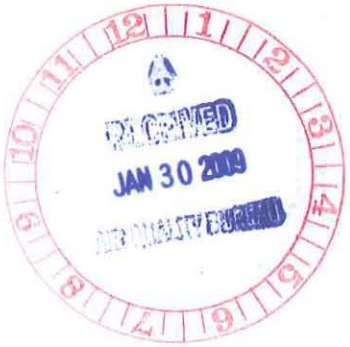
Los Alamos
NATIONAL LABORATORY
EST.1943

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 29, 2009
Refer To: ESH&Q-09-003



Compliance Reporting Manager
New Mexico Environment Department
Air Quality Bureau
1301 Siler Road
Building B
Santa Fe, New Mexico 87507

Dear Compliance Reporting Manager:

SUBJECT: ANNUAL COMPLIANCE CERTIFICATION REPORT FOR JANUARY– DECEMBER, 2008
TITLE V OPERATING PERMIT P100M2
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, 2008**. This report is required by permit condition 5.1 of Operating Permit P100M2, and is being submitted by January 30th 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 deviations occurred during this certification period. The deviation was with permit conditions 2.9.4.7 and 2.9.4.8 of our operating permit. Detailed information on this deviation can be found in these sections 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.

Sincerely,

Richard S. Watkins
Associate Director
Environment, Safety, Health & Quality
Los Alamos National Security, LLC

Attachment: a/s

Cy: David Garcia (6EN-A), U.S. EPA
M. Mallory, ADPADOPS, A102
S. Fong, DOE-LA-AO, A316
P. Wardwell, LC-ESH, A187
V. George, ENV-DO, J978
D. Wilburn, ENV-EAQ, J978
S. Story, ENV-EAQ, J978
D. Fuehne, ENV-EAQ, J978
IRM-RMSSO, A150
ESH&Q File, w/att., K491
ENV-EAQ Title V Certification Report File
ENV-EAQ File

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): Richard S. Watkins	Phone: 505-667-4218	Fax: 505-665-3811
RO Title: Assoc. Director Environmental, Safety, Health, and Quality	RO e-mail: rswatkin@lanl.gov	
Permit No.: P100M2	Date Permit Issued: July 16, 2007	
Report Due Date (as required by the permit): 01/30/2009	Permit AI number: 856	
Time period covered by this Report: From: January 1, 2008	To: December 31, 2008	

III. Certification of Truth, Accuracy, and Completeness

I am the Responsible Official indicated above. I, (Richard S. Watkins) 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 Richard S Watkins Date: 1/21/09

New Mexico Environment Department
Air Quality Bureau
Compliance and Enforcement Section
2048 Galisteo
Santa Fe, NM 87505
Phone (505) 827-1494
Fax (505) 827-1523

Version 11.22.06

REPORTING SUBMITTAL FORM

NMED USE ONLY	
Staff	
Admin	

PLEASE NOTE: ® - Indicates required field

SECTION I - GENERAL COMPANY AND FACILITY INFORMATION

® Company Name: Los Alamos National Security			**® Facility Name:** Los Alamos National Laboratory		
® Company Address: P.O. Box 1663 MS J978			**® Facility Address:** Same as Company		
® City: Los Alamos	**® State:** NM	**® Zip:** 87545	**® City:**	**® State:**	**® Zip:**
® Company Environmental Contact: Dianne Wilburn	**® Title:** EAQ Group Leader		**® Facility Contact:** Steve Story	**® Title:** Air Compliance Manager	
® Phone Number: 505 667 6952	**® Fax Number:** 505 665 8858		**® Phone Number:** 505 665 2169	**® Fax Number:** 505 665 8858	
® Email Address: dianne@lanl.gov			**® Email Address:** story@lanl.gov		
Responsible Official: (Title V only): Richard S. Watkins	**Title:** Associate Director ESH&Q		**Phone Number:** 505 667 4218	**Fax Number:** 505 665 3811	

® AI Number:	Title V Permit Number:	Title V Permit Issue Date:	NSR Permit Number:	NSR Permit Issue Date:
856	P100M2	July 16, 2007	2195	Various

® Date of Submittal:	Reporting Period:	OR	Proposed Test Date:	OR	Actual Test Date:
January 22, 2008	2008 Annual Report (full year)				

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

A. ☒	**Title V Annual Compliance Certification**	**Permit Condition(s):** All	**Description:** LANL 2008 Compliance Certification Report	
B. ☐	**Title V Semi-annual Monitoring Report**	**Permit Condition(s):**	**Description:**	
C. ☐	**NSPS Requirement (40CFR60)**	**Regulation:**	**Section(s):**	**Description:**
		Test Protocol ☐ **Test Report** ☐ **Other** ☐		
D. ☐	**MACT Requirement (40CFR63)**	**Regulation:**	**Section(s):**	**Description:**
		Test Protocol ☐ **Test Report** ☐ **Other** ☐		
E. ☐	**NMAC Requirement (20.2.xx) or NESHAP Requirement (40CFR61)**	**Regulation:**	**Section(s):**	**Description:**
		Test Protocol ☐ **Test Report** ☐ **Other** ☐		
F. ☐	**Permit Requirement**	**Permit No.:**	**Condition(s):**	**Description:**
		Test Protocol ☐ **Test Report** ☐ **Other** ☐		
G. ☐	**Requirement of a Settlement Agreement or Compliance Order**	**NOV or SFO No.:**	**Section(s):**	**Description:**
		Test Protocol ☐ **Test Report** ☐ **Other** ☐		

SECTION III - CERTIFICATION

After reasonable inquiry, I Richard S. Watkins (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?
[signature]	AD ESH&Q	1/21/09	☒ Yes ☐ No

Reviewed By: _____ Date Reviewed: _____

Attachment

Los Alamos National Laboratory's

Title-V Operating Permit P100-M2

2008 Annual Compliance Certification Report

LA-UR-09-00349

Approved for public release;
distribution is unlimited.

Title:	Los Alamos National Laboratory Title V Operating Permit P100M2 2008 Annual Compliance Certification Report
Author(s):	David Paulson, ENV-EAQ
Intended for:	Compliance Reporting Manager New Mexico Environment Department Air Quality Bureau 1301 Siler Road, Building B Santa Fe, New Mexico 87507

Los Alamos
NATIONAL LABORATORY
EST.1943

Form 836 (7/06)

Part 1 - Permit Requirements Certification Table

Annual Compliance Certification Data for Title V Permit No. P100M1

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 22, 2008. Information was requested by the inspectors to determine compliance. Requested information was provided to Allan Morris of Air Quality Bureau on October 15, 2008, which was within the time period specified by the inspector. 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 $16,920 were submitted to the NMED Air Quality Bureau on March 31, 2008, prior to the June 1, 2008 deadline.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
1.5 A responsible official (as defined in 20.2.70 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, Richard S. Watkins, or the NMED Air Quality Bureau approved desingee, 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 experianced 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 Upon request by the Department, the permittee shall submit an emissions inventory for this facility. This condition is pursuant to 20.2.73 NMAC and 20.2.70.302.A.1 NMAC.	LANL submitted the required emission inventory report required under 20.2.73 NMAC on March 21, 2008. The semi-annual emission inventory reports required under condition 4.1 of the LANL Operating Permit, and under 20.2.70.302.A.1 and 20.2.70.302.E NMAC, were submitted on March 21, 2008 and September 15, 2008.	☐ **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?
1.8 The source will continue to comply with all applicable requirements. For applicable requirements that will become effective during the term of the permit, the source 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 the conditions required in operating permit P100. All new NSR permit requirements, not yet included in the operating permit, will be followed and will be 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 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.	Only EPA reference methods have been used to determine compliance during this certification period. No measurements were greater than emission limits listed in the LANL Operating Permit.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
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	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?
equipment not regulated pursuant to the Act are not included):				

