Environment Safety & Health
PO Box 1663, MS K491
Los Alamos, New Mexico 87545
(505) 667-4218/Fax (505) 665-3811

JAN 28 2014

Date:
Symbol: ADESH-14-003
LAUR: 14-20290

Manager, Compliance and Enforcement Section
New Mexico Environment Department
Air Quality Bureau
525 Camino de los Marquez, Suite 1
Santa Fe, NM 87505-1816

Dear Compliance & Enforcement Manager:

Subject: Annual Compliance Certification Report for 2013 Title V Operating Permit P100 IDEA ID No. 856 – Los Alamos National Laboratory (LANL)

Enclosed is the Los Alamos National Laboratory's Title V Operating Permit Annual Compliance Certification Report for the period January 1 – December 2013.

This report is required by permit condition A109.C of Operating Permit P100-R1-M3, and is being submitted by January 30, 2014, 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 the U.S. EPA Region 6.

Part 2 of the report is the "Deviation Summary." There were no permit deviations during 2013.

If you have any questions or comments regarding this submittal or would like to discuss the submittal in greater detail, please contact Steven L. Story at (505) 665-2169.

Sincerely,

Michael T. Brandt, DrPH, CIH
Associate Director
Environment, Safety, and Health

Enclosure: 1. Los Alamos National Laboratory's Title V Operating Permit Annual Compliance Certification Report, January 1 — December 31, 2013

Cy: Chief, Air Enforcement Section, USEPA/Region 6, Dallas, TX
Hai Shen, NA-OO-LA, (E-File)
Elizabeth D. Sellers, DIR, (E-File)
Carl A. Beard, PADOPS, (E-File)
Michael T. Brandt, ADESH, (E-File)
Alison M. Dorries, ENV-DO, (E-File)
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ENV-CP Title V Annual Compliance Certification File, J978
ENV-CP Correspondence File, K490

ENCLOSURE 1

Los Alamos National Laboratory's Title V Operating Permit Annual Compliance Certification Report,
January 1 – December 31, 2013

ADESH-14-003

LAUR-14-20290

Date: JAN 28 2014

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): Michael T. Brandt	Phone: 505-667-4218	Fax: 505-665-3811
RO Title: Associate Director - Environment, Safety, and Health	RO e-mail: mtbrandt@lanl.gov	
Permit No.: P100-R1-M3	Date Permit Issued: April 26, 2013	
Report Due Date (as required by the permit): 01/30/2014	Permit AI number: 856	
Time period covered by this Report: From: January 1, 2013	To: December 31, 2013	

III. Certification of Truth, Accuracy, and Completeness

I am the Responsible Official indicated above. I, (Michael T. Brandt) 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 _____ Date: 1/29/14

Part 1 - Permit Requirements Certification Table

Annual Compliance Certification Data for Title V Permit No. P100-R1M3				
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?
FACILITY SPECIFIC REQUIREMENTS **A 101 Permit Duration (expiration)** **A.** This permit P100R1M2 supersedes permit P100R1, and will expire on August 7, 2014. Application for renewal of this permit is due twelve (12) months prior to the date of expiration. (20.2.70.300.B.2 and 302.B NMAC)	The permit renewal application was submitted to NMED AQB on July 10, 2013 and was deemed complete by NMED on August 29, 2013. The current permit is P100-R1M3.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
B. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate beyond the expiration date, provided that a timely renewal application is submitted no later than twelve (12) months prior to the expiration date. (20.2.70.400.D NMAC)	The permit renewal application was submitted to NMED AQB on July 10, 2013 and was deemed complete by NMED on August 29, 2013.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
A102 Facility: Description **B.** The Laboratory is located at UTM Zone 13, UTMH 380.790 km, UTMV 3970.800 km, in and adjacent to Los Alamos, New Mexico in Los Alamos County. These coordinates are in north central New Mexico, approximately 60 miles north of Albuquerque and 25 miles northwest of Santa Fe. The facility borders the community of Los Alamos to the north and the community of White Rock toward the southeast. The surrounding land is largely undeveloped, with large tracts of land being held by Santa Fe National Forest, Bureau of Land Management, Bandelier National Monument, and San Ildefonso Pueblo. This facility is a stationary source and not allowed to relocate. (20.2.70.302.F NMAC)	The facility description and location provided in this permit condition are correct.	☒ **Continuous** ☐ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
A103 Facility: Applicable Regulations and Non-Applicable Regulations **A.** The permittee shall comply with all applicable sections of the requirements listed in Table 103.A.	See each source specific section. Table 103.A was revised in Permit P100-R1M3 to reflect that 40 CFR 63, Subpart ZZZZ, RICE MACT is applicable to TA-33-G-1, and not CMRR-GEN-1 through CMRR-GEN-3. The table below needs to be updated to be consistent with Permit P100-R1M3.	☐ **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?

Table 103.A: Applicable Requirements

Applicable Requirements	Federally Enforceable	Unit No.
NSR Permit Nos: 632, 634-M2, 1081-M1, 1081-M1-R1, 1081-M1-R3, 1081-M1-R5, 1081-M1-R6, 2195B-M2, 2195F-R3, GCP-3-2195G, 2195H, 2195N, 2195N-R1, and 2195P	X	As referenced in this permit.
20.2.1.116 General Provisions – Significant Figures	X	Entire Facility
20.2.7 NMAC Excess Emissions	X	Entire Facility
20.2.11 NMAC Asphalt Process Equipment	X	TA-60-BDM
20.2.33 NMAC Gas Burning Equipment – Nitrogen Dioxide	X	TA-3-22-1, TA-3-22-2, TA3-22-3
20.2.34 NMAC Oil Burning Equipment – Nitrogen Dioxide	X	TA-3-22-1, TA-3-22-2, TA3-22-3
20.2.60 NMAC Open Burning	X	Entire Facility
20.2.61 NMAC Smoke and Visible Emissions	X	All stationary combustion sources
20.2.65 NMAC Smoke Management	X	Entire Facility
20.2.70 NMAC Operating Permits	X	Entire Facility
20.2.71 NMAC Operating Permit Emission Fees	X	Entire Facility
20.2.72 NMAC Construction Permits	X	As referenced in NSR Permit Nos. 632, 634-M2, 1081-M1, 1081-M1-R1, 1081-M1-R3, 1081-M1-R5, 1081-M1-R6, 2195B-M2, 2195F-R3, GCP-3-2195G, 2195H, 2195N, 2195N-R1, and 2195P
20.2.73 NMAC Notice of Intent and Emissions Inventory Requirements	X	Entire Facility
20.2.77 NMAC New Source Performance Standards	X	Sources subject to 40 CFR 60
20.2.78 NMAC NESHAPs	X	Sources subject to 40 CFR 61
20.2.82 NMAC MACT Standards for Source Categories of HAPS	X	Sources subject to 40 CFR 63
40 CFR 50 National Ambient Air Quality Standards	X	Entire Facility
40 CFR 60, Subpart A, General Provisions	X	All sources subject to any NSPS Subpart

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?
40 CFR 60, Subpart Dc, NSPS for Small Industrial-Commercial-Institutional Steam Generating Units	X	TA-55-6-BHW-1, TA-55-5-BHW-2, CMRR-BHW-1 through CMRR-BHW-4			
40 CFR 60, Subpart I, NSPS for Hot Mix Asphalt Facilities	X	TA-60-BDM			
40 CFR 60, Subpart GG, NSPS for Stationary Gas Turbines	X	TA-3-22 CT-1			
40 CFR 60, Subpart IIII, NSPS for Stationary Compression Ignition Reciprocating Internal Combustion Engines	X	CMRR-GEN-1 through CMRR-GEN-3			
40 CFR 61, Subpart A, General Provisions	X	All sources subject to any NESHAPs Subpart			
40 CFR 61, Subpart C, NESHAP for Beryllium	X	TA-3-141, TA-35-213, TA-55-PF4, TA-3-66			
40 CFR 61, Subpart H, NESHAP for Radionuclides other than Radon from DOE Facilities	X	Entire Facility			
40 CFR 61, Subpart M, NESHAP for Asbestos	X	Entire Facility			
40 CFR 61, Subpart Q, NESHAP for Radon Emissions from DOE Facilities	X	Entire Facility			
40 CFR 63, Subpart A, General Provisions	X	All sources subject to any MACT Subpart			
40 CFR 63, Subpart T, MACT for Halogenated Solvent Cleaning	X	TA-55-DG-1			
40 CFR 63, Subpart ZZZZ, RICE MACT	X	CMRR-GEN-1through CMRR-GEN -3			
40 CFR 82, Subpart B, Servicing of Motor Vehicle Air Conditioners (MVAC)	X	Entire Facility			
40 CFR 82, Subpart F, Recycling and Emission Reduction	X	Entire Facility			
40 CFR 82, Subpart H, Halon Emissions Reduction	X	Entire Facility			
40 CFR 82, Subpart I, Ban on Refrigeration and Air Conditioning Appliances Containing HCFCS.	X	Entire Facility			
40 CFR 89, Control of Emissions from New and In-Use Nonroad Compression Ignition Engines	X	TA-33-G-2 through TA-33-G-4			
A104 Facility: Regulated Sources **A.** Source category specific Regulated Equipment Tables are included in sections A600 through A1400 under the Equipment Specific Requirements part of this permit. The Regulated	See Each Source Category.		☐ **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 Tables list all of the process equipment authorized for this facility. Emission units that were identified as insignificant or trivial activities (as defined in 20.2.70.7 NMAC) and equipment not regulated pursuant to the Act are not included.				
A105 Facility: Control Equipment **A.** Source category specific Control Equipment Tables are included in sections A601 through A1401 under the Equipment Specific Requirements part of this permit. The Control Equipment Tables list all the pollution control equipment required for this facility. Each emission point is identified by the same number that was assigned to it in the permit application.	See Each Source Category.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
A106 Facility: Allowable Emissions **A.** Source category specific Allowable Emissions are established in sections A602 through A1402 under the Equipment Specific Requirements part of this permit. Table 106.A below shows a summary of these emission limits, which are subject to permit fees. (40 CFR 50; Paragraphs 1, 7, and 8 of 20.2.70.302.A NMAC and NSR Permit Nos. 632, 634-M2, 1081-M1, 1081-M1-R1, 1081-M1-R3, 1081-M1-R5, 1081-M1-R6, 2195B-M2, 2195F-R3, GCP-3-2195G, 2195H, 2195N, 2195N-R1, and 2195P).	Source and facility wide emissions are calculated on a semi-annual basis and compared to the limits listed in the referenced table. No emission limits have been exceeded during this certification period. Actual emissions are included in the emission inventory reports submitted to the NMED Air Quality Bureau.	☐ **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?

Table 106.A: Facility: Allowable Emissions per Source Category

Source Category (Section No.)	[1]NO_x tpy	CO tpy	VOC tpy	SO_2 tpy	TSP tpy	PM_{10} tpy	$PM_{2.5}$ tpy
Asphalt Production (A600)	95.0	95.0	95.0	50.0	95.0	-[2]	-
Beryllium Activities (A700)	-	-	-	-	-	-	-
External Combustion (A800)	80.0	80.0	50.0	50.0	50.0	50.0	1.6[3]
Chemical Usage (A900)	-	-	*[4]	-	-	-	-
Degreasers (A1000)	-	-	*	-	-	-	-
Internal Combustion (A1100)	20.85	16.8	0.5	2.66	-	-	-
Data Disintegrator (A1200)	-	-	-	-	9.9	9.9	-
Power Plant (A1300)	90.8	93.7	4.3	9.1	9.4	9.2	9.0
Open Burning (A1400)	-	-	-	-	-	-	-

1 Nitrogen dioxide emissions include all oxides of nitrogen expressed as NO_2
2 "-" indicates the application represented that emissions of this pollutant are not expected *or* that allowable emission limits have not been previously established for this pollutant and source category.
3 This PM2.5 total represents the CMRR boilers only; PM2.5 emission limits have not been established for any other external combustion sources.
4 "*" indicates the application represented that emissions of this pollutant are expected and are included in the facility-wide allowable emissions limit established in Condition A106.B. Annual VOC emission limits for these individual source categories have not been established.

B. Facility-wide emissions for criteria pollutants, VOC, and HAPs from all emission units, combined, shall not exceed the limits in Table 106.B.	Source and facility wide emissions are calculated on a semi-annual basis and compared to the limits listed in the referenced table. No emission limits have been exceeded during this certification period. Actual emissions are included in the emission inventory reports submitted to the NMED Air Quality Bureau.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Table 106.B: Facility-Wide Allowable Emissions

Facility-Wide	[1]NO_x tpy	CO tpy	VOC tpy	SO_2 tpy	TSP tpy	PM_{10} tpy	$PM_{2.5}$ tpy	Any Individual HAP	Total HAPs
Sum of emissions from all sources	245.0	225.0	200.0	150.0	120.0	120.0	120.0	8.0	24.0

1 Nitrogen dioxide emissions include all oxides of nitrogen expressed as NO_2

C. The permittee shall maintain records of the Facility-Wide annual emissions totals for each pollutant listed in Table 106.B. The record shall	Source and facility wide emissions are calculated on a semi-annual basis and compared to the limits listed in the referenced table. No emission limits have been exceeded during this	☐ **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?
include estimated actual emissions from all sources on a semiannual and calendar year basis.	certification period. Actual emissions are included in the emission inventory reports submitted to the NMED Air Quality Bureau.	☒ **Intermittent**	☐ **No**	☒ **No**
A107 Facility: Allowable Startup, Shutdown, & Maintenance and Malfunction Emissions **A.** Allowable SSM emission limits are not imposed at this time. The permittee shall maintain records in accordance with Condition B109.E.	Emissions from SSM are not expected to be significanlty different from normal operating emissions. No malfunctions occurred during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
A108 Facility: Hours of Operation **A.** The operating hours for this facility are established under each source category in sections A604 through A1404 under the Equipment Specific Requirements part of this permit. As applicable, monitoring, recordkeeping, and reporting provisions are specified to demonstrate compliance with allowable hours of operation that are also established under each source category in sections A604 through A1404.	Compliance with hours of operation for each source is covered under each source category. A tracking mechanism is in place for each source with an operating hour limit. No operating hour limits have been exceeded during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
A109 Facility: Reporting Schedules **A.** A Semi-Annual Report of monitoring activities is due within 45 days following the end of every 6-month reporting period. The six month reporting periods start on January 1st and July 1st of each year.	The semi-annual monitoring reports submitted during this certification period were submitted within the allowed 45 days. These reports were for the periods July - December 2012 (submitted February 12, 2013) and January - June 2013 (submitted August 9, 2013). The July - December 2013 report will be submitted within the allowed 45 days, which is after the submission deadline of this compliance certification report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
B. A Semi-Annual Report of actual emissions from all permitted sources unless otherwise specified in this permit is due within 90 days following the end of every 6-month reporting period as defined at Condition A109.A. Emission estimates of criteria pollutants NOx, CO, SO2, VOC, TSP, PM10, and PM2.5 shall not include fugitive emissions. Emission estimates of HAPs shall include fugitive emissions. Emission estimates shall not include Insignificant or Trivial Activities, except that facility-wide emissions from all natural gas combustion sources shall be estimated. The reports shall include a comparison of actual emissions that occurred during the reporting period with the facility-wide allowable emission limits at Table 106.B.	The semi-annual emissions reports submitted during this certification period were submitted within the allowed 90 days. These reports were for the periods of July - December 2012 (submitted March 26, 2013) and January - June 2013 (submitted September 17, 2013) . The July - December 2013 report will be submitted within the allowed 90 days, which is after the submission deadline of this compliance certification report. The reports included a comparison of actual emissions with the allowable emission limits.	☐ **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?
C. The Annual Compliance Certification Report is due within 30 days of the end of every 12-month reporting period. The 12-month reporting period starts on January 1st of each year.	The 2012 Annual Compliance Certification Report was submitted to NMED-AQB and EPA within 30 days of the end of the 12-month reporting period. The report was submitted to NMED and EPA on January 25, 2013.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
A110 Facility: Fuel Sulfur Requirements **A.** Sulfur requirements are defined by source category, as applicable, in sections A605 through A1405 under the Equipment Specific Requirements part of this permit.	See each source category.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
A111 Facility: 20.2.61 NMAC Opacity **A.** Opacity requirements are defined by source category, as applicable, in sections A606 through A1406 under the Equipment Specific Requirements part of this permit.	See each source category.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
A115 Radionuclide NESHAP **A.** The permittee shall comply with the requirements of 40 CFR 61, Subpart H – NESHAP for 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 all LANL sources for this certification period are well below the 10 millirem off-site limit. The annual report summarizing 2013 radionuclide emissions will be available in June 2014. A copy of this report will be made available to the Department upon request.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
B. The permittee shall comply with the requirements of 40 CFR 61, Subpart Q – NESHAP for Radon Emissions from DOE Facilities.	LANL performed evaluations on the sources applicable under this subpart and has determined that radon emission levels are below applicable thresholds. This information was provided to EPA, who in turn provided LANL with a memorandum of understanding in agreement with LANL's findings.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
A116 Asbestos NESHAP **A.** The permittee shall comply with the requirements of 40 CFR 61, Subpart M- NESHAP for Asbestos.	LANL is in compliance with all requirements of 40 CFR 61, Subpart M for this compliance certifcation period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
A117 Stratospheric Ozone **A.** The permittee shall comply with the standards for servicing of motor vehicle air conditioners pursuant to 40 CFR 82, Subpart B.	Motor vehicle air conditioners (MVAC) are serviced by certified LANL refrigeration technicians pursuant to 40 CFR part 82, Subpart B. These technicians comply with EPA standards for servicing motor vehicle air conditioners.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
B. The permittee shall comply with the standards for servicing and maintaining and disposing equipment containing refrigerants pursuant to 40 CFR,	A stratospheric ozone protection program is in place at LANL. LANL, through our internal maintenance group, as well as other outside contractors, use only certified technicians and certified recycling and recovery equipment. LANL	☐ **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?
Subpart F.	refrigeration technicians, as well as other outside contractors, are trained and follow LANL procedures to ensure that required service practices in 40 CFR 82, Subpart F, are followed.			
C. The permittee shall comply with the standards for servicing and maintaining equipment that contains halons pursuant to 40 CFR 82, Subpart H.	Certified LANL refrigeration technicians maintain the halon systems. These technicians comply with the standards for servicing and maintaining equipment containing halons pursuant to 40 CFR Part 82, Subpart H.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
D. The permittee shall comply with the standards on the ban on refrigeration and air-conditioning appliances containing HCFCs pursuant to 40 CFR 82, Subpart I.	LANL has a process in place to ensure that the standards on the ban of refrigeration and air-conditioning appliances containing HCFCs pursuant to 40 CFR 82, Subpart I, are met.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
EQUIPMENT SPECIFIC REQUIREMENTS **A600 Regulated Sources – Asphalt Production** **A.** Table 600.A lists all of the process equipment authorized for this source category. Emission units that were identified as insignificant or trivial activities (as defined in 20.2.70.7 NMAC) and equipment not regulated pursuant to the Act are not included.	No new equipment has been added, or changes made, to the listed equipment in this source category during this certification period (excluding those identified as insignificant, trivial and not regulated pursuant to the Act).	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Table 600.A: Regulated Sources List

Unit No.	Source Description/Location	Make Model	Serial No.	Capacity	Manufacture Date	Other
TA-60-BDM	Hot Mix Asphalt Plant, TA-60	BDM Engineering TM2000	unknown	60 tph	unknown	

A601 Control Equipment – Asphalt Production **A.** Table 601.A lists all of the pollution control equipment required for the applicable regulated equipment in this source category. Each emission point is identified by the same number that was assigned to it in the permit application.	No new equipment has been added, or changes made, to the listed equipment in this source category during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Table 601.A: Control Equipment List

Control	Control Description	Pollutant being controlled	Control for

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 Unit No.			Unit No.[1]
TA-60-BDM	Cyclone Baghouse 99.97% efficiency	TSP	TA-60-BDM

1 Control for unit number refers to a unit number from the Regulated Sources List

A602 Emission Limits – Asphalt Production **A.** Table 602.A lists the emission units, and their allowable emission limits. (40 CFR 50; Paragraphs 1, 7, and 8 of 20.2.70.302.A NMAC; 20.2.11 NMAC; 40 CFR 60, Subpart I; NSR Permit GCP-3-2195G)	LANL Asphalt Plant operations meet requirements of 20.2.11 NMAC; 40 CFR Part 60, Subpart I; and NSR Permit No. GCP-3-2195G, Rev 1. Emissions are calculated and reported to NMED on a 6-month basis in accordance with permit condition A109.B. Emissions are compared to allowable emission limits in each semi-annual report and were not exceeded during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Table 602.A: Allowable Emissions

