. Fax Number:** 505 665 3811	

K. ® AI Number:	L. Title V Permit Number:	M. Title V Permit Issue Date:	N. NSR Permit Number:	O. NSR Permit Issue Date:
856	P100R1	8/7/2009	2195	

P. Reporting Period:	OR	Q. Proposed Test Date:	OR	R. Actual Test Date:
From: 1/1/2009 To: 12-31-2009				

SECTION II – TYPE OF SUBMITTAL (check one that applies)

A. ☒	Title V Annual Compliance Certification	Permit Condition(s): All	Description: LANL 2009 Compliance Certification Report	
B. ☐	Title V Semi-annual Monitoring Report	Permit Condition(s):	Description:	
C. ☐	NSPS Requirement (40CFR60)	Regulation:	Section(s):	Description:
D. ☐	MACT Requirement (40CFR63)	Regulation:	Section(s):	Description:
E. ☐	NMAC Requirement (20.2.xx) or NESHAP Requirement (40CFR61)	Regulation:	Section(s):	Description:
F. ☐	Permit or Notice of Intent (NOI) Requirement	Permit No.☐: or NOI No.☐:	Condition(s):	Description:
G. ☐	Requirement of an Enforcement Action	NOV No. ☐: or SFO No. ☐: or CD No. ☐: or Other ☐:	Section(s):	Description:

SECTION III – PERIODIC EMISSIONS TEST NOTIFICATIONS, TEST PROTOCOLS AND TEST REPORTS (if applicable)

T. ☐	A. Test Report ☐ CMT:____	B. Test Protocol ☐	C. Notification ☐ CMT:____				Description: (Emission Units to be Tested)
	D. Initial Compliance Test (EPA Methods) ☐	E. Periodic Test (EPA Methods) ☐	F. RATA Test ☐	G. Opacity Test ☐	H Portable Analyzer (Periodic Test) ☐		

SECTION IV - CERTIFICATION

After reasonable inquiry, I J. Chris Cantwell (name of reporting official) certify that the information in this submittal is true, accurate and complete.

® Signature of Reporting Official:	® Title:	® Date	® Responsible Official for Title V?
John C. Cantwell	Associate Director ESH&Q	1/27/10	☒ Yes ☐ No

Reviewed By: _____ Date Reviewed: _____

Title V Report Certification Form

I. Report Type

☒ **Annual Compliance Certification**

☐ **Semi-Annual Monitoring Report**

☐ **Other Specify:**

II. Identifying Information

Facility Name: Los Alamos National Laboratory		
Facility Address: P.O. Box 1663, MS J978, Los Alamos	State: NM	Zip: 87545
Responsible Official (RO): J. Chris Cantwell	Phone: 505-667-4218	Fax: 505-665-3811
RO Title: Assoc. Director Environmental, Safety, Health, and Quality	RO e-mail: cantwe@lanl.gov	
Permit No.: P100R1	Date Permit Issued: August 7, 2009	
Report Due Date (as required by the permit): 01/30/2010	Permit AI number: 856	
Time period covered by this Report: From: January 1, 2009	To: December 31, 2009	

III. Certification of Truth, Accuracy, and Completeness

I am the Responsible Official indicated above. I, (J. Chris Cantwell) certify that I meet the requirements of 20.2.70.7.AD NMAC. I certify that, based on information and belief formed after reasonable inquiry, the statements and information contained in the attached Title V report are true, accurate, and complete.

Signature J. Chris Cantwell Date: 1/29/10

Attachment

2009 Annual Compliance Certification Data

For Title V Operating Permit P100-R1

Annual Compliance Certification Data for Title V Permit No. P100-R1				
1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
1.0 GENERAL CONDITIONS 1.1.4 The permittee shall furnish any information the Department requests in writing to determine if cause exists for reopening and revising, revoking and reissuing, or terminating the permit, or to determine compliance with the permit. This information shall be furnished within the time period specified by the Department. Additionally, the permittee shall furnish, upon request by the Department, copies of records required by the permit to be maintained by the permittee.	A compliance inspection by NMED-Air Quality Bureau was conducted the week of September 30, 2009. Information was requested by the inspectors to determine compliance. Requested information was provided to Allan Morris of the Air Quality Bureau during the inspection. No additional requests by the Department were made during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
1.1.7 In the case where an applicant or permittee has submitted information to the Department under a claim of confidentiality, the Department may also require the applicant or permittee to submit a copy of such information directly to the Administrator of the EPA.	No such request by the Department was made during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
1.4 The permittee shall pay fees to the Department consistent with the fee schedule in 20.2.71 NMAC - Operating Permit Emission Fees. The fees will be assessed and invoiced separately from this permit. This condition is pursuant to 20.2.70.302.A.1.e NMAC.	Fees in the amount of $19,805.80 were submitted to the NMED Air Quality Bureau on March 26, 2009, prior to the June 1, 2009 deadline.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
1.5 A responsible official (as defined in 20.2.70.7.AD NMAC) shall certify the accuracy, truth and completeness of every report and compliance certification submitted to the Department as required by this permit. These certifications shall be part of each document. This condition is pursuant to 20.2.70.300.E NMAC.	The responsible official, J. Chris Cantwell, or the NMED Air Quality Bureau approved designee, has certified to the accuracy, truth and completeness of every report and compliance certification submitted to the NMED Air Quality Bureau during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
1.6 Revocation or termination of this permit by the Department terminates the permittee's right to operate this facility. This condition is pursuant to 20.2.70.201.B NMAC.	Los Alamos National Laboratory (LANL) has experienced no cause for revocation or termination of the right to operate this facility during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
1.7 The permittee shall submit an emissions inventory for this facility annually. The emissions inventory shall be submitted by the later of April 1 or	LANL submitted the required emission inventory report required under 20.2.73 NMAC on April 28, 2009, prior to the	☐ **Continuous**	☒ **Yes**	☐ **Yes**

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
within 90 days after the Department makes such request. This condition is pursuant to 20.2.73 NMAC and 20.2.70.302.A.1 NMAC.	extended due date. The submission date of this report was extended to May 2009 by NMED-AQB to accommodate the inclusion of greenhouse gas emissions.	☒ **Intermittent**	☐ **No**	☒ **No**
1.8 The permittee will continue to comply with all applicable requirements. For applicable requirements that will become effective during the term of the permit, the permittee will meet such requirements on a timely basis. This condition is pursuant to sections 300.D.11.c and 302.G.3 of 20.2.70 NMAC.	All current applicable requirements and future requirements imposed by the term of this permit have been and/or will be met.	☒ **Continuous** ☐ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
1.9 Compliance with this operating permit is sufficient to comply with all NSR permits listed in Table A.1. This condition is pursuant to 20.2.70.302.A.1 NMAC.	All feasible actions to comply with listed NSR permits have been addressed within the scope of operating permit P100R1. All new NSR permit requirements, not yet included in the operating permit, will be followed and subsequently added to the operating permit as required.	☒ **Continuous** ☐ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.0 INFORMATION AND REQUIREMENTS FOR EMISSIONS UNITS Information regarding applicable requirements, emission limits, operational requirements, and monitoring requirements, and recordkeeping requirements are provided below for each emissions unit or set of similar units. The conditions listed are placed upon the permittee pursuant to 20.2.70.302 NMAC. Except as otherwise specified, the following monitoring and/or testing requirements shall be used to determine compliance with applicable requirements and emission limits in this permit. Any sampling, whether by portable analyzer or EPA reference method that measures an emission rate greater than an emission limit in this permit may constitute noncompliance with this permit. The Department may require, at its discretion, additional tests pursuant to EPA Reference Methods at any time, including when sampling by portable analyzer measures an emission rate greater than an emission limit in this permit. Such requirement	EPA reference methods have been used to determine compliance during this certification period. A portable analyzer was used to perform an annual emisions test on the combustion turbine located at the TA-3 Power Plant. No measurements were greater than emission limits listed in the LANL Operating Permit.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

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shall not be construed as a determination that the sampling by portable analyzer does not establish noncompliance with this permit and shall not stay enforcement of such noncompliance based on the sampling by portable analyzer.				
2.1 Asphalt Production All of the process equipment authorized for this source type is listed in the table shown below (emission units that were identified as insignificant or trivial and equipment not regulated pursuant to the Act are not included):	No new equipment has been added during this certification period (excluding those identified as insignificant, trivial and not regulated pursuant to the Act).	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Emission Unit	Location/ Building	Make/Model	Type of Control	Design Capacity (tons per hour)
TA-60-BDM	TA-60	BDM Engineering TM2000	Cyclone Baghouse 99.97% efficiency	60

2.1.1 Applicable Requirements 2.1.1.1 The following requirements apply to this emission unit: 20.2.11 NMAC; 40 CFR 60, Subpart I; and NSR Permits GCP 3-2195G. 2.1.2 Emission Limits Conditions of Section 2.1.2 are pursuant to 40 CFR 50 and Paragraphs 1, 7, and 8 of 20.2.70.302.A NMAC.	LANL Asphalt Plant operations meet requirements of 20.2.11 NMAC; 40 CFR Part 60, Subpart I; and NSR Permit No. GCP-3-2195G. Emissions are calculated and reported to NMED on a 6-month basis in accordance with permit condition 4.1. Emissions are compared to allowable emission limits in each semi-annual report and were not exceeded during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Emission Unit	Allowable Emission Limits				
	NO_x	**SO_2**	**PM**	**CO**	**VOC**
TA-60-BDM	95.0 tpy	50.0 tpy	0.04 gr/dscf 33.8 lbs/hr 95.0 tpy	95.0 tpy	95.0 tpy

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
2.1.2.1 Visible emissions from the rotary dryer/baghouse stack shall not exhibit an opacity of 20% or greater.	LANL has certified visible emission (opacity) readers on-site who perform readings using 40 CFR Part 60, Appendix A, Reference Method 9 to determine compliance with the opacity limitation. Visible emission reports are provided to NMED in the semi-annual monitoring reports. No visible emissions exhibited an opacity of 20% or greater during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.1.2.2 Fugitive dust emissions from asphalt processing equipment, including the system used to recycle fabric filter fines, shall exhibit no more than five (5) minutes of visible emissions during any 2 consecutive hours. This condition does not apply to fugitive dust emissions from other support operations such as storage piles, front end loaders, or materials handling around the asphalt process equipment.	Both EPA reference methods 9 and 22 are used at the plant to determine the extent of visible emissions. LANL did not emit fugitive dust that exceeds the 5 minutes of visible emissions during any 2 consecutive hours.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.1.3 Operational Requirements Conditions of Section 2.1.3 are pursuant to Paragraphs 1, 7, and 8 of 20.2.70.302.A NMAC. 2.1.3.1 Production shall not exceed 13,000 tons per year, weekly rolling, 12-month total.	Daily data on asphalt production is collected on a monthly basis. The 12-month rolling total is calculated and compared against the production limit set in this permit condition. LANL did not exceed the 13,000 tons per year, 12-month rolling total limit, during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.1.3.2 Stack height for the asphalt plant shall be no less than 10 meters.	The height of the stack is no less than 10 meters.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.1.3.3 Install, operate, and maintain equipment in accordance with manufacturer's specifications and recommendations.	No new equipment has been installed. Operation and maintenance requirements are contained in a internal plant procedure and are followed by plant operation staff.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.1.3.4 Equip and operate the asphalt processing equipment such as screens, conveyor belts, and conveyor transfer points with dust control systems to control particulate matter emissions.	Dust collection and control systems are in place on screens, conveyor belts, and transfer points to sufficiently prevent opacity from exceeding 20%. Opacity is monitored monthly and reports are included in LANL's semi-annual monitoring reports.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.1.3.5 Sequester or remove particulates collected by the control equipment to prevent wind-blown particulate emissions. Recycled baghouse fines shall be recycled into the drum mixer via a closed loop system.	Particulates are removed from the baghouse and cyclone by use of a screw conveyor. The removed fines are transferred to the drum mixer via a closed loop system. No visible emissions from this system have been identified.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.1.3.6 The baghouse shall be equipped with a device to continually measure the pressure drop across the baghouse.	The baghouse is equipped with a differential pressure gauge, which continuously monitors differential pressure across the baghouse.	☒ **Continuous** ☐ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.1.3.7 The facility shall only use propane as fuel.	Propane is the only fuel used at the Asphalt Plant. No other fuel is currently available at this location.	☐ **Continuous**	☒ **Yes**	☐ **Yes**