Emission Unit No.	Location/Building	Make/Model	Type of Control	Design Capacity (tons per hour)
TA-60-BDM	TA-60	BDM Engineering TM2000	Cyclone Baghouse	80

2.1.1 Applicable Requirements 2.1.1.1 The following requirements apply to this emission unit: 20.2.11 NMAC; 40 CFR Part 60, Subpart I, and NSR Permit Number GCP3-2195G. 2.1.2 Emission Limits	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. Particulate matter (PM) rate (lb/hr) was determined during compliance testing and a report with this value was submitted to NMED on September 22, 2005.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Emission Unit	Allowable Emission Limits				
	NO_x	**SO_2**	**PM**	**CO**	**VOC**
TA-60-BDM	1.0 tpy	1.0 tpy	0.04 gr/dscf 35.4 lbs/hr	2.6 tpy	1.0 tpy

2.1.2.1 Visible emissions shall not exhibit an opacity of 20 % or greater. This condition is pursuant to 40 CFR 50, Paragraphs 1, 7 and 8 of 20.2.70.302.A NMAC.	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**
2.1.3 Operational Requirements 2.1.3.1 Production shall not exceed 13,000 tons per year, 12-month rolling total.	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 The asphalt process equipment shall not operate without a fugitive dust control system to limit particulate emissions to the stack outlet.	The plant is equipped with a fugitive dust control system, which limits particulate emissions to the exhaust stack.	☐ **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?
2.1.3.3 Equip and operate all screens, conveyor belts, and transfer points with dust collection and control systems sufficient to prevent opacity from exceeding 20%.	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**
2.1.3.4 The baghouse shall be equipped with a device to continuously monitor differential pressure 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**
2.1.3.5 Total sulfur content shall be no more than 0.75 percent by volume for any natural gas used.	Natural gas is not used by the plant at this time.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.1.3.6 Total sulfur content shall be no greater than 0.5 percent by weight for any propane used.	Total sulfur content is ≤ 0.5 percent by weight for propane used. Purchase records from the propane supplier are maintained on site as required by condition 2.1.5.1 of the permit .	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.1.3.7 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**
2.1.3.8 Hours of operation are limited to 4,380 hours per year.	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**
2.1.3.9 All unpaved haul roads shall be watered to prevent visible emissions.	In 2006, the haul road was paved. A log of road sweeping is maintained as required by condition 2.1.5.1. Watering of the haul road is no longer performed.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.1.3.10 Plant operations shall be in accordance with NSR permit GCP3-2195G, section III, D,E,F,H,I,K. The conditions of 2.1.3 are pursuant to Paragraphs 1, 7 and 8 of 20.2.70.302.A NMAC.	An initial location evaluation of this source was performed and placement, including setback and co-location, meets conditions of the NSR permit GCP-3-2195G. Particulate abatement systems are in place with pressure drop monitored to reduce emissions from the plant. A closed loop system is used to recycle baghouse fines. Haul roads are paved and do not require watering. The haul road is periodically swept to prevent visible emissions. Sweeping of the haul road is recorded. No internal combustion engines are used at the plant.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.1.4 Emissions Monitoring Requirements 2.1.4.1 Perform monthly six (6) minute opacity readings for each emission point having opacity greater	LANL has certified opacity 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. Potential emission points are determined by EPA Reference Method 22. Opacity reports are	☐ **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?
than zero as determined by EPA Method 22.	provided to NMED in the Semi-Annual Monitoring Reports.			
2.1.4.2 Monitor the differential pressure (inches of water) across the baghouse by the use of a differential pressure gauge, in accordance with condition IV.C.2 of NSR permit number GCP-3-2195G.	The differential pressure across the bag house is monitored and collected in accordance with condition IV.C.2 of NSR permit GCP-3-2195G.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.1.4.3 40 CFR Part 60, Appendix A, Method 9 shall be used to determine compliance with the opacity limitation. The conditions of Section 2.1.4 are pursuant to 20.2.70.302.C NMAC.	LANL has certified opacity readers on-site who perform opacity readings using 40 CFR Part 60, Appendix A, Reference Method 9 to determine compliance with the opacity limit.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.1.5 Recordkeeping 2.1.5.1 The permittee shall comply with all applicable recordkeeping requirements in NSR permit number GCP-3-2195G, section IV.D keeping records of actual hours of operation, production rates, number of haul truck trips daily, fuel sulfur content, tickets of fuel purchased, quantity and frequency of water applied to haul roads, frequency of haul road sweeping, and copies of proposed and performed maintenance.	Recordkeeping conditions are met using the following methods: The production log contains hours of operation, production rates, and number of haul truck trips. The permit binder, located at the facility, contains fuel sulfur content provided by the supplier, tickets of fuel purchased, 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. These records are kept at the Asphalt Plant.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.1.5.2 Keep compliance test results for particulate matter and opacity performed within 60 days of initial startup.	An initial start-up compliance test for PM and opacity was performed on August 25 & 26, 2005. A copy of the final report was submitted to NMED on September 22, 2005. The report is also maintained on-site.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.1.5.3 Maintain results of the monthly six (6) minute opacity readings.	Monthly six (6) minute opacity readings are performed. Results are submitted to NMED with the Semi-Annual Monitoring Reports. Records are also maintained on-site.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.1.5.4 Maintain records of the monitoring of the differential pressure across the baghouse. The conditions of 2.1.5 are pursuant to Subsection C and Paragraph D(1) of 20.2.70.302 NMAC.	Records of the monitoring of differential pressure across the baghouse are maintained on-site.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.1.6 Reporting 2.1.6.1 Reports shall be submitted in accordance with conditions 4.1 and 4.2. This condition is 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 22, 2008 and August 7, 2008. Emissions reports were submitted to NMED on March 21, 2008 and September 15, 2008.	☐ **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?
2.2 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 No.	**Location/Building**	**Process**	**Type of Control**
TA-3-29	TA-3-29	Chemistry and Metallurgy Research Facility	HEPA Filter
TA-3-66	TA-3-66	Sigma Facility	HEPA Filter Lubricating Bath
TA-3-141	TA-3-141	Beryllium Test Facility	Lubricating Bath Cartridge Filtration System HEPA Filter
TA-16-207	TA-16-207	Structural Testing	Wet Sanding
TA-35-87	TA-35-87	Laser Facility	Enclosed Glovebox
TA-35-213	TA-35-213	Target Fabrication Facility	Pre-Filter HEPA Filter
TA-55-PF4	TA-55-PF4	Plutonium Facility	HEPA Filter

2.2.1 Applicable Requirements 2.2.1.1 The following requirements apply to these emission units : 40 CFR Part 61, Subpart C, and NSR Permits Numbers 632, 634, and 1081.	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	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**
Chemistry and Metallurgy Research Facility TA-3-29	10 gm/24 hr	Not Applicable
Sigma Facility TA-3-66	10 gm/24 hr	Not Applicable
Beryllium Test Facility TA-3-141	0.35 gm/24 hr 3.5 gm/yr	Not Applicable

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TA-16-207	10 gm/24 hr	Not Applicable
TA-35-87	10 gm/24 hr	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

This condition is pursuant to 20.2.70.302.A NMAC.

2.2.3 Operational Requirements	TA-3-29: Beryllium operations are no longer conducted at TA-3-29. NMED was notified of the request to cancel the registration of this source in a memorandum dated June 15, 2007. Administrative Amendment P100M2, July 17, 2007, removed this source from the permit. 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/ 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-16-207: Sanding of beryllium surfaces is performed wet using a fine grit abrasive. TA-35-87: All cutting and punching of beryllium foil occurs within an enclosed bench top glovebox.	☐ **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-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.			