Unit No.	NOx tpy	SO2 tpy	PM	CO tpy	VOC tpy
TA-60-BDM	95.0	50.0	0.04 gr/dscf 33.8 lb/hr 95.0 tpy	95.0 tpy	95.0 tpy

A603 Applicable Requirements – Asphalt Production **A.** The permittee shall comply with all applicable sections of the requirements listed in Table 603.A.	LANL Asphalt Plant operations complies with the applicable requirements listed in Table 603.A.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Table 603.A: Applicable Requirements

Applicable Requirements	Federally Enforceable	Unit No.
NSR Permit GCP-3-2195G	X	TA-60-BDM
20.2.11 NMAC Asphalt Process Equipment	X	TA-60-BDM
40 CFR 60, Subpart A	X	TA-60-BDM
40 CFR 60, Subpart I	X	TA-60-BDM

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?
A604 Operational Limitations – Asphalt Production **A.** The equipment in this source category is authorized to operate during those daylight hours occurring between one-half hour after sunrise and through one-half hour before sunset each day of the year. Annual hours of operation are limited to 4380 hrs/y. This limitation on operating hours does not apply to the use of the hot oil heater or the loading and/or hauling of asphalt products or materials. Monitoring, recordkeeping, and reporting for operational hours shall be conducted according to NSR Permit GCP-3-2195G.	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 and operating hours is kept as required by the permit. The Asphalt Plant did not exceed 4,380 hours of operation during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
A605 Fuel Requirements – Asphalt Production **A.** Asphalt Plant Combustion Sources **Requirement:** Combustion sources located at the asphalt plant shall only use propane as fuel.	Propane was the only fuel used at the Asphalt Plant during this certification period. A project is in place to add the capability for the plant to use natural gas as a fuel as well as propane, however the project is not yet complete. NMED-AQB was notified of this upcoming change in a letter dated September 17, 2013. This planned change is included in the Operating Permit renewal application submitted to NMED-AQB on July 10, 2013.	☒ **Continuous** ☐ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Monitoring: N/A **Recordkeeping:** The permittee shall maintain records in accordance with Section B109.	Records of propane deliveries are maintained on site.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall submit reports described in Section A109 and in accordance with Section B110.	Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
A607 Asphalt Production – Other **A.** Asphalt Plant Baghouse – Differential Pressure **Requirement:** The baghouse shall be equipped with a device to continually measure the pressure drop across the baghouse.	The baghouse is equipped with a data logger to continually monitor the differential presure across the filters and operating frequency of the rotary dryer. The data is used to confirm proper operation of the unit.	☒ **Continuous** ☐ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Monitoring: The permittee shall monitor the differential pressure (inches of water) across the filters by the use of a differential pressure gauge. Pressure gauge readings and the time period the rotary dryer drum operates shall be recorded by a datalogger each	A data logger is in place and monitors the differential pressure across the filters when the rotary dryer drum is operating. The data is used to confirm proper operation of the unit.	☐ **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?
time the rotary dryer drum is operating. The pressure data shall confirm whether the filter(s) are operating within the unit's specifications.				
Recordkeeping: The permittee shall maintain records of all baghouse differential pressure readings in accordance with Section B109.	Recordkeeping conditions are met using a data logger that records the differential presure across the filters and rotary dryer durm operation. These records are used to confirm proper operation and are available on site.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall submit reports described in Section A109 and in accordance with Section B110.	Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110. See Section A109 in this report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
B. Asphalt Plant Baghouse - Stack Height (Unit TA-60-BDM) Re**quirement**: The rotary dryer/baghouse exhaust stack shall be no less than 10 meters in height.	The height of the asphalt plant stack is no less than 10 meters.	☒ **Continuous** ☐ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Monitoring: N/A **Recordkeeping:** The permittee shall maintain records in accordance with Section B109.	Measurements of stack height have been made to verify compliance.	☒ **Continuous** ☐ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall submit reports described in Section A109 and in accordance with Section B110.	Emission and monitoring reports are submitted on a 6-month basis in accordance with permit condition A109 and B110. See Section A109 in this report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
C. Asphalt Plant Baghouse – Opacity **Requirement:** Visible emissions from the rotary dryer/baghouse exhaust stack shall not exhibit an opacity of 20% or greater averaged over a (6) minute period.	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 limit. No visible emissions exhibited an opacity of 20% or greater during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Monitoring: The permittee shall perform six (6) minute opacity readings on the rotary dryer/baghouse stack at least once per month. The observations shall be conducted according to 40 CFR 60, Appendix A, Method 9.	LANL has certified visible emission readers on-site who perform monthly six minute opacity readings using 40 CFR Part 60, Appendix A, Reference Method 9 to determine compliance with the opacity limit.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Recordkeeping: The permittee shall maintain records of all opacity observations and in accordance with Section B109.	Opacity records are maintained on-site and are provided to NMED in the Semi-Annual Monitoring Reports.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall submit reports described in Section A109 and in accordance with	Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110. For more information, see the methods used to determine	☐ **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?
Section B110.	compliance for condition A109 in this report.	☒ **Intermittent**	☐ **No**	☒ **No**
D. Asphalt Plant Baghouse – Fines Cleanout **Requirement:** The permittee shall sequester or remove particulates collected by the control equipment to prevent wind-blown particulate emissions. Recycled baghouse fines shall be recycled into the drum mixer via a closed-loop system.	Baghouse fines are removed from the baghouse and cyclone by use of a screw conveyor. The removed fines are recycled into the asphalt production process via a closed loop system.	☒ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Monitoring: N/A **Recordkeeping:** The permittee shall maintain records in accordance with Section B109.	Opacity records are provided to NMED in the Semi-Annual Monitoring Reports.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall submit reports described in Section A109 and in accordance with Section B110.	Opacity records are provided to NMED in the Semi-Annual Monitoring Reports.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
E. Asphalt Plant Production Rate (Unit TA-60-BDM) **Requirement:** Production shall not exceed 13,000 tons per year.	The asphalt plant did not exceed the 13,000 tons per year, weekly rolling 12-month total, during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Monitoring: The permittee shall monitor the total daily production rate.	Daily data on asphalt production is monitored and recorded on a monthly logsheet.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Recordkeeping: The permittee shall calculate a weekly rolling, 12-month total production rate and maintain records in accordance with Section B109.	The weekly rolling 12-month total is calculated and compared against the production limit set in this permit condition.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall submit reports described in Section A109 and in accordance with Section B110.	Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110. See Section A109 in this report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
F. Asphalt Plant Operations – General **Requirement:** The permittee shall: **1)** Install, operate, and maintain equipment in accordance with standard operating procedures, and **2)** Equip and operate the asphalt processing equipment such as screens, conveyor belts, and	1) Operation and maintenance requirements are contained in internal plant procedures that are followed by plant operation staff. 2) Dust collection and control systems are in place on screens, conveyor belts, and transfer points to control particulate matter emissions. 3) The Asphalt Plant is operated in accordance with these	☐ **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?
conveyor transfer points with dust control systems to control particulate matter emissions, and **3)** Operate the Plant in accordance with NSR Permit GCP-3-2195G, Section III, A, B, C, D, E, F, and H. **4)** Ensure that no visible emissions from the facility are observed crossing the perimeter of the restricted area for no more than 5 minutes during any 2 consecutive hours during facility operations.	listed permit conditions. 4) Both EPA reference methods 9 and 22 are used at the plant to determine the extent of visible emissions. The asphalt plant did not emit fugitive dust that exceeded the 5 minutes of visible emissions during any 2 consecutive hours of operation.			
Monitoring: The permittee shall perform all monitoring required under NSR Permit GCP-3-2195G.	All monitoring required under NSR Permit GCP-3-2195G was performed during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Recordkeeping: The permittee shall maintain records of all standard operating procedures, records of all maintenance and/or replacement of dust control systems, and all records required under NSR Permit GCP-3-2195G, Section IV.B, and including records of actual hours of operation, records of all required monitoring, daily and weekly total asphalt production and the weekly rolling 12 month total production, number of haul truck trips daily including materials delivery and product, frequency of haul road sweeping, and copies of the applicant's proposed maintenance requirements and records demonstrating conformance with said requirements. The permittee shall maintain records of all compliance test results for total suspended particulates (TSP), particulate matter (PM10), nitrogen oxides, carbon monoxide, and records of all opacity/visible emissions observations performed.	Recordkeeping conditions are met using the following methods: Copies of standard operating procedures and maintenance records are available on site. The plant operation log contains the start time, stop time and total hours of operation; production amounts summed daily, weekly, and rolling 12 month total; and number of truck trips. Records located at the facility include fuel delivery tickets, frequency of road sweeping, and a procedure that outlines required maintenance. Data logger charts that record the differential presure and rotary dryer drum operation are also kept at the asphalt plant.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall submit reports described in Section A109 and in accordance with Section B110.	Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110. See Section A109 in this report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
G. Asphalt Plant Fugitive Dust **Requirement:** Fugitive dust emissions from asphalt processing equipment, including the system used to recycle fabric filter fines, shall exhibit no more than five (5) minutes of visible emissions during any two consecutive hours. This condition does not apply to fugitive dust emissions from other support operations	Both EPA reference methods 9 and 22 are used at the plant to determine the extent of visible emissions. During this certification period, the asphalt plant did not emit fugitive dust that exceeded 5 minutes of visible emissions during any 2 consecutive hours.	☐ **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?
such as storage piles, front end loaders, or materials handling around the asphalt process equipment.				
Monitoring: The permittee shall perform a Method 22 test at least once per month on all screens, conveyor drop points, and hoppers. The duration of the test shall be a minimum of ten (10) minutes. If visible emissions are observed for more than two (2) minutes, the Method 22 test shall continue for two (2) hours or until scheduled operation of the plant ends.	Both EPA reference methods 9 and 22 are used at the plant to determine the extent of visible emissions. Method 22 readings are taken at least once per month when the plant is operating. These readings are provided to NMED in the Semi-Annual Monitoring Reports. No visible emissions were observed for more than two minutes during any Method 22 test during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Recordkeeping: The permittee shall maintain records of all equipment standard operating procedures, records of all maintenance and/or replacement of dust control systems, results of all visible emissions observations, and all records required under NSR Permit GCP-3-2195G.	The plant standard operating procedure, maintenance and repair records, and visible emission observations are maintained on site. All other records required under the NSR permit are also available on site.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall submit reports described in Section A109 and in accordance with Section B110.	Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110. See Section A109 in this report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
A700 Regulated Sources – Beryllium Activities **A.** Table 700.A lists all of the process equipment authorized for this source category. Emission units that were identified as insignificant or trivial activities (as defined in 20.2.70.7 NMAC) and equipment not regulated pursuant to the Act are not included.	No new equipment has been added to this source category during this certification period (excluding those identified as insignificant, trivial or not regulated pursuant to the Act).	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Table 700.A: Regulated Sources List

Unit No.	Location/Building	Process Description
TA-3-66	TA-3-66	Sigma Facility Polishing/Electroplating/Chemical Milling
		Sigma Facility Machining/Arc Melting/Casting
TA-3-141	TA-3-141	Beryllium Technology Facility
TA-35-213	TA-35-213	Target Fabrication Facility
TA-55-PF4	TA-55-PF4	Plutonium Facility

A701 Control Equipment – Beryllium Activities **A.** Table 701.A lists all of the pollution control	No new equipment has been added to this source category during this certification period.	☐ **Continuous**	☒ **Yes**	☐ **Yes**

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
equipment required for the applicable regulated equipment in this source category. Each emission point is identified by the same number that was assigned to it in the permit application.		☒ **Intermittent**	☐ **No**	☒ **No**

Table 701.A: Control Equipment List

Control Equipment Unit No.[1]	Location/Building	Process Description	Pollutant being controlled	Type of Control
TA-3-66	TA-3-66	Sigma Facility Polishing/Electroplating/ Chemical Milling	Beryllium Particulate Matter	Aqueous Solution or Lubricant Bath
		Sigma Facility Machining/Arc Melting/Casting	Beryllium Particulate Matter	HEPA Filter 99.95% Efficiency
TA-3-141	TA-3-141	Beryllium Technology Facility	Beryllium Particulate Matter	Lubricating Bath/Cartridge Filtration System/HEPA Filter 99.95% Efficiency
TA-35-213	TA-35-213	Target Fabrication Facility	Beryllium Particulate Matter	Pre-Filter 48% Efficiency, HEPA Filter 99.95% Efficiency
TA-55-PF4	TA-55-PF4	Plutonium Facility	Beryllium and Aluminum Particulate Matter	4-Stage HEPA Filter 99.95% Efficiency

[1] Control for unit number refers to a unit number from the Regulated Sources List

A702 Emission Limits – Beryllium Activities **A.** Table 702.A lists the emission units, and their allowable emission limits. (40 CFR 61, Subpart C; NSR Permits 632; 634-M1 and 634-M2; 1081-M1, 1081M1-R1, 1081-M1-R3, 1081-M1-R5, and 1081-M1-R6)	Emissions are calculated and reported to NMED on a 6-month basis in accordance with permit condition A109.B. Emissions are compared to allowable emission limits in each semi-annual report. Allowable emission limits were not exceeded during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Table 702.A: Allowable Emissions

Source	Beryllium Particulate Matter	Aluminum Particulate Matter
Sigma Facility TA-3-66	10 gm[1]/24 hr	N/A
Beryllium Technology Facility TA-3-141	0.35 gm/24 hr 3.5 gm/yr	N/A

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?

Target Fabrication Facility TA-35-213	1.8×10^{-04} gm/hr 0.36 gm/yr	N/A
Plutonium Facility TA-55-PF-4 Machining Operation	0.12 gm/24 hr 2.99 gm/yr	0.12 gm/24 hr 2.99 gm/y
Plutonium Facility TA-55-PF-4 Foundry Operation	3.49×10^{-05} gm/24 hr 8.73×10^{-04} gm/yr	3.49×10^{-05} gm/24 hr 8.73×10^{-04} gm/y

1 gm = gram

A703 Applicable Requirements – Beryllium Activities **A.** The permittee shall comply with all applicable sections of the requirements listed in Table 703.A.	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**

Table 703.A: Applicable Requirements

Applicable Requirements	Federally Enforceable	Unit No.
NSR Permits 632; 634-M1 and 634-M2; 1081-M1, 1081M1-R1, 1081-M1-R3, 1081-M1-R5, and 1081-M1-R6	X	All Beryllium Sources Listed in Table 700.A per applicable permit
40 CFR 61, Subpart C	X	All Beryllium Sources Listed in Table 700.A

A704 Operational Limitations – Beryllium Activities

A.The equipment/operations in this source category are authorized to operate any time during the year. No monitoring, recordkeeping, or reporting requirements are required to demonstrate compliance with its hours of operation.

A707 Other – Beryllium Activities	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 bath. TA-3-141 - The continuous emission monitor is maintained in accordance with the Laboratory's quality program. No process limits were exceeded during this certification period. 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	☐ **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?
	lubricating baths or equivalent. TA-35-213 - All processes are exhausted through a HEPA filtration system prior to entering the atmosphere. TA-55-PF4 - All beryllium activities are ducted through the facility's pollution control equipment and out the north or south stack of PF-4. Weld cutting, weld dressing, and metallography operations are controlled using 4 HEPA filters with a control efficiency of 99.95% each. The non-accessible filter is replaced when the pressure differential across the filter indicates breakthrough or excessive loading. No process limits were exceeded during this certification period. The electric furnace did not operate during this certification period.			

A. Operational Requirements – Beryllium Activities

Source	Operating Requirements	Process Limits	Control Equipment Requirements
Sigma Facility TA-3-66	Beryllium operations will consist of registered polishing, electroplating /chemical milling, and relocated machining, and arc melting/casting sources.	None	Polishing and electroplating /chemical milling operations shall be conducted in aqueous solution or lubricant bath. Emissions from machining and arc melting/casting operations shall be exhausted through a HEPA filtration system prior to entering the atmosphere.
Beryllium Technology Facility TA-3-141	The continuous emission monitor will be maintained in accordance with the Laboratory's quality program.	Beryllium processed by the facility will not exceed 10,000 pounds per calendar year. Beryllium processed by the facility will not exceed 1000 pounds per day.	All processes shall be exhausted through a HEPA filtration system prior to entering the atmosphere. Powder operations, other than closed glovebox operations, and machining operations, other than the processes used in metallographic preparation shall be exhausted through a cartridge filtration system then through the HEPA filtration system. Metallographic preparation activities shall be conducted in lubricating baths or equivalent.
Target Fabrication Facility TA-35-213	Beryllium operations will consist of only beryllium machining and associated cleanup activities.	None	All processes shall be exhausted through a HEPA filtration system prior to entering the atmosphere.
Plutonium Facility TA-55-PF4	Regulated beryllium activities will be ducted	44 pounds of beryllium (20 kg) in any 24 hour	Weld cutting, weld dressing, metallography, and electric furnace operations shall be controlled with

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?
through the pollution control equipment and out the north or south stack of PF-4. (NSR Permit 1081-M1-R3, Specific Condition 1.b., partial, revised) The electric furnace shall be enclosed in a glove box, have a maximum operating temperature of 1600 degrees centigrade, and an inside volume space less than 1.1 cubic feet. (NSR Permit 1081-M1-R6, Specific Condition 1.d., partial, revised)	period; 1100 pounds/year (500 kg/year) using a rolling total. (NSR Permit 1081-M1-R3, Specific Condition 1.c.)	4 HEPA filters with a control efficiency of 99.95% each. (NSR Permit 1081-M1-R1, Condition 3, partial, revised) 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. (NSR Permit 1081-M1-R1, Condition 3, partial, revised)			
B. Emissions Monitoring Requirements – Beryllium Activities	TA-3-66 – Log books are maintained for monitoring the number of metallographic specimens used in the polishing operation and the weight or volume 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 differential pressure when exhaust fans are in operation. TA-35-213 – A copy of stack emission test results as well as other data needed to determine total emissions are retained at the source and are available for inspection. TA-55-PF4 – The HEPA filtration system contains a differential pressure gauge that measures differential pressure across the HEPA filters while the exhaust fans are in operation. The control efficiency is verified by daily HEPA filter pressure drop tests. Annual HEPA filter challenge tests	☐ **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?
	have been performed during this certification period and results are submitted in the Semi-annual Monitoring Report. The electric furance did not operate during this certification period.			

Emissions Monitoring Requirements – Beryllium Activities

Source	Monitoring Requirements
Sigma Facility TA-3-66	A log shall be maintained during operations, which shows the number of metallographic specimens used in the polishing operation and the weight or volume of Be samples processed in the electroplating/chemical milling, machining, and arc melting/casting operations.
Beryllium Technology Facility TA-3-141	Facility exhaust stack will be equipped with a continuous emission monitor used to measure beryllium emissions. Cartridge and HEPA filters shall be equipped with differential pressure gauges that measure the differential pressure across the cartridge and HEPA filters while the exhaust fans are in operation.
Target Fabrication Facility TA-35-213	Records of the stack emission test results (see Condition 2 of NSR Permit No. 632) and other data needed to determine total emissions shall be retained at the source and made available for inspection by the Department.
Plutonium Facility TA-55-PF4	The HEPA filtration systems shall be equipped with a differential pressure gauge that measures the differential pressure (inches of water) across the HEPA filters while the exhaust fans are in operation. (NSR Permit 1081-M1-R3, Condition 11) Control efficiency shall be verified by daily HEPA filter pressure drop tests and annual HEPA filter challenge tests of accessible filters. (NSR Permit 1081-M1-R1, Condition 3, partial, revised) The furnace temperature shall be continuously monitored and the flow rate from the glove box containing the furnace shall be measured once during each metal melt operation. (NSR Permit 1081-M1-R6, Condition 11, revised)

C. Recordkeeping Requirements – Beryllium Activities	TA-3-66 – Recordkeeping for this source is specified in condition A707.B. TA-3-141– Inventory records are maintained to demonstrate compliance with beryllium process limits. Records of pressure drop across the cartridge and HEPA filters are performed daily when the exhaust fans are in operation and the facility is occupied. Control equipment maintenance and repair activities are recorded.	☐ **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 – Recordkeeping for this source is specified in condition A707.B. TA-55-PF4 – A copy of the stack emission test results are retained at the source and available for inspection. The annual HEPA filter test reports and daily differential pressure readings are provided in the Semi-Annual Monitoring Report and are available on site for inspection. Filter replacement and control equipment maintenance and repair records are kept and available on site for inspection. Process records are available that contain the number and weight of classified parts processed during a 24-hour period and annual rolling total. The electric furance did not operate during this certification period.			