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		☒ **Intermittent**	☐ **No**	☒ **No**
2.1.3.8 No visible emissions from the facility shall cross the perimeter of the restricted area for no more than 5 minutes during any 2 consecutive hours during facility operations.	Both EPA reference methods 9 and 22 are used at the plant to determine the extent of visible emissions. LANL did not emit fugitive dust that exceeds the 5 minutes of visible emissions during any 2 consecutive hours.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.1.3.9 Hours of operation are limited to one-half hour following sunrise, one-half hour before sunset, and those daylight hours in between.	The Asphalt Plant operates within the specified hours-of-operation. To aid operators, a sunrise/sunset chart is maintained at the plant. A log of start up and shut down times is kept as required by condition 2.1.5.1.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.1.3.10 Hours of operation are limited to 4,380 hours per year. This limitation on operating hours does not apply to the use of the hot oil heater or the loading and/or hauling of asphalt products or materials.	The Asphalt Plant did not exceed 4,380 hours of operation during this certification period. A log of operating hours is maintained as required by condition 2.1.5.1.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.1.3.11 LANL plant operations shall be in accordance with NSR Permit GCP 3-Rev 1, Section III, A, B, C, D, E, F, and H.	The Asphalt Plant is operated in accordances with these listed permit conditions. Most of these conditions are addressed throughout this report under the various individual listed conditions.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.1.4 Emissions Monitoring Requirements Conditions of Section 2.1.4 are pursuant to 20.2.70.302.C NMAC. 2.1.4.1 To determine compliance with Condition 2.1.2.1, perform six (6) minute opacity readings on the rotary dryer/baghouse stack at least once per month using 40 CFR 60, Appendix A, Method 9.	LANL has certified visible emission readers on-site who perform monthly six minute opacity readings using 40 CFR Part 60, Appendix A, Reference Method 9 to determine compliance with the opacity limit. Opacity reports are provided to NMED in the Semi-Annual Monitoring Reports.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.1.4.2 To determine compliance with Condition 2.1.2.2, perform a Method 22 test at least once per month on all screens, conveyor drop points, and hoppers. There shall be no visible emissions for more than two (2) minutes during any ten (10) consecutive minutes of operation.	Both EPA reference methods 9 and 22 are used at the plant to determine the extent of visible emissions. LANL did not emit fugitive dust that exceeds the 5 minutes of visible emissions during any 2 consecutive hours. Method 22 readings are taken once per month. These readings are provided to NMED in the Semi-Annual Monitoring Reports.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.1.4.3 Monitor the differential pressure (inches of water) across the filters by the use of a differential pressure gauge. Pressure gauge readings and the time period the rotary dryer drum operates shall be recorded by a datalogger each time the rotary dryer drum is operating. The pressure data shall confirm whether the filter(s) are operating within manufacturer's specifications.	A differential pressure gauge is in place to monitor differential pressure on the baghouse. Pressure values are manually recorded just after start-up and just before shut-down of the asphalt plant. The data logger was installed during this certification period, but after the issuance of the renewed operating permit, which required the installation of the unit. A permit deviation is listed for this condition under part 2 of this report.	☒ **Continuous** ☐ **Intermittent**	☐ **Yes** ☒ **No**	☒ **Yes** ☐ **No**

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2.1.5 Recordkeeping Conditions of 2.1.5 are pursuant to Subsection C and Paragraph D(1) of 20.2.70.302 NMAC. 2.1.5.1 The permittee shall comply with all applicable recordkeeping requirements in GCP 3-Rev. 1, Section IV.B, keeping records of actual hours of operation, required monitoring in Condition 2.1.4, daily and weekly total asphalt production and the weekly rolling 12 month total production, number of haul truck trips daily including materials delivery and product, frequency of haul road sweeping, and copies of the manufacturer's (or applicant's proposed) maintenance requirements and records demonstrating conformance with said requirements.	Recordkeeping conditions are met using the following methods: The production log contains hours of operation, production amounts, and number of haul truck trips. Records located at the facility include fuel delivery tickets, frequency of haul road sweeping, and copies of proposed and performed maintenance. Haul road watering is no longer performed and has been replaced by sweeping as the road has been paved. A log is in place to record haul road sweeping. Data logger charts that record the differential presure and rotary dryer durm operation are also kept at the Asphalt Plant.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.1.5.2 Keep initial compliance test results for total suspended particulate (TSP), particulate matter (PM_{10}), nitrogen oxides, carbon monoxide, and opacity performed.	A compliance test for particulate matter, NOx, CO and opacity was performed on May 18, 2009, and provided to NMED-AQB on June 16, 2009. This test report is kept as a record on site. The initial compliance test was performed on August 26, 2005, but the initial test only consisted of particulate, which was the only pollutant required to be tested for at the time.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.1.6 Reporting This condition is pursuant to 20.2.70.302.E NMAC. 2.1.6.1 Reports shall be submitted in accordance with Conditions 4.1 and 4.2	Emissions and monitoring reports are submitted on a 6-month basis in accordance with permit conditions 4.1 and 4.2. LANL submitted monitoring reports to NMED on January 29, 2009 and August 5, 2009. Emissions reports were submitted to NMED on March 16, 2009 and August 25, 2009.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.2 Beryllium Activities All of the process equipment authorized for this source type is listed in the table shown below (emission units that were identified as insignificant or trivial and equipment not regulated pursuant to the Act are not included):	No new equipment has been added during this certification period (excluding those identified as insignificant, trivial and not regulated pursuant to the Act).	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Emission Unit	Location/Building	Process	Type of Control
TA-3-66	TA-3-66	Sigma Facility Polishing/ Electroplating /Chemical milling	Aqueous Solution or Lubricant Bath
		Sigma Facility Machining/ Arc melting/ Casting	HEPA Filter 99.95% efficiency

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?

TA-3-141	TA-3-141	Beryllium Technology Facility	Lubricating Bath Cartridge Filtration System HEPA Filter 99.95% efficiency
TA-35-213	TA-35-213	Target Fabrication Facility	Pre-Filter 48% efficiency, HEPA Filter 99.95% efficiency
TA-55-PF4	TA-55-PF4	Plutonium Facility	4-Stage HEPA Filter 99.95% efficiency

2.2.1 Applicable Requirements 2.2.1.1 The following requirements apply to these emission units: 40 CFR 61, Subpart C, and NSR Permits 632; 634-M1 and 634-M2; and 1081-M1, 1081-M1-R1, 1081-M1-R3, 1081-M1-R5, and 1081-M1-R6.	LANL beryllium operations meet requirements of 40 CFR Part 61, Subpart C, and NSR Permit Numbers 632, 634 and 1081.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.2.2 Emission Limits Conditions of Section 2.2.2 are pursuant to 20.2.70.302.A NMAC.	Emissions are calculated and reported to NMED on a 6-month basis in accordance with permit condition 4.1. Emissions are compared to allowable emission limits in each semi-annual report. Allowable emission limits have not been exceeded.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Source	**Allowable Emission Limits**	
	Beryllium	**Aluminum**
Sigma Facility TA-3-66	10 gm/24 hr	Not Applicable
Beryllium Technology Facility TA-3-141	0.35 gm/24 hr 3.5 gm/yr	Not Applicable
Target Fabrication Facility TA-35-213	1.8×10^{-04} gm/hr 0.36 gm/yr	Not Applicable
Plutonium Facility TA-55-PF4		
Machining Operation	0.12 gm/24 hr 2.99 gm/yr	0.12 gm/24 hr 2.99 gm/yr
Foundry Operation	3.49×10^{-5} gm/24 hr 8.73×10^{-4} gm/yr	3.49×10^{-5} gm/24 hr 8.73×10^{-4} gm/yr

2.2.3 Operational Requirements Conditions of Section 2.2.3 are pursuant to 20.2.70.302.A NMAC.	TA-3-66: Emissions from machining and arc melt/casting operations are exhausted through a HEPA filtration system prior to entering the atmosphere. Polishing and electroplating/	☐ **Continuous**	☒ **Yes**	☐ **Yes**

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
	chemical milling operations are conducted in aqueous solution or lubricant baths. TA-3-141: All processes are exhausted through a HEPA filtration system prior to entering the atmosphere. Powder operations, other than closed glovebox operations, and machining operations, other than metallographic preparation, are exhausted through a cartridge filtration system then through HEPA filtration. Metallographic preparation activities are conducted in lubricating baths or equivalent. No process limits were exceeded, and the continuous emission monitor is maintained in accordance with the Laboratory's quality program. TA-35-213: All processes are exhausted through a HEPA filtration system prior to entering the atmosphere. TA-55-PF4: All operations are exhausted through the facility's HEPA filtration system (3 filters with a control efficiency of 99.95% each). The non-accessible filter (4th filter with a control efficiency of 99.95%) is replaced when the pressure drop across the filter indicates breakthrough or excessive loading. No process limits were exceeded.	☒ **Intermittent**	☐ **No**	☒ **No**

Source	Operating Requirement	Process Limit	Control Equipment Requirement
Sigma Facility TA-3-66	Beryllium operations will consist of registered polishing, electroplating /chemical milling, and relocated machining, and arc melting/casting sources.	None	Polishing and electroplating /chemical milling operations shall be conducted in aqueous solution or lubricant bath. Emissions from machining and arc melting/casting operations shall be exhausted through a HEPA filtration system prior to entering the atmosphere.

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?

Beryllium Technology Facility TA-3-141	The continuous emission monitor will be maintained in accordance with the Laboratory's quality program.	Beryllium processed by the facility will not exceed 10,000 pounds per calendar year. Beryllium processed by the facility will not exceed 1000 pounds per day.	All processes shall be exhausted through a HEPA filtration system prior to entering the atmosphere. Powder operations, other than closed glovebox operations, and machining operations, other than the processes used in metallographic preparation shall be exhausted through a cartridge filtration system then through the HEPA filtration system. Metallographic preparation activities shall be conducted in lubricating baths or equivalent.
Target Fabrication Facility TA-35-213	Beryllium operations will consist of only beryllium machining and associated cleanup activities.	None	All processes shall be exhausted through a HEPA filtration system prior to entering the atmosphere.
Plutonium Facility TA-55-PF4	Regulated beryllium activities will be ducted through the pollution control equipment and out the north or south stack of PF-4. The electric furnace shall be enclosed in a glove box, have a maximum operating temperature of 1600 degrees centigrade, and an inside volume space less than 1.1 cubic feet.	44 pounds of beryllium (20 kg) in any 24 hour period; 1100 pounds/year (500 kg/year) using a rolling total.	Weld cutting, weld dressing, metallography, and electric furnace operations shall be controlled with 4 HEPA filters with a control efficiency of 99.95% each. The non-accessible filters shall be replaced when the pressure drop across the filter either falls to levels indicating filter breakthrough or increases to levels indicative of excessive loading.

2.2.4 Emissions Monitoring Requirements Conditions of Section 2.2.4 are pursuant to 20.2.70.302.C NMAC.	TA-3-66 – Log books are maintained for monitoring the number of metallographic specimens used in the polishing operation and the weight and/or volume of samples processed in the electroplating/chemical milling, machining, and arc melting/casting operations.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
	TA-3-141 – The exhaust stack has a built-in sampling system used to continously sample Beryllium emissions. Cartridge and HEPA filters are equipped with differential pressure gauges that measure different pressure when fans are in operation. TA-35-213 – A copy of the stack emission test results is available for inspection as well as a log of hours of operation that are used to calculate total emissions. TA-55-PF4 – The HEPA filtration system contains a differential pressure gauge that measures differential pressure across the HEPA filters. The differential pressure is verified daily while the exhaust fans are in operation. Annual HEPA filter challenge tests are performed and results are submitted to NMED in LANL's Semi-Annual Monitoring Reports. The electric furance did not operate during this certification period.			

Source	Monitoring Required
Sigma Facility TA-3-66	A log shall be maintained during operations, which shows the number of metallographic specimens used in the polishing operation and the weight or volume of Be samples processed in the electroplating/chemical milling, machining, and arc melting/casting operations.
Beryllium Technology Facility TA-3-141	Facility exhaust stack will be equipped with a continuous emission monitor used to measure beryllium emissions. Cartridge and HEPA filters shall be equipped with differential pressure gauges that measure the differential pressure across the cartridge and HEPA filters while the exhaust fans are in operation.
Target Fabrication Facility TA-35-213	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.
Plutonium Facility TA-55-PF4	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. Control efficiency shall be verified by daily HEPA filter pressure drop tests and annual HEPA filter challenge tests of accessible filters. The furnace temperature shall be continuously monitored and the flow rate from the glove box containing the furnace shall be measured once during each metal melt operation.