Source	**Operating Requirement**	**Process Limit**	**Control Equipment Requirement**
Chemistry and Metallurgy Research Facility TA-3-29	Beryllium operations will consist of registered sources in Wing 2.	None	Hood exhaust from the melting operations shall be exhausted through a HEPA filtration system prior to entering the atmosphere.
Sigma Facility TA-3-66	Beryllium operations will consist of registered polishing, electroplating/chemical milling, machining, and arc melting/casting sources.	None	Emissions from machining and arc melting/casting operations shall be exhausted through a HEPA filtration system prior to entering the atmosphere. Polishing and electroplating/chemical milling operations shall be conducted in aqueous solution or lubricant bath.

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 Test 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.			
TA-16-207	Beryllium operations consist of wet sanding beryllium material.	None	Sanding of beryllium surfaces is performed wet using a fine-grit abrasive.			
TA-35-87	Beryllium operations consist of punching or cutting beryllium foil.	None	All cutting and punching of beryllium foil occurs within an enclosed glovebox.			
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.			

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?

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.	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 vacuum 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.

The conditions of Section 2.2.3 are pursuant to 20.2.70.302.A NMAC.

2.2.4 Emissions Monitoring Requirements	TA-3-29 – Beryllium operations are no longer conducted at TA-3-29. NMED was notified of the request to cancel the registration of this source in a memorandum dated June 15, 2007. No operations were conducted during this certification period. TA-3-66 – Log books are maintained for monitoring the number of metallographic specimens used in the polishing operation and the weight of samples processed in the electroplating/chemical milling, machining, and arc melting/casting operations. 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-16-207– Project files of components prepared for testing are maintained. TA-35-87 – A log of the number of filters cut is maintained. 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	☐ **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?
	filter challenge tests are performed and results are submitted to NMED in LANL's Semi-Annual Monitoring Reports.			

Source	**Monitoring Required**
Chemistry and Metallurgy Research Facility TA-3-29	A log shall be maintained during operations which indicates the number of Be samples processed.
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 of Be samples processed in the electroplating/chemical milling, machining, and arc melting/casting operations.
Beryllium Test Facility TA-3-141	Facility exhaust stack will be equipped with a continuous emission monitor used to measure beryllium emissions. Cartridge and HEPA filters will be equipped with differential pressure gauges that measure the differential pressure across the cartridge and HEPA filters while the exhaust fans are in operation.
TA-16-207	Project files shall be maintained of components prepared for testing.
TA-35-87	A log shall be maintained during operations which shows the number of beryllium filters cut.
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 conditions of Section 2.2.4 are pursuant to 20.2.70.302.C NMAC.

2.2.5 Recordkeeping	TA-3-29 – Beryllium operations are no longer conducted at TA-3-29. NMED was notified of the request to cancel the registration of this source in a memorandum dated June 15, 2007. No operations were conducted during this certification period. 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 and daily differential pressure readings. Process limits have not been 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?
	Control equipment maintenance and repair activities are also recorded. TA-16-207 – Recordkeeping for this source is specified in condition 2.2.4. TA-35-87 – Recordkeeping for this source is specified in condition 2.2.4. 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.			

Source	**Recordkeeping Required**
Chemistry and Metallurgy Research Facility TA-3-29	Recordkeeping for this source is specified in Condition 2.2.4.
Sigma Facility TA-3-66	Recordkeeping for this source is specified in Condition 2.2.4.
Beryllium Test Facility TA-3-141	Generate 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. Record pressure drop across the cartridge and HEPA filters once per day that the exhaust fans are in operation and the facility is occupied. Record control equipment maintenance and repair activities.
TA-16-207	Recordkeeping for this source is specified in Condition 2.2.4.
TA-35-87	Recordkeeping for this source is specified in Condition 2.2.4.
Target Fabrication Facility TA-35-213	Recordkeeping for this source is specified in Condition 2.2.4.

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?
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. 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 conditions of Section 2.2.5 are pursuant to Subsection C and Paragraph D(1) of 20.2.70.302 NMAC.

2.2.6 Reporting	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 22, 2008 and August 7, 2008. Emissions reports were submitted to NMED on March 21, 2008 and September 15, 2008. 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: 1/22/2008, 4/28/2008, 7/28/2008, and 10/23/2008. 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**
Chemistry and Metallurgy Research Facility TA-3-29	See condition 4.2.
Sigma Facility TA-3-66	See condition 4.2.
Beryllium Test 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.

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?

	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 Plan (QAP) 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.
TA-16-207	See condition 4.2.
TA-35-87	See condition 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.

The conditions of Section 2.2.6 are pursuant to 20.2.70.302.E NMAC.

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	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**

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):

Emission Unit No.	**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 1558	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	None
TA-55-6-BHW-2	TA-55-6	Sellers 350 H.P. W-LN490	14.6	None
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	TA-50-2	Superior MS6-5-1500-S260-M	12.6	None
TA-21-357-1	TA-21-357	Industrial Boiler 3WB350HCG0	12.1	None
TA-21-357-2	TA-21-357	Industrial Boiler 3WB350HCG0	12.1	None

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-21-357-3	TA-21-357	Industrial Boiler 3WB350HCG0	12.1	None

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

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.	LANL boiler and heater operations meet the requirements of 40 CFR Part 60, Subpart Dc, as required, and 20.2.61 NMAC. The only applicable requirement in 40 CFR Part 60, Subpart Dc, is the monthly fuel monitoring requirement. The fuel records for the applicable TA-55 boilers is collected monthly and maintained on-site as required by 60.48c(g)(2).	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.3.2 Emission Limits	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. In addition, fuel use records are collected monthly and emissions calculated to verify compliance with the emission limits. Allowable emission limits have not been exceeded.	☐ **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	80	50	50	50

[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%. The conditions of Section 2.3.2 are pursuant to 40 CFR 50, Paragraphs 1, 7 and 8 of 20.2.70.302.A NMAC.	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 reports are provided to NMED in the semi-annual monitoring reports. Visible emissions did not equal or exceed 20% opacity during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.3.3 Operational Requirements 2.3.3.1 Natural gas usage is limited to 870 MMscf/yr, 12-month rolling total, for all boilers listed in Section 2.3 and all other boilers and heaters at LANL that qualify as insignificant activities, except emission units TA-21-357-1, TA-21-357-2, and TA-21-357-3.	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. Boilers at TA-21-357 ceased operation in June 2007. They did not operate during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.3.3.2 For emission units TA-21-357-1, TA-21-357-2, and TA-21-357-3, natural gas usage is limited to 60	The TA-21 Steam Plant (TA-21-357), where these boilers are located, ceased operation in June 2007. These units have been	☐ **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?
MMscf/yr and fuel oil usage to 10,000 gal/yr, 12-month rolling total. The conditions of Section 2.3.3 are pursuant to Paragraphs 1, 7 and 8 of 20.2.70.302.A NMAC.	removed from service and will no longer be used.	☒ **Intermittent**	☐ **No**	☒ **No**
2.3.4 Emissions Monitoring Requirements 2.3.4.1 Emission units TA-21-357-1, TA-21-357-2, and TA-21-357-3: A volumetric flow meter shall be utilized to measure the total amount of natural gas being used on a monthly basis.	The TA-21 Steam Plant (TA-21-357), where these boilers are located, ceased operation in June 2007. These units have been removed from service and will no longer be used.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.3.4.2 Emission units TA-55-6-BHW-1 and TA-55-6-BHW-2: A volumetric flow meter shall be utilized to measure the total amount of natural gas being used on a monthly basis.	For units located at TA-55-6, 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**
2.3.4.3 40 CFR Part 60, Appendix A, Method 9 shall be used to determine compliance with the opacity limitation. The conditions of Section 2.3.4 are pursuant to 20.2.70.302.C NMAC.	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 2.3.5.1 All boilers and heaters, including insignificant emission units: Records of total natural gas and fuel oil usage shall be kept on a monthly basis. This condition is pursuant to Subsection C and Paragraph D(1) of 20.2.70.302 NMAC. 2.3.6 Reporting 2.3.6.1 Reports shall be submitted in accordance with conditions 4.1 and 4.2. This condition is pursuant to 20.2.70.302.E NMAC.	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. Facility wide fuel oil usage for applicable units is collected and recorded on a monthly basis. 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 22, 2008 and August 7, 2008. Emissions reports were submitted to NMED on March 21, 2008 and September 15, 2008.	☐ **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?
2.4 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):	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 No.	**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	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.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

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

This condition is pursuant to 40 CFR 50, 20.1.3 NMAC, Paragraphs 1, 7 and 8 of 20.2.70.302.A NMAC.