Recordkeeping Requirements – Beryllium Activities

Source	Recordkeeping Requirements
Sigma Facility TA-3-66	Recordkeeping for this source is specified in Condition A707.B.
Beryllium Technology Facility TA-3-141	te and maintain beryllium inventory records to demonstrate compliance with the 10,000 pounds of beryllium per calendar year and the 1000 pounds of beryllium per day processing limit. pressure drop across the cartridge and HEPA filters once per day that the exhaust fans are in operation and the facility is occupied. control equipment maintenance and repair activities.
Target Fabrication Facility TA-35-213	Recordkeeping for this source is specified in Condition A707.B.
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. (NSR Permit 1081-M1-R3, Condition 9, partial, revised) 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. (NSR Permit 1081-M1-R1, Condition 3, partial, revised) A log of the filter replacement shall be kept and shall be made available to the Department personnel upon request. (NSR Permit 1081-M1-R1, Condition 3, partial, revised)

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 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. (NSR Permit 1081-M1-R3, Condition 9, partial, revised) The permittee shall for each use of the furnace record the following operating parameters: metal type, theoretical melting point of the metal, metal melt duration once melting is commenced, maximum furnace temperature and glove box flow rate. (NSR Permit 1081-M1-R6, Condition 9, partial, revised) A record of the furnace's internal volume shall be maintained at the facility. (NSR Permit 1081-M1-R6, Condition 9, partial, revised)			
D. Reporting Requirements – Beryllium Activities	All Beryllium Sources - Emission and monitoring reports are submitted on a 6-month basis in accordance with permit condition A109. For more information, see the methods used to determine compliance for condition A109 in this report. Quarterly beryllium reports, containing continuous monitoring system data from the Beryllium Technology Facility, are also submitted to NMED. Reports during this certification period were submitted within 60 days following each calendar quarter. The reports were submitted Jan 25, 2013; April 25, 2013; August 1, 2013; and Oct 17, 2013 for this reporting period. There were no new or modified emission sources during the certification period. There were no requests made by the Air Quality Bureau's Enforcement Section during the certification period to determine the reliability of the methodology for demonstrating compliance with the permitted emission rate.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Reporting Requirements – Beryllium Activities

Source	Reporting Requirements

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?
Sigma Facility TA-3-66	The permittee shall report in accordance with Conditions A109.A, A109.C, and Section B110.			
Beryllium Technology Facility TA-3-141	Anticipated date of initial startup of each new or modified source not less than thirty (30) days prior to the date. Actual date of initial startup of each new or modified source within fifteen (15) days after the startup date. Provide the date when each new or modified emission source reaches the maximum production rate at which it will operate within fifteen (15) days after that date. Notify the Department within 60 days after each calendar quarter of the facility's compliance status with the permitted emission rate from the continuous monitoring system. Provide any data generated by activities described in the Quality Assurance Project Plan (QAPP) that will assist the Air Quality Bureau's Enforcement Section in determining the reliability of the methodology used for demonstrating compliance with the permitted emission rate within 45 days of such a request. The permittee shall submit reports described in Section A109 and in accordance with Section B110.			
Target Fabrication Facility TA-35-213	The permittee shall submit reports described in Section A109 and in accordance with Section B110.			
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 permittee shall submit reports described in Section A109 and in accordance with Section B110.			
A800 Regulated Sources – External Combustion **A.** Table 800.A lists all of the process equipment authorized for this source category.	There were no changes to the list of permitted boilers during this compliance certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Table 800.A: Regulated Sources List **(Updated to include the retirement of four emissions units – revised)**

Emission Unit	Location/ Building	Manufacturer/ Model/Serial Number	Date of Construction, Modification, or Reconstruction[1]	Maximum Heat Input (nameplate)[2] MMBtu/hr
TA-16-1484-BS-1	TA-16-1484	Sellers 183H.P.-SH-LN390 S/N 100848-B	1995	7.47
TA-16-1484-BS-2	TA-16-1484	Sellers 183H.P.-SH-LN390 S/N 100848-A	1995	7.47

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-53-365-BHW-1	TA-53-365	Sellers 15 Seniors-2-200-w S/N 99031-1	1988	8.37
TA-53-365-BHW-2	TA-53-365	Sellers 15 Seniors-2-200-w S/N 99031-2	1988	8.37
TA-55-6-BHW-1	TA-55-6	Sellers 350 H.P. W-LN490 S/N 101319-B	2001	14.6
TA-55-6-BHW-2	TA-55-6	Sellers 350 H.P. W-LN490 S/N 101319-A	1998	14.6
CMRR-BHW-1	TA-55-440	Unilux ZF1100W SN A1874	2009	11.0
CMRR-BHW-2	TA-55-440	Unilux ZF1100W SN A1875	2009	11.0
CMRR-BHW-3	TA-55-440	Unilux ZF1100W SN A1876	2009	11.0
CMRR-BHW-4	**TA-55-440**	**TBD**	**TBD**	**11.0**

1 Construction, Modification, or Reconstruction as defined according to 40 CFR 60.
2 Emission estimates from these units shall be based on the maximum heat input rating, derated for altitude.

A801 Control Equipment – External Combustion **A.** Table 801.A lists all of the pollution control equipment required for the applicable regulated equipment in this source category. Each emission point is identified by the same number that was assigned to it in the permit application.	Emission units TA-48-1-BS-2, TA-48-1-BS-6, TA-59-1-BHW-1 and TA-59-1-BHW-2 were removed from service in 2012 and are no longer at LANL. Request was included in the Title V permit renewal application that these units be removed from Table 801.A (to match Table 800.A which has already been updated in the permit and in this compliance certification report). Unit CMRR-BHW-4 has not been installed.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Table 801.A: Control Equipment List

Control Equipment Unit No.[1]	Location/Building	Control Description	Pollutant being controlled
TA-16-1484-BS-1	TA-16-1484	Low-NOx Burner	NOx
TA-16-1484-BS-2	TA-16-1484	Low-NOx Burner	NOx
TA-48-1-BS-2	TA-48-1	none	none
TA-48-1-BS-6	TA-48-1	none	none
TA-53-365-BHW-1	TA-53-365	none	none
TA-53-365-BHW-2	TA-53-365	none	none
TA-55-6-BHW-1	TA-55-6	Low-NOx Burner	NOx

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-55-6-BHW-2	TA-55-6	Low-NOx Burner	NOx
TA-59-1-BHW-1	TA-59-1	none	none
TA-59-1-BHW-2	TA-59-1	none	none
CMRR-BHW-1	TA-55-440	Low-NOx Burner[2]	NOx
CMRR-BHW-2	TA-55-440	Low-NOx Burner	NOx
CMRR-BHW-3	TA-55-440	Low-NOx Burner	NOx
CMRR-BHW-4	TA-55-440	Low-NOx Burner	NOx

1 Control for unit number refers to a unit number from the Regulated Sources List
2 Low-NOx burners are required for Units CMRR-BHW-1 through -4 by NSR Permit 2195N, Specific Condition 1.d.

A802 Emission Limits – External Combustion **A.** Table 802.A lists specific emission units and their allowable emission limits. (40 CFR 50; Paragraphs 1, 7, and 8 of 20.2.70.302.A NMAC; 40 CFR 60, Subpart Dc).	Emissions are calculated and reported to NMED on a 6-month basis in accordance with permit condition A109.B. Emissions are compared to the allowable emission limits in each semi-annual report. Allowable emission limits were not exceeded during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Table 802.A: Allowable Emissions

Unit No.	[1]NO_x tpy	CO tpy	VOC tpy	SO_2 tpy	TSP tpy	PM_{10} tpy
Combined annual emissions for all units listed in Table 800.A [2]	80.0	80.0	50.0	50.0	50.0	50.0

1 Nitrogen dioxide emissions include all oxides of nitrogen expressed as NO_2
2 Excludes TA-3-22 Power Plant addressed in Section A1300.

B. Table 802.B lists specific emission units and their allowable emission limits. (40 CFR 50; Paragraphs 1, 7, and 8 of 20.2.70.302.A NMAC; 40 CFR 60, Subpart Dc; NSR Permit 2195N)	Emissions are calculated and reported to NMED on a 6-month basis in accordance with permit condition A109.B. Emissions are compared to the allowable emission limits in each semi-annual report. Allowable emission limits were not exceeded during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

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?

Table 802.B: Allowable Emissions

Unit No.	[1]NO_x pph	NO_x tpy	CO pph	CO tpy	VOC pph	VOC tpy	SO_2 pph	SO_2 tpy	TSP pph	TSP tpy	PM_{10} pph	PM_{10} tpy	$PM_{2.5}$ pph	$PM_{2.5}$ tpy
CMRR-BHW-1 (GAS)	0.7	2.9	1.1	4.8	--[2]	--	0.1	0.3	0.1	0.4	0.1	0.4	0.1	0.4
CMRR-BHW-1 (OIL)	1.6		0.5		--	--	5.8		0.3		0.2		0.2	
CMRR-BHW-2 (GAS)	0.7	2.9	1.1	4.8	--	--	0.1	0.3	0.1	0.4	0.1	0.4	0.1	0.4
CMRR-BHW-2 (OIL)	1.6		0.5		--	--	5.8		0.3		0.2		0.2	
CMRR-BHW-3 (GAS)	0.7	2.9	1.1	4.8	--	--	0.1	0.3	0.1	0.4	0.1	0.4	0.1	0.4
CMRR-BHW-3 (OIL)	1.6		0.5		--	--	5.8		0.3		0.2		0.2	
CMRR-BHW-4 (GAS)	0.7	2.9	1.1	4.8	--	--	0.1	0.3	0.1	0.4	0.1	0.4	0.1	0.4
CMRR-BHW-4 (OIL)	1.6		0.5		--	--	5.8		0.3		0.2		0.2	
All boilers – Oil[4]	N/A	**2.9**	N/A	**0.9**	--	--	N/A	**10.4**	N/A	**0.5**	N/A	**0.3**	N/A	**0.3**
CombinedTotal[3]		**14.5**		**20.1**		--		**11.6**		**2.1**		**1.9**		**1.9**

1 Nitrogen dioxide emissions include all oxides of nitrogen expressed as NO_2
2 The "--" symbol indicates a value that was considered negligible and not permitted under NSR 2195N.
3 The annual tpy combined emission totals represent enforceable emission limit caps for all 4 boilers combined, fired with any combination of allowed fuel types.
4 Tpy emission cap for any combination of oil fired boilers.

C. Units CMRR-BHW-1 through - 4 shall not emit oxides of nitrogen in excess of 30 ppmvd, corrected to 15% oxygen on a dry basis. This emissions limitation applies to natural gas fuel only. (NSR Permit 2195N, Specific Condition 1.d., partial,	Nitrogen oxide concentrations were analyzed during the initial compliance test for the CMRR boilers BHW-1 through 3. CMRR-BHW-4 has not been installed. All boilers tested were well under the ppmvd limit.	☐ **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?
revised)				
A803 Applicable Requirements – External Combustion **A.** The permittee shall comply with all applicable sections of the requirements listed in Table 803.A.	Emission units listed in the table meet the applicable requirements listed. Monthly fuel monitoring is performed on all listed emission units. The fuel monitoring records are collected monthly and maintained on-site.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Table 803.A: Applicable Requirements

Applicable Requirements	Federally Enforceable	Unit No.
NSR Permit 2195N	X	CMRR-BHW-1 through -4
20.2.61 NMAC Smoke and Visible Emissions	X	All combustion sources
40 CFR 60, Subpart Dc	X	TA-55-6-BHW-1, TA-55-BHW-2, CMRR-BHW-1 through -4

A804 Operational Limitations – External Combustion

A. All external combustion equipment except Units CMRR-BHW-1 through -4 when operating with fuel oil is authorized to operate any time during the year. No monitoring, recordkeeping, or reporting requirements are required to demonstrate compliance with its hours of operation.

B. Units CMRR-BHW-1 through -4 shall be operated on fuel oil for no more than 48 hours per year per boiler for non-emergency maintenance and readiness testing. This condition establishes exemption from 40 CFR 63, Subpart JJJJJJ (final rule signed by the EPA Administrator on 2/21/11).	Hours of operation for each boiler is tracked by facility personnel. Hours were well below 48 hours per year per boiler during this compliance certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
C. Total annual fuel oil consumption for Units CMRR-BHW-1 through -4 shall not exceed 289,100 gallons on a rolling 365-day total basis.	Total annual fuel oil use is tracked using a 365 day rolling total and is compared to the fuel use limit. Fuel oil use was well below the permitted limit for this period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
A805 Fuel Sulfur Requirements – External Combustion **A.** All Boilers and Heaters (except Units CMRR-BHW-1 through -4) **Requirement:** All boilers and heaters, except Units CMRR-BHW-1 through -4 and the Power Plant addressed in Section A1300 shall combust only natural gas containing no more than 2 grains of total sulfur per 100 dry standard cubic feet.	A natural gas transportation contract is in place and states that gas provided to LANL will be pipeline quality and contain no more than 3/4 grains of total sulfur per 100 scf.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Monitoring: None. **Recordkeeping:** The permittee shall demonstrate compliance with the natural gas limit on total sulfur	A natural gas transportation contract is in place and states that gas provided to LANL will be pipeline quality and contain no more than 3/4 grains of total sulfur per 100 scf.	☐ **Continuous**	☒ **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?
content by maintaining records of a current, valid purchase contract, tariff sheet or transportation contract for the gaseous fuel, or fuel gas analysis, specifying the allowable limit or less. If fuel gas analysis is used, the analysis shall not be older than one year.		☒ **Intermittent**	☐ **No**	☒ **No**
Reporting: The permittee shall submit reports described in Section A109 and in accordance with Section B110.	Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110. See Section A109 in this report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
B. Units CMRR-BHW-1 through -4 **Requirement:** Units CMRR-BHW-1 through -4 shall combust either natural gas containing no more than 2.0 grains of total sulfur per 100 dry standard cubic feet or No. 2 fuel oil containing no more than 0.5 wt% total sulfur. (NSR Permit 2195N, Specific Condition 1.b., partial, revised, Specific Condition 1.h., and 40 CFR 60.42c(d))	A natural gas transportation contract is in place and states that gas provided to LANL will be pipeline quality and contain no more than 3/4 grains of total sulfur per 100 scf. A purchase contract is in place for fuel oil. The contract requires that all fuel oil have a sulfur content less than or equal to 0.05% sulfur by weight.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Monitoring: None. **Recordkeeping:** The permittee shall demonstrate compliance with the natural gas limit and/or fuel oil limit on total sulfur content by maintaining records of a current, valid purchase contract, tariff sheet or transportation contract for the gaseous or liquid fuel, or fuel analysis, specifying the allowable limit or less. If a fuel analysis is used, the analysis shall not be older than one year. (NSR Permit 2195N, Specific Condition 3.b., revised; 40 CFR 60.48c(e)(11); and 40 CFR 60.48c(g)(2)). Alternatively, compliance may be demonstrated by keeping a receipt or invoice from a commercial fuel supplier with each fuel delivery, which shall include the delivery date, the fuel type delivered, and amount of fuel delivered, and the maximum sulfur content of the fuel.	A natual gas transportation contract is in place and available at the site. A fuel oil purchase contract is in place and available at the site. Delivery receipts are also kept and identify the fuel oil as ultra low sulfur diesel.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall submit reports described in Section A109 and in accordance with Section B110.	Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110. See Section A109 in this report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
A806 20.2.61 NMAC Opacity – External Combustion **A.** All Boilers and Heaters (except Units	LANL has certified visible emission readers on-site who perform observations using 40 CFR 60, Appendix A, Method 9 to determine compliance with the opacity limitation. Visible	☐ **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?
CMRR-BHW-1 through -4) **Requirement:** Exhaust emissions from any external combustion source shall not exceed 20% opacity averaged over a 10-minute period.	emissions did not exceed 20% opacity during this certification period.	☒ **Intermittent**	☐ **No**	☒ **No**
Monitoring: Use of natural gas fuel meeting the requirement at Condition A805.A constitutes compliance with 20.2.61 NMAC unless opacity exceeds 20% averaged over a 10-minute period. When any visible emissions are observed during steady state operation and are determined to be not due to condensed water vapor only, opacity shall be measured over a 10-minute period, in accordance with the procedures at 40 CFR 60, Appendix A, Method 9 as required by 20.2.61.114 NMAC.	The natural gas transportation contract states that gas provided to LANL will be pipeline quality and contain no more than 3/4 grains of total sulfur per 100 scf. Opacity did not exceed 20% over a 10-minute period, and no visible emissions were observed during steady state operations during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Recordkeeping: The permittee shall record dates of any opacity measurements and the corresponding opacity readings.	A standard form is used for all opacity measurements. The form includes the date of measurement and opacity observed.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall report dates of any opacity measurements and the corresponding opacity readings. The permittee shall submit reports described in Section A109 and in accordance with Section B110.	Opacity measurements are included in the semi-annual monitoring reports. Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110. See Section A109 in this report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
B. Units CMRR-BHW-1 through -4: Natural Gas-Fired **Requirement:** Exhaust emissions from any external combustion source shall not exceed 20% opacity averaged over a 10-minute period.	Opacity did not exceed 20% over a 10-minute period, and no visible emissions were observed during steady state operations during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Monitoring: Use of natural gas fuel meeting the requirement at Condition A805.A constitutes compliance with 20.2.61 NMAC unless opacity exceeds 20% averaged over a 10-minute period. When any visible emissions are observed during steady state operation and are determined to be not due to condensed water vapor only, opacity shall be measured over a 10-minute period, in accordance with the procedures at 40 CFR 60, Appendix A, Method 9 as required by 20.2.61.114 NMAC.	The natural gas transportation contract states that gas provided to LANL will be pipeline quality and contain no more than 3/4 grains of total sulfur per 100 scf. Opacity did not exceed 20% over a 10-minute period, and no visible emissions were observed during steady state operations during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Recordkeeping: The permittee shall record dates of any opacity measurements and the corresponding opacity readings.	A standard form is used for all opacity measurements. The form includes the date of measurement and opacity observed.	☐ **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: The permittee shall report dates of any opacity measurements and the corresponding opacity readings. The permittee shall submit reports described in Section A109 and in accordance with Section B110.	Opacity measurements are included in the semi-annual monitoring reports. Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
C. Units CMRR-BHW-1 through -4: Fuel Oil-Fired **Requirement:** Exhaust emissions from any external combustion source shall not exceed 20% opacity averaged over a 10-minute period.	Opacity did not exceed 20% over a 10-minute period, and no visible emissions were observed during steady state operations during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Monitoring: The permittee shall perform a least one (1) opacity observation each day that fuel oil is used to fire any of Units CMRR-BHW-1 through -4. Opacity shall be measured over a 10-minute period, in accordance with the procedures at 40 CFR 60, Appendix A, Method 9 as required by 20.2.61.114 NMAC. (NSR Permit 2195N, Specific Condition 3.c., revised)	An opacity observation is taken each day fuel oil is used.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Recordkeeping: The permittee shall record dates of any opacity measurements and the corresponding opacity readings. (NSR Permit 2195N, Specific Condition 4.b., revised)	A standard form is used for all opacity measurements. The form includes the date of measurement and opacity observed.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall report dates of any opacity measurements and the corresponding opacity readings. The permittee shall submit reports described in Section A109 and in accordance with Section B110.	Opacity measurements are included in the semi-annual monitoring reports. Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
A807 Other – External Combustion **A.** Natural Gas Fuel Usage (Sources listed in Table 800.A except CMRR-BHW-1 through -4) **Requirement:** The combined natural gas fuel usage shall be limited to 870 MMscf/y. This limitation shall apply to all boilers and heaters listed in Table 800.A except Units CMRR-BHW-1 through -4, but including all other boilers and heaters at the Facility that qualify as Title V Insignificant Activities.	For units listed under this permit condition, a 12-month rolling total of natural gas used is calculated and recorded each month. The rolling total is compared to the fuel use limit each month and provided in the semi-annual monitoring report. Natural gas usage limits were not exceeded.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Monitoring: The permittee shall monitor the monthly total volumetric flow of natural gas to Units TA-55-6-BHW-1 and TA-55-6-BHW-2 through use of a totalizing flow meter.	These units have a volumetric flow meter in place which is used to monitor monthly natural gas use. This information is maintained and available on-site. Natural gas usage for these units is provided in the semi-annual monitoring report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Recordkeeping: The permittee shall: **1)** Calculate the monthly rolling 12-month total	A 12-month rolling total of natural gas used is calculated and recorded each month. The rolling total is compared to the fuel	☐ **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?
natural gas fuel usage for the emission units listed in Table 800.A except Units CMRR-BHW-1 through -4. **2)** Calculate the actual emissions rate for the emission units listed in Table 800.A except Units CMRR-BHW-1 through -4. The calculation shall be based on the actual fuel usage of Units equipped with individual flow meters and the Facility-Wide metered or estimated natural gas usage. **3)** Calculate the semiannual and annual total emissions rate (tons/year) for this source category and compare them to the emission limits in Table 802.A. The permittee shall maintain records in accordance with Section B109.	use limit each month and provided in the semi-annual monitoring report. Natural gas usage limits were not exceeded. The actual emission rate is calculated for the units listed in Table 800.A. This calculation uses data from individual unit flow meters and facility wide metered natural gas. The emission rate is calculated every 6 months and annually for this source category and compared to the limits.	☒ **Intermittent**	☐ **No**	☒ **No**
Reporting: The permittee shall submit reports described in Section A109 and in accordance with Section B110.	Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110. See Section A109 in this report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
B. Natural Gas and Fuel Oil Usage (Units CMRR-BHW-1 through -4) **Requirement:** The permittee shall comply with the emission limits in Table 802.B for each fuel type.	The initial compliance test was used to show compliance with the emission limits. All concentrations and emission rates were below permitted limits. Vendor data is also used to determine compliance with emission limits.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Monitoring: The permittee shall: **1)** Monitor the monthly total volumetric flow of natural gas to Units CMRR-BHW-1 through -4 using a totalizing flow meter. (NSR Permit 2195N, Specific Condition 3.a., partial, revised and 40 CFR 60.48c(g)(2)) **2)** Monitor the daily fuel oil consumption during which any of the 4 CMRR boilers are fired with this fuel type. (NSR Permit 2195N, Specific Condition 3.a, partial, revised) **3)** Monitor the hours of operation for each boiler when fired on fuel oil and during non-emergency maintenance and readiness testing.	A totalizing flow meter is in place and measures natural gas used by the CMRR boilers. Daily fuel oil consumption is monitored using both tank readings and individual meter readings. The hours of operation of each boiler is recorded by facility personnel each time a boiler is run on fuel oil. The purpose for running the boiler is also monitored and recorded.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Recordkeeping: The permittee shall: **1)** Calculate and record the annual fuel oil usage for Units CMRR-BHW-1 through -4 as a daily rolling 365-day total. (NSR Permit 2195N, Specific Condition 1.c., partial, revised) **2)** Calculate and record the semiannual and calendar year total emissions rate (tons/year) for each	Annual fuel oil usage is recorded on a 365-day rolling total. The emissions rate is calculated on a 6-month and annual basis for each fuel type and for both fuels combined. Emissions are compared to limits. Annual hours of operation for each boiler are recorded when fired on fuel oil during non-emergency use. The total hours	☐ **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?
fuel type and for the combination of both fuels compare to the emission limits in Table 802.B. **3)** Record the annual hours of operation of each boiler when fired on fuel oil during non-emergency maintenance and readiness testing and compare to the limitation at Condition A804.B. **4)** The permittee shall maintain records in accordance with Section B109.	are compared to the hour limit in condition A804.B. Records are maintained in accordance with condition B109.			
Reporting: The permittee shall submit reports described in Section A109 and in accordance with Section B110.	Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110. See Section A109 in this report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
C. 40 CFR 60, Subpart Dc (Units TA-55-6-BHW-1, TA-55-6-BHW-2, CMRR-BHW-1 through -4) **Requirement:** Units TA-55-6-BHW-1, TA-55-6-BHW-2, CMRR-BHW-1 through -4 are subject to 40 CFR 60, Subparts A and Dc, including the initial notification requirements of Subpart A and the specific requirements of Subpart Dc.	Units TA-55-6-BHW-1, TA-55-6-BHW-2, and CMRR-BHW-1 through -4 meet the requirements of 40 CFR Part 60, Subparts A and Dc. Notification requirements were met through source startup notifications and initial permit applications. Fuel sulfur requirements and tracking are included in the monitoring report which is submitted every 6 months.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Monitoring: The permittee shall perform all monitoring required by 40 CFR 60, Subparts A and Dc, including (but not limited to) 40 CFR 60.47c.	Fuel sulfur requirements and tracking are performed and included in the monitoring report which is submitted every 6 months.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Recordkeeping: The permittee shall maintain all records required 40 CFR 60, Subparts A and Dc, including (but not limited to) those specified by 40 CFR 60.48c(f)(1), (g), and (i). (NSR Permit 2195N, Specific Condition 4.a., revised)	Fuel sulfur content and fuel use records are maintained on site for at least 5 years as required by the operating permit.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall: **1)** Submit reports described in Section A109 and in accordance with Section B110. **2)** Submit reports as required by 40 CFR 60, Subparts A and Dc, including (but not limited to) those required by 40 CFR 60.48c(a)(1) – (3) and 40 CFR 60.48c(d), (e)(11), (f)(1), and (j). (NSR Permit 2195N, Specific Condition 4.a., revised)	1) Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110. See Section A109 in this report. These reports include fuel oil supplier certification of total sulfur in oil. 2) No additional reports were required to be submitted under 40 CFR 60, Subparts A and Dc during the certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
D. Initial Compliance Testing (Units CMRR-1 through -4) **Requirement:** Initial compliance tests are required for each boiler, Units CMRR-BHW-1 through -4. The	The initial compliance tests for units CMRR-BHW-1 through -3 were conducted on January 18-19, 2012. CMRR-BHW-4 has not been installed. These tests were conducted using natural gas only. A permit revision was made to the NSR	☐ **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?
tests shall be conducted for NOx and CO for each fuel type. Tests shall be conducted for TSP, PM10, and PM2.5 for fuel oil use only. (NSR Permit 2195N, Specific Condition 6.a., partial, revised)	permit to remove the requirement to test using each fuel type. Fuel oil is an emergency fuel and will rarely be used. The revised condition can be found in specific condition 6.a of NSR permit 2195N-R2. This revised condition is included in the operating permit renewal application submitted to NMED AQB on July 10, 2013.			
Monitoring: Compliance testing shall be conducted in accordance with Section B111. The reference to initial startup of the source at B111.A(2) shall be defined as initial startup for each fuel type; compliance testing on fuel oil in accordance with B111 is not required until after the source has achieved startup on fuel oil.	The compliance tests performed as stated above, were conducted in accordance with Section B111 of the operating permit.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Recordkeeping: The permittee shall maintain records in accordance with Section B109.	The compliance test records are maintained in accordance with Section B109.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall submit reports described in Section A109 and in accordance with Section B110.	Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110. See Section A109 in this report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
A900 Regulated Sources – Chemical Usage **A.** Table 900.A lists all of the process equipment authorized for this source category.	No new process equipment has been added for this source category during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Table 900.A: Regulated Sources List

