

**Environment Safety & Health**

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

Date: **SEP 17 2013**
Symbol: ADESH-13-046
LAUR: 13-26818

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

Dear Compliance Reporting Manager:

**SUBJECT: TITLE V SEMI-ANNUAL EMISSIONS REPORT FOR PERMIT P100-R1-M3
JANUARY 1, 2013 – JUNE 30, 2013 AI NO. 856 – LOS ALAMOS NATIONAL
LABORATORY (LANL)**

Enclosed is Los Alamos National Laboratory's (LANL) Semi-Annual Emissions report for the period January 1, 2013 through June 30, 2013. This report is required by permit condition A109 B and is submitted within 90 days from the end of the reporting period as required by that condition.

The semi-annual emissions report includes actual emissions from permitted sources included in LANL's Operating Permit. Emissions are also reported from insignificant boiler and generator sources. These sources are included to demonstrate that LANL has not exceeded Prevention of Significant Deterioration (PSD) applicability thresholds. In this report, actual emissions are listed along with the emission limits for ease in comparing and verifying compliance. No annual emission limits were exceeded during this reporting period.

Should you have any questions or comments regarding the information provided in this report, please contact Steve Story at (505) 665-2169 or story@lanl.gov.

Sincerely,

A handwritten signature in black ink, appearing to read 'Michael T. Brandt'.

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

MTB:WW/lm

Enclosure: 1. Title V Semi-Annual Emissions Report for Permit P100-R1-M3
January 1, 2013 – June 30, 2013

Cy: Hai Shen, NA-OO-LA, w/enc., (E-File)
Carl A. Beard, PADOPS, w/o enc., A102
Michael T. Brandt, ADESH, w/o enc., (E-File)
Alison M. Dorries, ENV-DO, w/o enc., (E-File)
Anthony R. Grieggs, ENV-CP, w/enc., K490
Steve L. Story, ENV-CP, w/enc., J978
Walter Whetham, ENV-CP, w/enc., J978
Cynthia Blackwell, LC-LESH, w/enc., A187
LASOmailbox@nnsa.doe.gov, w/enc., (E-File)
locatesteam@lanl.gov, w/enc., (E-File)
ENV-ES Title V Emissions Report File
ENV-CP Correspondence File, w/enc., K490



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



Version 07.03.08

NMED USE ONLY	
DTS	
TEMPO	

REPORTING SUBMITTAL FORM

NMED USE ONLY	
Staff	
Admin	

PLEASE NOTE: ® - Indicates required field

SECTION I - GENERAL COMPANY AND FACILITY INFORMATION										
A. ® Company Name: U.S. Department of Energy					D. ® Facility Name: USLos Alamos National Laboratory					
B.1 ® Company Address: P.O. Box 1663 MS J978					E.1 ® Facility Address: Same as Company					
B.2 ® City: Los Alamos		B.3 ® State: NM	B.4 ® Zip: 87545 ¹		E.2 ® City:		E.3 ® State:	E.4 ® Zip:		
C.1 ® Company Environmental Contact: Tony Grieggs			C.2 ® Title: CP Group Leader		F.1 ® Facility Contact: Steve Story			F.2 ® Title: Air Compliance Team Leader		
C.3 ® Phone Number: 505-665-0451			C.4 ® Fax Number: 505-665-8858		F.3 ® Phone Number: 505-665-2169			F.4 ® Fax Number: 505-665-8858		
C.5 ® Email Address: grieggst@lanl.gov					F.5 ® Email Address: story@lanl.gov					
G. Responsible Official: (Title V only): Michael T. Brandt			H. Title: Associate Director ES&H		I. Phone Number: 505-667-4218		J. Fax Number: 505-665-3811			
K. ® AI Number: 856		L. Title V Permit Number: P100-R1-M3		M. Title V Permit Issue Date: 4/26/2013		N. NSR Permit Number: 2195		O. NSR Permit Issue Date: Various		
P. Reporting Period: From: 1/1/2013 To: 6/30/2013				OR		Q. Proposed Test Date:		OR		R. Actual Test Date:

