

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

Date: SEP 1 7 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 <a href="mailto:story@lanl.gov">story@lanl.gov</a>.

Sincerely,

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



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C.1 ® C Tony G	ompany Environmen rieggs	tal Contact:	C.2 ® Title: CP Group L				F.1 ® Facil Steve Story		itact:		F.2 ® Title	e: ance Team Leader
	Phone Number:		C.4 ® Fax I				F.3 ® Phor	ne Num	ber:		F.4 ® Fax	Number:
505-665 C.5 ®	Email Address:		505-665-88	58			505-665-21 F.5 ® Ema		966.		505-665-8	858
grieggs	st@lanl.gov						story@lanl.	gov				
	onsible Official: (Title I T. Brandt	e V onlv):	H. Title: Associate D	irector ES	ßН		I. Phone No 505-667-42				J. Fax Nu 505-665-3	
K. ® A 856	l Number:	L. Title V Po P100-R1-N	ermit Number 13		Title V Pe 5/2013	rmit Is	sue Date:	N. NSF 2195	R Permit Nu	mber:	O. NS Vario	SR Permit Issue Date:
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	easonable inquiry		Michael T.			certif	y that the in	formati	ion in this s	ubmitt	al is true, ac	curate and complete.
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Review	ved By:							D	ate Review	red:		

## 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: <u>87545</u>
Responsible Official: Michael T. Brandt  Technical Contact: Steven L. Story Ph No.  Principal Company Product or Business: National Security and	(505) 665-2169 Fax No. (5	05) 665-8858
Permit No. P100-R1-M3 {IDEA/Tempo ID No. 856}	Permit Iss	sued Date: <u>April 26, 2013</u>
Certification of Truth, Accuracy, and Com	pleteness	
I, <u>Michael T. Brandt</u> certify that, based on information and be information in the attached semi-annual emission report are true		nquiry, the statements and
Signature Marion 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	1	7	2013	
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# 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 occured during the reporting period with the facility-wide allowable emission limits at Table 106.B.

## **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 gr/dscf 33.8 lb/hr 95.0 tpy	95.0 гру	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 i	net during this repor	ting period with a	a separate reporting submittal	? Answer Yes
or No below.				

Yes

Date report submitted:

Tracking Number:

X

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

Asphalt Plant TA-60-BDM	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition A802 A) (tons per year)
NOx	0.011	1		95.0
SO <sub>2</sub>	0.001			50.0
PM	0.006			95.0
CO	0.380			95.0
VOC	0.001			96.0
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 gm²/24 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 <sup>48</sup> 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 <sup>-05</sup> gm/24 hr 8.73 x 10 <sup>-04</sup> gm/yr	3.49 x 10 <sup>-05</sup> gm/24 hr 8.73 x 10 <sup>-04</sup> 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:	
x	No	Provide comments and identify any su	pporting documentation as an attachment.	
Comments:	Continu	ed 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 <sup>(1)</sup>	Beryllium (grams)	< 0.0033	3 10 7		3.5 gm/yr
Target Fabrication Facility TA-35-213 <sup>(2)</sup>	Beryllium (grams)	< 0.00944			0.36 gm/yr
Plutonium Facility TA-55-PF4	Beryllium (grams)	< 1.495			2.99 gm/yr
Machining Operation <sup>(3)</sup>	Aluminum (grams)	< 1.495		7	2.99 gm/yr
Plutonium Facility TA-55-PF4	Beryllium (grams)	0			8.73 x 10 <sup>-4</sup> gm/yr
Foundry Operation <sup>(4)</sup>	Aluminum (grams)	0		E 1	8.73 x 10 <sup>-4</sup> gm/yr
Beryllium Total <sup>(5)</sup>	(tons) =	< 1.66E-06	Design (H. 1		Manufacture Control
Aluminum Total	(tons) =	< 1.65E-06	THE RESERVE	"Tife": "Yo.	

Notes: <sup>(1)</sup> Emission values shown for the Beryllium Test Facility are from actual stack emission measurements which are submitted to NMED quarterly. <sup>(2)</sup> 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. <sup>(3)</sup> 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. <sup>(4)</sup> The Plutonium Facility foundry operations did not operate during the first six months of 2013. <sup>(5)</sup> The Sigma Facility listed in section A700 of the permit does not require reporting in the Semi-Annual Emissions Report.