Unit No.	Source Description/Location	Emission Type
LANL-FW-CHEM	Chemical Usage, Facility-wide (**except** CMRR-RLUOB)	VOC, HAPs, TAPs
CMRR-CHEM	Chemical Usage, Bldg. TA-55-400 (the laboratory portion only of this CMRR-RLUOB building	VOC, HAPs, TAPs

A902 Emission Limits – Chemical Usage **B.** Table 902.A lists the emission units, and their allowable emission limits. (40 CFR 50; Paragraphs 1, 7, and 8 of 20.2.70.302.A NMAC, NSR Permit 2195N).	Facility wide emissions from chemical use are calculated and reported on a 6-month basis in accordance with permit condition A109.B. A comparison against the allowable emission limits is performed for each of these reporting periods. Facility wide emission limits were not exceeded during this certification period. CMRR-CHEM laboratory chemicals will be tracked and emissions calculated on a monthly basis and compared to the allowable emission limits. The CMRR-CHEM facility did not	☐ **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?
	use chemicals in the laboratory portion during this certification period.			

Table 902.A: Allowable Emissions

Unit No.	VOC/HAPs tpy
LANL-FW-CHEM	--[1]
CMRR-CHEM	3.75[1]

1 The VOC emissions from this source category are included in the facility-wide allowable emissions limit established in Table 106.B: 200 tpy VOC, 8.0 tpy per individual HAP, and 24.0 tpy of combined total HAPs. Any VHAPs that are also defined as a VOC shall be included in the VOC total.

A903 Applicable Requirements – Chemical Usage **A.** The permittee shall comply with all applicable sections of the requirements listed in Table 903.A.	All applicable sections of NSR Permit 2195N are included in the operating permit. All sections are complied with.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Table 903.A: Applicable Requirements

Applicable Requirements	Federally Enforceable	Unit No.
NSR Permit 2195N	X	CMRR-CHEM

A904 Operational Limitations – Chemical Usage

A.The Chemical Usage source category is authorized for continuous operation. No monitoring, recordkeeping, or reporting requirements are required to demonstrate compliance with continuous hours of operation

B. For Unit CMRR-CHEM, the permittee shall obtain a NSR permit revision prior to the use of any TAP that is expected to be emitted in excess of the stack-height-corrected screening levelsat 202.72.502 NMAC. (NSR Permit 2195N, Specific Condition 1.g, revised)	Chemical usage is tracked and emissions calcuated monthly to determine TAP emissions. If TAP emissions are expected to exceed screening levels, a NSR permit revision would be requested. No laboratory chemicals were used in CMRR-CHEM during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
A907 Other – Chemical Usage **A.** Emission calculations (Unit LANL-FW-CHEM) **Requirement:** The permittee shall comply with the facility-wide VOC and HAP emission limits at Table 106.B.	Facility wide emissions did not exceed the VOC or HAP emission limits listed in Table 106.B.	☐ **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?
Monitoring: The permittee shall monitor facility-wide chemical purchasing and site location using an electronic chemical tracking system. The quantity of chemicals that are vented to the atmosphere shall be estimated on a semi-annual basis, and categorized as VOC, HAP, or a combination of these categories.	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 A109.B.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Recordkeeping: The permittee shall record the quantity of total VOC emitted and the quantity of each individual and total HAPs on a semi-annual basis. These records shall be maintained in accordance with Section B109.	Facility wide VOC and HAP emissions are calculated, recorded, and reported on a 6-month basis in accordance with permit conditions A109.B and B109.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall submit reports described in Section A109 and in accordance with Section B110. With respect to individual HAPs, reports shall include any HAP emitted in a quantity greater than 0.5 tons per year.	Emission and monitoring reports are submitted on a 6-month basis in accordance with permit condition A109. See Section A109 in this report. The semi-annual emission report includes individual HAPs emitted in a quantity greater than 0.5 tons per year.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
B. Emission calculations (Unit CMRR-CHEM) **Requirement:** The permittee shall comply with the source-specific VOC emission limit at Table 902.A and the facility-wide VOC and HAP emission limits at Table 106.B. (NSR Permit 2195N, Specific Condition 2.a., revised)	CMRR-CHEM emissions did not exceed the VOC emission limit at Table 902.A or the VOC and HAP emission limits listed in Table 106.B. The CMRR-CHEM did not use chemicals in the laboratory portion during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Monitoring: The permittee shall monitor chemical purchasing for the CMRR-CHEM facility using an electronic chemical tracking system. The quantity of chemicals that are vented to the atmosphere shall be estimated on a monthly basis, and categorized as VOC, HAP, TAP, or a combination of these categories. (NSR Permit 2195N, Specific Condition 4.c., revised)	Chemical purchase records are collected in LANL's ChemLog database and used to calculate emissions for unit CMRR-CHEM. Chemical emissions are estimated monthly for this source and categorized as VOC, HAP, TAP, or a combination of these.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Recordkeeping: The permittee shall record the quantity of total VOC and TAP, each individual HAP,and the total HAPs emitted on a monthly rolling, 12-month total basis. These records shall be maintained in accordance with Section B109. (NSR Permit 2195N, Specific Condition 4.c., revised)	A monthly total VOC, TAP, and HAP emissions are recorded each month and in a 12-month rolling total. Records are maintained in accordance with Section B109.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall submit reports described in Section A109 and in accordance with Section B110. With respect to individual HAPs, reports shall include any HAP emitted in a quantity greater than 0.5 tons per year.	Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110. See Section A109 in this report. The semi-annual emission report includes individual HAPs emitted in a quantity greater than 0.5 tons per year.	☐ **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?
A1000 Regulated Sources – Degreasers **A.** Table 1000.A lists all of the process equipment authorized for this source category.	No new process equipment has been added for this source category during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Table 1000.A: Regulated Sources List

Unit No.	Source Description/Location	Emissions Type
TA-55-DG-1	Ultrasonic Cold Batch	VOCs, HAPs

A1002 Emission Limits –Degreasers **A.** Table 1002.A lists the emission units, and their allowable emission limits. (40 CFR 50; 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 A109.B. Comparison against the allowable emission limits is performed at each of these reporting periods. Allowable emission limits were not exceeded during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Table 1002.A: Allowable Emissions

Unit No.	VOC/HAPs tpy
TA-55-DG-1	--[1]

1 The VOC emissions from this source category are included in the facility-wide allowable emissions limit established in Table 106.B: 200 tpy VOC, 8.0 tpy per individual HAP, and 24.0 tpy of combined total HAPs. Any VHAPs that are also defined as a VOC shall be included in the VOC total.

A1003 Applicable Requirements – Degreasers **A.** The permittee shall comply with all applicable sections of the requirements listed in Table 1003.A.	LANL degreaser operation met all requirements of 40 CFR Part 63, Subpart T during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Table 1003.A: Applicable Requirements

Applicable Requirements	Federally Enforceable	Unit No.
40 CFR 63, Subpart T National Emission Standards for Halogenated Solvent Cleaning	X	TA-55-DG-1

A1004 Operational Limitations – Degreasers

A.The Degreasers source category is authorized for continuous operation. No monitoring, recordkeeping, or reporting requirements are required to demonstrate compliance with continuous hours of operation

A1007 Other – Degreasers **A.** Operational Requirements (Degreasers)	The degreaser is kept closed with a tight fitting cover when it is not being used.	☐ **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?
Requirement: The permittee shall comply with the applicable requirements according to 40 CFR 63, Subpart T, including, but not limited to: **1)** Ensure the degreaser is closed with a tight fitting cover whenever not in use, and **2)** Maintain a freeboard ratio of 0.75 or greater, and **3)** Collect and store all waste solvent and wipe rags in closed containers, and **4)** Perform flushing within the freeboard area only, and **5)** Allow cleaned parts to drip for 15 seconds or until dripping stops, and **6)** Do not exceed the fill line on the solvent level, and **7)** Wipe up spills immediately, and **8)** Do not create observable splashing with agitation device, and **9)** Ensure that the degreaser is not exposed to drafts greater than 40 meters/min, and **10)** Do not clean sponges, fabric, wood, or paper.	A freeboard ratio of 0.75 or greater is maintained. All waste solvent and solvent contaminated wipe rags are collected and stored in closed containers. Flushing operations are performed only within the freeboard area. Cleaned parts are allowed to drip for 15 seconds or until dripping stops. The fill line has not been exceeded. Spills are wiped up immediately. Administrative controls are in place to prevent observable splashing with an agitation device. The degreaser is located in a glove box with a set ventilation flow rate. Exhaust flows do not exceed 40 m/min. Sponges, fabric, wood, or paper are not cleaned in the degreaser.	☒ **Intermittent**	☐ **No**	☒ **No**
Monitoring: The permittee shall monitor and record the amount of solvent added to the degreaser.	A database 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 A109.B.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Recordkeeping: The permittee shall: **1)** Calculate the actual emissions rate (pounds/month) of VOC and HAPs based on the quantity of solvent lost to evaporation on a monthly basis. **2)** Calculate the semi-annual emissions rate (tons/year) for this source category and add to the facility-wide emission rates in Table 106.B. **3)** Maintain records of the degreaser solvent content and quantity added and work practice checklists. **4)** The permittee shall maintain records in accordance with Section B109.	The actual emission rate (lb/month) of VOC and HAPs is calculated by the database when data is entered. The semi-annual emissions (tpy) are also calculated by the database. These emissions are included in the facility wide totals. Checklists for work practice standards have been completed for this certification period. Records of solvent content and quantity added are maintained on site. Records for this source category are maintained in accordance with Section B109.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall submit reports described in Section A109 and in accordance with	Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110.	☐ **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?
Section B110.	See Section A109 in this report.	☒ **Intermittent**	☐ **No**	☒ **No**
A1100 Regulated Sources – Internal Combustion **A.** Table 1100.A lists all of the process equipment authorized for this source category.	There was no other process equipment added to this source category during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Table 1200.A: Regulated Sources List

Unit No.	Source Location	Source Type	Make/ Model	Serial No.	Capacity	Manufacture Date
TA-33-G-1	TA-33	CI-RICE, Stationary Generator	Kohler/1600 ROZD71	375801	1600 kW (electrical output)	1996
TA-33-G-2	TA-33	CI-RICE, Portable Generator	Kohler/ 20EORZ	2025460	20 kW (electrical output)	2003
TA-33-G-3	TA-33	CI-RICE, Portable Generator	Kohler/ 20EORZ	2025461	20 kW (electrical output)	2003
TA-33-G-4	TA-33	CI-RICE, Portable Generator	Caterpillar/ 3306	6PK01065	225 kW (electrical output)	1999
Standby Generators	Facility-Wide	CI – and SI-RICE Generators: diesel, natural gas, and propane.	Various	Various	Various	Unknown
CMRR-GEN-1	Near TA-55-0400 (CMRR-RULOB)	CI-RICE Stationary Generator	Cummins/ DFLE-5754172	106970810	2220 hp (mechanical input)	9/06
CMRR-GEN-2	Near TA-55-0400 (CMRR-RULOB)	CI-RICE Stationary Generator	Cummins/ DFLE-5754172	106970811	2220 hp (mechanical input)	9/06
CMRR-GEN-3	Near TA-55-0400 (CMRR-RULOB)	CI-RICE Stationary Generator	Cummins/ DFLE-5754172	106970812	2220 hp (mechanical input)	9/06

A1102 Emission Limits – Internal Combustion **A.** Table 1102.A lists the emission units, and their allowable emission limits. (40 CFR 50; Paragraphs 1, 7, and 8 of 20.2.70.302.A NMAC; 40	None of the allowable 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?
CFR 60, Subparts A and IIII; 40 CFR 63, Subparts A and ZZZZ).				

Table 1102.A: Allowable Emissions

Unit No.	NO_x pph	NO_x tpy	CO pph	CO tpy	VOC pph	VOC tpy	SO_2 pph	SO_2 tpy	TSP pph	TSP tpy	PM_{10} pph	PM_{10} tpy
TA-33-G-1	40.3	18.1	33.7	15.2	0.7	0.3	5.5	2.5	1.4	0.6	1.4	0.6
TA-33-G-2	0.83	0.21	0.2	0.1	0.1	--[1]	--	--	--	--	--	--
TA-33-G-3	0.83	0.21	0.2	0.1	0.1	--[1]	--	--	--	--	--	--
TA-33-G-4	9.33	2.33	5.7	1.4	0.75	0.2	0.62	0.16	--	--	--	--

1 The VOC emissions from this source category are included in the facility-wide allowable emissions limit established in condition A106.B: 200 tpy VOC, 8.0 tpy per individual HAP, and 24.0 tpy of combined HAPs.