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
2.2.5 Recordkeeping Conditions of Section 2.2.5 are pursuant to Subsection C and Paragraph D(1) of 20.2.70.302 NMAC.	TA-3-66 – Recordkeeping for this source is specified in condition 2.2.4. TA-3-141– Inventory records are maintained to demonstrate compliance with beryllium process limits. Records of pressure drop across the cartridge and HEPA filters are performed daily when the exhaust fans are in operation and the facility is occupied. Process limits have not been exceeded. Control equipment maintenance and repair activities are also recorded. TA-35-213 – Recordkeeping for this source is specified in condition 2.2.4. TA-55-PF4 – Stack emission test results and operating parameters, including daily differential pressure readings when exhaust fans are running, are recorded and available at the facility. A copy of annual HEPA filter test reports and daily differential pressure readings are kept. Filter change out records are also kept. Process records are available that contain the quantity and weight of classified parts processed during a 24-hour period and annual rolling total. The electric furance did not operate during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Source	Recordkeeping Required
Sigma Facility TA-3-66	Recordkeeping for this source is specified in Condition 2.2.4.
Beryllium Technology Facility TA-3-141	te and maintain beryllium inventory records to demonstrate compliance with the 10,000 pounds of beryllium per calendar year and the 1000 pounds of beryllium per day processing limit. pressure drop across the cartridge and HEPA filters once per day that the exhaust fans are in operation and the facility is occupied. control equipment maintenance and repair activities.
Target Fabrication Facility TA-35-213	Recordkeeping for this source is specified in Condition 2.2.4.
Plutonium Facility TA-55-PF4	Stack emission test results and facility operating parameters including a daily record of the pressure drop measured across each appropriate HEPA plenum filtration stage, when the exhaust fans are operating.

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
	A copy of the annual HEPA test, a log of the daily pressure drop readings and a control equipment maintenance log shall be kept. This documentation shall be provided upon request. A log of the filter replacement shall be kept and shall be made available to the Department personnel upon request. The permittee shall keep records of the number and weight of classified parts processed during a 24-hour period and year using a rolling total. Records shall be made available to properly cleared Department personnel upon request. The permittee shall for each use of the furnace record the following operating parameters: metal type, theoretical melting point of the metal, metal melt duration once melting is commenced, maximum furnace temperature and glove box flow rate. A record of the furnace's internal volume shall be maintained at the facility.			
2.2.6 Reporting Conditions of Section 2.2.6 are pursuant to 20.2.70.302.E NMAC.	Emissions and monitoring reports are submitted on a 6-month basis in accordance with permit conditions 4.1 and 4.2. LANL submitted monitoring reports to NMED on January 29, 2009 and August 5, 2009. Emissions reports were submitted to NMED on March 16, 2009 and August 25, 2009. TA-3-141 quarterly reports were submitted to NMED within 60 days after each calendar quarter. Reports submitted during this certification period were on the following dates: 1/29/2009, 4/22/2009, 8/13/2009, and 11/3/2009. The reports document the compliance status with the permitted emission rate from the beryllium monitoring system. TA-55-PF4 stack emission test results and facility operating parameters are kept on site and are available to NMED-AQB upon request.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Source	Reporting Required
Sigma Facility TA-3-66	See condition 4.2.

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
Beryllium Technology Facility TA-3-141	Anticipated date of initial startup of each new or modified source not less than thirty (30) days prior to the date. Actual date of initial startup of each new or modified source within fifteen (15) days after the startup date. Provide the date when each new or modified emission source reaches the maximum production rate at which it will operate within fifteen (15) days after that date. Notify the Department within 60 days after each calendar quarter of the facility's compliance status with the permitted emission rate from the continuous monitoring system. Provide any data generated by activities described in the Quality Assurance Project Plan (QAPP) that will assist the Air Quality Bureau's Enforcement Section in determining the reliability of the methodology used for demonstrating compliance with the permitted emission rate within 45 days of such a request. See Conditions 4.1 and 4.2			
Target Fabrication Facility TA-35-213	See Conditions 4.1 and 4.2.			
Plutonium Facility TA-55-PF4	Stack emission test results and facility operating parameters will be made available to Department personnel upon request. Reports may be required to be submitted to the Department if inspections of the source indicate noncompliance with this permit or as a means of determining compliance. See Conditions 4.1 and 4.2			

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
2.3 Boilers and Heaters All of the process equipment authorized for this source type is listed in the table shown below (emission units that were identified as insignificant or trivial and equipment not regulated pursuant to the Act are not included):	No new equipment has been added during this certification period (excluding those identified as insignificant, trivial and not regulated pursuant to the Act).	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Emission Unit	**Location/ Building**	**Manufacturer/ Model**	**Maximum Heat Input (nameplate)[1] MMBtu/hr**	**Type of Control**
TA-16-1484-BS-1	TA-16-1484	Sellers 183H.P.-SH-LN390	7.47	Low-NO_x
TA-16-1484-BS-2	TA-16-1484	Sellers 183H.P.-SH-LN390	7.47	Low-NO_x
TA-48-1-BS-1	TA-48-1	Sellers 15 Seniors-150	6.28	None
TA-48-1-BS-2	TA-48-1	Cleaver Brooks CB-700-150	6.28	None
TA-48-1-BS-6	TA-48-1	Cleaver Brooks CB-700-200	8.40	None
TA-53-365-BHW-1	TA-53-365	Sellers 15 Seniors-2-200-w	8.37	None
TA-53-365-BHW-2	TA-53-365	Sellers 15 Seniors-2-200-w	8.37	None
TA-55-6-BHW-1	TA-55-6	Sellers 350 H.P. W-LN490	14.6	Low-NO_x
TA-55-6-BHW-2	TA-55-6	Sellers 350 H.P. W-LN490	14.6	Low-NO_x
TA-59-1-BHW-1	TA-59-1	Cleaver Brooks CB-700-150	6.28	None
TA-59-1-BHW-2	TA-59-1	Cleaver Brooks CB-700-150	6.28	None
TA-50-2-BS-1	TA-50-2	Superior M56-5-1-1500-S260	12.6	None

[1]Emission estimates from these units shall be based on the maximum heat input rating derated for altitude.

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
2.3.1 Applicable Requirements 2.3.1.1 The following requirements apply to these emission units : 40 CFR Part 60, Subpart Dc (Units TA-55-6-BHW-1 and TA-55-6-BHW-2 only) and 20.2.61 NMAC.	Units TA-55-6-BHW-1 and TA-55-6-BHW-2, meet the requirements of 40 CFR Part 60, Subpart Dc, and 20.2.61 NMAC. The only applicable requirement in 40 CFR Part 60, Subpart Dc, is the monthly fuel monitoring requirement. The fuel monitoring records are collected monthly and maintained on-site.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.3.2 Emission Limits Conditions of Section 2.3.2 are pursuant to 40 CFR 50 and Paragraphs 1, 7, and 8 of 20.2.70.302.A NMAC.	Emissions are calculated and reported to NMED on a 6-month basis in accordance with permit condition 4.1. Emissions are compared to the allowable emission limits in each semi-annual report. Allowable emission limits were not exceeded during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Source	**Allowable Emission Limits**				
All Boilers and Heaters[1]	NO_x (tpy)	CO (tpy)	PM or PM_{10} (tpy)	SO_2 (tpy)	VOC (tpy)
	80.0	80.0	50.0	50.0	50.0

[1] Excludes TA-3-22 Power Plant addressed in Condition 2.9

2.3.2.1 Visible emissions shall not equal or exceed an opacity of 20%.	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. Visible emissions did not equal or exceed 20% opacity during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.3.3 Operational Requirements This condition is pursuant to Paragraphs 1, 7, and 8 of 20.2.70.302.A NMAC. 2.3.3.1 Natural gas usage is limited to 870 MMscf/yr, monthly rolling, 12-month total, for all boilers listed in Section 2.3 and all other boilers and heaters at LANL that qualify as insignificant activities.	For units listed under this permit condition, a 12-month rolling total of natural gas used is calculated and recorded each month. The rolling total is compared to the fuel use limit each month and provided in the semi-annual monitoring report. Natural gas usage limits were not exceeded.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
2.3.4 Emissions Monitoring Requirements Conditions of Section 2.3.4 are pursuant to 20.2.70.302.C NMAC. 2.3.4.1 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.	For units listed under condition 2.3.4.1, a volumetric flow meter is in place and used to monitor monthly natural gas use. This information is maintained and available on-site.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.3.4.2 40 CFR 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, Reference Method 9 to determine compliance with the opacity limit.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.3.5 Recordkeeping This condition is pursuant to Subsection C and Paragraph D(1) of 20.2.70.302 NMAC. 2.3.5.1 All boilers and heaters, including insignificant emission units: Records of total natural gas shall be kept on a monthly basis.	Facility wide natural gas use is collected and recorded on a monthly basis. From the total usage, metered sources are subtracted and the difference is apportioned between non-metered boilers and heaters based on fuel or heat input ratings.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.3.6 Reporting This condition is pursuant to 20.2.70.302.E NMAC. 2.3.6.1 Reports shall be submitted in accordance with Conditions 4.1 and 4.2.	Emissions and monitoring reports are submitted on a 6-month basis in accordance with permit conditions 4.1 and 4.2. LANL submitted monitoring reports to NMED on January 29, 2009 and August 5, 2009. Emissions reports were submitted to NMED on March 16, 2009 and August 25, 2009.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.4 Carpenter Shops All of the process equipment authorized for this source type is listed in the table shown below (emission units that were identified as insignificant or trivial and equipment not regulated pursuant to the Act are not included): 2.4.1 Applicable Requirements 2.4.1.1 None	No new equipment has been added during this certification period (excluding those identified as insignificant, trivial and not regulated pursuant to the Act).	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?

Emission Unit	Location	Total Exhaust Rate (Cubic feet per minute)	Type of Control
TA-15-563	TA-15-563	5000	None
TA-3-38	TA-3-38	5471	None

2.4.2 Emission Limits This condition is pursuant to 40 CFR 50; 20.1.3 NMAC; and Paragraphs 1, 7, and 8 of 20.2.70.302.A NMAC.	Emissions of PM10 are calculated and reported on a 6-month basis in accordance with permit condition 4.1. Emissions are compared to allowable emission limits in each semi-annual report. Allowable emission limits have not been exceeded during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Source	Allowable Emission Limits
	PM_{10} (tpy)
TA-15-563	2.81
TA-3-38	3.07

2.4.3 Operational Requirements Conditions of Section 2.4.3 are pursuant to Paragraphs 1, 7, and 8 of 20.2.70.302.A NMAC. 2.4.3.1 Saws, drills, shaping and sanding equipment shall operate at a maximum of 4368 hours per year.	Hourly use of saws, drills, shaping and sanding equipment are tracked. Hours of operation are collected monthly and provided in the semi-annual monitoring report. These LANL carpenter shops did not exceed 4368 hours of operation during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.4.3.2 Process cyclones shall operate during shop operations that are vented to the cyclone.	Process cyclones are operated during shop operations that are vented to the cyclones.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.4.4 Emissions Monitoring Requirements This condition is pursuant to 20.2.70.302.C NMAC. 2.4.4.1 The permittee shall maintain logs of the	A log is maintained with shop hours of operation for each shop.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
number of hours the carpenter shops are in operation.	These logs are available on-site.			
2.4.5 Recordkeeping This condition is pursuant to Subsection C and Paragraph D(1) of 20.2.70.302 NMAC. 2.4.5.1 Record the hours of operation for each shop monthly.	The monthly hours of operation for each shop are recorded and provided to NMED in the Semi-Annual Monitoring Report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.4.6 Reporting This condition is pursuant to 20.2.70.302.E NMAC. 2.4.6.1 Reports shall be submitted in accordance with Conditions 4.1 and 4.2.	Emissions and monitoring reports are submitted on a 6-month basis in accordance with permit conditions 4.1 and 4.2. LANL submitted monitoring reports to NMED on January 29, 2009 and August 5, 2009. Emissions reports were submitted to NMED on March 16, 2009 and August 25, 2009.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.5 Chemical Usage All of the process equipment authorized for this source type is listed in the table shown below (emission units that were identified as insignificant or trivial and equipment not regulated pursuant to the Act are not included): 2.5.1 Applicable Requirements 2.5.1.1 None. 2.5.2 Operational Requirements 2.5.2.1 None.	No new equipment has been added during this certification period (excluding those identified as insignificant, trivial and not regulated pursuant to the Act).	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Emission Unit	Location
LANL-FW-CHEM	Facility-wide