2.4.3 Operational Requirements 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 compliance 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. The conditions of Section 2.4.3 are pursuant to Paragraphs 1, 7 and 8 of 20.2.70.302.A NMAC.	Process cyclones are operated during shop operations that are vented to the cyclones.	☐ **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?
2.4.4 Emissions Monitoring 2.4.4.1 The permittee shall maintain logs of the hours the carpenter shops are in operation. This condition is pursuant to 20.2.70.302.C NMAC.	A log is maintained with shop hours of operation for each shop. These logs are available on-site.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.4.5 Recordkeeping 2.4.5.1 Record the hours of operation for each shop monthly. This condition is pursuant to Subsection C and Paragraph D(1) of 20.2.70.302 NMAC.	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 2.4.6.1 Reports shall be submitted in accordance with conditions 4.1 and 4.2. This condition is 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 22, 2008 and August 7, 2008. Emissions reports were submitted to NMED on March 21, 2008 and September 15, 2008.	☐ **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):	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 No.	**Location**
LANL-FW-CHEM	Facility-wide

2.5.3 Emission Limits 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	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 have not been 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?
8 tons per year of individual facility-wide HAP 24 tons per year of total facility-wide HAPs This condition is pursuant to 40CFR50, Paragraphs 1, 7 and 8 of 20.2.70.302.A NMAC.				
2.5.4 Emissions Monitoring/Recordkeeping Requirements 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. This condition is pursuant to 20.2.70.302.C NMAC.	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 2.5.5.1 Reports shall be submitted in accordance with conditions 4.1 and 4.2. This condition is 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 22, 2008 and August 7, 2008. Emissions reports were submitted to NMED on March 21, 2008 and September 15, 2008.	☐ **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). Degreasers TA-55-DG-2 and TA-55-DG-3 did not operate during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Emission Unit No.	**Location/Building**	**Type of Degreaser**
TA-55-DG-1	TA-55	Ultrasonic Cold Batch
TA-55-DG-2	TA-55	Ultrasonic Cold Batch
TA-55-DG-3	TA-55	Spray Cold Batch

2.6.1 Applicable Requirements 2.6.1.1 The following requirement applies to these	LANL degreaser operations met all requirements of 40 CFR Part 63, Subpart T.	☐ **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?
emission units: 40 CFR Part 63, Subpart T.		☒ **Intermittent**	☐ **No**	☒ **No**
2.6.2 Emission Limits 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 This condition is pursuant to 40CFR50, 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. Comparison against the allowable emission limits is performed at each of these reporting periods. Allowable emissions have not been exceeded.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.6.3 Operational Requirements 2.6.3.1 The facility shall comply with the applicable requirements of 40 CFR Part 63, Subpart T including:	LANL degreaser operations met all requirements of 40 CFR Part 63, Subpart T.	☐ **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 area.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **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.	A fill line has been established to prevent the unit from being overfilled.	☐ **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?
2.6.3.1.7 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/sec.	The degreaser is located in a glove box with a set ventilation flow rate. Exhaust flows are set to not exceed 40 m/min.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.6.3.1.10 Do not clean sponges, fabric, wood, or paper. The conditions of Section 2.6.3 are pursuant to Paragraphs 1, 7 and 8 of 20.2.70.302.A NMAC.	Sponges, fabric, wood, or paper are not cleaned in the degreaser.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.6.4 Emissions Monitoring Requirements 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. The conditions of Section 2.6.4 are pursuant to 20.2.70.302.C NMAC.	Checklists for work practice standards have been completed for this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.6.5 Recordkeeping 2.6.5.1 Maintain records of solvent content and work practice checklists. This condition is pursuant to Subsection C and Paragraph D(1) of 20.2.70.302 NMAC.	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**
2.6.6 Reporting 2.6.6.1 Submit notification of initial startup.	Only one of the three permitted degreasers is being used. If other units are brought on-line, NMED will be notified.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.6.6.2 Submit a compliance report 150 days after initial startup.	If an inoperative degreaser should become active, a compliance report will be submitted to the NMED within 150 days after startup.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.6.6.3 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 22, 2008	☐ **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?
The conditions of Section 2.6.6 are pursuant to 20.2.70.302.E NMAC.	and August 7, 2008. Emissions reports were submitted to NMED on March 21, 2008 and September 15, 2008.	☒ **Intermittent**	☐ **No**	☒ **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):	In August of 2007, three additional generators were permitted at LANL under NSR permit number 2195-P. These units operated during this certification period. These units have been included in the LANL Operating Permit Renewal Application submitted to NMED in April 2008. No other 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 No.	**Location/ Building**	**Equipment Type**	**Manufacturer/Model**	**Serial No.**	**Nameplate Capacity**	**Fuel Type**
TA-33-G-1	TA-33	Diesel Fired Generator	Kohler/1600 ROZD 71	375801	1600 kW	Diesel
Standby Generators (see Note 1)	Scattered	Natural Gas, Diesel, Propane and Gasoline Fired Generators	Various	Various	See Note 1	Natural Gas, Diesel, Propane and Gasoline

Note 1: See pages 3-50 through 3-54 of the 2002 application.

2.7.1 Applicable Requirements 2.7.1.1 The following requirements apply to emission unit TA-33-G-1: 20.2.61 NMAC and NSR Permit Number 2195F.	TA-33-G-1 meets the requirements of 20.2.61 NMAC and NSR Permit No. 2195F.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.7.2 Emission Limits	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.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Source	**Allowable Emission Limits**											
	TSP		PM10		NO_x		CO		VOC		SO_x	
TA-33-G-1	pph	tpy	pph	tpy	pph	tpy	pph	tpy	pph	tpy	pph	tpy
	1.4	0.6	1.4	0.6	40.3	18.1	33.7	15.2	0.7	0.3	5.5	2.5

2.7.2.1 Visible emissions shall not equal or exceed an opacity of 20%.

The conditions of Section 2.7.2 are pursuant to 40CFR50, Paragraphs 1, 7 and 8 of 20.2.70.302.A NMAC.

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 Operational Requirements 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.	TA-33-G-1 did not meet or exceed either the daily or annual kWh limit during this compliance certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.7.3.3 TA-33-G-1 is limited at full capacity to eight hours a day between the hours of 7:00 am and 5:00 pm. The conditions of Section 2.7.3 are pursuant to Paragraphs 1, 7 and 8 of 20.2.70.302.A NMAC.	A run log is maintained at the generator that records start-up, shut-down, and run time. The unit was operated only within the allowed operating times during this compliance certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.7.4 Emissions Monitoring Requirements	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. TA-33-G-1 has a run log to track hourly kWh totals and hours of operation, as well as the time operation begins and ends each day. The hourly kWh readings are collected monthly and a 12-month rolling total is calculated.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Source	**Monitoring Required**
Stationary standby Generators	Track and record hours of operation for stationary standby generators on a semi-annual basis.
TA-33-G-1	Track hourly and 12-month rolling total kWh. Record hours of operation and the time operation begins and ends each day.