A1103 Applicable Requirements – Internal Combustion **A.** The permittee shall comply with all applicable sections of the requirements listed in Table 1103.A.	Units listed in this section meet the requirements listed in Table 1103.A, as applicable. Table 1103.A was revised in Permit P100-R1M3 to reflect that 40 CFR 63, Subpart A and ZZZZ, is applicable to TA-33-G-1, and not CMRR-GEN-1 through CMRR-GEN-3. The table below needs to be updated to be consistent with Permit P100-R1M3	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Table 1103.A: Applicable Requirements

Applicable Requirements	Federally Enforceable	Unit No.
NSR Permit 2195F-R3	X	TA-33-G-1
NSR Permit 2195P	X	TA-33-G-2 through -4
NSR Permit 2195N-R1	X	CMRR-GEN-1 through -3
20.2.61 NMAC Smoke and Visible Emissions	X	All Internal Combustion Sources
20.2.77 New Source Performance Standards	X	Applicable to CMRR-GEN-1 through -3; potentially applicable to any RICE at the facility
40 CFR 60, Subpart A, General Provisions	X	Applicable to CMRR-GEN-1 through -3; potentially applicable to any CI-RICE at the facility
40 CFR 60 Subpart IIII, Stationary CI-RICE	X	
40 CFR 63, Subpart A, General Provisions	X	Applicable to CMRR-GEN-1 through -3; potentially applicable to any RICE at the facility
40 CFR 63 Subpart ZZZZ, HAPs from Stationary RICE	X	
40 CFR 89, Control of Emissions from New and In-Use Nonroad Compression Ignition Engines	X	TA-33-G-2 through -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?
A1104 Operational Limitations – Internal Combustion **A.** Hours of Operation for Gensets in the Standby Generator Pool **Requirement:** The facility Standby Generator Pool is limited to an average of 168 hrs per year per genset.	The limit of 168 hr/year average was not exceeded during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Monitoring: The permittee shall monitor the hours of operation or each genset that is assigned to the Standby Generator Pool.	Hours of operation for each stationary standby generator are collected and evaluated twice a year to verify that the average hours per year limit is not exceeded.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Recordkeeping: The permittee shall maintain semi-annual records of the hours of operation in accordance with Section B109.	The semi-annual hours of operation records are maintained in accordance with Section B109.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall submit reports described in Section A109 and in accordance with Section B110.	Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110. See Section A109 in this report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
B. Hours of Operation and Emission Limits for Unit TA-33-G-1 **Requirements:** **1)** Unit TA-33-G-1 is limited to 12,000 kWh/day and 1,350,000 kWh/y. (NSR Permit 2195F-R3, Specific Condition 1.b., partial) **2)** Unit TA-33-G-1 is limited to eight (8) hours of daily operation at full capacity. Operation shall occur between the hours of 7:00 AM and 5:00 PM. (NSR Permit 2195F-R3, Specific Condition 1.c.)	TA-33-G-1 did not exceed either the daily or annual kWh limit during this certification period. A run log is maintained at the generator that records start-up, shut-down, and run time. The generator did not run more than 8 hours in any one day and only ran between 7am and 5pm.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Monitoring: The permittee shall monitor the time(s) of operation each day, and the daily and monthly rolling 12-month total kilowatt-hours of operation for Unit TA-33-G-1 using a non-resettable kilowatt-hour meter. (NSR Permit 2195F-R3, Specific Condition 1.b., partial, revised)	TA-33-G-1 has a run log to track daily kWh totals and hours of operation, as well as the time operation begins and ends each day. The hour readings are collected monthly and a 12-month rolling total is calculated. The hour meter on the unit is non-resettable.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Recordkeeping: The permittee shall maintain the following records and in accordance with Section B109: **1)** The permittee shall keep records of the time(s) of operation each day, and the daily, monthly, and the monthly rolling 12-month total kilowatt-hours of operation of the genset listed above, as indicated on	TA-33-G-1 has a run log to track daily kWh totals and hours of operation, as well as the time operation begins and ends each day. The hour readings are collected monthly and a 12-month rolling total is calculated. The hour meter on the unit is non-resettable. The emissions of regulated pollutants from Unit TA-33-G-1 are calculated at least semi-annually.	☐ **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?
the non-resettable kilowatt-hour meter. (NSR Permit 2195F-R3, Specific Condition 4.a. and 4.b., revised) **2)** The permittee shall calculate the annual emissions of all pollutants from Unit TA-33-G-1.				
Reporting: The permittee shall submit reports described in Section A109 and in accordance with Section B110.	Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110. See Section A109 in this report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
C. Hours of Operation and Emission Limits for Units TA-33-G-2 through -4 **Requirements:** **1)** Units TA-33-G-2 through -4 are authorized to operate 500 hours per generator per calendar year. (NSR Permit 2195P, Specific Condition 1.b.) **2)** Units TA-33-G-2 through -4 shall each be certified to be in compliance with applicable non-road emission standards in 40 CFR 89. (NSR Permit 2195P, Specific Condition 1.c.)	The hour readings are collected twice a year to verify the hour limit is not being approached. The hour limits for these units were not exceeded during this certification period. Certificates of compliance with applicable non-road emission standards are maintained on site.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Monitoring: The permittee shall monitor the total hours of operation for each genset, Units TA-33-G-2 through -4, using a non-resettable hour meter.	The hour readings are collected twice a year to verify the hour limit is not being approached. The hour limits for these units were not exceeded during this certification period. The hour meters on these units are non-resettable.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Recordkeeping: The permittee shall: **1)** Record the total hours operation of the gensets listed above, as indicated on the non-resettable hour meter. (NSR Permit 2195P, Specific Condition 4.a., revised) **2)** Calculate and record the semi-annual emissions of all pollutants from each genset, Units TA-33-G-2 through -4. **3)** Maintain a copy of the engine certification to the applicable non road emission standards in 40 CFR 89. (NSR Permit 2195P, Specific Condition 4.c.)	Records of operating hours are kept and used for calculating emissions and reporting. The emissions of regulated pollutants from Units TA-33-G-2 though -4 are calculated and recorded semi-annually. Certificates of compliance with applicable non-road emission standards are maintained on site.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall submit reports described in Section A109 and in accordance with Section B110.	Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110. See Section A109 in this report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
D. Hours of Operation and Emission Limits for Units CMRR-GEN-1 through -3 **Requirements:** Units CMRR-GEN-1 through -3 are authorized to operate 100 hours per generator per	The hour readings are collected twice a year to verify the hour limit is not being approached. The hour limits for these units were not exceeded during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

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?
calendar year for maintenance checks and readiness testing.				
Monitoring: The permittee shall monitor the daily and calendar year total hours of operation for each genset, Units CMRR-GEN-1 through -3, using a non-resettable hour meter.	Daily and semi-annual hour readings are monitored using a non-resettable hour meter.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Recordkeeping: The permittee shall: **1)** Maintain records of the total hours of operation for the gensets listed above on a semi-annual basis, as indicated on the non-resettable hour meter. **2)** Calculate and record the annual emissions of all pollutants listed in Tables 102.A and 102.B from each genset, Units CMRR-GEN-1 through -3.	Records of total operating hours for these gensets are maintained on a semi-annual basis. Emissions from these gensets are calculated and recorded at least semi-annually and annual totals are calculated.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall submit reports described in Section A109 and in accordance with Section B110.	Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110. See Section A109 in this report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
A1105 Fuel Sulfur Requirements – Internal Combustion **A.** CI-RICE – Subject to RICE NESHAP Subpart ZZZZ and Non-emergency > 300 hp **Requirement:** CI-RICE used at the facility shall combust only diesel fuel containing no more than 500 ppmw total sulfur.	Only Ultra Low Sulfur Diesel (ULSD) is used in these units. A purchase contract is in place with the Laboratory to only purchase ULSD, which is less than 15 ppm sulfur.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Monitoring: None. **Recordkeeping:** The permittee shall demonstrate compliance with the limit on total fuel sulfur content by maintaining records of a current, valid purchase contract, tariff sheet or transportation contract for the fuel, or fuel analysis, specifying the fuel grade and certification or allowable sulfur limit. If fuel analysis is used, the analysis shall not be older than one year. Alternatively, compliance may be demonstrated by keeping a receipt or invoice from a commercial fuel supplier with each fuel delivery, which shall include the delivery date, the fuel type delivered, and amount of fuel delivered, and the maximum sulfur content of the fuel.	Only Ultra Low Sulfur Diesel (ULSD) is used in these units. A purchase contract is in place with the Laboratory to only purchase ULSD, which is less than 15 ppm sulfur. A copy of the purchase contract is available on site. In addition, receipt and/or invoices from fuel suppliers are kept when deliveries are made.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall submit reports described in Section A109 and in accordance with	Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110. See Section A109 in this report.	☐ **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?
Section B110.		☒ **Intermittent**	☐ **No**	☒ **No**
A1106 20.2.61 NMAC Opacity – Internal Combustion **A.** CI-RICE **Requirement:** All combustion units shall not exceed 20% opacity.	No unit that falls under this section exceeded 20% opacity during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Monitoring: During steady state operation, opacity shall be measured over a 10-minute period in accordance with the procedures at 40 CFR 60, Appendix A, Method 9 as required by 20.2.61.114 NMAC. Opacity measurements shall be conducted on a quarterly basis per calendar year as qualified by the Section B108.D monitoring provisions. This requirement excludes Insignificant and Trivial Activities.	Section B108.D(2) of the permit allows reduced frequency of opacity monitoring if the unit operates less than 10% of the monitoring period (calendar quarter). The applicable CI-RICE units operated less than 10% of each monitoring period (less than 219 hours each quarter) during this certification period. If the unit operates greater than 10% of the monitoring period, the unit will have an opacity observation performed on it, otherwise an opacity observation must be performed at least once during the 5 year term of the permit. Any opacity observations performed on the unit will be included in the semi-annual monitoring reports.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Recordkeeping: The permittee shall maintain records of all Method 9 observations, and in accordance with Section B109.	No Method 9 observations were performed during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall report date, time, and results of all Method 9 observations. The permittee shall submit reports described in Section A109 and in accordance with Section B110.	No Method 9 observations were performed during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
A1107 Other – Internal Combustion **A.** NSPS 40 CFR 60, Subpart IIII - General Requirements. **Requirements:** Any CI-RICE will be subject to 40 CFR 60, Subparts A and IIII if the source is constructed (ordered) and manufactured after the applicability dates in 40 CFR 60.4200 and is not otherwise exempt. Units CMRR-GEN-1 through -3 are subject to Subpart IIII according to 40 CFR 60.4200(a)(2). These engines shall comply with all requirements under Subpart IIII, including, but not limited to the following general requirements: **1)** The permittee shall install a non-resettable hour meter if one is not already installed (40 CFR 60.4209(a)). **2)** The permittee shall operate and maintain the	1) All units that fall under this section have a non-resettable hour meter in place. 2) The units that fall under this section are maintained and operated according to instructions/procedures developed by the Laboratory generator maintenance staff. The maintenance instruction was developed using manufacturer data and	☐ **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?
stationary CI RICE and control device according to the manufacturer's written instructions or procedures developed by the permittee that are approved by the engine manufacturer. In addition, the permittee may change only those settings that are permitted by the manufacturer (40 CFR 60.4211(a)). **3)** Stationary CI RICE subject to this subpart with a displacement of less than 30 liters per cylinder that use diesel fuel shall use diesel fuel that meets, at a minimum, the following standards of 40 CFR 80.510(b) for nonroad diesel fuel (40 CFR 60.4207(b)): **(a)** Sulfur content. **(i)** 15 ppm maximum for nonroad (NR) diesel fuel. **(b)** Cetane index or aromatic content, as follows: **(i)** A minimum cetane index of 40; or **(ii)** A maximum aromatic content of 35 volume percent. **4)** Notifications are not required for these units according to 40 CFR 60.4214(b)(5).	recommendations. Only those settings that are permitted by the manufacturer have been or will be changed. 3) Only Ultra Low Sulfur Diesel (ULSD) is used in these units. A purchase contract is in place with the Laboratory to only purchase ULSD, which is less than 15 ppm sulfur. The contract specifies that all diesel fuel shall confrom to ASTM D975 specifications which includes a minimum cetane index of 40 for ULSD. A copy of the purchase contract is available on site. In addition, receipt and/or invoices from fuel suppliers are kept when deliveries are made.			
Monitoring: None. **Recordkeeping:** The permittee shall maintain the following records as applicable, all records required by 40 CFR 60, Subparts A and IIII, and in accordance with Section B109: **1)** Compliance with Requirement 2 shall be demonstrated by maintaining records of the maintenance conducted on the affected stationary CI RICE. **2)** Compliance with Requirement 3 shall be demonstrated by maintaining the test records, certification, or specification sheet provided by the fuel supplier.	Maintenance is scheduled and performed using an internal maintenance tracking system. Records of maintenance conducted are available on site. A copy of this data has been provided by the supplier and is available on site.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall submit reports described in Section A109, report as required by 40 CFR 60, Subparts A and IIII, and in accordance with Section B110.	Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110. See Section A109 in this report. Reports required under 40 CFR 60, Subparts A and IIII, have been submitted.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
B. NSPS 40 CFR 60 Subpart IIII - Emission Standards at 40 CFR 60.4205(a) and (c).	The engine on the units subject to this section are EPA Tier 1 certified. The certification is provided by the engine manufacturer indicating compliance with the standard.	☐ **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?
Requirement: Units CMRR-GEN-1 through -3 are subject to the emission standards in 40 CFR 60.4205.		☒ **Intermittent**	☐ **No**	☒ **No**
Monitoring: None. **Recordkeeping:** The permittee shall maintain the following records as applicable, all records required by 40 CFR 60, Subparts A and IIII, and in accordance with Section B109: **1)** The permittee shall demonstrate compliance with the emission standard according to one of the methods specified in 40 CFR 60.4211(b)(1) through (5) as follows: **(a)** The engine shall be certified according to 40 CFR part 89 or 40 CFR 94, as applicable, for the same model year and maximum engine power. The engine shall be installed and configured according to the manufacturer's specifications, or **(b)** Maintain records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in this Subpart, or **(c)** Maintain records of engine manufacturer data indicating compliance with the standards, or **(d)** Maintain records of control device vendor data indicating compliance with the standards, or **(e)** Conduct an initial performance test to demonstrate compliance with the emission standards according to the requirements specified in 40 CFR 60.4212, as applicable.	The engine on the units subject to this section are EPA Tier 1 certified. The certification is provided by the engine manufacturer indicating compliance with the standard.	☒ **Continuous** ☐ **Intermittent**	☐ **Yes** ☒ **No**	☒ **Yes** ☐ **No**
Reporting: The permittee shall submit reports described in Section A109, report as required by 40 CFR 60, Subparts A and IIII and in accordance with Section B110.	Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110. See Section A109 in this report. Reports required under 40 CFR 60, Subparts A and IIII, have been submitted.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
C. RICE MACT 40 CFR 63, Subpart ZZZZ **Requirement:** Any RICE at the facility will be subject to 40 CFR 63, Subparts A and ZZZZ if the source meets the applicability criteria in 40 CFR 63.6585 and	The only generator at LANL that is subject to Subpart ZZZZ. is Unit No. TA-33-G-1. The compliance date for this unit to comply with this subpart was extended to May 3, 2014. (Letter from NMED to LANL dated March 18, 2013).	☐ **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?
63.6590 and not otherwise exempt. The permittee shall comply with the notification requirements in Subpart A and the specific requirements of Subpart ZZZZ. Unit No. TA-33-G-1 is subject to this requirement and shall be in compliance with Subpart ZZZZ on or before May 3, 2014 rather than the initial compliance date specified in the Subpart.	This unit was permanently taken out of service in December 2013. NSR Permit No 2195F-R4, issued December 12, 2013, removed this unit from the permit. A request to remove this unit from the Operating Permit is included in the permit renewal application submitted to NMED AQB.			
Monitoring: The permittee shall comply with all applicable monitoring requirements of 40 CFR 63, Subpart A and Subpart ZZZZ.	The compliance deadline for this subpart is May 3, 2014. This unit was permanentaly taken out of service in December 2013.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Recordkeeping: The permittee shall comply with all applicable recordkeeping requirements of 40 CFR 63, Subpart A and Subpart ZZZZ, including but not limited to 63.6655 and 63.10.	The compliance deadline for this subpart is May 3, 2014. This unit was permanently taken out of service in December 2013.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall comply with all applicable reporting requirements of 40 CFR 63, Subpart A and ZZZZ, including but not limited to 63.6645, 63.6650, 63.9, and 63.10.	The compliance deadline for this subpart is May 3, 2014. This unit was permanently taken out of service in December 2013.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
A1200 Regulated Sources – Data Disintegrator **A.** Table 1200.A lists all of the process equipment authorized for this source category.	No new process equipment has been added to this source category during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Table 1200.A: Regulated Sources List

Unit No.	Source Description	Manufacturer	Model No./ Serial No.	Manufacture Date	Capacity
TA-52-11	Data Disintegrator/ Industrial Shredder	Security Engineered Machinery	1424/11892	9/2002	1200 lb/hr

A1201 Control Equipment – Data Disintegrator **A.** Table 1201.A lists all of the pollution control equipment required for the applicable regulated equipment in this source category. Each emission point is identified by the same number that was assigned to it in the permit application.	No new pollution control equipment has been added to this source category 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?

Table 1201.A: Control Equipment List

Control Equipment Unit No./Location[1]	Control Description	Efficiency	Pollutant being controlled
TA-52-11	Cyclone and cloth tube filters	98.75%	TSP/PM10

1 Control for unit number refers to a unit number from the Regulated Sources List

A1202 Emission Limits – Data Disintegrator **A.** Table 1202.A lists the emission units, and their allowable emission limits. (40 CFR 50; Paragraphs 1, 7, and 8 of 20.2.70.302.A NMAC; NSR Permit 2195H).	Emissions are calculated and reported on a 6- month basis in accordance with permit condition A109.B. 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**

Table 1202.A: Allowable Emissions

Unit No.	TSP pph	TSP tpy	PM10 pph	PM10 tpy
TA-52-11	2.3	9.9	2.3	9.9

1 PM10 and TSP emissions limits are after controls.

A1203 Applicable Requirements – Data Disintegrator **A.** The permittee shall comply with all applicable sections of the requirements listed in Table 1203.A.	LANL Data Disintegrator operations meet requirements of NSR Permit No. 2195H.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Table 1203.A: Applicable Requirements

Applicable Requirements	Federally Enforceable	Unit No.
NSR Permit No: 2195H	X	TA-52-11

A1204 Operational Limitations – Data Disintegrator

A.The Data Disintegrator source category is authorized to operate at any time of the day or night on any day of the year. No monitoring, recordkeeping, or reporting requirements are required to demonstrate compliance with continuous hours of operation

A1207 Other – Data Disintegrator **A.** Emission calculations (Data Disintegrator) **Requirement:** The permittee shall calculate Data Disintegrator emissions based on the records of the number of boxes of media that are destroyed.	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**

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?
Monitoring: The permittee shall monitor the quantity of media destroyed on a monthly basis. The total weight shall be based on a previously determined average box weight. This average weight determination shall be maintained as part of the records for this facility.	A log is kept to monitor the number of boxes of media that are destroyed each month. The average box weight has been determined and is maintained as part of the facility records.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Recordkeeping: The permittee shall calculate the actual emissions rate (tons per reporting period) for the emission units listed in Table 1200.A on a semi-annual basis. The emission rate in tons per year shall be calculated by summing the emissions from the previous reporting period with the current period. Records shall be maintained in accordance with Section B109.	The actual emissions rate is calculated for the emission unit on a semi-annual basis and is included in the semi-annual emissions report. These records are maintained on site. The emission rate in tons per year is calculated by summing the emissions from the previous reporting period with the current period. The emissions are compared to the allowable emissions for the unit.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall submit reports described in Section A109 and in accordance with Section B110.	Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110. See Section A109 in this report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
B. Cyclone/Cloth Tube Filters (Data Disintegrator) **Requirement:** The permittee shall perform regular maintenance and repair on the cyclone and cloth tube filter(s) per manufacturer's recommendations. (NSR Permit 2195H, Specific Condition 1.d.)	Preventative maintenance and repair is performed on the data disintegrator cyclone and cloth tube filters following manufacturer's recommendations.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Monitoring: N/A **Recordkeeping:** 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). (NSR Permit 2195H, Specific Condition 4.a.) Records shall be maintained in accordance with Section B109.	Records of maintenance performed on the unit are available on site. Manufacturer recommended repair and maintenance are also available on site.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall submit reports described in Section A109 and in accordance with Section B110.	Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110. See Section A109 in this report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
C. Compliance Testing (Data Disintegrator) **Requirement:** If any compliance testing is required, it shall be conducted in accordance with EPA Reference Methods 1 through 4, Method 5 for TSP, and conducted in accordance with 450 CFR 60, Appendix	No compliance test was required or performed during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
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. (NSR Permit 2195H, Specific Condition 6.b., revised)				
Monitoring: N/A **Recordkeeping:** The permittee shall maintain records in accordance with Section B109.	No compliance test was required or performed during this certification period. No records have been generated.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall submit reports described in Section A109 and in accordance with Section B110.	Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110. See Section A109 in this report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
A1300 Regulated Sources – TA-3 Power Plant **A.** Table 1300.A lists all of the process equipment authorized for this source category.	No new process equipment has been added to this facility during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Table 1300.A: Regulated Sources List

Unit No.	Source Description	Manufacturer	Model No./ Serial No.	Year of Manufacture	Capacity
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 Iron Works	11804	1952	178.5 MMBtu/hr
TA-3-22-CT-1	Combustion Turbine	Rolls Royce	RB211-6761DLE/	2003	27 MW

A1301 Control Equipment – TA-3 Power Plant **A.** Table 1301.A lists all the pollution control equipment required for this source category. Each emission point is identified by the same number that was assigned to it in the permit application.	No new pollution control equipment has been added to this facility 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?

