

Associate Directorate for ESH&Q P.O. Box 1663, MS K491 Los Alamos, New Mexico 87545 505-667-4218/Fax 505-665-3811

Compliance Reporting Manager Compliance & Enforcement Section New Mexico Environment Department Air Quality Bureau 1301 Siler Road, Building B Santa Fe, NM 87507 Date: August 21, 2009 Refer To: ESH&Q-09-043



IDEA ID NO. 856 – LOS ALAMOS NATIONAL LABORATORY (LANL) OPERATING PERMIT NO: P100M2 SEMI-ANNUAL EMISSIONS REPORT – JANUARY 1, 2009 TO JUNE 30, 2009

Dear Compliance Reporting Manager:

Enclosed is Los Alamos National Laboratory's (LANL) Semi-Annual Emissions report for the period January 1, 2009 through June 30, 2009. This report is required by permit condition 4.1 and is submitted within 90 days from the end of the reporting period as required by permit condition 4.3.

The semi-annual emissions report includes actual emissions from permitted sources included in section 2.0 of 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.

Sincerely,

J. Chris Cantwell

Associate Director, ESH&Q

www

Cy:

I.E. Richardson, III, , DIR, A100

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IRM-RM550, A150

ENV-EAQ Title V Emissions Report File

ENV-EAQ Admin File

ESH&Q File

Title V Operating Permit Semi-Annual Emission Report January 1, 2009 – June 30, 2009

Identifying Information	
Source Name: Los Alamos National Laboratory	County: Los Alamos .
Source Address: City: Los Alamos	State: <u>NM</u> Zip Code: <u>87545</u>
Responsible Official: <u>J. Chris Cantwell</u> Technical Contact: <u>Steven L. Story</u> Principal Company Product or Business: <u>National Secu</u>	Ph No. <u>(505) 606-2354</u> Fax No. <u>(505) 665-3811</u> Ph No. <u>(505) 665-2169</u> Fax No. <u>(505) 665-8858</u> rity and Nuclear Weapons Research Primary SIC Code: <u>9711</u>
Permit No. P100M2 {IDEA/Tempo ID No. 856}	Permit Issued Date: July 16, 2007
	·
Certification of Truth, Accuracy, and	Completeness
I, <u>J. Chris Cantwell</u> certify that, based on information information in the attached semi-annual emission report	and belief formed after reasonable inquiry, the statements and are true, accurate, and complete.
Signature / Canterly	Date: 8/21/09
Title: Associate Director Environmental, Safety, Healt	• •

Enclosure

Los Alamos National Laboratory's
Title V Operating Permit
Emissions Report for the period
January 1, 2009 – June 30, 2009

Title V Semi-Annual Emission Report for Permit P100M2

Emission Reporting Requirements

4.0 Reporting

Conditions of 4.0 are pursuant to 20.2.70.302.E NMAC.

- 4.1 Reports of actual emissions from permitted sources in Section 2.0 shall be submitted on a 6 month basis. Reports shall not include emissions from insignificant activities. Emission estimates of criteria pollutants NOx, CO, SO2, PM and VOCs shall not include fugitive emissions. Emission estimates of HAPs shall include fugitive emissions. The reports shall include a comparison of actual emissions that occurred during the reporting period with the facility-wide allowable emission limits specified in Section 2.10 of this permit.
- 4.3 The report required by Condition 4.1 shall be submitted within 90 days from the end of the reporting period. The semiannual report required by Condition 4.2 shall be submitted within 45 days from the end of the reporting period. The reporting periods are January 1st to June 30th and July 1st to December 31st. This condition is pursuant to 20.2.70.302.E.1 NMAC.

Specific Emissions Reports:

2.1 Asphalt Production

2.1.2 Emission Limits

Emission	Allowable Emission Limits				
Unit	NO _x	SO ₂	PM	CO	VOC
TA-60-BDM	1.0 tpy	1.0 tpy	0.04 gr/dscf 35.4 lbs/hr	2.6 tpy	1.0 tpy

Reporting Requirement

- 2.1.6.1 Reports shall be submitted in accordance with conditions 4.1 and 4.2. (1)
- 4.1 Reports of actual emissions from permitted sources in Section 2.0 shall be submitted on a 6 month basis. Reports shall not include emissions from insignificant activities. Emission estimates of criteria pollutants NOx, CO, SO₂, PM and VOCs shall not include fugitive emissions. Emission estimates of HAPs shall include fugitive emissions. The reports shall include a comparison of actual emissions that occurred during the reporting period with the facility-wide allowable emission limits specified in Section 2.10 of this permit.