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
2.5.3 Emission Limits This condition is pursuant to 40 CFR 50 and Paragraphs 1, 7, and 8 of 20.2.70.302.A NMAC. 2.5.3.1 The contribution of VOC and/or HAPs emissions from chemical usage shall not cause the exceedence of the corresponding facility-wide limit listed below: 200 tons per year of facility-wide VOCs 8 tons per year of individual facility-wide HAP 24 tons per year of total facility-wide HAPs	Facility wide emissions from chemical use are calculated and reported on a 6-month basis in accordance with permit condition 4.1. A comparison against the allowable emission limits is performed at each of these reporting periods. Facility wide emission limits were not exceeded during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.5.4 Emissions Monitoring/Recordkeeping Requirements This condition is pursuant to 20.2.70.302.C NMAC. 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 semiannual basis in accordance with Condition 4.1.	Facility wide chemical purchase records are collected in LANL's ChemLog database and used to calculate emissions. Chemical emission information is submitted to NMED every 6-months in accordance with permit condition 4.1.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.5.5 Reporting This condition is pursuant to 20.2.70.302.E NMAC. 2.5.5.1 Reports shall be submitted in accordance with Conditions 4.1 and 4.2.	Emissions and monitoring reports are submitted on a 6-month basis in accordance with permit conditions 4.1 and 4.2. LANL submitted monitoring reports to NMED on January 29, 2009 and August 5, 2009. Emissions reports were submitted to NMED on March 16, 2009 and August 25, 2009.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.6 Degreasers All of the process equipment authorized for this source type is listed in the table shown below (emission units that were identified as insignificant or trivial and equipment not regulated pursuant to the Act are not included):	No new equipment has been added during this certification period (excluding those identified as insignificant, trivial and not regulated pursuant to the Act).	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Emission Unit	Location/Building	Type of Degreaser
TA-55-DG-1	TA-55	Ultrasonic Cold Batch

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
2.6.1 Applicable Requirements 2.6.1.1 The following requirement applies to this emission unit: 40 CFR 63, Subpart T.	LANL degreaser operation met all requirements of 40 CFR Part 63, Subpart T during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.6.2 Emission Limits This condition is pursuant to 40 CFR 50 and Paragraphs 1, 7, and 8 of 20.2.70.302.A NMAC. 2.6.2.1 The contribution of VOC and/or HAP emissions from chemical usage shall not cause the exceedence of the corresponding facility-wide limit listed below: 200 tons per year of facility-wide VOCs 8 tons per year of an individual facility-wide HAP 24 tons per year of total facility-wide HAPs	Emissions are calculated and reported on a 6- month basis in accordance with permit condition 4.1. Comparison against the allowable emission limits is performed at each of these reporting periods. Allowable emissions were not exceeded during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.6.3 Operational Requirements Conditions of Section 2.6.3 are pursuant to Paragraphs 1, 7, and 8 of 20.2.70.302.A NMAC. 2.6.3.1 The facility shall comply with the applicable requirements of 40 CFR 63, Subpart T including:	LANL degreaser operation met all requirements of 40 CFR Part 63, Subpart T during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.6.3.1.1 Keep degreaser closed with a tight fitting cover.	The degreaser is kept closed with a tight fitting cover when it is not being used.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.6.3.1.2 Maintain a freeboard ratio of 0.75 or greater.	A freeboard ratio of 0.75 or greater is maintained.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.6.3.1.3 Collect and store all waste solvent and wipe rags in closed containers.	All waste solvent and solvent contaminated wipe rags are collected and stored in closed containers.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.6.3.1.4 Perform flushing within the freeboard area only.	Flushing operations are performed within the freeboard	☐ **Continuous**	☒ **Yes**	☐ **Yes**

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
	area.	☒ **Intermittent**	☐ **No**	☒ **No**
2.6.3.1.5 Allow cleaned parts to drip for 15 seconds or until dripping stops.	Cleaned parts are allowed to drip for 15 seconds or until dripping stops.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.6.3.1.6 Do not exceed the fill line on the solvent level.	The fill line has not been exceeded.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.6.3.1.7 Wipe up spills immediately.	Spills are wiped up immediately.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.6.3.1.8 Do not create observable splashing with agitation device.	Administrative controls are in place to prevent observable splashing with an agitation device.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.6.3.1.9 Keep the degreaser from being exposed to drafts greater than 40 m/min.	The degreaser is located in a glove box with a set ventilation flow rate. Exhaust flows do not exceed 40 m/min.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.6.3.1.10 Do not clean sponges, fabric, wood, or paper.	Sponges, fabric, wood, or paper are not cleaned in the degreaser.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.6.4 Emissions Monitoring Requirements Conditions of Section 2.6.4 are pursuant to 20.2.70.302.C NMAC. 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.	A computerized system is used to track the amount of degreaser solvent added, removed, and lost. This system is used to calculate emissions, which are reported on a 6-month basis in accordance with permit condition 4.1.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.6.4.2 Complete checklist for work practice standards.	Checklists for work practice standards have been completed for this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.6.5 Recordkeeping This condition is pursuant to Subsection C and Paragraph D(1) of 20.2.70.302 NMAC. 2.6.5.1 Maintain records of solvent content and	A Material Safety Data Sheet (MSDS) is kept and available that describes the content and concentration of the solvent. Records of work practice checklists are also maintained.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
work practice checklists.				
2.6.6 Reporting This condition is pursuant to 20.2.70.302.E NMAC. 2.6.6.1 Reports shall be submitted in accordance with Conditions 4.1 and 4.2.	Emissions and monitoring reports are submitted on a 6-month basis in accordance with permit conditions 4.1 and 4.2. LANL submitted monitoring reports to NMED on January 29, 2009 and August 5, 2009. Emissions reports were submitted to NMED on March 16, 2009 and August 25, 2009.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.7 Internal Combustion Sources All of the process equipment authorized for this source type is listed in the table shown below (emission units that were identified as insignificant or trivial and equipment not regulated pursuant to the Act are not included):	No new equipment has been added during this certification period (excluding those identified as insignificant, trivial and not regulated pursuant to the Act).	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Emission Unit	Location/ Building	Equipment Type	Manufacturer/Model	Serial No.	Nameplate Capacity	Fuel Type
TA-33-G-1	TA-33	Stationary Diesel Fired Generator	Kohler/1600 ROZD 71	375801	1600 kW	Diesel
TA-33-G-2	TA-33	Portable Diesel Fired Generator	Kohler / 20EORZ	2025460	20 KW	Diesel
TA-33-G-3	TA-33	Portable Diesel Fired Generator	Kohler / 20EORZ	2025461	20 KW	Diesel
TA-33-G-4	TA-33	Portable Diesel Fired Generator	Caterpillar / 3306	6PK01065	225 KW	Diesel
Standby Generators	Scattered	Natural Gas, Diesel, Propane and Gasoline Fired Generators	Various	Various	*See Note 1*	Natural Gas, Diesel, Propane and Gasoline

Note 1: See Appendix B: Internal Combustion of the 2008 application.

2.7.1 Applicable Requirements 2.7.1.1 The following requirements apply to emission units TA-33-G-1, -G-2, -G-3, and -G-4: 20.2.61 NMAC and NSR Permit 2195F-R3 and 2195P.	Units listed in this condition meet the requirements of 20.2.61 NMAC and applicable NSR Permit No. 2195F-R3 or 2195P.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
2.7.2 Emission Limits The conditions of Section 2.7.2 are pursuant to 40 CFR 50 and Paragraphs 1, 7, and 8 of 20.2.70.302.A NMAC.	None of the allowable emission limits were exceeded during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Source	**Allowable Emission Limits**											
	NO_x[1]		CO		VOC		SO_x[2]		TSP		PM_{10}	
	pph	tpy	pph	tpy	pph	tpy	pph	tpy	pph	tpy	pph	tpy
TA-33-G-1	40.3	18.1	33.7	15.2	0.7	0.3	5.5	2.5	1.4	0.6	1.4	0.6
TA-33-G-2	0.83	0.21	0.2	0.1	0.1	- -[3]	- -	- -	- -	- -	- -	- -
TA-33-G-3	0.83	0.21	0.2	0.1	0.1	- -	- -	- -	- -	- -	- -	- -
TA-33-G-4	9.33	2.33	5.7	1.4	0.75	0.2	0.62	0.16	- -	- -	- -	- -

1 Nitrogen dioxide emissions include all oxides of nitrogen expressed as NO_2.
2 Sulfur dioxide emissions include all oxides of sulfur expressed as SO2
3 "- -" indicates the emission rate is less than 0.05 pph or 0.05 tpy and limits are not required for this permit.

2.7.2.1 Visible emissions shall not equal or exceed an opacity of 20%.	LANL has certified opacity readers on-site who perform opacity readings using 40 CFR 60, Appendix A, Reference Method 9 to determine compliance with the opacity limitation. Visible emissions did not equal or exceed 20% opacity during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.7.3 Operational Requirements Conditions of Section 2.7.3 are pursuant to Paragraphs 1, 7, and 8 of 20.2.70.302.A NMAC. 2.7.3.1 Operation of the LANL stationary standby generator pool is limited to an average of 168 hr/year each to assure non-applicability of 202.74 NMAC, PSD.	Hours of each stationary standby generator are tracked and evaluated twice a year to verify that the average hours per year limit is not exceeded. The hours of operation are provided to NMED in LANL's Semi-Annual Monitoring Report. The limit of 168 hr/year average was not exceeded during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.7.3.2 TA-33-G-1 is limited to 12,000 kWh/day and 1,350,000 kWh/year. This condition was brought forward from NSR Permit 2195F-R3, Condition 1.b.	TA-33-G-1 did not exceed either the daily or annual kWh limit during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
2.7.3.3 TA-33-G-1 is limited to eight hours of daily operation at full capacity. Operation shall occur between the hours of 7:00 am and 5:00 pm. This condition was brought forward from NSR Permit 2195F-R3, Condition 1.c.	A run log is maintained at the generator that records start-up, shut-down, and run time. The unit was operated within the allowed operating times during this compliance certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.7.3.4 TA-33-G2, TA-33-G3, and TA-33-G4 are each authorized to operate 500 hours per calendar year. This condition was brought forward from NSR Permit 2195P, Condition 1.b.	The hour readings are collected twice a year to verify the hour limit is not being approached. The hour limits for these units were not exceeded during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.7.3.5 TA-33-G2, TA-33-G3, and TA-33-G4 shall each be certified to compliance with applicable non-road emission standards in 40 CFR 89. This condition was brought forward from NSR Permit 2195P, Condition 1.c.	Certificates of compliance with applicable non-road emission standards are maintained on site.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.7.4 Emissions Monitoring Requirements Conditions of Section 2.7.4 are pursuant to 20.2.70.302.C NMAC.	TA-33-G-1 has a run log to track daily kWh totals and hours of operation, as well as the time operation begins and ends each day. The hour readings are collected monthly and a 12-month rolling total is calculated. Units TA-33-G-2, TA-33-G-3, and TA-33-G-4 have had opacity readings under 20% opacity during four consecutive startups. The units are currently observed annually to verify opacity remains under the limit. Operations staff are aware that corrective actions must be taken if visible emissions exceed 20% opacity. Hours of each stationary standby generator is tracked and evaluated twice a year to verify that the average hour per year limit is not exceeded. The hours of operation are provided to NMED in LANL's Semi-Annual Monitoring Report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Source	**Monitoring Required**
TA-33-G-1	Record kilowatt-hours on a daily and monthly rolling 12-month total basis. Record hours of operation and the time operation begins and ends each day.
TA-33-G-2 TA-33-G-3	During initial daily cold startup of each generator engine, the permittee shall determine compliance with Condition 2.7.2.1 using EPA Method 9 for a minimum of ten (10) minutes. i) Corrective action shall be taken for all instances when visible emissions exceed 20% opacity.