SECTION II - TYPE OF SUBMITTAL (check one that applies)				
A. <input type="checkbox"/>	Title V Annual Compliance Certification	Permit Condition(s):	Description:	
B. <input checked="" type="checkbox"/>	Title V Semi-annual Monitoring Report	Permit Condition(s): Condition A109	Description: Title V Semi-Annual Emissions Report January - June 2013	
C. <input type="checkbox"/>	NSPS Requirement (40CFR60)	Regulation:	Section(s):	Description:
D. <input type="checkbox"/>	MACT Requirement (40CFR63)	Regulation:	Section(s):	Description:
E. <input type="checkbox"/>	NMAC Requirement (20.2.xx) or NESHAP Requirement (40CFR61)	Regulation:	Section(s):	Description:
F. <input type="checkbox"/>	Permit or Notice of Intent (NOI) Requirement	Permit No. <input type="checkbox"/> : or NOI No. <input type="checkbox"/> :	Condition(s):	Description:
G. <input type="checkbox"/>	Requirement of an Enforcement Action	NOV No. <input type="checkbox"/> : or SFO No. <input type="checkbox"/> : or CD No. <input type="checkbox"/> : or Other <input type="checkbox"/> :	Section(s):	Description:

SECTION III - PERIODIC EMISSIONS TEST NOTIFICATIONS, TEST PROTOCOLS AND TEST REPORTS (if applicable)							
T. <input type="checkbox"/>	A. Test Report <input type="checkbox"/> CMT: _____		B. Test Protocol <input type="checkbox"/>		C. Notification <input type="checkbox"/> CMT: _____		Description: (Emission Units to be Tested)
	D. Test (EPA Methods) <input type="checkbox"/>	E. Test (EPA Methods) <input type="checkbox"/>	F. RATA Test <input type="checkbox"/>	G. Opacity Test <input type="checkbox"/>	H. Portable Analyzer (Periodic Test) <input type="checkbox"/>		

SECTION IV - CERTIFICATION			
After reasonable inquiry, I <u>Michael T. Brandt</u> certify that the information in this submittal is true, accurate and complete. (name of reporting official)			
® Signature of Reporting Official: 	® Title: Associate Director ES&H	® Date: 9/12/13	® Responsible Official for Title V? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Reviewed By: _____ Date Reviewed: _____

Title V Semi-Annual Emission Report for Permit P100-R1-M3

January 1, 2013 – June 30, 2013

Identifying Information

Source Name: Los Alamos National Laboratory County: Los Alamos

Source Address:

City: Los Alamos State: NM Zip Code: 87545

Responsible Official: Michael T. Brandt Ph No. (505) 667-4218 Fax No. (505) 665-3811

Technical Contact: Steven L. Story Ph No. (505) 665-2169 Fax No. (505) 665-8858

Principal Company Product or Business: National Security and Nuclear Weapons Research Primary SIC Code: 8733

Permit No. P100-R1-M3 {IDEA/Tempo ID No. 856} Permit Issued Date: April 26, 2013

Certification of Truth, Accuracy, and Completeness

I, Michael T. Brandt certify that, based on information and belief formed after reasonable inquiry, the statements and information in the attached semi-annual emission report are true, accurate, and complete.

Signature



Date:

9/17/13

Title: Associate Director Environmental, Safety, and Health

ENCLOSURE 1

Title V Semi-Annual Emissions Report for Permit
P100-R1-M3
January 1, 2013 – June 30, 2013

ADESH-13-046

LAUR-13-26818

Date: SEP 17 2013

Title V Semi-Annual Emissions Report for Permit P100-R1-M3 January 1, 2013 - June 30, 2013

Emission Reporting Requirements

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.

- 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.

Source	NOx	CO	SO2	VOC	TSP	PM10	PM2.5

Specific Emissions Reports:

A600 Asphalt Production					
A602 Emission Limits - Asphalt Production					
Unit No.	NOx tpy	SO2 tpy	PM	CO tpy	VOC tpy
TA-60-BDM	95.0	50.0	0.04 g/dscf 33.8 lb/hr 95.0 tpy	95.0 tpy	95.0 tpy

Reporting Requirement

A607 F The permittee shall submit reports described in Section A109 and in accordance with B110.

A109 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.

Has this reporting requirement been met during this reporting period with a separate reporting submittal? Answer Yes or No below.