	l No.		¹NO, tp	у	CO tp	у	VOC	tpy	SO <sub>2</sub>	tpy	TSP	фу	PM	ı, tpy
Combined emissions inits lister 800 A 2	for all	lc	80.0		80.0		50.	0	50.	.0	50	.0	5	0.0
Unit No.	¹NO <sub>x</sub>	NO <sub>x</sub>	CO pph	CO	VOC pph	VOC tpy	SO <sub>2</sub>	SO <sub>2</sub>	TSP	TSP tpy	PM <sub>10</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>	PM <sub>1.5</sub>
CMRR- BHW-1 (GAS)	0.7	2.9	1.1	4.8	2	e land	0,1	0.3	0.1	0.4	0.1	0.4	0.1	0.4
CMRR- BHW-I (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		17	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	110000	0.3		0.2	7/10	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	IIV	0.2		0.2	
CMRR- BHW-4 (GAS)	0.7	2.9	111	4.8			0.1	0.3	0.1	0.4	0.1	0.4	0.1	0.4
CMRR. BHW-4 (OIL)	16		0.5				5.8		0.3	-	0.2		0.2	
Il boilers - Orl	N/A	2.9	N/A	0.9	-	***	N/A	10.4	NA	0.5	N/A	0.3	N/A	0.3
ombined Total		14.5		20.1		2753		11.6		2.1		1.9		1.9
07 B 09 B	A S this Con PM: emi: wide com allo	emi-Ar permit dition 2.5 sha ssions. e emiss parison wable e	is due value of A109. A 109. A	within a Emissiculate for estirom all rual emin i limits	ugitive nates sh atural g ssions th at Tabl	emission following mates of emission all not as com- nat occur e 106.E	ons from ing the of criter ons. Em include bustion ared du 3.	n all per end of e ia pollu ission e Insigni source ring the	entitted activery 6- stants N stimate ficant of s shall be reporti	sources month Ox, CO s of HA or Trivia oe estin ing peri	unless reporting, SO2, Ps shall al Activitated. To	otherwing period VOC, I l includities, ex the report the fac	ise spec d as def rSP, PM le fugiti cept tha rts shall ility-wid	ified in fined at 410, and ve at facility- I include a
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## A800 External Combustion - continued

Boilers	January - June Emissions (tons)	July - December Emissions (tons)	Annuai Emissions (tons)	Permit Limits (Gondition A802 A) (tons per year)
NOx	14.02			80
SO <sub>2</sub>	0.09			50
TSP	1.12			50
PM-10	1.12	10 15 70 15 16		50
CO	11.39		1.00	80
VOCs	0.81	7 P P	34.7	50
HAPs	0.27		100	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)	Annuai Emissions (tons)	Permit Limits (Condition A802 B) (tons per year)
NOx	0.012			2.9
SO <sub>2</sub>	0.000	FILE		0.3
TSP	0.002			0.4
PM-10	0.002	9		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 <sub>2</sub>	0.000			0.3
TSP	0.002	1. (1.542	STRESHALL III	0.4
PM-10	0.002	140		0.4
PM-2.5	0.002		- S-1	0.4
CO	0.016			4.8
VOCs	0.011		y	No Source Limit
HAPs	0.001			No Source Limit

CMRR-BHW-3 (Gas)	January - June Emissions (tons)	July - December Emissions (tons)	Annuai Emissions (tons)	Permit Limits (Condition A802 B) (tons per year)
NOx	0.012			2.9
SO <sub>2</sub>	0.000			0.3
TSP	0.002	Little		0.4
PM-10	0.002			0.4
PM-2.5	0.002		A Tips 1 8/1991	0.4
СО	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		Secretary in the second	2.9
SO <sub>2</sub>	0.000	1 24 1		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	× 1	1.7.1	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		Taran Mariana	2.9
SO₂	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 <sub>2</sub>	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		1.	20.1
VOCs	0.033			No Source Limit
HAPs	0.002		4 - 200 PM	No Source Limit