Table 1301.A: Control Equipment List:

Control Equipment Unit No.	Control Description	Manufacturer	Year of Manufacture	Pollutant being controlled	Control for Unit No.[1]
F-1	Flue Gas Recirculation Fan, 1800 rpm	Robinson Industries	2001	NOx	TA-3-22-1
F-2	Flue Gas Recirculation Fan, 1800 rpm	Robinson Industries	2001	NOx	TA-3-22-2
F-3	Flue Gas Recirculation Fan, 1800 rpm	Robinson Industries	2001	NOx	TA-3-22-3
TA-3-22-CT-1	Rolls-Royce DLE System	Rolls-Royce	2003	NOx	TA-3-22-CT-1

1 Control for unit number refers to a unit number from the Regulated Equipment List

A1302 Emission Limits – TA-3 Power Plant **A.** Table 1302.A lists the emission units, and their allowable emission limits. (40 CFR 50; Paragraphs 1, 7, and 8 of 20.2.70.302.A NMAC; 40 CFR 60, Subparts A and GG; NSR Permit 2195B-M2).	Emissions are calculated and reported on a 6- month basis in accordance with permit condition A109.B. A comparison against the allowable emission limits is performed at each of these reporting periods. Allowable emission limits were not exceeded during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Table 1302.A: Allowable Emissions

Unit No.	NOx[1]		CO		VOC		SOx		TSP		PM10		PM2.5	
	Gas	Oil	Gas	Oil	Gas	Oil	Gas	Oil	Gas	Oil	Gas	Oil	Gas	Oil
TA-3-22-1 (lb/hr)	10.2	11.3	7.0	6.5	1.0	0.3	1.1	9.6	1.3	4.3	1.3	3.0	1.3	2.0
TA-3-22-2 (lb/hr)	10.2	11.3	7.0	6.5	1.0	0.3	1.1	9.6	1.3	4.3	1.3	3.0	1.3	2.0
TA-3-22-3 (lb/hr)	10.2	11.3	7.0	6.5	1.0	0.3	1.1	9.6	1.3	4.3	1.3	3.0	1.3	2.0
Boilers Combined (tpy)	31.5		21.5		2.8		4.9		4.7		4.4		4.2	
TA-3-22-CT-1 (lb/hr)	23.8		29.0		0.6		1.7		1.9		1.9		1.9	
TA-3-22-CT-1 (tpy)	59.4		72.3		1.5		4.2		4.8		4.8		4.8	
TA-3-22-CT-1 (ppm)	25 ppmvd @ 15% O2		N/A		N/A		N/A		N/A		N/A		N/A	

1 Nitrogen dioxide emissions include all oxides of nitrogen expressed as NO_2.

B. NOx emissions (all oxides of nitrogen expressed as NO2) from the boilers (Units TA-3-22-1 through -3) shall not exceed 0.3 lb/MMBtu of heat	Results from source compliance tests performed on the boilers demonstrate that nitrogen dioxide emissions do not exceed 0.3 lbs per MMBtu of heat input.	☐ **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?
input when burning natural gas or oil as required by 20.2.33 and 20.2.34 NMAC. (NSR Permit 2195B-M2, Specific Condition A106.B)		☒ **Intermittent**	☐ **No**	☒ **No**
C. For the Combustion Turbine (Unit TA-3-22-CT-1), the permittee shall comply with the NSPS Subpart GG NOx emissions limitation of 110.4 ppmv at 15% O2, dry basis (40 CFR 63.332(a)(1) and NSR Permit 2195B-M2, Specific Condition A106.C)	The NOx and CO emission concentrations and rates are measured and compared to the allowable emission limit each year. NOx concentrations are well below this limit and below the allowable emissions in table 1302.A. A test report is available on site and is provided to NMED in the semi-annual monitoring report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
D. For the Combustion Turbine (Unit TA-3-22-CT-1), the permittee shall comply with the NSPS Subpart GG SO2 emissions limitation of 0.015% by volume at 15% O2 dry basis or through use of any fuel not exceeding 8000 ppmw total sulfur. (40 CFR 60.333 and NSR Permit 2195B-M2, Specific Condition A106.D)	The Combustion Turbine only uses natural gas. The natural gas transportation contract states that gas provided to LANL will be pipeline quality and contain no more than 3/4 grains of total sulfur per 100 scf, which is just under 26 ppmw.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
A1303 Applicable Requirements – TA-3 Power Plant **A.** The permittee shall comply with all applicable sections of the requirements listed in Table 1303.A.	All units listed in this section comply with the requirements listed in the table.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Table 1303.A: Applicable Requirements

Applicable Requirements	**Federally Enforceable**	**Unit No.**
20.2.33 NMAC Gas Burning Equipment – Nitrogen Dioxide	X	TA-3-22-1 through -3
20.2.34 NMAC Oil Burning Equipment – Nitrogen Dioxide	X	TA-3-22-1 through -3
20.2.61 Smoke and Visible Emissions	X	All combustion sources
40 CFR 60, Subpart A	X	TA-3-22-CT-1
40 CFR 60, Subpart GG	X	TA-3-22-CT-1
NSR Permit No: 2195B-M2	X	All Power Plant sources

A1304 Operational Limitations – TA-3 Power Plant

A.This source category is authorized to operate at any time of the day or night on any day of the year. No monitoring, recordkeeping, or reporting requirements are required to demonstrate compliance with continuous hours of operation

A1305 Fuel Sulfur Requirements – TA-3 Power Plant **A.** Boilers (Units TA-3-22-1 through -3) **Requirement:** External combustion sources at the TA-	The natural gas transportation contract states that gas provided to LANL will be pipeline quality with a total sulfur content of no more than 3/4 grains of total sulfur per 100 scf. Fuel oil is under a purchase contract and only Ultra Low	☐ **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?
3 Power Plant shall combust only natural gas containing no more than 2 gr/100 scf total sulfur or No. 2 fuel oil containing no more than 0.05 wt% total sulfur. (NSR Permit 2195B-M2, Specific Condition A110.A)	Sulfur Diesel (ULSD) is delivered to the facility. ULSD contains less than 0.0015 wt% total sulfur. A copy of the transportation contract and purchase contract are kept on site.			
Monitoring: N/A **Recordkeeping:** The permittee shall demonstrate compliance with the limit on total fuel sulfur content by maintaining records of a current, valid purchase contract, tariff sheet or transportation contract for the gaseous or liquid fuel, or fuel analysis, specifying the fuel grade and certification or allowable sulfur limit. If fuel analysis is used, the analysis shall not be older than one year. Alternatively, compliance may be demonstrated by keeping a receipt or invoice from a commercial fuel supplier with each fuel delivery, which shall include the delivery date, the fuel type delivered, and amount of fuel delivered, and the maximum sulfur content of the fuel.	The natural gas transportation contract states that gas provided to LANL will be pipeline quality with a total sulfur content of no more than 3/4 grains of total sulfur per 100 scf. Fuel oil is under a purchase contract and only Ultra Low Sulfur Diesel (ULSD) is delivered to the facility. ULSD contains less than 0.0015 wt% total sulfur. A copy of the transportation contract and purchase contract are kept on site.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall submit reports described in Section A109 and in accordance with Section B110.	Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110. See Section A109 in this report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
B. Combustion Turbine (Unit TA-3-22-CT-1) **Requirement:** The combustion turbine at the TA-3 Power Plant shall combust only natural gas containing no greater than 2 gr/100 scf total sulfur. (NSR Permit 2195B-M2, Specific Condition A110.B)	The natural gas transportation contract states that gas provided to LANL will be pipeline quality with a total sulfur content of no more than 3/4 grains of total sulfur per 100 scf.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Monitoring: N/A **Recordkeeping:** The permittee shall demonstrate compliance with the limit on total fuel sulfur content by maintaining records of a current, valid purchase contract, tariff sheet or transportation contract for the gaseous fuel, or fuel analysis, specifying the fuel grade and certification or allowable sulfur limit. If fuel analysis is used, the analysis shall not be older than one year. (NSR Permit 2195B-M2, Specific Condition A110.B and 40 CFR 60.334(h))	The natural gas transportation contract states that gas provided to LANL will be pipeline quality with a total sulfur content of no more than 3/4 grains of total sulfur per 100 scf.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall submit reports described in Section A109 and in accordance with Section B110.	Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110. See Section A109 in this report.	☐ **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?
		☒ **Intermittent**	☐ **No**	☒ **No**
A1306 20.2.61 NMAC Opacity – TA-3 Power Plant **A.** Sources Combusting Natural Gas **Requirement:** All combustion units shall not exceed 20% opacity. (NSR Permit 2195B-M2, Specific Condition A111.A)	LANL has certified opacity readers on-site who perform opacity readings using 40 CFR 60, Appendix A, Method 9 to determine compliance with the opacity limitation. The opacity limit was not exceeded during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Monitoring: Use of natural gas fuel meeting the requirement at Condition A1305.A or B constitutes compliance with 20.2.61 NMAC unless opacity exceeds 20% averaged over a 10-minute period. When any visible emissions are observed during steady state operation and are determined to be not due to condensed water vapor only, opacity shall be measured over a 10-minute period, in accordance with the procedures at 40 CFR 60, Appendix A, Method 9 as required by 20.2.61.114 NMAC.	Natural gas fuel meets the requirement at Condition A1305.A and B. The opacity limit was not exceeded during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Recordkeeping: The permittee shall record dates of any opacity measures and the corresponding opacity readings.	A standard form is used for all opacity measurements. The form includes the date of measurement and opacity observed.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall report dates of any opacity measures and the corresponding opacity readings. The permittee shall submit reports described in Section A109 and in accordance with Section B110.	Opacity measurements are included in the semi-annual monitoring reports. Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110. See Section A109 in this report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
B. Boilers Combusting No. 2 Fuel Oil **Requirement:** All combustion units shall not exceed 20% opacity. (NSR Permit 2195B-M2, Specific Condition A111.B)	LANL has certified opacity readers on-site who perform opacity readings using 40 CFR 60, Appendix A, Method 9 to determine compliance with the opacity limitation. The opacity limit was not exceeded during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Monitoring: During steady state operation, opacity shall be measured over a 10-minute period in accordance with the procedures at 40 CFR 60, Appendix A, Method 9 as required by 20.2.61.114 NMAC. Opacity measurements shall be conducted on a quarterly basis per calendar year whenever the boiler(s) are operational during the monitoring period. This requirement is subject to the monitoring provisions of Condition B108.D.	Opacity is read at least once a quarter when boilers are combusting fuel oil and when required by monitoring provisions in condition B108.D. Opacity readings are measured over a 10-minute period and in accordance with 40 CFR 60, Appendix A, Method 9.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Recordkeeping: The permittee shall maintain records of all Method 9 observations, and in accordance with	A standard form is used for all opacity measurements. The form includes the date and time of measurement and opacity	☐ **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?
Section B109.	observed.	☒ **Intermittent**	☐ **No**	☒ **No**
Reporting: The permittee shall report date, time, and results of all Method 9 observations. The permittee shall submit reports described in Section A109 and in accordance with Section B110.	Opacity measurements are included in the semi-annual monitoring reports. Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
A1307 Other – TA-3 Power Plant **A.** Emission calculations (TA-3 Power Plant) **Requirement:** The permittee shall comply with the hourly and annual emission limits at Table1302.A. and Conditions A1302.B, C, and D for the combustion turbine and boilers. The boiler annual emission limit shall be expressed as the combined emissions from all 3 boilers. (NSR Permit 2195B-M2, Specific Condition A801.A)	All emission calculations required by this section are performed for the units listed. The units have not exceeded the hourly and annual emission limits.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Monitoring: The permittee shall perform the following calculations on a monthly basis: **1)** Calculate the average hourly emissions rates (pph) for each emissions unit based on the monthly total fuel consumption and monthly actual hours of operation. **2)** Calculate the actual annual emissions rates (tpy) for all emissions units based on the monthly rolling 12-month total fuel consumption and the monthly rolling 12-month total hours of operation. **3)** All NOx emission rates for the boilers shall also be calculated in terms of lb/MMBtu heat input. (NSR Permit 2195B-M2, Specific Condition A801.A)	Emission spreadsheets are in place for each of the units. These spreadsheets calculate all required emissions and are used for monitoring and reporting purposes. The average hourly emission rates are calculated for each unit. The actual annual emission rates are calculated for each unit. The boiler emission rates are calculated using lb/MMBtu as the units. No emisson limits were exceeded during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Recordkeeping: The permittee shall maintain records in accordance with Section B109.	Records are maintained in accordance with Section B109.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall submit reports described in Section A109 and in accordance with Section B110.	Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110. See Section A109 in this report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
B. Fuel Usage (Boilers, Units TA-3-22-1 through -3) **Requirement:** Combined boiler operation shall not consume more than 1000 MMscf of natural gas and no more than 500,000 gallons of No. 2 fuel oil in any 12-	The combined boiler natural gas use did not exceed the permitted allowable limits in any 12-month period All fuel use data is tracked monthly in a spreadsheet used for emission calculations. Natural gas fuel meters are in place on each of the boilers.	☐ **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?
month period. Volumetric natural gas fuel flow shall be measured using gas flowmeters installed on the natural gas fuel inlet to each respective unit (3 separate gas flowmeters). Fuel oil usage shall be measured using a single inventory meter located at a storage tank that is dedicated for use by the TA-3 power plant boilers. (NSR Permit 2195B-M2, Specific Condition A803.A, revised)	Fuel oil is measured using an inventory meter on the storage tank.			
Monitoring: The liquid fuel flow rate shall be continuously monitored whenever liquid fuel is combusted. The natural gas fuel flow rate for each boiler shall be continuously monitored whenever natural gas is combusted. The hours of operation of each boiler shall be continuously monitored. (NSR Permit 2195B-M2, Specific Condition A803.A, revised)	Both natual gas and fuel oil are continuously monitored when being combusted. Hours of operation of each boiler are continuously monitored. This data is collected monthly from the power plant operations staff.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Recordkeeping: The permittee shall record the monthly total of liquid fuel (gallons) for all boilers combined and gaseous fuel (scf) for each boiler on a monthly basis, to include a monthly total. Annual fuel usage shall be calculated and recorded on a monthly rolling 12-month total basis. The permittee shall record the hours of operation of each boiler on a monthly basis, to include a monthly total. The record shall include the monthly rolling 12-month total hours of operation for all 3 boilers combined. The permittee shall maintain records in accordance with Section B109. (NSR Permit 2195B-M2, Specific Conditon A803.A, revised)	A monthly and 12 month rolling total of both natural gas and fuel oil use are recorded and reviewed monthly to verify usage does not exceed allowable limits. The 12 month rolling totals for each fuel are provided in LANL's Semi-Annual Monitoring Report. Total hours of operation of each boiler are recorded monthly and included in a monthly rolling 12-month total hours for all boilers combined.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall submit reports described in Section A109 and in accordance with Section B110.	Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110. See Section A109 in this report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
C. Fuel Usage (Combustion Turbine, Unit TA-2-22-CT-1) **Requirement:** The combustion turbine shall not consume more than 1400 MMscf of natural gas in any 12-month period. Volumetric flow shall be measured using a gas fuel flowmeter installed on the fuel inlet of the combustion turbine. (NSR Permit 2195B-M2, Specific Condition A802.A)	A 12 month rolling total for natural gas use is maintained and reviewed to verify usage does not exceed 1400 MMscf. The rolling total is provided in LANL's Semi-Annual Monitoring Report. The natural gas flowmeter is installed on the turbine inlet.	☐ **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?
Monitoring: The natural gas fuel flow rate for the combustion turbine shall be continuously monitored whenever natural gas is combusted. (NSR Permit 2195B-M2, Specific Condition A802.A)	The fuel flowmeter continuously measures natural gas being delivered to the combustion turbine.	☒ **Continuous** ☐ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Recordkeeping: The permittee shall record the daily total of gaseous fuel (scf) for the turbine on a monthly basis, to include a monthly total. Annual fuel usage shall be calculated and recorded on a monthly rolling 12-month total basis. The permittee shall record the daily hours of operation of the combustion turbine on a monthly basis, to include a monthly total. The record shall include the monthly total hours and monthly rolling 12-month total hours of operation. The permittee shall maintain records in accordance with Section B109. (NSR Permit 2195B-M2, Specific Condition A802.A)	The daily and monthly total fuel use is collected and recorded monthly in a spreadsheet used for calculating emissions. This data is used to calculate the 12-month rolling total fuel use. Daily hours are also collected monthly and entered into the spreadsheet. A 12-month rolling total hours of operation is calculated using this information.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall submit reports described in Section A109 and in accordance with Section B110.	Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110. See Section A109 in this report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
D. Load Requirement (Combustion Turbine, Unit TA-3-22-CT-1) **Requirement:** The combustion turbine shall be operated at no less than 80% and no greater than 100% load as determined by the manufacturer's supplied algorithm, except for minimal periods during startup and shutdown conditions. The permittee shall follow the manufacturer's recommended startup/shutdown procedures in order to minimize the duration of these events. (NSR Permit 2195B-M2, Specific Condition A802.B)	The combustion turbine load was maintained between 80% and 100% during this certification period. Load range is calculated by the turbine operating system and is manually recorded during each operation. Startup/shutdown procedures are in place and are followed by the unit operators.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Monitoring: The operating load of the combustion turbine shall be monitored once daily during normal operations of that unit. (NSR Permit 2195B-M2, Specific Condition A802.B)	The load is recorded at least once daily during normal operations. This data is collected in a record maintained on site.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Recordkeeping: The permittee shall record the daily monitored operating load for the combustion turbine. The permittee shall maintain a record of the manufacturer's recommended startup/shutdown procedure and the manufacturer's criteria for the determination of turbine load. The permittee shall	The load is recorded at least once daily during normal operations. This data is collected in a record maintained on site. Startup/shutdown procedures are in place and are followed by the unit operators.	☐ **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?
maintain a record for each startup/shutdown or malfunction event for the combustion turbine. The record shall include the date, the start/end time and duration for each event, which is defined as the length of time the combustion turbine is operating at less than 80% or greater than 100% load. For any malfunction event, the record shall also include the nature of the malfunction and any corrective action taken. The permittee shall maintain records in accordance with Section B109. (NSR Permit 2195B-M2, Specific Condition A802.B)	Each time the unit is started or shut down the data is entered into a manual log which is maintained on site. The record includes the date, start/end times, and duration. The unit did not operate outside of the required load range during this certification period. No malfunctions occurred during this certification period.			
Reporting: The permittee shall submit reports described in Section A109 and in accordance with Section B110.	Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110. See Section A109 in this report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
E. Control Device Operation (Boilers, Units TA-3-22-1 through -3) **Requirement:** Each boiler (Units TA-3-22-1 through -3) shall only be operated with a properly operating flue gas recirculation fan (Units F-1 through -3, respectively). Any malfunction of the flue gas recirculation system during boiler operation may be subject to the excess emissions requirements of 20.2.7 NMAC. (NSR Permit 2195B-M2, Specific Condition A803.B)	When a boiler is in operation, the associated FGR fan is operating. A fan speed indicator is located on the control panel in operator control room. This fan speed is monitored and recorded during boiler operation. No malfunctions of the FGR systems occurred during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Monitoring: The flue gas recirculating fans shall be inspected for proper operation and maintenance once during each calendar month that the unit was operating. (NSR Permit 2195B-M2, Specific Condition A803.B)	The FGR fans are inspected for proper operation and maintenance each month the unit is operating.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Recordkeeping: The permittee shall record all inspections of the flue gas recirculating fans and any event during which a fan malfunctions. The record shall include the date, time, name of operator conducting the inspection, and any discrepancies noted. For malfunction events, the record shall also include the nature and duration of the malfunction, and any corrective action taken. The permittee shall maintain records in accordance with Section B109. (NSR Permit 2195B-M2, Specific Condition A803.B)	Records of inspection and maintenance of the FGR fans are completed monthly. No malfunctions occurred during this certification period. All inspection records contain the required data found in this section.	☐ **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: The permittee shall submit reports described in Section A109 and in accordance with Section B110.	Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110. See Section A109 in this report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
F. Control Device Operation (Combustion Turbine, Unit TA-3-22-CT-1) **Requirement:** The combustion turbine shall be equipped with Rolls-Royce Dry Low Emissions (DLE) control technology (pre-mix, lean-burn series staged combustion system) to control NOx emissions. (NSR Permit 2195B-M2, Specific Condition A802.C)	The Dry Low Emissions (DLE) control technology is an integral part of the combustion turbine design. The DLE control was evaluated during unit start-up and determined to be working as designed.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Monitoring: N/A **Recordkeeping:** The permittee shall maintain a record of the DLE system associated with the combustion turbine. The permittee shall maintain records in accordance with Section B109. (NSR Permit 2195B-M2, Specific Condition A802.C)	Manufacturer data is available on the DLE system.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall submit reports described in Section A109 and in accordance with Section B110.	Emission and monitoring reports are submitted on a 6-month basis in accordance with permit condition A109 and B110. See Section A109 in this report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
G. 40 CFR 60, Subparts A and GG (Combustion Turbine, Unit TA-3-22-CT-1) **Requirement:** The combustion turbine is subject to 40 CFR 60, Subpart GG and the permittee shall comply with the applicable requirements of 40 CFR 60, Subpart A and Subpart GG. (NSR Permit 2195B-M2, Specific Condition A802.D)	The combustion turbine is in compliance with 40 CFR Part 60 Subpart A and 40 CFR Part 60 Subpart GG.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Monitoring: The permittee shall comply with the monitoring and testing requirements of 40 CFR 60.334 and 60.335. (NSR Permit 2195B-M2, Specific Condition A802.D)	The combustion turbine is in compliance with the monitoring and test requirements of 40 CFR 60.334 and 60.335.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Recordkeeping: The permittee shall comply with the recordkeeping requirements of 40 CFR 60.334 and 40 CFR 60.7. (NSR Permit 2195B-M1-R2, Specific Condition A802.D)	The combustion turbine is in compliance with the record keeping requirements of 40 CFR 60.334 and 60.7.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall comply with the reporting requirements of 40 CFR 60.7. (NSR Permit 2195B-M1-R2, Specific Condition A802.D)	The combustion turbine is in compliance with the reporting requirements of 40 CFR 60.7.	☐ **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?
H. Portable Analyzer Testing (Combustion Turbine, Unit TA-3-22-CT-1) **Requirement:** The permittee shall comply with the allowable emission limits at Table A1302.A, including the NOx ppmv limitation. (NSR Permit 2195B-M2, Specific Condition A802.E)	The annual test for this certification period was delayed 30 days due to delays is securing equipment and stack testing contracts during the lapse in federal funding in October 2013. NMED AQB issued a 30 day extension to LANL for completing this annual test. The test was completed on January 10, 2014.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Monitoring: The permittee shall test using a portable analyzer subject to the requirements and limitations of Section B108, General Monitoring Requirements. Periodic testing for NOx and CO shall be carried out as described below. Test results that demonstrate compliance with the NOx and CO emission limits shall also be considered to demonstrate compliance with the VOC, SO2, TSP, PM10, and PM2.5 emission limits. **1)** The test period shall be annually. **2)** All subsequent monitoring shall occur in each succeeding monitoring period. No two monitoring events shall occur closer together in time than 25% of a monitoring period. **3)** Monitoring shall be conducted during each monitoring period notwithstanding the Condition B108.D requirements for periods of operation less than 25%. Follow the General Testing Procedures of Section B111. (NSR Permit 2195B-M2, Specific Condition A802.E)	The test was performed as required following the monitoring requirements of Section B108. Test results demonstrated compliance with NOx and CO emission limits. The test was performed on January 10, 2014 which was within 30 days of the end of the year based on the approved extension from NMED AQB.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Recordkeeping: The permittee shall maintain records in accordance with Section B109. The permittee shall also record the results of the periodic emissions tests, including the turbine's fuel flow rate and load at the time of the test, and the type of fuel fired (natural gas with the heating value and sulfur content specified). If a combustion analyzer is used to measure NOx, CO, and/or excess air in the exhaust gas, records shall be kept of the make and model of the instrument and instrument calibration data. If an ORSAT apparatus or other gas absorption analyzer is used, the permittee shall record all calibration results.	Records of the periodic emissions test will include all data required by this section. All data will be included in the final test report which is provided to NMED-AQB as part of the semi-annual monitoring report. A combustion analyser is used for this periodic emissions test. Instrument and calibration data are included in the final test report. An ORSAT or other similar gas absorption analyzer was not used. Raw data and calculations will be included in the final test report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