Yes **Date report submitted:** _____ **Tracking Number:** _____

No **Provide comments and identify any supporting documentation as an attachment.**

Comments:

Asphalt Plant TA-60-BDM	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition A602 A) (tons per year)
NOx	0.011			95.0
SO ₂	0.001			50.0
PM	0.006			95.0
CO	0.380			95.0
VOC	0.001			95.0
HAPs	0.001			No Source Permit Limit

A700 Beryllium Activities

A702 Emission Limits - Beryllium Activities

Source	Beryllium Particulate Matter	Aluminum Particulate Matter
Sigma Facility TA-3-66	10 gm ³ /24 hr	N/A
Beryllium Technology Facility TA-3-141	0.35 gm/24 hr 3.5 gm/yr	N/A
Target Fabrication Facility TA-35-213	1.8 x 10 ¹⁶ 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 x 10 ⁻⁰⁵ gm/24 hr 8.73 x 10 ⁻⁰⁴ gm/yr	3.49 x 10 ⁻⁰⁵ gm/24 hr 8.73 x 10 ⁻⁰⁴ gm/y

Reporting Requirement

A707 D The permittee shall submit reports described in Section A109 and in accordance with B110.

A109 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.

Has this reporting requirement been met during this reporting period with a separate reporting submittal? Answer Yes or No below.

Yes Date report submitted: _____ Tracking Number: _____

No Provide comments and identify any supporting documentation as an attachment.

Comments: Continued on the next page

A700 Beryllium Activities - continued

Comments:

Source	Pollutant	January - June Emissions	July - December Emissions	Annual Emissions	Permit Limits (Condition A702 A)
Beryllium Test Facility TA-3-141 ⁽¹⁾	Beryllium (grams)	< 0.0033			3.5 gm/yr
Target Fabrication Facility TA-35-213 ⁽²⁾	Beryllium (grams)	< 0.00944			0.36 gm/yr
Plutonium Facility TA-55-PF4 Machining Operation ⁽³⁾	Beryllium (grams)	< 1.495			2.99 gm/yr
	Aluminum (grams)	< 1.495			2.99 gm/yr
Plutonium Facility TA-55-PF4 Foundry Operation ⁽⁴⁾	Beryllium (grams)	0			8.73 x 10 ⁻⁴ gm/yr
	Aluminum (grams)	0			8.73 x 10 ⁻⁴ gm/yr
Beryllium Total⁽⁵⁾ (tons) =		< 1.66E-06			
Aluminum Total (tons) =		< 1.65E-06			

Notes: ⁽¹⁾ Emission values shown for the Beryllium Test Facility are from actual stack emission measurements which are submitted to NMED quarterly. ⁽²⁾ Emissions for the Target Fabrication Facility are from initial compliance testing of that source and calculated based on a conservative assumption of 8 hour work days. Log books were checked to verify that work days were much less than 8 hours. ⁽³⁾ Emissions for the Plutonium Facility are calculated based on permitted throughputs. Log books were checked to verify that throughputs were much less than permitted values. ⁽⁴⁾ The Plutonium Facility foundry operations did not operate during the first six months of 2013. ⁽⁵⁾ The Sigma Facility listed in section A700 of the permit does not require reporting in the Semi-Annual Emissions Report.

A800 External Combustion

A802 Emission Limits - External Combustion

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

Unit No.	¹ NO _x ppb	NO _x tpy	CO ppb	CO tpy	VOC ppb	VOC tpy	SO ₂ ppb	SO ₂ tpy	TSP ppb	TSP tpy	PM ₁₀ ppb	PM ₁₀ tpy	PM _{2.5} ppb	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 ³	N/A	2.9	N/A	0.9	—	—	N/A	10.4	N/A	0.5	N/A	0.3	N/A	0.3
Combined Total ¹		14.5		20.1				11.6		2.1		1.9		1.9

Reporting Requirement

A807 B The permittee shall submit reports described in Section A109 and in accordance with B110.

A109 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 NO_x, CO, SO₂, VOC, TSP, PM₁₀, and PM_{2.5} 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.

Has this reporting requirement been met during this reporting period with a separate reporting submittal? Answer Yes or No below.

Yes Date report submitted: _____ Tracking Number: _____

No Provide comments and identify any supporting documentation as an attachment.