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

г	Yes	Date report submitted:
- 1	ı res	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 2.1.2) (tons per year)
NOx	0.017			1.0
SO ₂	0.002			1.0
PM	0.010			*35.4 lb/hr
CO	0.605			2.6
VOC	0.004			1.0
HAPs	0.004			No Source Permit Limit

Note: * The Asphalt Plant does not have an annual limit for PM. The hourly emissions were demonstrated during the initial source compliance test conducted on August 25th & 26th, 2005, and a retest of the plant conducted on May 18, 2009.

⁽¹⁾ Condition 4.2 refers to submitting a Semi-Annual Monitoring report which LANL submitted on August 5, 2009, Tracking Number SBR20090006.

2.2 Beryllium Activities

2.2.2 Emission Limits

Source	Allowable Emission Limits			
	Beryllium	Aluminum		
Chemistry and Metallurgy Research Facility TA-3-29	10 gm/24 hr	Not Applicable		
Sigma Facility TA-3-66	10 gm/24 hr	Not Applicable		
Beryllium Test Facility TA-3-141	0.35 gm/24 hr 3.5 gm/yr	Not Applicable		
TA-16-207	10 gm/24 hr	Not Applicable		
TA-35-87	10 gm/24 hr	Not Applicable		
Target Fabrication Facility TA-35-213	1.8 x 10 ⁻⁰⁴ gm/hr 0.36 gm/yr	Not Applicable		

Source	Allowable Emission Limits				
	Beryllium	Aluminum			
Plutonium Facility TA-55-PF4					
Machining Operation	0.12 gm/24 hr 2.99 gm/yr	0.12 gm/24 hr 2.99 gm/yr			
Foundry Operation	3.49 x 10 ⁻⁵ gm/24 hr 8.73 x 10 ⁻⁴ gm/yr	3.49 x 10 ⁻⁵ gm/24 hr 8.73 x 10 ⁻⁴ gm/yr			

Reporting Requirement

- 2.2.6 Reports shall be submitted in accordance with conditions 4.1 and 4.2. (1)
- 4.1 Reports of actual emissions from permitted sources in Section 2.0 shall be submitted on a 6 month basis. Reports shall not include emissions from insignificant activities. Emission estimates of criteria pollutants NOx, CO, SO₂, PM and VOCs shall not include fugitive emissions. Emission estimates of HAPs shall include fugitive emissions. The reports shall include a comparison of actual emissions that occurred during the reporting period with the facility-wide allowable emission limits specified in Section 2.10 of this permit.

⁽¹⁾ Condition 4.2 refers to submitting a Semi-Annual Monitoring report which LANL submitted on August 5, 2009, Tracking Number SBR20090006.

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

Answer Yes or	r No below.		
Yes	Date report submitted:	Tracking Number:	
X No 1	Provide comments and identify any su	pporting documentation as an attachment.	
Comments:	Continued on the next page		

2.2 Beryllium Activities - continued

Comments:

Source	Pollutant	January - June Emissions	July - December Emissions	Annual Emissions	Permit Limits (Condition 2.2.2)
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	Beryllium (grams)	< 1.495			2.99 gm/yr
Machining Operation ⁽³⁾	Aluminum (grams)	< 1.495			2.99 gm/yr
Plutonium Facility TA-55-PF4	Beryllium (grams)	0			8.73 x 10 ⁻⁴ gm/yr
Foundry Operation ⁽⁴⁾	Aluminum (grams)	0			8.73 x 10 ⁻⁴ gm/yr
Beryllium To	Beryllium Total ⁽⁵⁾ (tons) =				
Aluminum T	otal (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 in the first 6 months of 2009. ⁽⁵⁾ Other Beryllium activities listed in section 2.2 of the permit do not require reporting in the Semi-Annual Emissions Report.