900 Ci	nemical Usage				
902	Emission Limits - Ch	emical Usage			
	Unit No.			VOC/HAPs tp	mices.
LANL-FW	СНЕМ		II HAD SK	1887/116	
CMRR-CH				3.75'	
Table	OC emissions from this sour 06.B: 200 tpy VOC, 8.0 tpy las a VOC shall be included	per individual HAP, an	d in the facility-wid d 24.0 tpy of combi	ie allowable emissic ined total HAPs. Ar	ons limit established in by VHAPs that are also
Reportir	ıg Requirement				
1907 A	The permittee shall su	bmit reports describe	d in Section A109	and in accordance	with B110. With
	respect to individual I	IAPs, reports shall in	clude any HAP en	nitted in quantity g	reater than 0.5 tons pe
	year.				
A109 B	A Semi-Annual Repor	t of actual emissions	from all permitted	sources unless oth	nerwise specified in
	this permit is due with	in 90 days following	the end of every 6	-month reporting p	period as defined at
	Condition A109.A. Er	nission estimates of c	riteria pollutants l	NOx, CO, SO2, VO	OC, TSP, PM10, and
	PM2.5 shall not include			es of HAPs shall in	
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No below	emissions. Emission e wide emissions from a comparison of actual e allowable emission lin  orting requirement been m  Yes Date repor  No Provide commo  Chemical Usage LANL-FW-CHEM  VOCs  HAPs	de fugitive emissions. stimates shall not includ natural gas combus emissions that occured nits at Table 106.B.  Let during this reportion to the submitted:  Let submitted:  Let submitted:  January -  June  Emissions (tons)  5.30  1.78	Emission estimate ude Insignificant to sources shall during the report of the period with a second of the period w	or Trivial Activitie be estimated. The ting period with th eparate reporting s  Tracking Number umentation as an  Annual Emissions	clude fugitive s, except that facility- reports shall include a e facility-wide  ubmittal? Answer Yes  r: attachment.  Permit Limits (Condition A902 B)  Source limits refer to facility-wide

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

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

002 Emission	n Limits - Degreas	sers			
_	Unit No.	T		VOCALA De 4	1
TA-55-DG-1	-1111 (170)			VOC/HAPs tpy	
The VOC emissions fro Table 106.B; 200 tpy V defined as a VOC shall	OC. 8.0 toy per ind	ividual HAP, and	in the facility-wid 24.0 tpy of combi	de allowable emissions limit es ned total HAPs. Any VHAPs t	tablished in that are also
eporting Require			dia Gastian Add		
007 A The peri	nuce snan suomni	repons describe	a in Section A10	09 and in accordance with B1	10.
this perm Condition PM2.5 sh emissions wide emi	nit is due within 90 in A109.A. Emissi nall not include fu s. Emission estima ssions from all na	O days following on estimates of c gitive emissions. ates shall not included tural gas combus	the end of every riteria pollutants Emission estimated lude Insignificant tion sources sha	ed sources unless otherwise s 6-month reporting period as 8 NOx, CO, SO2, VOC, TSP, ates of HAPs shall include fu at or Trivial Activities, except Il be estimated. The reports si	defined at PM10, and gitive that facility hall include
comparis	on of actual emiss	sions that occured	d during the repo	orting period with the facility	-wide
allowable	e emission limits a	t Table 106.B.			
s this reporting require	ement been met di	uring this reportin	ng period with a	separate reporting submittal?	? Answer Ye
No below.				As we have the grant	
Yes	Date report sul	bmitted:		Tracking Number:	
			and the second		10-22 10-2
	ovide comments	and identify any	y supporting do	cumentation as an attachm	ent.
No Pr	ovide comments  January -	and identify any		cumentation as an attachm	ent.
****			Annual Emissions (tons)		ent.
mments: Degreaser	January - June Emissions	July - December Emissions	Annuai Emissions	Permit Limits (Condition A1002 A) (tons per year)  Source limits refer	ent.
Degreaser TA-55-DG-1	January - June Emissions (tons) 0.002	July - December Emissions	Annuai Emissions	Permit Limits (Condition A1002 A) (tons per year)	ent.
Degreaser TA-55-DG-1 VOCs	January - June Emissions (tons)	July - December Emissions	Annuai Emissions	Permit Limits (Condition A1002 A) (tons per year)  Source limits refer to facility-wide	ent.
Degreaser TA-55-DG-1 VOCs	January - June Emissions (tons) 0.002	July - December Emissions	Annuai Emissions	Permit Limits (Condition A1002 A) (tons per year)  Source limits refer to facility-wide	ent.
Degreaser TA-55-DG-1 VOCs	January - June Emissions (tons) 0.002	July - December Emissions	Annuai Emissions	Permit Limits (Condition A1002 A) (tons per year)  Source limits refer to facility-wide	ent.

#### **A1100 Internal Combustion**

A1102

**Emission Limits - Internal Combustion** 

Unit No.	NO <sub>x</sub>	NO <sub>k</sub>	CO pph	CO tpy	VOC pph	VOC tpy	SO <sub>2</sub>	SO <sub>2</sub> tpy	TSP pph	TSP tpy	PM <sub>10</sub> pph	PM <sub>10</sub>
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	1.0	I					4-	7. <del>-</del> .
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		••		-

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 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 occured 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 Yes

es Date report submitted:

Tracking Number:

 $\mathbf{x}$ 

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)
NOx	0.000			18.1
SO <sub>2</sub>	0.000			2.5
TSP	0.000			0.6
PM <sub>10</sub>	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)
NOx	0.000			0.21
SO <sub>2</sub>	0.000			Not Required
TSP	0.000			Not Required
PM <sub>10</sub>	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	Calculation -		0.21
SO <sub>2</sub>	0.000		11-1-	Not Required
TSP	0.000	LAWEST EN ET		Not Required
PM <sub>10</sub>	0.000			Not Required
СО	0.000	Pristing part		0.1
VOC	0.000			Not Required
HAPs	0.00E+00	A THEOTOGRAPHICA		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		1	2.33
SO <sub>2</sub>	0.004			0.16
TSP	0.004	TAX TOWN	(1)	Not Required
PM <sub>10</sub>	0.004	Estimation .		Not Required
со	0.011	Tiplian aleman		1.4
VOC	0.004			0.2
HAPs	1.67E-05	- CUMPS (GISTOR)	Marcine e - 60	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)	Annuai Emissions (tons)	Permit Limits
NOx	1.51			
SO <sub>2</sub>	0.07			
TSP	0.08			No Source Specific
PM <sub>10</sub>	0.08			Emission Limits for
СО	0.34		******	Standby Generators
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			A Mineral Committee
SO <sub>2</sub>	0.004			
TSP	0.007	1 102 - 104 · · · · · · · · · · · · · · · · · · ·		No Source Specific
PM <sub>10</sub>	0.007			Emission Limits for
СО	0.052			the CMRR Generators
VOC	0.007			Conditators
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		a status at a	
SO <sub>2</sub>	0.002	= 50 / N/S/(D)		
TSP	0.004	Smith provinces		No Source Specific
PM <sub>10</sub>	0.004		En line rabil	Emission Limits for
CO	0.029	<b>夏季用酒味</b>		the CMRR Generators
VOC	0.004	7 100		Generators
HAPs	2.44E-05	Carl Bowl	La constant de la con	

Generator CMRR-GEN-3	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits
NOx	0.648		THE LETTER	Superior Children
SO <sub>2</sub>	0.011	1900		
TSP	0.020	27011255		No Source Specific
PM <sub>10</sub>	0.020	DE DO TRANS		Emission Limits for
CO	0.142	Y3 /(4)	1	the CMRR Generators
VOC	0.020	(Statements)		Complators
HAPs	1.18E-04	Des Sall Est		

#### 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 occured 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.

Data Disintegrator TA-52-11	January - June Emissions (tons)	July - December Emissions (tons)	Annuai Emissions (tons)	Permit Limits (Condition A1202 A) (tons per year)	
TSP	0.03	there's a transfer	He High St. W.	9.9	
PM10	0.03	Baggieries 12 (b)	STEP NY E	9.9	

#### A1300 TA-3 Power Plant

A1302 Emission Limits - TA-3 Power Plant

Unit No.	NO	)x <sup>l</sup>	C	0	V(	C	S	Эх	T	SP	PN	110	PM	12.5
Omit 140.	Gas	Oil	Gas	Oil	Gas	Oil	Gas	Oil	Gas	Oil	Gas	Oil	Gas	Oi
TA-3-22-1 (lb/hr)	10.2	11.3	7.0	6.5	1.0	0.3	[J	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	Lig	9.6	1.3	4.3	1.3	3.0	1.3	2.0
Boilers Combined (1py)	31	.5	15 21	5	2.	8	en neit	9 = 1 = 1 ahudi 1	4	7 12 10 7 12 10 12 17 10 1	4	4	4.	.2
TA-3-22-CT- 1 (lb/hr)	23	.8	29	.0	0.	6	n.w [	.7	5.70m	.9	tion lib (	9	i smed	.9
TA-3-22-CT- I (tpy)	59	.4	72	2.3		5	4	2	4.	8	4.	.8	4.	.8
TA-3-22-CT- 1 (ppm)	25 pj @ 15		N/	Α	N/	Ά	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 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

Yes	Date report submitted:	Tracking Number:	
 			=

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

Bollers TA-3-22-1, TA-3-22-2, TA-3-22-3	January - June Emissions (tons)	July - December Emissions (tons)	Annuai Emissions (tons)	Permit Limit (Condition A1302 A) (tons per year)
NOx	6.82		1 11.11 1.3	31.5
SO <sub>2</sub>	0.09			4.9
TSP	0.90			4.7
PM <sub>10</sub>	0.90			4.4
PM <sub>2.5</sub>	0.89			4.2
CO	4.70			21.5
VOC	0.65			2.8
HAPs	0.22			No Source Limit