1. Permit Condition # and Permit Condition:	2. Method(s) or other information or other facts used to determine the compliance status:	3. What is the frequency of data collection used to determine compliance?	4. Was this facility in compliance with this requirement during the reporting period?	5. Were there any deviations associated with this requirement during the reporting period?
The permittee shall also keep records of all raw data used to determine exhaust gas flow and of all calculations used to determine flow rates and mass emissions rates. (NSR Permit 2195B-M2, Specific Condition A802.E)				
Reporting: The permittee shall submit reports described in Section A109 and in accordance with Section B110.	Emission and monitoring reports are submitted on a 6-month basis in accordance with permit conditions A109 and B110. See Section A109 in this report.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
A1400 Regulated Sources – Open Burning **A.** Table 1400.A lists all of the process equipment authorized for this source category.	No open burning occurred during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Table 1400.A: Regulated Sources List

Unit No./Location	Source Description
Facility-Wide Open Burning	All open lands within LANL property boundary

A1402 Emission Limits – Open Burning **A.** Table 1402.A lists the emission units, and their allowable emission limits. (40 CFR 50; Paragraphs 1, 7, and 8 of 20.2.70.302.A NMAC; 20.2.60 NMAC; 20.2.65 NMAC).	No open burning occurred during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Table1402.A: Allowable Emissions

Unit No.	Individual HAP[1] (tpy)	Total HAPs[1] (tpy)
Facility-Wide Open Burning	8.0	24.0

1 Individual and Total HAPs emitted by Open Burning are included in the facility-wide HAP emission limits at Table 106.B.

A1403 Applicable Requirements – Open Burning **A.** The permittee shall comply with all applicable sections of the requirements listed in Table 1403.A.	No open burning occurred during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

Table 1503.A: Applicable Requirements

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?

Applicable Requirements	Federally Enforceable	Unit No.
20.2.60 NMAC Open Burning	X	Facility-Wide Open Burning
20.2.65 NMAC Smoke Management	X	Facility-Wide Open Burning

A1404 Operational Limitations – Open Burning

A.This source category is authorized to operate at any time of the day or night on any day of the year. No monitoring, recordkeeping, or reporting requirements are required to demonstrate compliance with continuous hours of operation.

A1407 Other – Open Burning **A.** Operational **Requirement:** The permittee shall comply with the applicable requirements of 20.2.60 NMAC and 20.2.65 NMAC, including, but not limited to: **1)** Prior to initiating a burn consisting of vegetative material, the permittee shall submit to the Department a sampling and analysis plan and upon approval conduct representative sampling of the intended burn material and analyze samples for radionuclides, target analyte list (TAL) inorganic elements, polychlorinated biphenyls (PCBs), and high explosives (HE); and **2)** The permittee shall submit to the Department a background concentration report for the contaminants listed in Condition A1407.A, Requirement (1). The report shall indicate locations where background concentrations were taken and compare sample results with background concentrations of the constituents; and **3)** The permittee shall not burn vegetative material which includes any contaminant above the relevant background concentration; and **4)** Upon receiving Department approval, the permittee shall conduct public notification in a display ad in at least four newspapers: Los Alamos Monitor,	No open burning occurred 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?
Rio Grande Sun, Santa Fe New Mexican, and the Albuquerque Journal, no less than 21 days in advance of a planned burn.				
Monitoring: The permittee shall monitor all open burning as required by Department regulation or burn approval.	No open burning occurred during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Recordkeeping: The permittee shall maintain records of all sampling and analysis plans and any representative sampling conducted. Records shall be kept in accordance with Section B109.	No open burning occurred during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**
Reporting: The permittee shall submit reports as outlined in the Condition 1407.A Requirements, as described in Section A109, and in accordance with Section B110.	No open burning occurred during this certification period.	☐ **Continuous** ☒ **Intermittent**	☒ **Yes** ☐ **No**	☐ **Yes** ☒ **No**

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1. **Have these General Conditions been met during this reporting period.** ***If the section Heading is marked as N/A no remarks are required.*** ***Check only one box per subject heading.*** ***Explain answers in remarks row under subject heading.***	2. Was this facility in compliance with this requirement during the reporting period?		3. Does not apply
B100 Introduction A. N/A	☐ Yes Explain Below	☐ **No** Explain Below	☒ **N/A** Explain Below
REMARKS: No specific requirements.			
B101 Legal **A. Permit Terms and Conditions (20.2.70 sections 7, 201.B, 300, 301.B, 302, 405 NMAC)** (1) The permittee shall abide by all terms and conditions of this permit, except as allowed under Section 502(b)(10) of the federal Act, and 20.2.70.302.H.1 NMAC. Any permit noncompliance is grounds for enforcement action, and significant or repetitious noncompliance may result in termination of this permit. Additionally, noncompliance with federally enforceable conditions of this permit constitutes a violation of the federal Act. (20.2.70.302.A.2.a NMAC) (2) Emissions trading within a facility (20.2.70.302.H.2 NMAC) (a) The department shall, if an applicant requests it, issue permits that contain terms and conditions allowing for the trading of emissions increases and decreases in the permitted facility solely for the purpose of complying with a federally enforceable emissions cap that is established in the permit in addition to any applicable requirements. Such terms and conditions shall include all terms and conditions required under 20.2.70.302 NMAC to determine compliance. If applicable requirements apply to the requested emissions trading, permit conditions shall be issued only to the extent that the applicable requirements provide for trading such increases and decreases without a case-by-case approval. (b) The applicant shall include in the application proposed replicable procedures and permit terms that ensure the emissions trades are quantifiable and enforceable. The department shall not include in the emissions trading provisions any emissions units for which emissions are not quantifiable or for which there are no replicable procedures to enforce the emissions trades. The permit shall require compliance with all applicable requirements. (3) It shall not be a defense for the permittee in an enforcement action to claim that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. (20.2.70.302.A.2.b NMAC) (4) If the Department determines that cause exists to modify, reopen and revise, revoke and reissue, or terminate this permit, this shall be done in accordance with 20.2.70.405 NMAC. (20.2.70.302.A.2.c NMAC) (5) 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. (20.2.70.302.A.2.f NMAC) (6) A request by the permittee that this permit be modified, revoked and reissued, or terminated, or a notification by the permittee of planned changes or anticipated noncompliance, shall not stay any conditions of this permit. (20.2.70.302.A.2.d NMAC) (7) This permit does not convey property rights of any sort, or any exclusive privilege. (20.2.70.302.A.2.e NMAC) (8) In the case where an applicant or permittee has submitted information to the Department under a claim of	☒ Yes Explain Below	☐ **No** Explain Below	☐ **N/A** Explain Below

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confidentiality, the Department may also require the applicant or permittee to submit a copy of such information directly to the Administrator of the EPA. (20.2.70.301.B NMAC) (9) The issuance of this permit, or the filing or approval of a compliance plan, does not relieve the permittee from civil or criminal liability for failure to comply with the state or federal Acts, or any applicable state or federal regulation or law. (20.2.70.302.A.6 NMAC and the New Mexico Air Quality Control Act NMSA 1978, Chapter 74, Article 2) (10) If any part of this permit is challenged or held invalid, the remainder of the permit terms and conditions are not affected and the permittee shall continue to abide by them. (20.2.70.302.A.1.d NMAC) (11) A responsible official (as defined in 20.2.70.7.AD NMAC) shall certify the accuracy, truth and completeness of every report and compliance certification submitted to the Department as required by this permit. These certifications shall be part of each document. (20.2.70.300.E NMAC) (12) Revocation or termination of this permit by the Department terminates the permittee's right to operate this facility. (20.2.70.201.B NMAC) (13) The permittee shall continue to comply with all applicable requirements. For applicable requirements that will become effective during the term of the permit, the permittee shall meet such requirements on a timely basis. (Sections 300.D.10.c and 302.G.3 of 20.2.70 NMAC) **B. Permit Shield (20.2.70.302.J NMAC)** (1) Compliance with the conditions of this permit shall be deemed to be compliance with any applicable requirements existing as of the date of permit issuance and identified in Table 103.A. The requirements in Table 103.A are applicable to this facility with specific requirements identified for individual emission units. (2) The Department has determined that the requirements in Table 103.B as identified in the permit application are not applicable to this source, or they do not impose any conditions in this permit. (3) This permit shield does not extend to administrative amendments, to minor permit modifications, to changes made under Section 502(b)(10) of the federal Act, or to permit terms for which notice has been given to reopen or revoke all or part. (4) This permit shall, for purposes of the permit shield, identify any requirement specifically identified in the permit application or significant permit modification that the department has determined is not applicable to the source, and state the basis for any such determination. (20.2.70.302.A.1.f NMAC)			
REMARKS: LANL operations were in compliance with all terms and conditions of the permit during this certification period. There was no emissions trading at this facility during this certification period. A compliance inspection by NMED-Air Quality Bureau was conducted on September 24, 2013. Information was requested by the inspector to verify compliance. Requested information and documentation was provided. No additional requests for information were made by the Department during this certification period. All required reports and compliance certifications were certified by the Responsible Official.			
B102 Authority A. This permit is issued pursuant to the federal Clean Air Act ("federal Act"), the New Mexico Air Quality Control Act ("state Act") and regulations adopted pursuant to the state and federal Acts, including Title 20, New Mexico Administrative Code, Chapter 2, Part 70 (20.2.70 NMAC) - Operating Permits. B. This permit authorizes the operation of this facility. This permit is valid only for the named permittee, owner, and operator. A permit modification is required to change any of those entities. C. The Department specifies with this permit, terms and conditions upon the operation of this facility to assure compliance with all applicable requirements, as defined in 20.2.70 NMAC at the time this permit is issued.	☒ Yes Explain Below	☐ **No** Explain Below	☐ **N/A** Explain Below

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(20.2.70.302.A.1 NMAC) D. Pursuant to the New Mexico Air Quality Control Act NMSA 1978, Chapter 74, Article 2, all terms and conditions in this permit, including any provisions designed to limit this facility's potential to emit, are enforceable by the Department. All terms and conditions are enforceable by the Administrator of the United States Environmental Protection Agency ("EPA") and citizens under the federal Act, unless the term or condition is specifically designated in this permit as not being enforceable under the federal Act. (20.2.70.302.A.5 NMAC. E. The Department is the Administrator for 40 CFR Parts 60, 61, and 63 pursuant to the delegation and exceptions of section 10 of 20.2.77 NMAC (NSPS), 20.2.78 NMAC (NESHAP), and 20.2.82 NMAC (MACT).			
REMARKS: LANL operations were in compliance with all terms and conditions of the permit during this certification period.			
B103 Annual Fee A. The permittee shall pay Title V 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. (20.2.70.302.A.1.e NMAC)	☒ Yes Explain Below	☐ **No** Explain Below	☐ **N/A** Explain Below
REMARKS: Title V fees were submitted to NMED on May 3, 2013 (Reference Letter ENV-ES-13-0106).			
B104 Appeal Procedures (20.2.70.403.A NMAC) A. Any person who participated in a permitting action before the Department and who is adversely affected by such permitting action, may file a petition for a hearing before the Environmental Improvement Board ("board"). The petition shall be made in writing to the board within thirty (30) days from the date notice is given of the Department's action and shall specify the portions of the permitting action to which the petitioner objects, certify that a copy of the petition has been mailed or hand-delivered, and attach a copy of the permitting action for which review is sought. Unless a timely request for a hearing is made, the decision of the Department shall be final. The petition shall be copied simultaneously to the Department upon receipt of the appeal notice. If the petitioner is not the applicant or permittee, the petitioner shall mail or hand-deliver a copy of the petition to the applicant or permittee. The Department shall certify the administrative record to the board. Petitions for a hearing shall be sent to: Secretary, New Mexico Environmental Improvement Board 1190 St. Francis Drive, Runnels Bldg. Rm N2153 P.O. Box 5469 Santa Fe, New Mexico 87502	☐ Yes Explain Below	☐ **No** Explain Below	☒ **N/A** Explain Below
REMARKS: No petitions regarding LANL Permit P100R1M3 were filed during this certification period.			

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B105 Submittal of Reports and Certifications	☒ Yes Explain Below	☐ **No** Explain Below	☐ **N/A** Explain Below
A. Stack Test Protocols and Stack Test Reports shall be submitted electronically to Stacktest.AQB@state.nm.us. B. Excess Emission Reports shall be submitted electronically to eereports.aqb@state.nm.us. (20.2.7.110 NMAC) C. Compliance Certification Reports, Semi-Annual monitoring reports, compliance schedule progress reports, and any other compliance status information required by this permit shall be certified by the responsible official and submitted to: Manager, Compliance and Enforcement Section New Mexico Environment Department Air Quality Bureau 1301 Siler Road, Building B Santa Fe, NM 87507-3113 D. Compliance Certification Reports shall also be submitted to the Administrator at the address below (20.2.70.302.E.3 NMAC): Chief, Air Enforcement Section US EPA Region-6, 6EN-AA 1445 Ross Avenue, Suite 1200 Dallas, TX 75202-2733			

REMARKS:

A. A 30 day extension (to January 31, 2014) to the annual stack testing requirement for the TA-3 combustion turbine was granted by NMED on November 4, 2013. This test was completed on January 10, 2014. All stack test protocols and stack test reports will be submitted as specified.
B. There were no excess emissions during this certification period.
C and D. All required compliance certifications and semi-annual emissions and monitoring reports were submitted to NMED and EPA on time as required.

B106 NSPS and/or MACT Startup, Shutdown, and Malfunction Operations	☒ Yes Explain Below	☐ **No** Explain Below	☐ **N/A** Explain Below
A. If a facility is subject to a NSPS standard in 40 CFR 60, each owner or operator that installs and operates a continuous monitoring device required by a NSPS regulation shall comply with the excess emissions reporting requirements in accordance with 40 CFR 60.7(c). B. If a facility is subject to a NSPS standard in 40 CFR 60, then in accordance with 40 CFR 60.8(c), emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction shall not be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. C. If a facility is subject to a MACT standard in 40 CFR 63, then the facility is subject to the requirement for a Startup, Shutdown and Malfunction Plan (SSM) under 40 CFR 63.6(e)(3). (20.2.70.302.A.1 and A.4 NMAC)			

REMARKS:

A. LANL operates equipment subject to 40 CFR 60, however no continuous monitoring is required.
B. There were no excess emissions during SSM during this certificationn period.
C. LANL operates equipment subject to 40 CFR 63, however SSM plans are not required. (Halogenated solvent cleaner, Subpart T overrides the requirement in 40 CFR 63.6(e)(3)).