2.7.4.1 40 CFR Part 60, Appendix A, Method 9 shall be used to determine compliance with the opacity limitation. The conditions of Section 2.7.4 are pursuant to 20.2.70.302.C NMAC.	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 2.7.5.1 Recordkeeping for this source category is	Recordkeeping requirements are specified at condition 2.7.4.	☐ **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?
specified at Condition 2.7.4. This condition is pursuant to Subsection C and Paragraph D(1) of 20.2.70.302 NMAC.		☒ **Intermittent**	☐ **No**	☒ **No**
2.7.6 Reporting 2.7.6.1 Reports shall be submitted in accordance with conditions 4.1 and 4.2. This condition is 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 22, 2008 and August 7, 2008. Emissions reports were submitted to NMED on March 21, 2008 and September 15, 2008.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
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 No.	*Unit 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 w/ 75% control efficiency and cloth tube filters w/95% control efficiency

2.8.1 Applicable Requirements 2.8.1.1 NSR Permit Number 2195H.	LANL Data Disintegrator operations meet requirements of NSR Permit No. 2195H.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.8.2 Emission Limits	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)	PM10 (pph)	PM10 (tpy)
	2.3	9.9	2.3	9.9

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?
PM10 and TSP emissions limits shown in above Table are after controls. This condition is pursuant to 40 CFR 50 and Paragraphs 1, 7 and 8 of 20.2.70.302.A NMAC.				
2.8.4 Emissions Monitoring 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.	A log is kept to record the number of boxes of media destroyed monthly and is used to calculate emissions on a semi-annual basis. The number of boxes destroyed is provided to NMED in the Semi-Annual Monitoring Reports.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **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 No. 2195H Condition 1.d.	LANL has a service contract in place with the manufactures recommended local service company to perform regular maintenance and repair on the cyclone and cloth tube filter per manufacturer's recommendation.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.8.5 Recordkeeping 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 No. 2195H, Condition 4a.	Records are maintained to demonstrate compliance with manufacturer's recommended repair and maintenance schedules for the cyclone and cloth tube filter.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.8.6 Reporting 2.8.6.1 Report shall be submitted in accordance with conditions 4.1 and 4.2. This condition is 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 22, 2008 and August 7, 2008. Emissions reports were submitted to NMED on March 21, 2008 and September 15, 2008.	☐ **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 CFR Title 40 Part 60 Appendix A. For combined TSP and PM10, 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 No. 2195H, Condition 6.b, as amended.	No compliance test was required or performed during this compliance 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 No.	**Equipment Type**	**Make/Serial No.**	**Year of Manuf.**	**Capacity[1]**
TA-3-22-1	Boiler	Edgemoor Iron Works/ 4008	1950	178.5 MMBtu/hr
TA-3-22-2	Boiler	Edgemoor Iron Works/ 4009	1950	178.5 MMBtu/hr
TA-3-22-3	Boiler	Union/11804	1951	178.5 MMBtu/hr
TA-3-22 CT-1	Combustion Turbine	Rolls-Royce/RB211-6761 DLE	2003	24.6 MW
F-1	Flue Gas Recirculation Fan	Robinson Industries	2001	1800 rpm
F-2	Flue Gas Recirculation Fan	Robinson Industries	2001	1800 rpm
F-3	Flue Gas Recirculation Fan	Robinson Industries	2001	1800 rpm

[1]The boiler and turbine capacity listed has been derated for altitude from the maximum heat input rating.

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 Part 60 Subpart A and 40 CFR Part 60 Subpart GG. The boilers and the turbine are subject to 20.2.61 NMAC. NSR Permit Number 2195BM1 applies to the power plant as a whole.	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 2195-BM1.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.2 Emission Limits	Compliance with the boilers pound per hour emission limits were determined during source compliance tests performed in September 2002. Compliance with the Combustion Turbine pound per hour emission limit was determined during source compliance tests performed in October 2007. For both tests, the results were provided to NMED. Emissions			

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?
	are also calculated and reported to the NMED on a 6-month basis in accordance with permit condition 4.1. Comparison against the 12-month rolling total emission limits is performed each month and at each of the above mentioned emission reporting periods.			

Source	**Allowable Emission Limits**											
	NOx (lb/hr)		CO (lb/hr)		SOx (lb/hr)		TSP (lb/hr)		PM_{10} (lb/hr)		VOC (lb/hr)	
	Gas	Oil	Gas	Oil	Gas	Oil	Gas	Oil	Gas	Oil	Gas	Oil
TA-3-22-1	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	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	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 Combined[1]	60.2 tpy		41.3 tpy		7.9 tpy		8.4 tpy		8.2 tpy		5.6 tpy	
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		-	

[1] Annual emission limits are 12-month rolling totals. This is pursuant to NSR Permit No. 2195BM1, Table 2.2, Note 1.
[2] "-" notation implies emission rates less than or equal to 0.5 tpy.

2.9.2.1 Nitrogen dioxide emissions shall not exceed 0.3 lb/MMBtu of heat input from Units TA-3-22-1, TA-3-22-2, and TA-3-22-3 when burning natural gas or oil. This condition was brought forward from NSR Permit No. 2195BM1, Condition 2.b.	Results from source compliance tests performed on the boilers in September 2002, demonstrate that NO2 emissions do not exceed 0.3 lbs per MMBtu of heat input.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.2.2 Nitrogen oxide emissions from the Unit TA-3-22 CT-1 shall not exceed 25 ppmv at 15% O_2. This condition was brought forward from NSR Permit No. 2195BM1, Condition 2d.	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.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.3 Operational Requirements 2.9.3.1 Units TA-3-22-1, TA-3-22-2 and TA-3-22-3 shall either use pipeline quality natural gas containing no more than 2 grains of total sulfur per 100 standard	The natural gas transportation contract states that gas provided to LANL will be pipeline quality. Pipeline quality gas contains no more than 2 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**

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?
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 No. 2195BM1, Condition 1.g.				
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 365 day period or more than 500,000 gallons of No. 2 fuel oil in any 365 day period. These conditions were brought forward from NSR Permit No. 2195BM1, Conditions 1.g.i and 1.g.ii.	A 365 day 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.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.3.3 A volumetric flow meter shall be connected to the facility or to Units TA-3-22-1, TA-3-22-2 and TA-3-22-3 so that the total amount of natural gas being used by the boilers can be continually recorded. This condition was brought forward from NSR Permit No. 2195BM1, Condition 1.h.	A flow meter is used to measure natural gas flowing to all 3 boilers as a combined total. The flow rate is continually recorded.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.3.4 Unit TA-3-22 CT-1 shall use pipeline quality 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 365 day period. These conditions were brought forward from NSR Permit No. 2195BM1, Conditions 1.i and 1.j.	The natural gas transportation contract states that gas provided to LANL will be pipeline quality. Pipeline quality gas contains no more than 2 grains of total sulfur per 100 scf. A 365 day 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 Semi-Annual Monitoring Report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.3.5 A volumetric fuel flow meter shall be connected to Unit TA-3-22 CT-1 so that the total amount of natural gas being used can be continually recorded. Although the facility is not subject to 40 CFR Part 75, Federal Acid Rain requirements, the flow meter shall meet the initial certification requirements of 40 CFR Part 75, Appendix D 2.1.5 and the quality assurance requirements of 40 CFR Part 75, Appendix D 2.1.6. This condition was brought forward from NSR Permit No. 2195BM1, Condition 1.k.	A volumetric flow meter is used to measure natural gas flowing to the combustion turbine. The flow rate is continually recorded. The flow meter meets both the initial certification requirements and quality assurance requirements specified 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 No. 2195BM1, Condition 1.e.	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. This condition was brought forward from NSR Permit No. 2195BM1, Condition 1.f.	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.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