A1300 TA-3 Power Plan Comments:	t			Design \$100.00
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	LIMBOOKS II	1.062 0 HOTOPA (*)	59.4
SOx	0.06			4.2
TSP	0.12		A 1 1 1 1	4.8
√ PM <sub>10</sub>	0.12			4.8
PM <sub>2.5</sub>	0.12	1	In A	4.8
CO	0.19	WASTING SHE		72.3
VOC	0.04	10 C	Man Escribilis	1,5
HAPs	0.03			No Source Limit

Unit	No	Individual HAP <sup>1</sup> (tpy)	Total HAPs <sup>1</sup> (tpy)	
Facility		Tel save extendes	BUTTER DESCRIPTION OF THE PARTY	
Open B	urning	8.0	24.0	
			included in the facility-wide	HAP emission limits at Table 106.B
eporting 1 1407 A			in all in Earling A 100 and in	200
1407 A	The bermi	ttee shall submit reports descri	bed in Section A109 and in	accordance with B110.
		nnual Report of actual emission		
		t is due within 90 days following		reporting period as defined at O, SO2, VOC, TSP, PM10, and
	PM2.5 sha	Il not include fugitive emission	ns. Emission estimates of HA	APs shall include fugitive
	emissions.	Emission estimates shall not in	nclude Insignificant or Trivi	al Activities, except that facility-
	comparisor	n of actual emissions that occu	oustion sources shall be esting the reporting perior	nated. The reports shall include a iod with the facility-wide
		emission limits at Table 106.B.		
4:	<del></del>			
s this reportii No below.	ıg requiren	nent been met during this repor	rting period with a separate i	reporting submittal? Answer Yes
THE COLOW.				#
] '	Yes	Date report submitted:	Trackir	ng Number:
a	No Pro	vide comments and identify a	any supporting documents	tion as an attachment
mments:				
	activities	took place during the first 6 me	onths of 2013	
opon bonning	, 401,111,00	took place dailing the mat of the	51 till 3 51 25 15.	
				×
			¥	

A102 Facility	Wide	<b>Emission</b>	Limits
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Table 102.A:	Total	Potential	Criteria	<b>Pollutant</b>	Emissions	from	<b>Entire Facility</b>

Pollutant	Emissions (tons per year)
Nitrogen Oxides (NOx)	245.0
Carbon Monoxide (CO)	225.0
Volatile Organic Compounds (VOC)	200.0
Sulfur Dioxide (SO <sub>2</sub> )	150.0
Total Particulate Matter (TSP)	120.0
Particulate Matter less than 10 microns (PM <sub>10</sub> )	120.0
Particulate Matter less than 2.5 microns (PM <sub>2.5</sub> )	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 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 occured 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.			

Ves	Date report submitted:	

Tracking Number:

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

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
Voiatile Organic Carbons	6.9			200
Sulfur Dioxide	0.3			150
Totai 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





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

Date: \$

SEP 1 7 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 <a href="mailto:story@lanl.gov">story@lanl.gov</a>.

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: Subject:

Whetham, Walter 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

Phone: (505) 667-7512 Fax: (505)665-4424 clblackwell@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 ite	em? Yes 🔲 No 🗵	1		
From: Walter Whetham			☑ Call for Pick-up				
Organization: ENV-CP			Name: Linda M. Salazar	Phone: 7-7407			
Title: Identify docume	ent, briefly describi	ng 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							
		red by LANL's Operat	ting Permit No: P100-R1-M3. The rep	port includes actual			
emissions from permitte	a sources.						
ACTION remuested a	of Laboratory Dire	oton on Doolanoo					
ACTION requested of	of Laboratory Dire	ector or Designee:			14		
Review and endorse.							
PAD Endorsement							
Name (print)		Signature		Date			
Carl A. Beard, P.	ADOPS	na					
AD Endorsement							
Name (print)		Signature 4	2	Date			
Michael T. Brandt	ADESH	MA	NY	9/12/13			
Coordinated with	, ]			70717			
1. Name (print)	Ī	Signature (		Date			
Alison M. Dorries,	, ENV-DO	(hi	Domi	9/12/13			
2. Name (print)		Signature /	1	Date / /			
Anthony R. Griegg	s, ENV-CP	AK	9	9/12/13			
3. Name (print)		Signature		Date /			
Steven L. Story,	ENV-CP	SIC	Stong	7/11/2013			
4. Name (print)	,	Signature		Date			
Walter W. Whethar	m, ENV-CP	Will Wh	de la companya della companya della companya de la companya della	9-9-2013			
5. Name (print)		Signature		Date			
Cindy Blackwell, I		Please see the	attached email from Cindy.	9-9-2013			

Please ensure appropriate PAD/AD/Division coordination and review prior

Form 1824 (8/12)