Comments: Continued on the next page

A800 External Combustion - continued

Boilers	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition A802 A) (tons per year)
NOx	14.02			80
SO ₂	0.09			50
TSP	1.12			50
PM-10	1.12			50
CO	11.39			80
VOCs	0.81			50
HAPs	0.27			No Source Limit

Note: The emissions shown in this table includes all exempt, non-exempt, metered, and non-metered boilers at LANL except for the TA-3-22 Power Plant boilers. The Power Plant boilers can be found under Section A1300 of this report.

CMRR-BHW-1 (Gas)	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition A802 B) (tons per year)
NOx	0.012			2.9
SO ₂	0.000			0.3
TSP	0.002			0.4
PM-10	0.002			0.4
PM-2.5	0.002			0.4
CO	0.016			4.8
VOCs	0.011			No Source Limit
HAPs	0.001			No Source Limit

CMRR-BHW-2 (Gas)	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition A802 B) (tons per year)
NOx	0.012			2.9
SO ₂	0.000			0.3
TSP	0.002			0.4
PM-10	0.002			0.4
PM-2.5	0.002			0.4
CO	0.016			4.8
VOCs	0.011			No Source Limit
HAPs	0.001			No Source Limit

CMRR-BHW-3 (Gas)	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition A802 B) (tons per year)
NOx	0.012			2.9
SO ₂	0.000			0.3
TSP	0.002			0.4
PM-10	0.002			0.4
PM-2.5	0.002			0.4
CO	0.016			4.8
VOCs	0.011			No Source Limit
HAPs	0.001			No Source Limit

Continued on the next page.

A800 External Combustion - continued

CMRR-BHW-4 (Gas)	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition A802 B) (tons per year)
NOx	0.000			2.9
SO ₂	0.000			0.3
TSP	0.000			0.4
PM-10	0.000			0.4
PM-2.5	0.000			0.4
CO	0.000			4.8
VOCs	0.000			No Source Limit
HAPs	0.000			No Source Limit

Note: The CMRR-BHW-4 boiler has not been installed.

CMRR Boilers Totals (Oil)	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition A802 B) (tons per year)
NOx	0.002			2.9
SO ₂	0.001			10.4
TSP	0.000			0.5
PM-10	0.000			0.3
PM-2.5	0.000			0.3
CO	0.001			0.9
VOCs	0.001			No Source Limit
HAPs	0.000			No Source Limit

Note: The CMRR boilers operated on fuel oil for a total of 14 hours during the first 6 months of 2013.

CMRR Boilers Totals (Gas and Oil)	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition A802 B) (tons per year)
NOx	0.039			14.5
SO ₂	0.002			11.6
TSP	0.006			2.1
PM-10	0.006			1.9
PM-2.5	0.006			1.9
CO	0.048			20.1
VOCs	0.033			No Source Limit
HAPs	0.002			No Source Limit

A900 Chemical Usage

A902 Emission Limits - Chemical Usage

Unit No.	VOCHAPs tpy
LANL-FW-CHEM	...
CMRR-CHEM	3.75'

† 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.

Reporting Requirement

A907 A The permittee shall submit reports described in Section A109 and in accordance with B110. With respect to individual HAPs, reports shall include any HAP emitted in quantity greater than 0.5 tons per year.

A109 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.

Has this reporting requirement been met during this reporting period with a separate reporting submittal? Answer Yes or No below.

Yes Date report submitted: _____ Tracking Number: _____

No Provide comments and identify any supporting documentation as an attachment.

Comments:

Chemical Usage LANL-FW-CHEM	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition A902 B)
VOCs	5.30			Source limits refer to facility-wide limits.
HAPs	1.78			

Note: No individual HAP totaled more than 0.5 tons during the first six months of 2013.

Chemical Usage CMRR-CHEM	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition A902 B) (tons per year)
VOCs	0.0			3.75
HAPs	0.0			3.75

Note: No chemicals were stored or used in the CMRR-RLUOB laboratories during the first 6 months of 2013.

A1000 Degreasers

A1002 Emission Limits - Degreasers

Unit No.	VOC/HAPs tpy
TA-55-DG-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.