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
TA-33-G-4	ii) The monitoring requirement shall be reduced to one time per year for each generator engine demonstrating compliance with Condition 2.7.2.1 during four consecutive startups. Record annual total hours of operation for each generator engine every calendar year. Record opacity readings for each generator engine cold startup and corrective action to address visible emission exceedances. For each generator engine, maintain a copy of the engine certification to the applicable non road emission standards in 40 CFR 89.			
Stationary standby Generators	Track and record hours of operation for stationary standby generators on a semi-annual basis.			
2.7.4.1 40 CFR 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.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.7.5 Recordkeeping This condition is pursuant to Subsection C and Paragraph D(1) of 20.2.70.302 NMAC. 2.7.5.1 Recordkeeping for this source category is specified at Condition 2.7.4.	Recordkeeping requirements are specified at condition 2.7.4.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.7.6 Reporting Conditions of 2.7.6 are pursuant to 20.2.70.302.E NMAC. 2.7.6.1 The permittee shall report excess emissions during malfunction, startup, shutdown, or scheduled maintenance in accordance with 20.2.7 NMAC. This condition was brought forward from NSR Permit 2195P, Condition 5.a.	No excess emission during malfunction, startup, or scheduled maintenance occurred during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.7.6.2 Reports shall be submitted in accordance with Conditions 4.1 and 4.2.	Emissions and monitoring reports are submitted on a 6-month basis in accordance with permit conditions 4.1 and 4.2. LANL submitted monitoring reports to NMED on January 29, 2009 and August 5, 2009. Emissions reports	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
	were submitted to NMED on March 16, 2009 and August 25, 2009.			
2.8 Data Disintegrator All of the process equipment authorized for this source type is listed in the table shown below (emission units that were identified as insignificant or trivial and equipment not regulated pursuant to the Act are not included):	No new equipment has been added during this certification period (excluding those identified as insignificant, trivial and not regulated pursuant to the Act).	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Emission Unit	*Equipment Type*	Manufacturer	Model No./ Serial No.	Year of Manuf.	Capacity Nameplate	Type of Control Equipment
TA-52-11	Data Disintegrator/Industrial Shredder	Security Engineered Machinery	1424/ 11892	9/2002	1200 lb/hr	Cyclone and cloth tube filters 98.75% efficiency

2.8.1 Applicable Requirements 2.8.1.1 The following requirement applies to this emission unit: NSR Permit 2195H.	LANL Data Disintegrator operations meet requirements of NSR Permit No. 2195H.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.8.2 Emission Limits This condition is pursuant to 40 CFR 50 and Paragraphs 1, 7, and 8 of 20.2.70.302.A NMAC.	Emissions are calculated and reported on a 6- month basis in accordance with permit condition 4.1. A comparison against the allowable emission limits is performed at each of these reporting periods. Allowable emission limits were not exceeded.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Source	Allowable Emission Limits			
TA-52-11	TSP (pph)	TSP (tpy)	PM_{10} (pph)	PM_{10} (tpy)
	2.3	9.9	2.3	9.9

PM_{10} and TSP emissions limits shown in above Table are after controls.

2.8.4 Emissions Monitoring Requirements	A log is kept to record the number of boxes of media destroyed monthly and is used to calculate emissions on a semi-annual	☐ **Continuous**	☒ **Yes**	☐ **Yes**

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
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 semiannual basis in accordance with Condition 4.1. This condition is pursuant to 20.2.70.302.C NMAC.	basis. The number of boxes destroyed is provided to NMED in the Semi-Annual Monitoring Reports.	☒ **Intermittent**	☐ **No**	☒ **No**
2.8.4.2 The permittee shall perform regular maintenance and repair on the cyclone and cloth tube filter(s) per manufacturer's recommendations. This condition was brought forward from NSR Permit 2195H, Condition 1.d.	LANL has a service contract in place with the manufacturer's recommended local service company to perform regular maintenance and repair on the unit.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.8.5 Recordkeeping Conditions of Section 2.8.5 are pursuant to Subsection C and Paragraph D(1) of 20.2.70.302 NMAC. 2.8.5.1 Record the number of boxes of media that are destroyed monthly.	A log is kept of the number of boxes of media that are destroyed monthly.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.8.5.2 The permittee shall maintain adequate records on site to demonstrate compliance with manufacturer's recommended repair and maintenance schedules for the cyclone and the cloth tube filter(s). This condition was brought forward from NSR Permit 2195H, Condition 4a.	Records of maintenance performed on the unit are available on site.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.8.6 Reporting This condition is pursuant to 20.2.70.302.E NMAC. 2.8.6.1 Report shall be submitted in accordance with Conditions 4.1 and 4.2.	Emissions and monitoring reports are submitted on a 6-month basis in accordance with permit conditions 4.1 and 4.2. LANL submitted monitoring reports to NMED on January 29, 2009 and August 5, 2009. Emissions reports were submitted to NMED on March 16, 2009 and August 25, 2009.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.8.7 Compliance 2.8.7.1 If any compliance testing is required, it shall be conducted in accordance with EPA Reference Methods 1 through 4, Method 5 for TSP, and contained in 40 CFR 60, Appendix A. For combined TSP and PM_{10}, testing shall be in accordance with 40 CFR 51, Appendix M, Method 201. Alternative test method(s) may be used if the Department approves the change. This condition was brought forward from NSR Permit 2195H, Condition 6.b, as amended.	No compliance test was required or performed during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
2.9 Power Plant at Technical Area 3 (TA-3-22) All of the process equipment authorized for this facility is listed in the table shown below (emission units that were identified as insignificant or trivial and equipment not regulated pursuant to the Act are not included):	No new equipment has been added during this certification period (excluding those identified as insignificant, trivial and not regulated pursuant to the Act).	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Emission Unit	Equipment Type	Make/ Model/ Serial No.	Year of Manuf.	Capacity[1]	Control Device
TA-3-22-1	Boiler	Edgemoor Iron Works/ 4008	1950	178.5 MMBtu/hr	Controlled by Unit F-1
TA-3-22-2	Boiler	Edgemoor Iron Works/ 4009	1950	178.5 MMBtu/hr	Controlled by Unit F-2
TA-3-22-3	Boiler	Union Iron Works/ 11804	1952	178.5 MMBtu/hr	Controlled by Unit F-3
TA-3-22-CT-1	Combustion Turbine	Rolls-Royce/ RB211-6761 DLE/ 2011	2003	24.6 MW	Rolls-Royce DLE system
F-1	Flue Gas Recirculation Fan	Robinson Industries	2001	1800 rpm	[2]N/A
F-2	Flue Gas Recirculation Fan	Robinson Industries	2001	1800 rpm	N/A
F-3	Flue Gas Recirculation Fan	Robinson Industries	2001	1800 rpm	N/A

[1]The boiler and turbine capacity listed has been derated for altitude from the maximum heat input rating.
[2] Not Applicable

2.9.1 Applicable Requirements 2.9.1.1 The boilers (Units TA-3-22-1, TA-3-22-2, TA-3-22-3) are subject to 20.2.33 and 20.2.34 NMAC. The combustion turbine (Unit TA-3-22 CT-1) is subject to 40 CFR 60 Subpart A and Subpart GG. The boilers and the turbine are subject to 20.2.61 NMAC. NSR Permit 2195B-M1R2 applies to the power plant as a	Power Plant boilers are in compliance with the requirements of 20.2.33 NMAC (Gas Burning Equipment – Nitrogen Dioxide) and 20.2.34 NMAC (Oil Burning Equipment - Nitrogen Dioxide). The combustion turbine is in compliance with 40 CFR Part 60 Subpart A and 40 CFR Part 60 Subpart GG. Both the boilers and turbine are in compliance with 20.2.61 NMAC (Smoke and Visible Emissions) and NSR Permit Number 2195B-M1R2.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
whole.				

Source	Allowable Emission Limits											
	NOx		CO		SOx		TSP		PM_{10}		VOC	
	Gas	Oil	Gas	Oil	Gas	Oil	Gas	Oil	Gas	Oil	Gas	Oil
TA-3-22-1 (lb/hr)	10.2	11.3	7.0	6.5	1.1	9.6	1.3	4.3	1.3	3.0	1.0	0.3
TA-3-22-2 (lb/hr)	10.2	11.3	7.0	6.5	1.1	9.6	1.3	4.3	1.3	3.0	1.0	0.3
TA-3-22-3 (lb/hr)	10.2	11.3	7.0	6.5	1.1	9.6	1.3	4.3	1.3	3.0	1.0	0.3
Boilers Individually (tpy)	35.9		N/A		N/A		N/A		N/A		N/A	
Boilers Combined[1] (tpy)	60.2		41.3		7.9		8.4		8.2		5.6	
TA-3-22 CT-1 (lb/hr)	23.8		170.9		1.4		1.6		1.6		1.0	
TA-3-22 CT-1 (tpy)[1,2]	33.2		19.8		1.9		2.3		2.3		-	
TA-3-22 CT-1 (ppm)	25 ppmv @ 15% O_2		N/A		N/A		N/A		N/A		N/A	

[1] Annual emission limits are 12-month rolling totals. This is pursuant to NSR Permit 2195B-M1R2, Table 2.1, Note 7.

[2] "-" notation implies emission rates less than or equal to 0.5 tpy.

* N/A means not applicable.