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B107 Startup, Shutdown, and Maintenance Operations A. The permittee shall operate in accordance with the procedures set forth in the plan to minimize emissions during routine or predictable start up, shut down, and scheduled maintenance (SSM work practice plan), except for operations or equipment subject to condition B106 above. (20.2.7.14.A NMAC)	☐ Yes Explain Below	☐ **No** Explain Below	☒ **N/A** Explain Below
REMARKS: Per Permit Condition A107 - Allowable SSM emissions limits are not imposed at this time. All SSM emissions are within or less than standard operating emission levels. LANL sources do not have increased emissions during routine or predictable startup, shutdown, or maintenance, which require a plan under 20.2.7.14.A. No permit limit or applicable threshold was exceeded during this certification period. Operating procedures are in place to minimize emissions during SSM events.			
B108 General Monitoring Requirements (20.2.70. 302.A and C NMAC) A. These requirements do not supersede or relax requirements of federal regulations. B. The following monitoring and/or testing requirements shall be used to determine compliance with applicable requirements and emission limits. Any sampling, whether by portable analyzer or EPA reference method, that measures an emission rate over the applicable averaging period greater than an emission limit in this permit constitutes 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; but 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. C. If the emission unit is shutdown at the time when periodic monitoring is due to be accomplished, the permittee is not required to restart the unit for the sole purpose of performing the monitoring. Using electronic or written mail, the permittee shall notify the Department's Enforcement Section of a delay in emission tests prior to the deadline for accomplishing the tests. Upon recommencing operation, the permittee shall submit any pertinent pre-test notification requirements set forth in the current version of the Department's Standard Operating Procedures For Use Of Portable Analyzers in Performance Test, and shall accomplish the monitoring. D. The requirement for monitoring during any monitoring period is based on the percentage of time that the unit has operated. However, to invoke monitoring exemptions at B108.D(2), hours of operation shall be monitored and recorded. (1) If the emission unit has operated for more than 25% of a monitoring period, then the permittee shall conduct monitoring during that period. (2) If the emission unit has operated for 25% or less of a monitoring period then the monitoring is not required. After two successive periods without monitoring, the permittee shall conduct monitoring during the next period regardless of the time operated during that period, except that for any monitoring period in which a unit has operated for less than 10% of the monitoring period, the period will not be considered as one of the two successive periods. (3) A minimum of one of each type of monitoring activity shall be conducted during the five year term of this permit. E. The permittee is not required to report a deviation for any monitoring or testing in a Specific Condition if the deviation was authorized in this General Condition B108. F. For all periodic monitoring events, except when a federal or state regulation is more stringent, three test runs shall be conducted at 90% or greater of the unit's capacity as stated in this permit, or in the permit application if not in the permit, and at additional loads when requested by the Department. If the 90% capacity cannot be achieved, the	☒ Yes Explain Below	☐ **No** Explain Below	☐ **N/A** Explain Below

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monitoring will be conducted at the maximum achievable load under prevailing operating conditions except when a federal or state regulation requires more restrictive test conditions. The load and the parameters used to calculate it shall be recorded to document operating conditions and shall be included with the monitoring report. G. When requested by the Department, the permittee shall provide schedules of testing and monitoring activities. Compliance tests from previous NSR and Title V permits may be re-imposed if it is deemed necessary by the Department to determine whether the source is in compliance with applicable regulations or permit conditions. H. Monitoring shall become effective 120 days after the date of permit issuance if the monitoring is new or in addition to monitoring imposed by an existing applicable requirement. Any pre-existing monitoring requirements incorporated in this permit shall continue to be in force from the date of permit issuance.			

REMARKS:

A. A 30 day extension (to January 31, 2014) to the annual stack testing requirement for the TA-3 combustion turbine was granted by NMED on November 4, 2013. This test was completed on January 10, 2014.

Opacity readings were taken at the asphalt plant monthly when the plant was operating. All testing and monitoring was completed in compliance with all requirements. Section B108.D(2) of the permit allows reduced frequency of opacity monitoring if the unit operates less than 10% of the monitoring period (calendar quarter). The applicable CI-RICE units operated less than 10% of each monitoring period (less than 219 hours each quarter) during this certification period. If the unit operates greater than 10% of the monitoring period, the unit will have an opacity observation performed on it, otherwise an opacity observation will be performed within 5 years of the issuance date of the current operating permit P100-R1-M3. Any opacity observations performed on the unit will be included in the semi-annual monitoring reports.

B109 General Recordkeeping Requirements (20.2.70.302.D.1 NMAC)	☒ Yes Explain Below	☐ **No** Explain Below	☐ **N/A** Explain Below
A. All sampling and measured data required by this permit for the emissions units in this facility shall be recorded. The minimum information to be included in these records is: (1) equipment identification (include make, model and serial number for all tested equipment and emission controls); (2) date(s) and time(s) of sampling or measurements; (3) date(s) analyses were performed; (4) the company or entity or qualified individual that performed the analyses; (5) analytical or test methods used; (6) results of analyses or tests; and (7) operating conditions existing at the time of sampling or measurement. B. The permittee shall keep copies of all records of monitoring and measurement data, equipment calibration and maintenance, Data Acquisition and Handling System (DAHS) if used, 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 written. Each record shall show clearly to which emissions unit and/or piece of monitoring equipment it applies, and the date the data was gathered. (20.2.70.302.D.2 NMAC) C. If the permittee has applied and received approval for an alternative operating scenario, then the permittee shall maintain a log at the facility, which documents, contemporaneously with any change from one operating scenario to another, the scenario under which the facility is operating. (20.2.70.302.A.3 NMAC) D. 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. (20.2.70.302.I.2 NMAC) E. Routine and predictable emissions during startup, shutdown, and scheduled maintenance (SSM):			

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(1) The permittee shall keep records of all events subject to the plan to minimize emissions during routine or predictable SSM. (20.2.7.14.A NMAC) (2) If the facility has allowable SSM emission limits in this permit, the permittee shall record all SSM events, including the date, the start time, the end time, and a description of the event. This record also shall include a copy of the manufacturer's, or equivalent, documentation showing that any maintenance qualified as scheduled. Scheduled maintenance is an activity that occurs at an established frequency pursuant to a written protocol published by the manufacturer or other reliable source.			
REMARKS: A and B. Records are maintained for all required sampling activities and measured data. These records are available on site. The primary measuring activities applicable to this section are the visible emissions evaluations and emissions stack testing. C and D. No alternative operating scenarios, or off permit changes occurred at this facility during this certification period. E. Per Permit Condition A 107 - Allowable SSM emission limits are not imposed at this time. All SSM emissions are at or below standard operating emission limits. LANL sources do not have increased emissions during routine or predictable startup, shutdown, or maintenance, which require a plan under 20.2.7.14.A. No permit limit or applicable threshold was exceeded during this certification period. Operating procedures are in place to minimize emissions during SSM events.			
B110 General Reporting Requirements (20.2.70.302.E NMAC) A. Reports of all required monitoring activities for this facility shall be submitted to the Department on the schedule in section A109. B. Reports shall clearly identify the subject equipment showing the emission unit ID number according to this operating permit. In addition, all instances of deviations from permit requirements, including those that occur during emergencies, shall be clearly identified in the reports required by section A109. (20.2.70.302.E.1 NMAC) C. The permittee shall submit reports of all deviations from permit requirements, including those attributable to upset conditions as defined in the permit, the probable cause of such deviations, and any corrective actions or preventive measures taken. These reports shall be contained in the semi-annual reports required in section A109. (20.2.70.302.E.2 NMAC) D. The permittee shall submit reports of excess emissions in accordance with 20.2.7.110.A NMAC. E. Results of emission tests and monitoring for each pollutant (except opacity) shall be reported in pounds per hour (unless otherwise specified) and tons per year. Opacity shall be reported in percent. Reported numerical values shall not be truncated or rounded, and shall be recorded and reported to the number of significant figures corresponding to the full accuracy inherent in the testing instrument or Method test used to obtain the data. Upon request by the Department, CEMS and other tabular data shall be submitted in editable, MS Excel format. F. At such time as new units are installed as authorized by the applicable NSR Permit, the permittee shall fulfill the notification requirements in the NSR permit. G. Periodic Emissions Test Reporting: The permittee shall report semi-annually a summary of the test results. H. The permittee shall submit an emissions inventory for this facility annually. The emissions inventory shall be submitted by the later of April 1 or within 90 days after the Department makes such request. (20.2.73 NMAC and 20.2.70.302.A.1 NMAC) I. Emissions trading within a facility (20.2.70.302.H.2 NMAC) (1) For each such change, the permittee shall provide written notification to the department and the administrator at least seven (7) days in advance of the proposed changes. Such notification shall state when the change will occur and shall	☒ Yes Explain Below	☐ **No** Explain Below	☐ **N/A** Explain Below

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describe the changes in emissions that will result and how these increases and decreases in emissions will comply with the terms and conditions of the permit. (2) The permittee and department shall attach each such notice to their copy of the relevant permit. J. Non-NSPS or non-MACT monitoring and recordkeeping requirements shall be maintained on-site and summarized in the semi-annual reports, unless alternative reporting requirements are specified in the equipment specific requirements section of this permit.			
REMARKS: A and B. Monitoring reports are submitted on a 6-month basis. LANL submitted monitoring reports to NMED on February 12, 2013 and August 9, 2013. C and D. No deviations and no excess emissions occurred during this certification period. E. Emission tests and monitoring results are reported in pounds per hour and tons per year. Opacity readings are reported in percent. F. All notification requirements under NSR permits have been met. G. A summary of emission stack test results is included in the semi-annual monitoring reports. H. The annual emission inventory required under 20.2.73 NMAC was submitted electronically via NMED's online reporting tool, AEIR, on March 27, 2013. I. There was no emisions trading during this certification period. J. All non-NSPS and non-MACT monitoring and recordkeeping is maintained on-site and is summarized in the semi-annual monitoring reports.			
B111 General Testing Requirements A. EPA Reference Method Tests (1) All compliance tests required by this permit, unless otherwise specified by Specific Conditions of this permit, shall be conducted in accordance with the requirements of 40 CFR 60, Subpart A, General Provisions, and the following EPA Reference Methods as specified by 40 CFR 60, Appendix A: (a) Methods 1 through 4 for stack gas flowrate (b) Method 5 for TSP (c) Method 6C and 19 for SO2 (d) Method 7E for NOX (test results shall be expressed as nitrogen dioxide (NO2) using a molecular weight of 46 lb/lb-mol in all calculations (each ppm of NO/NO2 is equivalent to 1.194 x 10-7 lb/SCF) (e) Method 9 for opacity (f) Method 10 for CO (g) Method 19 may be used in lieu of Methods 1-4 for stack gas flowrate upon approval of the Department. A justification for this proposal must be provided along with a contemporaneous fuel gas analysis (preferably on the day of the test) and a recent fuel flow meter calibration certificate (within the most recent quarter). (h) Method 7E or 20 for Turbines per 60.335 or 60.4400 (i) Method 29 for Metals (j) Method 201 for filterable PM10 (k) Method 202 for condensable PM (l) Method 320 for organic Hazardous Air Pollutants (HAPs) (m) Method 25A for VOC reduction efficiency (2) Alternative test method(s) may be used if the Department approves the change. B. Portable Analyzer Requirements (1) The permittee shall follow the SOP for Use of Portable Analyzers in Performance Tests posted to NMED's Air Quality web site under Compliance and Enforcement/Testing. (2) A portable analyzer that is used for periodic emissions tests must meet the requirements of ASTM D 6522 – 00. However, if a facility has met a previously approved Department criterion for portable analyzers, the analyzer may be	☒ Yes Explain Below	☐ **No** Explain Below	☐ **N/A** Explain Below

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used until it is replaced. (3) The portable emissions analyzer shall be setup and operated in accordance with the manufacturer's instructions, with the requirements of ASTM D-6522-00, or with the criterion of an analyzer previously approved by the Department. (4) During emissions tests, pollutant, O2 concentration and fuel flow rate shall be monitored and recorded. This information shall be included with the test report furnished to the Department. (5) Pollutant emission rate shall be calculated in accordance with 40 CFR 60, Appendix A, Method 19 utilizing fuel flow rate (scf) and fuel heating value (Btu/scf) obtained during the test. C. Test Procedures: (1) The permittee shall notify the Department's Program Manager, Compliance and Enforcement Section at least thirty (30) days prior to the test date and allow a representative of the Department to be present at the test. (2) Equipment shall be tested in the "as found" condition. Equipment may not be adjusted or tuned prior to any test for the purpose of lowering emissions, and then returned to previous settings or operating conditions after the test is complete. (3) Contents of test notifications, protocols and test reports shall conform to the format specified by the Department's Universal Test Notification, Protocol and Report Form and Instructions. Current forms and instructions are posted to NMED's Air Quality web site under Compliance and Enforcement Testing. (4) The permittee shall provide (a) sampling ports adequate for the test methods applicable to the facility, (b) safe sampling platforms, (c) safe access to sampling platforms and (d) utilities for sampling and testing equipment. Sample ports of a size compatible with the test methods shall be located on the stack with the provisions of EPA Method 1 of 40 CFR 60, Appendix A. The stack shall be of sufficient height and diameter so that a representative test of the emissions can be performed in accordance with EPA Method 1. (5) Where necessary to prevent cyclonic flow in the stack, flow straighteners shall be installed.			

REMARKS:

A. EPA reference methods are used during all required compliance testing/sampling.

B. A 30 day extension (to January 31, 2014) to the annual stack testing requirement for the TA-3 combustion turbine was granted by NMED on November 4, 2013. This test was completed on January 10, 2014. All stack test protocols and stack test reports were submitted as specified.

C. All test procedures are followed as specified.

EPA reference methods were used to observe visible emissions from various sources at LANL. All testing was done following applicable EPA Methods and NMED Test Procedures.

B112 Compliance A. Required records shall be organized by date and subject matter and shall at all times be readily available for inspection. The permittee, upon either a verbal or written request from an authorized representative of the Department, shall produce any records or information necessary to establish that the terms and conditions of this permit are being met. The company shall provide these records to the Department within 24 hours of notification, unless the Department allows additional time. (NMSA 1978, Section 74-2-13) B. A copy of the most recent permit(s) issued by the Department shall be kept at the permitted facility or (for unmanned sites) at the nearest company office and shall be made available to Department personnel for inspection upon request. (20.2.70.302.G.3 NMAC) C. Emissions limits associated with the energy input of a Unit, i.e. lb/MMBtu, shall apply at all times unless stated otherwise in a Specific Condition of this permit. The averaging time for each emissions limit, including those based on energy input of a Unit (i.e. lb/MMBtu) is one (1) hour unless stated otherwise in a Specific Condition of this permit	☒ Yes Explain Below	☐ **No** Explain Below	☐ **N/A** Explain Below

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or in the applicable requirement that establishes the limit. (20.2.70.302.A.1 and G.3 NMAC) D. The permittee shall submit compliance certification reports certifying the compliance status of this facility with respect to all permit terms and conditions, including applicable requirements. These reports shall be made on the pre-populated Compliance Certification Report Form that is provided to the permittee by the Department, and shall be submitted to the Department and to EPA at least every 12 months. For the most current form, please contact the Compliance Reports Group at email:reportsgroup.aqb@state.nm.us. For additional reporting guidance see http://www.nmenv.state.nm.us/aqb/enforce_compliance/TitleVReporting.htm. (20.2.70.302.E.3 NMAC) E. For sources that have submitted air dispersion modeling that demonstrates compliance with federal ambient air quality standards, compliance with the terms and conditions of this permit regarding source emissions and operation shall be deemed to be compliance with federal ambient air quality standards specified at 40 CFR 50 NAAQS. F. The permittee shall allow representatives of the Department, upon presentation of credentials and other documents as may be required by law, to do the following (20.2.70.302.G.1 NMAC): (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; (2) have access to and copy, at reasonable times, any records that are required by this permit to be maintained; (3) inspect any facilities, equipment (including monitoring and air pollution control equipment), work practices or operations regulated or required under this permit; and (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.			
REMARKS: A. All required records are maintained on site and available for review upon request. LANL cooperates with all Department inspections and provides access to facilities and copies of records as requested. The most recent NMED inspection was conducted in September 2013. B. Copies of the most recent permit are kept at the facility. C. Emissions are monitored, or calculated using the energy input of the unit with one hour averaging times, as specified. D. Compliance certification reports are completed and submitted as required. This compliance certification report meets this requirement. E. For sources listed in the permit, required air dispersion modeling was submitted. F. A compliance inspection by NMED - Air Quality Bureau was conducted on September 24, 2013. Information was requested by the inspector to verify compliance. Requested information and documentation was provided. LANL makes every effort to assist NMED with any reasonable request to verify compliance with this permit.			
B113 Permit Reopening and Revocation (20.2.70.405.A.1 NMAC) A. This permit will be reopened and revised when any one of the following conditions occurs, and may be revoked and reissued when A.3 or A.4 occurs. (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. (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. (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. (4) The Department or the Administrator determines that the permit must be revised or revoked and reissued to assure	☒ Yes Explain Below	☐ **No** Explain Below	☐ **N/A** Explain Below

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compliance with an applicable requirement. B. 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. (20.2.70.405.A.2 NMAC)			
REMARKS: A modification to this permit was issued in April 2013 (P100-R1-M3) to include the following: The removal of four retired boilers (TA-48-1-BS-2 & 6 and TA-59-1-BHW-1 &2) from list of Regulated Sources, Table 800.A. These boilers were retired with administrative Revision P100R1M2 on December 26, 2012; Revision of Tables 103.A and 1103.A to reflect actual applicability of 40 CFR 63 Subpart ZZZZ. The regulation applies only to unit TA-33-G-1 per EPA letter dated October 11, 2012; and addition of language reflecting previous approval of 40 CFR 63 Subpart ZZZZ compliance date extension for Unit No. 33-G-1. A need to reopen, revise, revoke, or reissue the permit has not been identified by the Department.			
B114 Emergencies (20.2.70.304 NMAC) A. An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the permittee, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, or careless or improper operation. B. 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: (1) An emergency occurred and that the permittee can identify the cause(s) of the emergency; (2) This facility was at the time being properly operated; (3) 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; and (4) The permittee submitted notice of the emergency to the Department within 2 working days of the time when emission limitations were exceeded due to the emergency. This notice fulfills the requirement of 20.2.70.302.E.2 NMAC. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. C. In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof. D. This provision is in addition to any emergency or upset provision contained in any applicable requirement.	☐ Yes Explain Below	☐ **No** Explain Below	☒ **N/A** Explain Below
REMARKS: No emergency situations occurred during this certification period that caused any impact to air emission sources under this permit.			
B115 Stratospheric Ozone (20.2.70.302.A.1 NMAC) A. If this facility is subject to 40 CFR 82, Subpart F, the permittee shall comply with the following standards for recycling	☒ Yes Explain Below	☐ **No** Explain Below	☐ **N/A** Explain Below

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and emissions reductions: (1) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices. (subsection 82.156) (2) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment. (subsection 82.158) (3) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program. (subsection 82.161)			
REMARKS: 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 contractors, are trained and follow LANL procedures to ensure that required service practices found in 40 CFR 82, Subpart F, are followed.			
B116 Acid Rain Sources (20.2.70.302.A.9 NMAC) A. If this facility is subject to the federal acid rain program under 40 CFR 72, this section applies. B. Where an applicable requirement of the federal Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the federal Act, both provisions are incorporated into this permit and are federally enforceable. C. Emissions exceeding any allowances held by the permittee under Title IV of the federal Act or the regulations promulgated thereunder are prohibited. D. No modification of this permit is required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit modification under any other applicable requirement. E. The permittee may not use allowances as a defense to noncompliance with any other applicable requirement. F. No limit is placed on the number of allowances held by the acid rain source. Any such allowance shall be accounted for according to the procedures established in regulations promulgated under Title IV of the federal Act. G. The acid rain permit is an enclosure of this operating permit.	☐ Yes Explain Below	☐ **No** Explain Below	☒ **N/A** Explain Below
REMARKS: This facility is not subject to 40 CFR 72			
B117 Risk Management Plan (20.2.70.302.A.1 NMAC) A. If this facility is subject to the federal risk management program under 40 CFR 68, this section applies. B. The owner or operator shall certify annually that they have developed and implemented a RMP and are in compliance with 40 CFR 68. C. If the owner or operator of the facility has not developed and submitted a risk management plan according to 40 CFR 68.150, the owner or operator shall provide a compliance schedule for the development and implementation of the plan. The plan shall describe, in detail, procedures for assessing the accidental release hazard, preventing accidental releases, and developing an emergency response plan to an accidental release. The plan shall be submitted in a method and format to a central point as specified by EPA prior to the date specified in 40 CFR 68.150.b.	☐ Yes Explain Below	☐ **No** Explain Below	☒ **N/A** Explain Below

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REMARKS:
This facility is not subject to 40 CFR 68. The volume of chemicals on-site at LANL is tracked through a centralized chemical management system and specific queries are done monthly on the list of chemicals subject to Section 112r of 40 CFR 68 to ensure LANL does not come near, or exceed threshold quantities that could trigger the requirement for a Risk Management Plan.

Part 2

ACC Deviation Summary Report for Permit P100R1M3

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				
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								☐ **Yes** ☐ **No**
2								☐ **Yes** ☐ **No**
3								☐ **Yes** ☐ **No**
4								☐ **Yes** ☐ **No**
5								☐ **Yes** ☐ **No**