Reporting Requirement

A1007 A The permittee shall submit reports described in Section A109 and in accordance with B110.

A109 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.

Has this reporting requirement been met during this reporting period with a separate reporting submittal? Answer Yes or No below.

Yes Date report submitted: Tracking Number:

No Provide comments and identify any supporting documentation as an attachment.

Comments:

Degreaser TA-55-DG-1	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition A1002 A) (tons per year)
VOCs	0.002			Source limits refer to facility-wide limits.
HAPs	0.002			

A1100 Internal Combustion

A1102 Emission Limits - Internal Combustion

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.

Reporting Requirement

A1107 A The permittee shall submit reports described in Section A109, report as required by 40 CFR 60, Subparts A and III and in accordance with B110.

A109 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 NO_x, CO, SO₂, VOC, TSP, PM₁₀, and PM_{2.5} 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.

Has this reporting requirement been met during this reporting period with a separate reporting submittal? Answer Yes or No below.

Yes Date report submitted: Tracking Number:

No Provide comments and identify any supporting documentation as an attachment.

Comments:

Generator TA-33-G-1	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition A1102 A) (tons per year)
NO _x	0.000			18.1
SO ₂	0.000			2.5
TSP	0.000			0.6
PM ₁₀	0.000			0.6
CO	0.000			15.2
VOC	0.000			0.3
HAPs	0.000			No Source Limit

Note: The TA-33-G-1 generator did not operate during the first six months of 2013.

Generator TA-33-G-2	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition A1102 A) (tons per year)
NO _x	0.000			0.21
SO ₂	0.000			Not Required
TSP	0.000			Not Required
PM ₁₀	0.000			Not Required
CO	0.000			0.1
VOC	0.000			Not Required
HAPs	0.00E+00			No Source Limit

Note: The TA-33-G-2 generator did not operate during the first six months of 2013.

Continued on the next page.

A1100 Internal Combustion- continued

Generator TA-33-G-3	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition A1102 A) (tons per year)
NOx	0.000			0.21
SO ₂	0.000			Not Required
TSP	0.000			Not Required
PM ₁₀	0.000			Not Required
CO	0.000			0.1
VOC	0.000			Not Required
HAPs	0.00E+00			No Source Limit

Note: The TA-33-G-3 generator only operated for a 0.2 hours during the first 6 months of 2013.

Generator TA-33-G-4	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition A1102 A) (tons per year)
NOx	0.052			2.33
SO ₂	0.004			0.16
TSP	0.004			Not Required
PM ₁₀	0.004			Not Required
CO	0.011			1.4
VOC	0.004			0.2
HAPs	1.67E-05			No Source Limit

Note: The TA-33-G-4 generator only operated for 11 hours during the first 6 months of 2013.

Stationary Standby Generators	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits
NOx	1.51			No Source Specific Emission Limits for Standby Generators
SO ₂	0.07			
TSP	0.08			
PM ₁₀	0.08			
CO	0.34			
VOC	0.08			
HAPs	0.001			

Note: Standby Generators are insignificant sources.

Generator CMRR-GEN-1	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits
NOx	0.238			No Source Specific Emission Limits for the CMRR Generators
SO ₂	0.004			
TSP	0.007			
PM ₁₀	0.007			
CO	0.052			
VOC	0.007			
HAPs	4.32E-05			

Continued on the next page.

A1100 Internal Combustion- continued

Generator CMRR-GEN-2	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits
NOx	0.134			No Source Specific Emission Limits for the CMRR Generators
SO ₂	0.002			
TSP	0.004			
PM ₁₀	0.004			
CO	0.029			
VOC	0.004			
HAPs	2.44E-05			

Generator CMRR-GEN-3	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits
NOx	0.648			No Source Specific Emission Limits for the CMRR Generators
SO ₂	0.011			
TSP	0.020			
PM ₁₀	0.020			
CO	0.142			
VOC	0.020			
HAPs	1.18E-04			

A1200 Data Disintegrator

A1202 Emission Limits - Data Disintegrator

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

Reporting Requirement

A1207 A The permittee shall submit reports described in Section A109 and in accordance with B110.

A109 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.

Has this reporting requirement been met during this reporting period with a separate reporting submittal? Answer Yes or No below.