2.9.2 Emission Limits 2.9.2.1 All combustion stationary sources shall each not exhibit visible emissions equal to or in excess of twenty (20) percent opacity, averaged over a ten-minute period as required by 20 NMAC 2.61.	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. The opacity limit was not exceeded during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
2.9.2.2 Nitrogen dioxide emissions shall not exceed 0.3 lb/MMBtu of heat input from boilers (Units TA-3-22-1, TA-3-22-2, and TA-3-22-3) when burning natural gas or oil as required by 20.2.33 and 20.2.34 NMAC.. This condition was brought forward from NSR Permit 2195B-M1R2, Condition 2.c and 2.d.	Results from source compliance tests performed on the boilers in September 2002, demonstrate that nitrogen dioxide emissions do not exceed 0.3 lbs per MMBtu of heat input.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.2.3 The permittee shall comply with the standard for nitrogen oxide and sulfur dioxide for the turbine (Unit TA-3-22-CT-1) as required by 40 CFR 60, Subpart GG. This condition was brought forward from NSR Permit 2195B-M1R2, Condition 2.e.	An initial emission compliance test was performed on October 5, 2007. The Nitrogen Oxide emission concentration was shown to be less than 25 ppmv at 15% Oxygen. Sulfur dioxide concentrations are low due to the combustion of low sulfur natural gas as the only fuel (less than 3/4 grains per 100 scf or <0.0034 weight percent total sulfur). This is well below the sulfur content listed in 40 CFR 60, Subpart GG §60.333, the standard for sulfur dioxide, which is 0.8 percent by weight total sulfur.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.3 Operational Requirements Conditions of Section 2.9.3 are pursuant to Paragraphs 1, 7, and 8 of 20.2.70.302.A NMAC. 2.9.3.1 Units TA-3-22-1, TA-3-22-2 and TA-3-22-3 shall either use natural gas containing no more than 2 grains of total sulfur per 100 standard cubic foot or No. 2 fuel oil that is not a blend containing waste oils or solvents and contains less than or equal to 0.05% sulfur by weight. This condition was brought forward from NSR Permit 2195B-M1R2, Condition 1.j.	The natural gas transportation contract states that gas provided to LANL will be pipeline quality with a total sulfur content of no more than 3/4 grains of total sulfur per 100 scf. Fuel oil is checked/analyzed prior to or upon delivery to verify it contains less than or equal to 0.05% sulfur by weight.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.3.2 Units TA-3-22-1, TA-3-22-2 and TA-3-22-3 combined shall not use more than 2,000 MMscf of natural gas in any 12 month period or more than 500,000 gallons of No. 2 fuel oil in any 12 month period. Individually, they shall not use more than 1,200 MMscf of natural gas in any 12 month period or more than 170,000 gallons of No. 2 fuel oil in any 12 month period. This condition was brought forward and amended from NSR Permit 2195B-M1R2, Conditions 1.j.	A 12 month rolling total for both natural gas and fuel oil use is maintained and reviewed to verify usage does not exceed 2,000 MMscf and 500,000 gallons respectively. The 12 month rolling totals for each fuel are provided in LANL's Semi-Annual Monitoring Report. A 12 month rolling total for both natural gas and fuel oil use is maintained for each individual boiler. These totals are reviewed monthly to verify usage does not exceed individual limits.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.3.3 Unit TA-3-22-CT-1 shall use natural gas containing no more than 2 grains of total sulfur per 100 standard cubic feet. Unit TA-3-22 CT-1 shall not use more than 646 MM standard cubic feet (SCF) of natural gas in any 12 month period. These conditions were	The natural gas transportation contract states that gas provided to LANL will be pipeline quality and contain no more than 3/4 grains of total sulfur per 100 scf. A 12 month rolling total for natural gas is maintained and reviewed to verify usage does not exceed 646 MMscf. The rolling total is provided in LANL's	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
brought forward from NSR Permit 2195B-M1R2, Conditions 1.h and 1.i.	Semi-Annual Monitoring Report.			
2.9.3.4 One volumetric fuel flow meter shall be installed on the liquid fuel inlet to the boilers (Units TA-3-22-1, TA-3-22-2 and TA-3-22-3). This condition was brought forward from NSR Permit 2195B-M1R2, Condition 1.k.	A volumetric fuel flow meter is used to measure fuel oil flowing to the boilers.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.3.5 A volumetric fuel flow meter shall be installed on the natural gas fuel inlet for each boiler (Units TA-3-22-1, TA-3-22-2 and TA-3-22-3) and the turbine (Unit TA-3-22-CT-1). This condition was brought forward from NSR Permit 2195B-M1R2, Condition 1.l.	A volumetric fuel flow meter, used to measure natural gas consumption, is located on each of the units listed in this condition.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.3.6 Unit TA-3-22-CT-1 shall be equipped with Rolls-Royce Dry Low Emissions (DLE) control technology (pre-mix, lean-burn series staged combustion system) to control NOx emissions. This condition was brought forward from NSR Permit 2195B-M1R2, Condition 1.f.	The Dry Low Emissions (DLE) control technology is an integral part of the combustion turbine design. The DLE control was evaluated during start-up and determined to be working as designed.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.3.7 Unit TA-3-22-CT-1 shall be operated at no less than 100% full load, except for minimal periods during startup and shutdown conditions. The permittee shall follow the manufacturer's recommended startup/shutdown procedures in order to minimize the duration of these events. This condition was brought forward from NSR Permit No. 2195B-M1R2, Condition 1.g.	The combustion turbine is operated at no less than 100% load, except for start-up and shut-down periods. An operation log is used to track the load of the unit. Procedures are in place for the startup and shutdown of the combustion turbine.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.3.8 Each boiler (Units TA-3-22-1, TA-3-22-2 and TA-3-22-3) shall only be operated in conjunction with a properly operating flue gas recirculation fan (Units F-1, F-2, and F-3, respectively). Any malfunction of the flue gas recirculation system during boiler operation is subject to the requirements of 20.2.7 NMAC – Excess Emissions. This condition was brought forward from NSR Permit 2195B-M1R2, Condition 1.m.	When a boiler is in operation, the associated FGR is on. A fan speed indicator is located on the control panel in operator control room. This fan speed is monitored and recorded during boiler operation. No malfunctions of the FGR system have occurred during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.4 Emissions Monitoring Requirements Conditions of Section 2.9.4 are pursuant to 20.2.70.302.C NMAC. 2.9.4.1 Use of natural gas fuel containing no more than 2 grains of total sulfur per 100 dry standard cubic	The natural gas transportation contract states that gas provided to LANL will be pipeline quality and contain no more than 3/4 grains of total sulfur per 100 scf. Opacity did not meet or exceed 20% over a 10-minute period, and no visible emissions were observed during steady state	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
feet constitutes compliance with 20.2.61 NMAC unless opacity exceeds 20% averaged over a 10-minute period. When any visible emissions are observed during steady state operation, opacity shall be measured over a 10-minute period, in accordance with the procedures at 40 CFR 60, Appendix A, Method 9 as required by 20.2.61.114 NMAC.	operations during this certification period.			
2.9.4.2 Fuel usage: The liquid fuel flow rate for each boiler (Units TA-3-22-1, TA-3-22-2 and TA-3-22-3) shall be continuously monitored whenever liquid fuel is combusted. The natural gas fuel flow rate for each boiler and turbine (Unit TA-3-22-CT-1) shall be continuously monitored whenever natural gas is combusted by that unit. This condition was brought forward from NSR Permit 2195B-M1R2, Condition 3.b and 3.c.	Data on both fuel oil and natural gas flow rates to each boiler are continuously monitored. This data is electronically collected and monitored.	☒ **Continuous** ☐ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.4.3 The flue gas recirculating fans (Units F-1, F-2, and F-3) shall be inspected for proper operation and maintenance once during each calendar month that the unit was operating. This condition was brought forward from NSR Permit 2195B-M1R2, Condition 3.d.	The FGR fans are inspected for proper operation and maintenance each month the unit is operating.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.4.4 The operating load of Unit TA-3-22-CT-1 specified by Condition 2.9.3.7 shall be monitored once daily during normal operations of that unit. This condition was brought forward from NSR Permit 2195B-M1R2, Condition 3.e.	The operating load of the combustion turbine is monitored and recorded daily on the operating log during normal operations.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.4.5 Periodic Emissions Tests for Unit TA-3-22-CT-1: The permittee shall test annually for NOx and CO emissions through use of a portable analyzer. The portable emissions analyzer shall be setup and operated in accordance with the manufacturer's instructions, with the current version of the Department's Standard Operating Procedure for Use of Portable Analyzers in Performance Tests, and with the following conditions: 1. Equipment shall be tested in the "as found" condition. Equipment may not be adjusted or tuned prior to any test for the purpose of lowering emissions, and then returned to previous settings or operating conditions after the test is complete.	The first annual emissions test required by this condition was performed on October 23, 2009. The test was performed by an external testing company using their portable analyzer. The analyzer was setup and operated in accordance with the manufacturer's instructions and with the AQB Operating procedure for use of portable analyzers in performance tests. In addition, all equipment was tested in a "as found" condition. Oxygen concentrations, flow rate, and temperature of the exhaust gas were monitored and recorded. The final report for this test will be submitted with the semi-annual monitoring report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
2. During emissions tests the moisture content, O_2 concentration, flow rate and temperature of the exhaust gas shall be monitored (or calculated by an acceptable method) and recorded. This information shall be included with the test report. 3. After the time a correlation is established between emission rate and concentration of a pollutant, the periodic emission test may consist of measuring the pollutant concentration. Exhaust flow rate at the time of correlation (by 40 CFR 60-method 19, by manufacturer's correlation, or by initial testing) may be used to calculate emission rates at later tests. 4. Testing shall occur once during each calendar year. No two monitoring events shall occur closer together in time than 3 months. Monitoring shall be conducted during each monitoring period notwithstanding periods of operation less than 25%. 5. A protocol submittal is required if a significant change in the testing procedure has taken place since the previous test. This condition was brought forward from NSR Permit 2195B-M1R2, Condition 3.f.				
2.9.4.6 The permittee shall maintain a valid purchase contract, tariff sheet, or transportation contract which shows natural gas fuel sulfur content, to show compliance with the applicable monitoring requirements in 40 CFR 60.334(h) for the turbine (Unit TA-3-22-CT-1). This documentation shall also reflect that the facility natural gas fuel complies with the maximum fuel sulfur requirement of Conditions 2.9.3.2.	The natural gas transportation contract states that gas provided to LANL will be pipeline quality and contain no more than 3/4 grains of total sulfur per 100 scf.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
and 2.9.3.3. Note: In accordance with EPA document EMTIG—GD-009 (March 12, 1990), no daily monitoring for fuel bound nitrogen is required for the turbine (Unit TA-3-22-CT-1). This condition was brought forward from NSR Permit 2195B-M1R2, Condition 3.g.				
2.9.4.7 The hours of operation, including start-up and shut-down times of Units TA-3-22-1, TA-3-22-2 and TA-3-22-3 and TA-3-22-CT-1 shall be continuously monitored. This condition was brought forward from NSR Permit 2195B-M1R2, Condition 3.a.	An operator log book is used to identify when a boiler was brought on line or taken off line (or standby). It also records the type of fuel the boiler is using. The plant computer monitoring system also monitors information on boiler start and stop times and duration of use. The combustion turbine hours of operation, including start and stop times, are monitored and recorded each day of turbine operation.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.5 Recordkeeping Conditions of Section 2.9.5 are pursuant to Subsection C and Paragraph D(1) of 20.2.70.302 NMAC. 2.9.5.1 The permittee shall make a record of any visible emissions observations and corresponding opacity measurements as required by Condition 2.9.4.1. The record shall include the date, time, name of person(s) making the observation and opacity measurement, and value of opacity observed. This condition was brought forward from NSR Permit 2195B-M1R2, Condition 4.c.	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. Opacity readings are provided to NMED in the Semi-Annual Monitoring Reports. Visible emissions did not meet or exceed the 20% limit during this certification period. The visible emission observation record includes the date, time, name of person making the observation, and value observed.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.5.2 Fuel usage: The permittee shall record the daily total of liquid fuel (gallons) or gaseous fuel (SCF) for each boiler, and the turbine on a monthly basis. Annual fuel usage shall be calculated monthly using a 12-month rolling total. This condition was brought forward from NSR Permit 2195B-M1R2, Condition 4.e.	Both fuel oil (gallons) and natural gas (SCF) usage is recorded electronically on a daily and monthly basis. The monthly totals are used to calculate a 12-month rolling total.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.5.3 The permittee shall record all inspections of the flue gas recirculating fans (Units F-1, F-2, and F-3), and any event during which a fan malfunctions. The record shall include the date, time, name of operator conducting the inspection, and any discrepancies noted. For malfunction events, the record shall also include the nature and duration of the malfunction, and any corrective action taken. This condition was brought	Inspections of the FGR fans are maintained on site. There have been no malfunctions of the FGR fans during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
forward from NSR Permit 2195B-M1R2, Condition 4.h.				
2.9.5.4 The permittee shall record the daily monitored operating load for the turbine (Unit TA-3-22-CT-1). This condition was brought forward from NSR Permit 2195B-M1R2, Condition 4.f.	The operating load of the combustion turbine is monitored and recorded daily when the unit is in operation.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.5.5 The permittee shall record the annually-determined NOx and CO emission rate for the turbine (Unit TA-3-22-CT-1) per Condition 2.9.4.5. This condition was brought forward from NSR Permit 2195B-M1R2, Condition 4.g.	The NOx and CO emission rates are recorded in the final test report. This report is available on site and is provided to NMED in the semi-annual monitoring report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.5.6 The permittee shall maintain a record of a current, valid purchase contract, tariff sheet or transportation contract for the gaseous fuel, specifying the maximum total sulfur content of the fuel is 2 grains of total sulfur per 100 standard cubic feet (SCF) or less. A certification of total sulfur content of the No. 2 fuel oil used by the boilers (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. If the certification 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 total sulfur content of No. 2 fuel oil. A record shall be kept of all fuel delivery certifications and fuel sulfur analyses. This condition was brought forward from NSR Permit 2195B-M1R2, Condition 4.a and 4.b.	The natural gas transportation contract states that gas provided to LANL will be pipeline quality and contain no more than 3/4 grains of total sulfur per 100 scf. Fuel oil is checked/analyzed for sulfur content prior to or upon delivery to verify it contains less than or equal to 0.05% sulfur by weight. This certification/analysis is available on site. No fuel oil deliveries occurred during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.5.7 The permittee shall record daily hours of operation for each boiler (Units TA-3-22-1, TA-3-22-2 and TA-3-22-3) and the turbine (Unit TA-3-22-CT-1) on a monthly basis. This condition was brought forward from NSR Permit 2195B-M1R2, Condition 4.d.	An operator log book is used to identify when a boiler was brought on line or taken off line (or standby). It also records the type of fuel the boiler is using. The plant computer monitoring system also has information on boiler start and stop times and duration of use. The combustion turbine hours of operation, including start and stop times, are monitored and recorded each day of turbine operation.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.5.8 The permittee shall comply with all applicable recordkeeping requirements of 40 CFR 60, Subparts A and GG for Unit TA-3-22-CT-1. This condition was brought forward from NSR Permit 2195B-M1R2, Condition 4.k.	The combustion turbine is in compliance with 40 CFR Part 60 Subpart A and 40 CFR Part 60 Subpart GG.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
2.9.5.9 The permittee shall maintain a record for each startup/shutdown or malfunction event for the combustion turbine (Unit TA-3-22-CT-1). The record shall include the date, the start/end time and duration for each event, which is defined as the length of time the combustion turbine is operating at less than 100% load. For any malfunction event, the record shall also include the nature of the malfunction and any corrective action taken. This condition was brought forward from NSR Permit 2195B-M1R2, Condition 4.i.	The combustion turbine daily operation log contains the date, start and end times, and duration of operation. No malfunctions of the combustion turbine occurred during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.5.10 The permittee shall maintain a record of the manufacturer's recommended startup/shutdown procedure. This condition was brought forward from NSR Permit 2195B-M1R2, Condition 4.j.	A procedure is in place that contains the actions to be taken to properly startup and shutdown each of the units listed in this section.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.6 Reporting This condition is pursuant to 20.2.60.302.E NMAC. 2.9.6.1 Reports shall be submitted in accordance with Conditions 4.1 and 4.2.	Emissions and monitoring reports are submitted on a 6-month basis in accordance with permit conditions 4.1 and 4.2. LANL submitted monitoring reports to NMED on January 29, 2009 and August 5, 2009. Emissions reports were submitted to NMED on March 16, 2009 and August 25, 2009.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.6.2 The permittee shall comply with all applicable reporting requirements of 40 CFR 60, Subparts A and GG.	All applicable reporting requirements under 40 CFR 60, Subparts A and GG are complied with.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.10 Open Burning 2.10.1 Applicable Requirements 2.10.1.1 The following requirements apply to this activity: 20.2.60 and 20.2.65 NMAC.	No open burning, as identified in 20.2.60 and 20.2.65 NMAC, occurred during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.10.2 Emission Limits 2.10.2.1 The contribution of HAP emissions from open burning shall not cause the exceedance of the corresponding facility-wide limit listed below: 8 tons per year of an individual facility-wide HAP 24 tons per year of total facility-wide HAPs	No open burning occurred during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.10.3 Operational Requirements Conditions of Section 2.10.3 are pursuant to Paragraphs	No open burning occurred during this certification period.	☐ **Continuous**	☒ **Yes**	☐ **Yes**