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2.9.3.8 Hours of operation, including start-up and shut-down times, of Units TA-3-22-1, TA-3-22-2, TA-3-22-3 and TA-3-22 CT-1 shall be monitored and recorded daily. This condition was brought forward from NSR Permit No. 2195BM1, Condition 1.l. The conditions of Section 2.9.3 are pursuant to Paragraphs 1, 7 and 8 of 20.2.70.302.A NMAC.	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**
2.9.4 Emissions Monitoring Requirements 2.9.4.1 Total fuel oil consumption shall be monitored so that combined fuel oil usage of Units TA-3-22-1, TA-3-22-2 and TA-3-22-3 can be calculated on a rolling 365-day total. This condition was brought forward from NSR Permit No. 2195BM1, Condition 3.a.	Data on fuel oil use is electronically collected and calculated as a 365 day rolling total.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.4.2 Natural gas consumption shall be monitored so that combined natural gas usage of Units TA-3-22-1, TA-3-22-2 and TA-3-22-3 can be calculated on a rolling 365-day total. This condition was brought forward from NSR Permit No. 2195BM1, Condition 3.b.	Volumetric flow meters with correctors are in place at the facility to monitor natural gas flow to the boilers. The gas consumption monitored at this meter is electronically collected and is used to calculate a 365 day rolling total.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.4.3 Natural gas consumption shall be monitored so that natural gas usage for Unit TA-3-22 CT-1 can be calculated on a rolling 365-day total. This condition was brought forward from NSR Permit No. 2195BM1, Condition 3.f.	A volumetric flow meter with corrector is in place at the facility to monitor natural gas flowing to the turbine. The gas consumption data from this meter is continually monitored and is used to calculate a 365 day rolling total.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.4.4 A certification of total sulfur content of the No. 2 fuel oil used by Units TA-3-22-1, TA-3-22-2 and TA-3-22-3 shall be obtained from the supplier whenever No. 2 fuel oil is delivered to the facility. This condition was brought forward from NSR Permit No. 2195BM1, Condition 3.c.	No fuel oil deliveries to the plant were made during this compliance certification period. A supplier certification showing sulfur content is required prior to or upon delivery. If the certification is not available, the fuel oil is analyzed to verify it contains less than or equal to 0.05% sulfur by weight.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.4.5 If the certification as specified by Condition 2.9.4.4 is not available at delivery, the permittee shall analyze the No. 2 fuel oil to determine the total sulfur content. The analysis shall be conducted using Department approved methods and standards for determining total sulfur content of No. 2 fuel oil. This condition was brought forward from NSR Permit No. 2195BM1, Condition 3.d.	No fuel oil deliveries to the plant were made during this compliance certification period. A supplier certification showing sulfur content is required prior to or upon delivery. If the certification is not available, the fuel oil is analyzed to verify it contains less than or equal to 0.05% sulfur by weight.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.4.6 The operating load of Unit TA-3-22 CT-1 specified by Condition 2.9.3.7 shall be monitored and recorded hourly during normal operations of that unit. Periods of startup and shutdown shall not be included in the hourly monitoring but shall be recorded separately. This condition was brought forward from NSR Permit	The operating load of the combustion turbine is monitored and recorded hourly during normal operations. Start up and shut down times are recorded separately.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

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No. 2195BM1, Condition 3.e.				
2.9.4.7 Compliance with NOx pound per hour emission limits for Unit TA-3-22 CT-1 shall be determined by multiplying the daily total natural gas firing rate for the unit (expressed in thousands of SCF), as recorded pursuant to Condition 2.9.5.3, by the manufacturer's guaranteed emission rate of 0.1029 pounds NOx per thousand SCF of gas burned (applicable for worst-case conditions of negative 18 degrees Fahrenheit) and divided by the number of hours of operation of the unit during that day as recorded pursuant to Condition 2.9.3.8. Compliance with NOx annual emission limits for Unit TA-3-22 CT-1 shall be determined by multiplying the 365 day total natural gas firing rate for the unit (expressed in thousands of SCF), as recorded pursuant to Condition 2.9.5.3, by the manufacturer's guaranteed emission rate of 0.1029 pounds NOx per thousand SCF of gas burned (applicable for annual average conditions of 47.9 degrees Fahrenheit). This condition was brought forward from NSR Permit No. 2195BM1, Condition 3.g.	An emission spreadsheet, containing the calculation found in this permit condition, is used to calculate the NOx pound per hour (pph) and ton per year (tpy) emission rates. This data is compared with the permit emission limits listed in permit condition 2.9.2. On October 22 and October 23, 2008, the static emission factor and calculation in this condition resulted in a deviation. LANL has been working with the NMED-AQB permitting group to modify the permit to remove this condition and replace it with a condition that represents actual emissions. It was agreed that the current emission factor and calculation in this condition do not provide a reasonable estimate of emissions from the combustion turbine. Using an emission factor derived from data in the initial compliance test, conducted on October 5, 2007, emissions for the two days were determined to be much lower than the 23.8 pph permit limit. For October 22nd, using the compliance test emission factor resulted in 11.9 pph, as compared to the calculation in this permit condition which resulted in 24.3 pph. For October 23rd, the compliance test emission factor resulted in 12.5 pph, as compared to 25.4 pph using the calculation in this permit condition. By using the compliance test data, which contains actual emission results, no excess emission occurred. The permit modification request submitted to NMED consists of replacing the calculation in this permit condition with an annual emission test.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☒ **Yes** ☐ **No**
2.9.4.8 Compliance with CO pound per hour emission limits for Unit TA-3-22 CT-1 shall be determined by multiplying the daily total natural gas firing rate for the unit (expressed in thousands of SCF), as recorded pursuant to Condition 2.9.5.3, by the manufacturer's guaranteed emission rate of 0.731 pounds CO per thousand SCF of gas burned (applicable for worst-case conditions of negative 18 degrees Fahrenheit), and divided by the number of hours of operation of the unit during that day as recorded pursuant to Condition 2.9.3.8). Compliance with CO annual emission limits for Unit TA-3-22 CT-1 shall be determined by multiplying the 365 day total natural gas firing rate for the unit (expressed in thousands of SCF), as recorded pursuant to Condition 2.9.5.3, by the manufacturer's guaranteed emission rate of 0.0613 pounds CO per thousand SCF of gas burned (applicable for annual average conditions of 47.9 degrees Fahrenheit). This condition was brought forward from NSR Permit No. 2195BM1, Condition 3.h.	An emission spreadsheet, containing the calculation found in this permit condition, is used to calculate the CO pound per hour (pph) and ton per year (tpy) emission rates. This data is compared with the permit emission limits listed in permit condition 2.9.2. On October 22 and October 23, 2008, the static emission factor and calculation in this condition resulted in a deviation. LANL has been working with the NMED-AQB permitting group to modify the permit to remove this condition and replace it with a condition that represents actual emissions. It was agreed that the current emission factor and calculation in this condition do not provide a reasonable estimate of emissions from the combustion turbine. Using an emission factor derived from data in the initial compliance test, conducted on October 5, 2007, emissions for the two days were determined to be much lower than the 170.9 pph permit limit. For October 22nd, using the compliance test emission factor resulted in 2.5 pph, as compared to the calculation in this permit condition which resulted in 173 pph. For October 23rd, the compliance test emission factor resulted in 2.6 pph, as compared to 180 pph using the calculation in this permit	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☒ **Yes** ☐ **No**