Yes Date report submitted: Tracking Number:

No Provide comments and identify any supporting documentation as an attachment.

Comments:

Data Disintegrator TA-52-11	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition A1202 A) (tons per year)
TSP	0.03			9.9
PM10	0.03			9.9

A1300 TA-3 Power Plant

A1302 Emission Limits - TA-3 Power Plant

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% O ₂		N/A		N/A		N/A		N/A		N/A		N/A	
Total (tpy) ²	90.8		93.7		4.3		9.1		9.4		9.2		9.0	

Reporting Requirement

A1307 A The permittee shall submit reports described in Section A109 and in accordance with B110.

A109 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 PM_{2.5} 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.

Has this reporting requirement been met during this reporting period with a separate reporting submittal? Answer Yes

Yes

Date report submitted:

Tracking Number:

No Provide comments and identify any supporting documentation as an attachment.

Comments:

Boilers TA-3-22-1, TA-3-22-2, TA-3-22-3	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limit (Condition A1302 A) (tons per year)
NOx	6.82			31.5
SO ₂	0.09			4.9
TSP	0.90			4.7
PM ₁₀	0.90			4.4
PM _{2.5}	0.89			4.2
CO	4.70			21.5
VOC	0.65			2.8
HAPs	0.22			No Source Limit

A1300 TA-3 Power Plant

Comments:

Combustion Turbine TA-3-22 CT-1	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limit (Condition A1302 A) (tons per year)
NOx	0.93			59.4
SOx	0.06			4.2
TSP	0.12			4.8
PM ₁₀	0.12			4.8
PM _{2.5}	0.12			4.8
CO	0.19			72.3
VOC	0.04			1.5
HAPs	0.03			No Source Limit

A1400 Open Burning		
A1402 Emission Limits - Open Burning		
Unit No.	Individual HAP¹ (tpy)	Total HAPs¹ (tpy)
Facility-Wide Open Burning	8.0	24.0
<p>¹ Individual and Total HAPs emitted by Open Burning are included in the facility-wide HAP emission limits at Table 106.B</p>		
Reporting Requirement		
A1407 A	The permittee shall submit reports described in Section A109 and in accordance with B110.	
A109 B	<p>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 NO_x, CO, SO₂, VOC, TSP, PM₁₀, and PM_{2.5} 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.</p>	
<p>Has this reporting requirement been met during this reporting period with a separate reporting submittal? Answer Yes or No below.</p>		
<input type="checkbox"/>	Yes	Date report submitted: _____ Tracking Number: _____
<input checked="" type="checkbox"/>	No	Provide comments and identify any supporting documentation as an attachment.
<p>Comments: No open burning activities took place during the first 6 months of 2013.</p>		

A102 Facility Wide Emission Limits

Table 102.A: Total Potential Criteria Pollutant Emissions from Entire Facility

Pollutant	Emissions (tons per year)
Nitrogen Oxides (NO _x)	245.0
Carbon Monoxide (CO)	225.0
Volatile Organic Compounds (VOC)	200.0
Sulfur Dioxide (SO ₂)	150.0
Total Particulate Matter (TSP)	120.0
Particulate Matter less than 10 microns (PM ₁₀)	120.0
Particulate Matter less than 2.5 microns (PM _{2.5})	120.0

Table 102.B: Total Potential HAPs that exceed 1.0 tons per year

Pollutant	Emissions (tons per year)
Individual HAP	8.0
Total HAPs	24.0

Reporting Requirement

A109 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 NO_x, CO, SO₂, VOC, TSP, PM₁₀, and PM_{2.5} 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.

Has this reporting requirement been met during this reporting period with a separate reporting submittal? Answer Yes or No below.

Yes Date report submitted: _____ Tracking Number: _____

No Provide comments and identify any supporting documentation as an attachment.