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
1, 7, and 8 of 20.2.70.302.A NMAC. 2.10.3.1 The permittee shall comply with the applicable requirements of 20.2.60 NMAC - Open Burning and 20.2.65 NMAC - Smoke Management, including:		☒ **Intermittent**	☐ **No**	☒ **No**
2.10.3.2 Prior to initiating a burn consisting of vegetative material, submit to the Department a sampling and analysis plan and upon approval conduct representative sampling of the intended burn material and analyze samples for radionuclides, target analyte list (TAL) inorganic elements, polychlorinated biphenyls (PCBs), and high explosives (HE);	No open burning occurred during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.10.3.3 Submit to the Department a background concentration report for the contaminants listed in Condition 2.10.3.2. The report shall indicate locations where background concentrations were taken and compare sample results with background concentrations of the constituents; and	No open burning occurred during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.10.3.4 Not burn vegetative material, which includes any contaminant above the relevant background concentration.	No open burning occurred during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.10.3.5 Upon receiving Department approval, conduct public notification in a display ad in at least four newspapers: Los Alamos Monitor, Rio Grande Sun, Santa Fe New Mexican, and the Albuquerque Journal, no less than 21 days in advance of a planned burn.	No open burning occurred during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.10.4 Recordkeeping This condition is pursuant to Subsection C and Paragraph D(1) of 20.2.70.302 NMAC. 2.10.4.1 Maintain records of any representative sampling conducted	No open burning occurred during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.10.5 Reporting	No open burning occurred during this certification period.	☐ **Continuous**	☒ **Yes**	☐ **Yes**

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
This condition is pursuant to 20.2.70.302.E NMAC. 2.10.5.1 Reports shall be submitted in accordance with Condition 4.1.		☒ **Intermittent**	☐ **No**	☒ **No**
2.11 Facility Wide Emission Limits 2.11.1 The total allowable emissions from this facility, excluding trivial activities, are shown in the following table. LANL has accepted facility-wide allowable emission limits for criteria pollutants and hazardous air pollutants (HAPs) as shown below.	Facility-wide actual emissions are calculated and compared with facility-wide emission limits twice a year. Emission reports are submitted on a 6-month basis in accordance with permit conditions 4.1. LANL submitted emission reports to NMED on March 16, 2009 and August 25, 2009. No emission limits were exceeded during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Total Allowable Criteria Pollutant and HAP Emission Limits

Pollutant	Emission Limit (tons per year)
Nitrogen Oxides (NO_x)	245.0
Carbon Monoxide (CO)	225.0
Volatile Organic Compounds (VOCs)	200.0
Sulfur Dioxide (SO_2)	150.0
Particulate Matter (PM)	120.0
Hazardous Air Pollutants (HAPs)	24.0 combined / 8.0 individual

* PM emission limit represents all three forms of PM: TSP, PM_{10}, and $PM_{2.5}$.

2.11.2 20.2.72 NMAC shall apply to any construction or modification of existing equipment that triggers the applicability criteria in section 200 of 20.2.72 NMAC.	The LANL air quality group has a review process for construction and modification projects. This process identifies projects applicable to 20.2.72 NMAC.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.11.3 Startup, Shutdown and Malfunction Conditions: Each owner or operator shall comply with the applicable requirements of 40 CFR 60.7(b) and 60.11(d).	The NSPS sources at LANL have experienced no malfunctions during this certification period. Operator logs are maintained that record startup and shutdown of these sources. Internal operating procedures are in place to reduce emissions during startup, shutdown, and maintenance activities.	☒ **Continuous** ☐ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
2.11.4 Startup, Shutdown, and Maintenance Conditions: The permittee shall operate in accordance with the procedures set forth in the plan to minimize emissions during routine or predictable startup, shutdown, and scheduled maintenance (SSM work practice plan), except for operations or equipment subject to condition 2.11.3 above. This condition is pursuant to 20.2.7.14.A NMAC.	LANL sources do not have emissions during routine or predictable startup, shutdown, or maintenance, which require a plan under 20.2.7.14.A.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
3.0 RECORDKEEPING Conditions of 3.0 are pursuant to 20.2.70.302.D NMAC. 3.1 Conditions of 3.1 are pursuant to 20.2.70.302.D.1 NMAC. 3.1.1 All sampling activities and measured data required by this permit for the emission units in this facility shall be recorded. The minimum information to be included in these records is: 3.1.1.1 equipment identification (include make, model and serial number for all tested equipment and emission controls); 3.1.1.2 date(s) and time(s) of sampling or measurements; 3.1.1.3 date(s) analyses were performed; 3.1.1.4 the company or entity that performed the analyses; 3.1.1.5 analytical or test methods used; 3.1.1.6 results of analyses or tests; and 3.1.1.7 operating conditions existing at the time of sampling or measurement.	Records are maintained for all required sampling activities and measured data. These records are available on site. The primary measuring activities applicable to this section are the visible emissions evaluations and emission monitoring. Specific equipment detail is identified in the Operating Permit application. The date and time of sampling or measurement is included on the test record. Sampling/measurement records include the date of analyses and who performed the analysis. Sampling/measurement records include the test methods used. Sampling/measurement records include the results of the evaluation. Sampling/measurement records include operating conditions and time of sampling or measurement.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
3.2 The permittee shall keep copies of all monitoring and measurement data, equipment calibration and maintenance records, other supporting information, and reports required by this permit for at least five (5) years from the time the data was gathered or the reports were written. Each record shall show clearly to which emission unit and or piece of monitoring equipment it applies, and the date the data was gathered. This condition is pursuant to	All monitoring and measurement records required by the permit are kept for a minimum of five years. Each record includes the emission unit or piece of equipment it applies to. All records contain the date of data collection, and the date the data was gathered.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

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20.2.70.302.D.2 NMAC.				
3.3 Routine and predictable emissions during startup, shutdown, and maintenance (SSM): The permittee shall keep records of all events subject to the plan required by 20.2.7.14.A. NMAC to minimize emissions during routine or predictable start up, shut down, and scheduled maintenance (SSM).	LANL sources do not have emissions during routine or predictable startup, shutdown, or maintenance, which require a plan under 20.2.7.14.A.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
3.4 The permittee shall keep a record describing off permit changes made at this source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under this permit, and the emissions resulting from those changes. This condition is pursuant to 20.2.70.302.I.2 NMAC.	Records of any change to permitted emission units that might alter regulated air pollutant emissions is kept on file for review. If an increase is expected or has occurred, the change in emissions will be calculated and retained as a record and, if required, reported to NMED.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
4.0 REPORTING Conditions of 4.0 are pursuant to 20.2.70.302.E NMAC. 4.1 Reports of actual emissions from permitted sources in Section 2.0 shall be submitted on a 6-month basis. Reports shall not include emissions from insignificant activities. Emission estimates of criteria pollutants NOx, CO, SO_2, PM, and VOCs shall not include fugitive emissions. Emission estimates of HAPs shall include fugitive emissions. The reports shall include a comparison of actual emissions that occurred during the reporting period with the facility-wide allowable emission limits specified in Section 2.11 of this permit.	Actual emissions from permitted sources are calculated and compared with the facility-wide emission limits twice a year. Emission reports are submitted on a 6-month basis. LANL submitted emission reports to NMED on March 16, 2009 and August 25, 2009. Reports do not include insignificant activities or fugitive emissions of criteria pollutants. Fugitive emissions from HAPs are included. No emission limits were exceeded during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
4.2 Reports of all required monitoring activities shall be submitted on a semiannual basis. All instances of deviation from permit requirements, including those that occur during emergencies, shall be clearly identified in these reports. The conditions of 4.1 and 4.2 are pursuant to 20.2.70.302.E.1 NMAC.	Monitoring reports are submitted on a 6-month basis. LANL submitted monitoring reports to NMED on January 29, 2009 and August 5, 2009. One permit deviation occurred during this certification period. The deviation will be included in the semiannual monitoring report as well as included in Part 2 of this report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
4.3 The report required by Condition 4.1 shall be submitted within 90 days from the end of the reporting period. The semiannual report required by Condition 4.2 shall be submitted within 45 days from the end of	All reports required under this section were submitted prior to the reporting deadlines during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

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the reporting period. The reporting periods are January 1st to June 30th and July 1st to December 31st. This condition is pursuant to 20.2.70.302.E.1 NMAC.				
4.4 The permittee shall submit reports of all deviations from permit requirements, including those attributable to upset conditions as defined in the permit, the probable cause of such deviations, and any corrective actions or preventive measures taken. These reports shall be contained in the semi-annual reports required by Condition 4.2. This condition is pursuant to 20.2.70.302.E.2 NMAC.	One permit deviation occurred during this certification period. The deviation will be included in the semiannual monitoring report as well as included in Part 2 of this report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
4.5 Results of emission tests and monitoring for each pollutant (except opacity) shall be reported in pounds per hour (unless otherwise specified) and tons per year. Opacity shall be reported in percent. Reported numerical values shall not be truncated or rounded, and shall be recorded and reported to the number of significant figures corresponding to the full accuracy inherent in the testing instrument or Method test used to obtain the data.	Emission tests and monitoring results are reported in pounds per hour and tons per year. Opacity readings are reported in percent.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
5.0 COMPLIANCE 5.1 The conditions of Section 5.1 are pursuant to 20.2.70.302.E.3 NMAC. The permittee shall submit compliance certification reports certifying the compliance status of this facility with respect to all permit terms and conditions, including applicable requirements. These reports shall be made on the pre-populated Compliance Certification Report Form provided by the Department, and shall be submitted to the Department and EPA at least every 12 months. For the most current form, contact the Compliance Reports Group at email:reportsgroup.aqb@ state.nm.us. The reporting period is each calendar year. This report is due no later than January 30th following the reporting period. For additional reporting guidance see http://www.nmenv. state.nm.us/aqb/enforce_compliance/TitleVReporting.htm.	This compliance certification report meets the requirements of permit condition 5.1.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

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5.1.1 For sources that have submitted air dispersion modeling that demonstrates compliance with state and federal ambient air quality standards, in accordance with 20.2.70.300.D.10 NMAC or 20.2.72.203.A.4 NMAC, compliance with the terms and conditions of this permit regarding source emissions and operation shall be deemed to be compliance with state and federal ambient air quality standards (20.2.3 NMAC NMAAQS and 40 CFR 50 NAAQS).	For sources listed in the permit, required air dispersion modeling was submitted.			
5.2 Conditions of 5.2 are pursuant to 20.2.70.302.G.1 NMAC. The permittee shall allow representatives of the Department, upon presentation of credentials and other documents as may be required by law, which includes proper clearances when required, to do the following:	A compliance inspection by the NMED-Air Quality Bureau was conducted on September 30, 2009. LANL will make every effort to assist NMED with any reasonable request to verify compliance with this permit.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
5.2.1 enter the permittee's premises where a source or emission unit is located, or where records that are required by this permit to be maintained are kept,	LANL made arrangements for representatives of the Department to access the location of each emission unit and to view all required records during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
5.2.2 have access to and copy, at reasonable times, any records that are required by this permit to be maintained,	Records required by the permit were provided to the Department as requested during the inspection.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
5.2.3 inspect any facilities, equipment (including monitoring and air pollution control equipment), work practices or operation regulated or required under the permit,	LANL made arrangements for representatives of the Department to access the location of each emission unit and to view all required records during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
5.2.4 sample or monitor any substances or parameters for the purpose of assuring compliance with this permit or applicable requirements or as otherwise authorized by the federal Act.	Sampling or monitoring will be allowed if requested. No sampling or monitoring by the Department was requested during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
5.2.5 The Department recognizes that the permittee operates under security restrictions imposed by the Atomic Energy Act (42 USC 2011 *et seq*.) and the regulations promulgated there under as well as other federal laws and regulations. The Department agrees it will abide by those laws and regulations in	LANL will make every effort to provide unclassified documents to be used for verifying compliance with permit conditions. LANL will continue to work with the department to provide the proper security clearance	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