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	condition. By using the compliance test data, which contains actual emission results, no excess emission occurred. The permit modification request submitted to NMED consists of replacing the calculation in this permit condition with an annual emission test.			
2.9.4.9 At least once each calendar quarter the permittee shall use the method specified in Conditions 2.9.4.7 and 2.9.4.8 to determine compliance of Unit TA-3-22 CT-1 with the hourly and annual emission limits specified in this permit. This condition was brought forward from NSR Permit No. 2195BM1, Condition 3.i.	The calculations in conditions 2.9.4.7 and 2.9.4.8 were performed at least once each calendar quarter since the start-up of the combustion turbine on September 23, 2007.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.4.10 Visible emissions from stationary combustion equipment shall not equal or exceed an opacity of 20%. Use of pipeline quality natural gas fuel as defined in Conditions 2.9.3.1 and 2.9.3.4 constitutes compliance with 20.2.61 NMAC unless opacity exceeds 20%. At such time as No. 2 fuel oil as defined in Condition 2.9.3.1 is used, opacity shall be measured in accordance with the procedures at 40 CFR 60, Appendix A, Method 9. Opacity measurements shall continue on a quarterly basis per calendar year for each effected unit until such time as pipeline quality natural gas is used. This condition is pursuant to 20.2.61 NMAC and NSR Permit No. 2195BM1, Condition 2.c.	Pipeline quality natural gas fuel is used at the plant, as indicated in the gas transportation contract. Each time a boiler is started on No. 2 fuel oil, or a malfunction occurs while using No. 2 fuel oil, opacity readings are taken. 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 equal or exceed the 20% limit during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.4.11 Initial compliance tests are required on Unit TA-3-22 CT-1 for NOx and CO. These tests shall be conducted within sixty (60) days after the unit achieves the maximum normal production. If the maximum normal production rate does not occur within one hundred twenty (120) days of source startup, then the tests must be conducted no later than one hundred eighty (180) days after initial startup of the source. The tests shall be conducted in accordance with EPA Reference Methods 1 through 4, Method 7E for NOx, and Method 10 for CO contained in CFR Title 40, Part 60, Appendix A, and with the requirements of Subpart A, General Provisions, 60.8(f). Alternative test method(s) may be used if the Department approves the change. The permittee shall submit a testing protocol to the Department at least thirty (30) days prior to the test date, and provide notification to the Department at least thirty (30) days prior to the test date. This condition was brought forward from NSR Permit No. 2195BM1, Condition 6.b and General Condition 13.	An initial compliance test for NOx and CO was performed on the combustion turbine within 60 days following the unit achieving maximum normal production. The unit achieved its maximum normal production rate on September 27, 2007, and the compliance test was performed on October 5, 2007. The test report was provided to NMED on October 22, 2007. The test consisted of the EPA test methods identified in this permit condition.	☒ **Continuous** ☐ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.4.12 The permittee shall comply with fuel sulfur monitoring requirements at 40 CFR 60.334(h)	The natural gas used by the combustion turbine meets the definition of natural gas in 60.331(u). The sulfur monitoring	☒ **Continuous**	☒ **Yes**	☐ **Yes**

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applicable to Unit TA-3-22 CT-1 by making the required demonstration which shows the fuel combusted in the turbine meets the definition of natural gas at 40 CFR 60.331(u). The conditions of Section 2.9.4 are pursuant to 20.2.70.302.C NMAC.	requirement is met under 40 CFR 60.334(h)(3)(i), which allows the use of a current and valid transportation contract that specifies the maximum total sulfur content is 20 grains per 100 scf or less. The transportation contract specifies a sulfur content not to exceed 2 grains of total sulfur per 100 scf. A copy of the transportation contract is available at the facility.	☐ **Intermittent**	☐ **No**	☒ **No**
2.9.5 Recordkeeping 2.9.5.1 Daily total fuel oil used by Units TA-3-22-1, TA-3-22-2 and TA-3-22-3 shall be recorded monthly to be used to calculate a 365 day rolling total.	Fuel oil use is tracked electronically to provide a monthly record of daily and 365 day rolling totals.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.5.2 Daily total natural gas consumption used by Units TA-3-22-1, TA-3-22-2 and TA-3-22-3 shall be recorded monthly to be used to calculate a 365 day rolling total.	Daily natural gas consumption is recorded monthly and is used to calculate a 365 day rolling total.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.5.3 Daily total natural gas consumption used by Unit TA-3-22 CT-1 shall be recorded monthly to be used to calculate a 365 day rolling total.	Daily natural gas consumption is recorded monthly and is used to calculate a 365 day rolling total.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.5.4 Records shall be kept to verify the total sulfur content of the No. 2 fuel oil used by Units TA-3-22-1, TA-3-22-2 and TA-3-22-3. Fuel supplier certifications shall be kept which include the name of the oil supplier and a statement that the sulfur content of the oil delivered contains less than or equal to 0.05% sulfur by weight. This condition was brought forward from NSR Permit No. 2195BM1, Conditions 4.a and 4.a.i.	No fuel oil deliveries were made to the Power Plant during this compliance certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.5.5 If the permittee analyzes the fuel oil, records shall be kept which show the name of the oil supplier, the location of the oil where the sample was taken for analysis, the method used to determine the sulfur content of the oil and the results of the analysis for the sulfur content. This condition was brought forward from NSR Permit No. 2195BM1, Condition 4.a.ii. 2.9.5.6 Records of the operating load of Unit TA-3-22 CT-1 shall be maintained as required by Condition 2.9.4.6.	No fuel oil deliveries were made to the Power Plant during this compliance certification period. An hour tracking log is used at the combustion turbine to record start time, stop time, operating hours, and normal hourly operating load.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.5.7 The permittee shall keep records of measurements and monitoring data required by Condition 2.9.4.7.	Records of the measurement and monitoring data required by condition 2.9.4.7 are maintained and available at the facility.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

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2.9.5.8 The permittee shall keep records of measurements and monitoring data required by Condition 2.9.4.8.	Records of the measurement and monitoring data required by condition 2.9.4.8 are maintained and available at the facility.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.5.9 Quarterly records required by Condition 2.9.4.9 shall be kept on site and shall be made available to Department personnel upon request.	Quarterly records required by condition 2.9.4.9 are maintained and available at the facility.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.5.10 Records shall be kept to verify that the natural gas being consumed by Units TA-3-22-1, TA-3-22-2, TA-3-22-3 and TA-3-22 CT-1 is pipeline quality natural gas (less than or equal to 2 grains of total sulfur per 100 standard cubic foot). This condition is brought forward from NSR Permit 2195BM1, Condition 4b. In addition, the permittee shall record dates and duration of use of any fuels other than pipeline quality natural gas and the corresponding opacity measurements.	The natural gas transportation contract states that gas provided to LANL will be pipeline quality. Pipeline quality gas contains no more than 2 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. Daily logs are kept which record the dates and duration of fuel oil use. Opacity readings are taken and recorded on a visible emission observation form when a boiler is initially started on fuel oil, or when a malfunction occurs.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.5.11 Records of initial compliance tests and any other emission tests required by the Department shall be maintained for the Unit TA-3-22 CT-1.	The initial compliance test report for the combustion turbine is maintained and available at the facility.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.5.12 Unit TA-3-22 CT-1 shall comply with the recordkeeping requirements of 40 CFR 60.7 and maintain a record referenced by 40 CFR 60.334(h) demonstrating the fuel combusted meets the definition of natural gas. The conditions of Section 2.9.5 are pursuant to Subsection C and Paragraph D(1) of 20.2.70.302 NMAC.	The combustion turbine is in compliance with the record keeping requirements of 40 CFR 60.7 and a copy of the transportation contract is maintained that specifies the maximum total sulfur content is 20 grains per 100 scf or less as required by 40 CFR 60.334(h).	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.9.6 Reporting 2.9.6.1 Reports shall be submitted in accordance with conditions 4.1 and 4.2. This condition is pursuant to 20.2.60.302.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 22, 2008 and August 7, 2008. Emissions reports were submitted to NMED on March 21, 2008 and September 15, 2008.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
2.10 Facility Wide Emission Limits 2.10.1 The total allowable emissions from this facility, excluding trivial activities, are shown in the following	Facility-wide actual emissions are calculated and compared with the facility-wide emission limits twice a year. Emission reports are submitted on a 6-month basis in accordance with permit condition 4.1. LANL submitted emission reports to	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

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table. LANL has accepted facility-wide allowable emission limits for criteria pollutants and hazardous air pollutants (HAPs) as shown below.	NMED on March 21, 2008 and September 15, 2008. No emission limits were exceeded during this certification period.			