Comments:

Pollutant	January - June Emissions (tons)	July - December Emissions (tons)	2012 Annual Emissions (tons)	Facility Wide Permit Limits (Condition A102) (tons per year)
Nitrogen Oxides	24.4			245
Carbon Monoxide	17.2			225
Volatile Organic Carbons	6.9			200
Sulfur Dioxide	0.3			150
Total Particulate Matter	2.3			120
Particulate Matter less than 10 microns	2.3			120
Particulate Matter less than 2.5 microns	1.0			120
Hazardous Air Pollutants	2.3			24



COPY

Environment Safety & Health

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

Date: **SEP 17 2013**
Symbol: ADESH-13-046
LAUR: 13-26818

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

RECEIVED
SEP 19 2013
Air Quality Bureau

Dear Compliance Reporting Manager:

**SUBJECT: TITLE V SEMI-ANNUAL EMISSIONS REPORT FOR PERMIT P100-R1-M3
JANUARY 1, 2013 – JUNE 30, 2013 AI NO. 856 – LOS ALAMOS NATIONAL
LABORATORY (LANL)**

Enclosed is Los Alamos National Laboratory's (LANL) Semi-Annual Emissions report for the period January 1, 2013 through June 30, 2013. This report is required by permit condition A109 B and is submitted within 90 days from the end of the reporting period as required by that condition.

The semi-annual emissions report includes actual emissions from permitted sources included in LANL's Operating Permit. Emissions are also reported from insignificant boiler and generator sources. These sources are included to demonstrate that LANL has not exceeded Prevention of Significant Deterioration (PSD) applicability thresholds. In this report, actual emissions are listed along with the emission limits for ease in comparing and verifying compliance. No annual emission limits were exceeded during this reporting period.

Should you have any questions or comments regarding the information provided in this report, please contact Steve Story at (505) 665-2169 or story@lanl.gov.

Sincerely,

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

Whetham, Walter

From: Blackwell, Cindy
Sent: Monday, September 09, 2013 2:52 PM
To: Whetham, Walter
Subject: RE: LC-LESH

Walt,

I reviewed the report and cover letter and have no substantive comments or questions.

I did notice that for the A900 section under the Comments, the Blue last column did not show "(tons per year)." It just ended with the condition A902 B parenthetical. Could be my version of excel, but it was the only one like that.

Best,

Cindy

Cynthia Blackwell
Attorney - Environment, Safety & Health Practice Group
Office of Laboratory Counsel
Los Alamos National Laboratory
Mailstop A187
Phone: (505) 667-7512
Fax: (505)665-4424
cblackwell@lanl.gov

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From: Whetham, Walter
Sent: Wednesday, August 28, 2013 1:25 PM
To: Blackwell, Cindy
Subject: LC-LESH

Hi Cindy -

I need a LC-LESH review for the Title V Semi-Annual Emissions report for the first 6 months of 2013. The report and cover letter are attached.

Please review and respond by September 4th if possible.

Thank you,
Walt



Signature/Review/Coordination Sheet

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

Today's Date 9-9-2013	Deadline Date 9/28/2013 (due to NMED)	Is this a response to an action item? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
From: Walter Whetham Organization: ENV-CP		<input checked="" type="checkbox"/> Call for Pick-up Name: Linda M. Salazar Phone: 7-7407

Title: Identify document, briefly describing subject matter.
 ADESH-13-046; NMED-AQ Compliance Reporting; 9-28-13; Title V Semi-Annual Emissions Report for Permit P100-R1-M3
 January 1, 2013 - June 30, 2013

Summary/Detail
 The Semi-Annual Emissions Report is required by LANL's Operating Permit No: P100-R1-M3. The report includes actual emissions from permitted sources.

ACTION requested of Laboratory Director or Designee:
 Review and endorse.

PAD Endorsement

Name (print)	Signature	Date
Carl A. Beard, PADOPS	na	

AD Endorsement

Name (print)	Signature	Date
Michael T. Brandt, ADESH		9/12/13

Coordinated with

1. Name (print)	Signature	Date
Alison M. Dorries, ENV-DO		9/12/13
2. Name (print)	Signature	Date
Anthony R. Grieggs, ENV-CP		9/12/13
3. Name (print)	Signature	Date
Steven L. Story, ENV-CP		9/11/2013
4. Name (print)	Signature	Date
Walter W. Whetham, ENV-CP		9-9-2013
5. Name (print)	Signature	Date
Cindy Blackwell, LC-LESH	Please see the attached email from Cindy.	9-9-2013

Please ensure appropriate PAD/AD/Division coordination and review prior to submittal to the Director's Office.