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access to property and records. Nothing in this permit condition shall be construed to deny access authorized by the Air Quality Control Act.	needed to access emission units located in classified areas.			
5.3 A copy of this permit shall be kept at the permitted facility and shall be made available to Department personnel for inspection upon request. This condition is pursuant to 20.2.70.302.G.3 NMAC.	A copy of this permit is available at the facility. It will be made available upon request.	☒ **Continuous** ☐ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
6.0 EMERGENCIES Conditions of 6.0 are pursuant to 20.2.70.304 NMAC. 6.1 An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the permittee, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, or careless or improper operation.	No emergency situations occurred during this reporting period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
6.2 An emergency constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations contained in this permit if the permittee has demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that: (a) An emergency occurred and that the permittee can identify the cause(s) of the emergency; (b) This facility was at the time being properly operated; (c) During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements	No emergency situations occurred during this reporting period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

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in this permit; (d) The permittee submitted notice of the emergency to the Department within 2 working days of the time when emission limitations were exceeded due to the emergency. This notice fulfills the requirement of 20.2.70.302.E(2) NMAC. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.				
6.3 In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.	No emergency situations occurred during this reporting period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
6.4 This provision is in addition to any emergency or upset provision contained in any applicable requirement.	No emergency situations occurred during this reporting period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
7.0 PERMIT REOPENING AND REVOCATION 7.1 This permit will be reopened and revised when any one of the following conditions occurs, and may be revoked and reissued when 7.1.3 or 7.1.4 occurs. Conditions of 7.1 are pursuant to 20.2.70.405.A.1 NMAC. 7.1.1 Additional requirements under the federal Act become applicable to this source three (3) or more years before the expiration date of this permit. If the effective date of the requirement is later than the expiration date of this permit, then the permit is not required to be reopened unless the original permit or any of its terms and conditions has been extended due to the Department's failure to take timely action on a request by the permittee to renew this permit. 7.1.2 Additional requirements, including excess emissions requirements, become applicable to this source under Title IV of the federal Act (the acid rain program). Upon approval by the Administrator, excess emissions offset plans will be incorporated	A permit application to renew the LANL Operating Permit (5 year renewal) was submitted in 2008. A new operating permit was issued on August 7, 2009. The current permit number is P100R1. No additional changes to the permit have been requested during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

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into this permit. 7.1.3 The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the terms and conditions of the permit. 7.1.4 The Department or the Administrator determines that the permit must be revised or revoked and reissued to assure compliance with an applicable requirement.				
7.2 Proceedings to reopen or revoke this permit shall affect only those parts of this permit for which cause to reopen or revoke exists. Emissions units for which permit conditions have been revoked shall not be operated until new permit conditions have been issued for them. This condition is pursuant to 20.2.70.405.A.2 NMAC.	A need to reopen, revise, revoke, or reissue the permit has not been identified by the Department.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
8.0 STRATOSPHERIC OZONE Conditions of Section 8 are pursuant to 20.2.70.302.A.1 NMAC. 8.1 The permittee shall comply with the following standards for recycling and emissions reductions pursuant to 40 CFR 82, Subpart F: 8.1.1 Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to subsection 82.156. 8.1.2 Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to subsection 82.158. 8.1.3 Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to subsection 82.161.	A stratospheric ozone protection program is in place at LANL. LANL, through our internal maintenance group, as well as other outside contractors, uses appropriately certified technicians and certified recycling and recovery equipment. LANL refrigeration technicians, as well as other outside contractors, are trained and follow LANL procedures to ensure that required service practices found in 40 CFR 82, Subpart F, are followed.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

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8.2 The permittee shall comply with the standards for servicing of motor vehicle air conditioners pursuant to 40 CFR 82, Subpart B.	Motor vehicle air conditioners (MVAC) are serviced by certified LANL refrigeration technicians pursuant to 40 CFR part 82, Subpart B. These technicians comply with EPA standards for servicing motor vehicle air conditioners.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
8.3 The permittee shall comply with the standards for servicing and maintaining equipment that contains halons pursuant to 40 CFR 82, Subpart H.	Certified LANL refrigeration technicians maintain the halon systems. These technicians comply with the standards for servicing and maintaining equipment containing halons pursuant to 40 CFR Part 82, Subpart H.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
9.0 RADIONUCLIDE NESHAPS Conditions of Section 9 are pursuant to 20.2.70.302.A NMAC. 9.1 The permittee shall comply with the requirements of 40 CFR 61, Subpart H – NESHAP for Radionuclides other than Radon from DOE Facilities.	LANL has a radionuclide NESHAP team that is devoted to compliance with 40 CFR Part 61, Subpart H (Emissions of radionuclides other than radon from DOE facilities). The EPA limit for radionuclide emissions, corresponding to a maximum off-site dose, is 10 millirem per year. The projected emissions for this certification period are well below the 10 millirem off-site limit. The annual report summarizing 2009 radionuclide emissions will be available in July 2010. A copy of this report will be made available to the Department upon request.	☒ **Continuous** ☐ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
9.2 The permittee shall comply with the requirements of 40 CFR 61, Subpart Q – NESHAP for Radon Emissions from DOE Facilities.	LANL has a radionuclide NESHAP team that is devoted to compliance with 40 CFR Part 61, which includes Subpart Q (emissions of radon from DOE facilities), as applicable. LANL performed evaluations on the sources applicable under this subpart and has determined that radon emission levels are below applicable thresholds. This information was provided to EPA, who in turn provided LANL with a memorandum of understanding in agreement with LANL's findings.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
10.0 ASBESTOS NESHAP This condition is pursuant to 20.2.70.302.A NMAC. 10.1 The permittee shall comply with the requirements of 40 CFR 61, Subpart M- NESHAP for Asbestos.	LANL has a program in place to meet the requirements found in the Asbestos NESHAP standard 40 CFR Part 61, Subpart M. LANL provided asbestos notifications as required during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Part 2

ACC Deviation Summary Report for Permit P100-R1

1. Are there any deviations identified in Part 1, Column 5. If NO, no further information is required on Part 2 of this form. If YES, answer question 2 below.	☒ **Yes** ☐ **No**
2. Have all deviations identified in Part 1, Column 5 been reported to the NMED as required by 20.2.7 NMAC or in a Semi-Annual Monitoring Report (20.2.70.302.E.1 NMAC)? If Yes, no further information is required on Part 2 of this form. If No, answer question 3 below and enter the required information in the Deviation Summary Table for each deviation not yet reported to the NMED.	☐ **Yes** ☒ **No**
3. Did any of the deviations result in excess emissions? For excess emissions deviations that have not previously been reported per requirements of 20.2.7 NMAC, a completed Excess Emission Form for each deviation must be attached to this report.	☐ **Yes** ☒ **No**

Deviation Summary Table for deviations not yet reported.

No.	Applicable Requirement (Include Rule Citation)	Emission Unit ID(s)	Cause of Deviation	Corrective Action Taken
1	Title-V Permit P100-R1 Condition 2.1.4.3	TA-60-BDM	A new permit condition in the Title-V Operating Permit (issued August 7, 2009) requires the use of a data logger to monitor the differential pressure across the baghouse filters and the time period the rotary dryer drum operates on the Asphalt Plant. The data logger was in the process of being installed when the permit was issued. Due to the need for custom chart paper and availability of electricians to install the unit, the data logger was not fully installed and operational until September 25, 2009.	The installation of the data logger was expedited. The existing manually entered log used to record the differential pressure and operation times of the rotary dryer drum continued to be used as required by the previous permit condition. When it was identified that the installation of the data logger would be delayed, asphalt production was halted until the unit was installed.
2				

3				
4				
5				

Deviation Summary Table (cont.)

	Deviation Started		Deviation Ended					Did you attach an excess emission form?
No.	Date	Time	Date	Time	Pollutant	Monitoring Method	Amount of Emissions	
1	8/7/2009	8:00 AM	9/25/2009	5:00 PM	None	Data Logger	0	☐ **Yes** ☒ **No**
2								☐ **Yes** ☐ **No**
3								☐ **Yes** ☐ **No**
4								☐ **Yes** ☐ **No**
5								☐ **Yes** ☐ **No**

Los Alamos NATIONAL LABORATORY EST. 1943

Signature/Review/Coordination Sheet

This form is to accompany all documents requiring review, approval, or signature by the Laboratory Director or Designee.

Date	Deadline	Is this a response to an action item?
January 19, 2010	January 29, 2010	Yes ☐ No ☒
From: Name: David L. Paulson MS: J978		☒ Call for Pick-up Name: David L. Paulson Phone: 5-8884

Title: Identify document, briefly describing subject matter.

Annual Compliance Certification Data for Title V Permit Number P100-R1

☐ Action ☐ Information Only

Background/Issues:

The Annual Compliance Certification is a required report under our Title V Operating Permit. The certification report, is as the name implies, a certification of compliance with all Title V Operating Permit conditions. The report is required to be signed by the Responsible Official for the Laboratory, who is listed as Chris Cantwell, Associate Director of ESH&Q.

There is one permit deviation listed in this certification report. The deviation stems from the delayed installation of the data logger at the asphalt plant. The deviation occurred once the Title V permit was renewed on August 7, 2009, and a requirement to have the data logger installed became in effect. The deviation is explained in more detail in Part 2 of the report.

ACTION requested of Laboratory Director or Designee:

Please review and sign.

PAD Endorsement

Name (*print*)	Signature	Date

AD Endorsement

Name (*print*)	Signature	Date
Chris Cantwell, ADESHQ		1/27/10

Coordinated with

1. Name (*print*) Denny Hjeresen, ENV-DO	Signature	Date 1/25/10
2. Name (*print*) Dianne Wilburn, ENV-EAQ	Signature	Date 1/25/10
3. Name (*print*) Phil Wardwell, LC-LESH	Signature See attached e-mail	Date
4. Name (*print*)	Signature	Date
5. Name (*print*)	Signature	Date

Please ensure appropriate inter/intra Directorate/Divisional coordination and review prior to submittal to the Director's Office.

Form 1824 (1/07)

X-Sieve: CMU Sieve 2.3
X-NIE-2-Virus-Scanner: amavisd-new at mailrelay2.lanl.gov
Subject: Approval of Table, Title V Air Permit
To: dpaulson@lanl.gov
Cc: clblackwell@lanl.gov
X-Mailer: Lotus Notes Release 6.5.1 January 21, 2004
From: wardwell@lanl.gov
Date: Mon, 25 Jan 2010 13:31:06 -0700
X-MIMETrack: Serialize by Router on WPCMail03P/LANL(Release 7.0.4|March 23, 2009) at 01/25/2010 01:31:07 PM

Hi Dave, per our conversation, you have addressed my questions about the table. I approve, for your correspondence control purposes.

Phil Wardwell
Office of Laboratory Counsel
Environment, Safety and Health Practice Group
Mail Stop A 187
Telephone 505 667 3766
Fax 505 665 4424

To: wardwell@lanl.gov
From: Dave Paulson <dpaulson@lanl.gov>
Subject: Re: Title V Permit Certification Table
Cc:
Bcc:
Attached:

Phil, thanks for the quick review of the Certification Report.

The Certification Report is password protected, so the permit related language and data entered can not be modified. I noticed the fonts change throughout the document, but due to the protection placed on the document by NMED, I am unable to change. I will work with the person at the state who sends us these forms to correct this for next year.

I made the change to "experienced".

I made the change to "uses"

And yes, there were no opacity issues at the Power Plant this year.

At 04:09 PM 1/22/2010, you wrote:

> Dave - I reviewed the table and thought it was very good. I left you a voice mail.
>
> I noticed that the type font seemed to go back and forth on several pages between two different fonts.
> Also, on page 1, 6th box, 2d column, change "experianced" to "experienced".
> Page 45, 4th box, 2d column, change "use" to "uses."
>
> As I mentioned, I was surprised there were no opacity problems with the TA 3 Power Plant.
>
> Give me a call Monday so we can talk about this, and I'll be able to email you an approval.

Phil Wardwell
Office of Laboratory Counsel
Environment, Safety and Health Practice Group
Mail Stop A 187
Telephone 505 667 3766
Fax 505 665 4424

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

David L. Paulson, CSP, CHMM, CESM
Ecology and Air Quality Group
Environmental Protection Division
Los Alamos National Laboratory
e-mail: dpaulson@lanl.gov
Phone: (505) 665-8884
Pager: (505) 664-4827
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