Total Allowable Criteria Pollutant and HAP Emission Limits

Pollutant	**Emission Limit (tons per year)**
Nitrogen Oxides (NO_x)	245
Carbon Monoxide (CO)	225
Volatile Organic Compounds (VOCs)	200
Sulfur Dioxide (SO_2)	150
Particulate Matter (PM)	120
Hazardous Air Pollutants (HAPs)	24 combined / 8 individual

2.10.2 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**
3.0 RECORDKEEPING Conditions of 3.0 are pursuant to 20.2.70.302.D NMAC. 3.1 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:	Records are maintained for all required sampling activities and measured data. These records are available on site. The primary measuring activity applicable to this section is the visible emissions evaluations.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
3.1.1 equipment identification (include make, model and serial number for all tested equipment and emission controls), date, and time of sampling or measurements,	Specific equipment detail is identified in the Operating Permit application. The date and time of sampling or measurement is included on the test record.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
3.1.2 date analyses were performed,	Sampling/measurement records include the date of analyses.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

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3.1.3 analytical or test methods used,	Sampling/measurement records include the test methods used.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
3.1.4 results of analyses or tests,	Sampling/measurement records include the results of the evaluation.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
3.1.5 operating conditions existing at the time of sampling or measurement,	Sampling/measurement records include operating conditions and time of sampling or measurement.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
3.1.6 name and title of persons who performed the analyses. Conditions of 3.1 are pursuant to 20.2.70.302.D.1 NMAC.	Sampling/measurement records include the name and title of the person who performed the evaluation.	☐ **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 20.2.70.302.D.2 NMAC.	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**
3.3 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	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 21, 2008 and September 15, 2008. 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**

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?
reporting period with the facility-wide allowable emission limits specified in Section 2.10 of this permit.				
4.2 Reports of all required monitoring activities shall be submitted on a semiannual basis. All instances of deviation from permit requirements, including 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 22, 2008 and August 7, 2008. No deviations from the permit conditions occurred during this certification period.	☐ **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 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.	All reports required under this section were submitted prior to the reporting deadlines during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
4.4 The permittee shall submit reports of all deviations (including emergencies) from permit requirements to the Department when they occur. The permittee shall communicate initial notice of the deviation to the Department within twenty-four (24) hours of the start of the first business day following the start of the occurrence via telephone or facsimile. Within ten (10) calendar days of the start of the first business day following the start of the occurrence, written notice using the Excess Emissions Form (attached to this permit) shall be submitted to the Department. This condition is pursuant to 20.2.70.302.E.2. NMAC.	No deviations occurred during this certification period.	☐ **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 current version of the Department's Compliance Certification Report Form (attached to this permit) and submitted to the Department and to EPA at least every 12 months. The reporting period is each calendar year; provided however, that the first report will only include those months within the year subsequent to permit issuance. This report is due no later than January 30th following the reporting period. 5.1.1 For sources that have submitted air dispersion modeling that demonstrates compliance with state and	This complaince certification report meets the requirements of permit condition 5.1. For most sources listed in the permit, air dispersion modeling has been submitted.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

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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 (20.2.3NMAC NMAAQS and 40CFR50 NAAQS).				
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 the week of September 22, 2008. 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 veiw 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 veiw 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 certificaion 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 thereunder as well as other federal laws and regulations. The Department agrees it will abide by those laws and regulations in access to property and records. Nothing in this permit condition shall be construed to deny access authorized by the Air Quality Control Act.	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 needed to access emission units located in classified areas.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
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	No emergency situations occurred during this reporting period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

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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.				
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 in this permit; (d) The permittee fulfilled notification requirements under Condition 4.4 of this permit. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.	No emergency situations occurred during this reporting period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
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, except that this facility shall not be subject to the provisions of 20.2.7 NMAC (Excess Emissions during Malfunction, Startup, Shutdown, or Scheduled Maintenance) for permit terms and conditions issued solely under 20.2.70 NMAC, and not as a result of any	No emergency situations occurred during this reporting period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

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other applicable requirement.				
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 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.	An application for permit renewal was submitted in April, 2008. All changes needed or required were included in this renewal application. A need to reopen, revise, revoke, or reissue the permit has not been identified by the Department. The last amendment to the LANL Operating Permit was made on July 16, 2007, which assigned a new permit number of P100M2. This amendment retired the beryllium operations at the Chemistry and Metallurgy Research Facility at Technical Area TA-3-29.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
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 This condition is pursuant to 20.2.70.302.A.1 NMAC. 8.1 The permittee shall comply with the following standards for recycling and emissions reductions	A stratospheric ozone protection program is in place at LANL. LANL, through our internal maintenance group, as well as other outside contractors, use appropriately certified technicians and certified recycling and recovery equipment. LANL refrigeration technicians, as well as other outside	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

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pursuant to 40CFR82, 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.	contractors, are trained and follow LANL procedures to ensure that required service practices found in 40 CFR 82.156 (Subpart F) are followed.			
8.2 The permittee shall comply with the standards for servicing of motor vehicle air conditioners pursuant to 40 CFR Part 82, Subpart B.	Motor vehicle air conditioners (MVAC) are serviced at LANL by LANL refrigerant 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 Part 82, Subpart H.	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 The 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 Part 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 from 2008 result in less than 1.0 millirem off-site. The annual report summarizing 2008 radionuclide emissions will be issued before June 30, 2009. The 2007 report, designated LA-14365, is available to NMED upon request. In 2008, emissions from 26 stacks were continuously monitored. Also, LANL evaluated emissions from over 50 non-monitored sources and operated 30 ambient air monitoring stations to meet Subpart H requirements.	☒ **Continuous** ☐ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
9.2 The permittee shall comply with the requirements of 40 CFR Part 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	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

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	understanding in agreement with LANL's findings.			
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 Part 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 P-100M1

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	Operating permit P100M2 conditions 2.9.4.7 and 2.9.4.8. 20.2.72.210.B.4 NMAC	TA-3-22 CT-1	An emission spreadsheet, containing the calculations found in permit conditions 2.9.4.7 and 2.9.4.8, is used to calculate the NOx and CO pound per hour (pph) and ton per year (tpy) emission rates. This data is compared with the permit emission limits listed in permit condition 2.9.2. On October 22 and October 23, 2008, the static emission factors and calculations in these conditions resulted in a deviation. LANL has been working with the NMED-AQB permitting group to modify the permit to remove these conditions and replace them with conditions that represent actual emissions. It was agreed that the current emission factors and calculations in these conditions do not	The permit modification request submitted to NMED consists of replacing the calculation in these permit conditions with an annual emission test.

			provide a reasonable estimate of emissions from the combustion turbine. Using an emission factor derived from data in the initial compliance test, conducted on October 5, 2007, emissions for the two days were determined to be much lower than the permit limits. For October 22nd, using the compliance test emission factor resulted in 11.9 pph of NOx and 2.5 pph of CO, as compared to the calculation in this permit condition which resulted in 24.3 pph of NOx and 173 pph of CO. For October 23rd, the compliance test emission factor resulted in 12.5 pph of NOx and 2.6 pph of CO, as compared to the calculation in these permit conditions which resulted in 25.4 pph NOx and 180 pph CO. By using the compliance test data, which contains actual emission results, no excess emissions occurred.	
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	10/22/2008	12:00 AM	10/23/2008	11:59 PM	NOx & CO	Emission Calculation (values in "Amount of Emissions" column use compliance test data to estimate.)	Oct. 22 11.9 pph NOx 2.5 pph CO	☐ **Yes** ☒ **No**

							Oct. 23 12.5 pph NOx 2.6 pph CO	
2								☐ **Yes** ☐ **No**
3								☐ **Yes** ☐ **No**
4								☐ **Yes** ☐ **No**
5								☐ **Yes** ☐ **No**