2.3 Boilers and Heaters

2.3.2 Emission Limits

Source	Allowable Emission Limits				
All Boilers	NO_x	CO	PM or PM ₁₀	SO ₂	VOC
and Heaters ¹	(tpy)	(tpy)	(tpy)	(tpy)	(tpy)
	80	80	50	50	50

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

Reporting Requirement

- 2.3.6.1 Reports shall be submitted in accordance with conditions 4.1 and 4.2. (1)
- 4.1 Reports of actual emissions from permitted sources in Section 2.0 shall be submitted on a 6 month basis. Reports shall not include emissions from insignificant activities. Emission estimates of criteria pollutants NOx, CO, SO₂, PM and VOCs shall not include fugitive emissions. Emission estimates of HAPs shall include fugitive emissions. The reports shall include a comparison of actual emissions that occurred during the reporting period with the facility-wide allowable emission limits specified in Section 2.10 of this permit.

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

Yes	Doto	roport	submitted:
res	Date	report	submitted

Tracking Number:

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

Comments:

Boilers and Heaters	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition 2.3.2) (tons per year)
NOx	14.00			80
SO ₂	0.09			50
PM	1.11			50
PM-10	1.11			50
CO	11.36			80
VOCs	0.78			50
HAPs	0.27			No Source Limit

Note: The emissions shown in this table include significant and insignificant sources. This section does not include the TA-3-22 Power Plant boilers. These can be found under Section 2.9 of this report.

⁽¹⁾ Condition 4.2 refers to submitting a Semi-Annual Monitoring report which LANL submitted on August 5, 2009, Tracking Number SBR20090006.

2.4 Carpenter Shops

2.4.2 Emission Limits

Source	Allowable Emission Limits
Source	PM ₁₀ (tp y)
TA-15-563	2.81
TA-3-38	3.07

Reporting Requirement

- 2.4.6.1 Reports shall be submitted in accordance with conditions 4.1 and 4.2. (1)
- 4.1 Reports of actual emissions from permitted sources in Section 2.0 shall be submitted on a 6 month basis. Reports shall not include emissions from insignificant activities. Emission estimates of criteria pollutants NOx, CO, SO₂, PM and VOCs shall not include fugitive emissions. Emission estimates of HAPs shall include fugitive emissions. The reports shall include a comparison of actual emissions that occurred during the reporting period with the facility-wide allowable emission limits specified in Section 2.10 of this permit.
- $(1) \ Condition \ 4.2 \ refers \ to \ submitting \ a \ Semi-Annual \ Monitoring \ report \ which \ LANL \ submitted \ on \ August \ 5, \ 2009, \ Tracking \ Number \ SBR 20090006.$

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.

Shop	Pollutant	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition 2.4.2) (tons per year)
TA-3-38	PM ₁₀	0.009			3.07
TA-15-563	PM ₁₀	0.013			2.81

2.5 Chemical Usage

- 2.5.2 Emission Limits
- 2.5.3.1 The contribution of VOC and/or HAPs emissions from chemical usage shall not cause the exceedence of the corresponding facility-wide limit listed below:

200 tons per year of facility-wide VOCs

8 tons per year of individual facility-wide HAP

24 tons per year of total facility-wide HAPs

Reporting Requirement

- 2.5.5.1 Reports shall be submitted in accordance with conditions 4.1 and 4.2. $^{(1)}$
- 4.1 Reports of actual emissions from permitted sources in Section 2.0 shall be submitted on a 6 month basis. Reports shall not include emissions from insignificant activities. Emission estimates of criteria pollutants NOx, CO, SO₂, PM and VOCs shall not include fugitive emissions. Emission estimates of HAPs shall include fugitive emissions. The reports shall include a comparison of actual emissions that occurred during the reporting period with the facility-wide allowable emission limits specified in Section 2.10 of this permit.

⁽¹⁾ Condition 4.2 refers to submitting a Semi-Annual Monitoring report which LANL submitted on August 5, 2009, Tracking Number SBR20090006.

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:
1 1 1 1 1 1 1	Date report submitted.	Tracking number.

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

Chemical Usage LANL-FW-CHEM	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition 2.5.3.1)
VOCs	3.9			Source limits refer
HAPs	1.4			to facility-wide
Highest Individual HAP for the				limits.
first six months of 2009	0.5			
(Hydrochloric Acid)				

2.6 Degreasers

2.6.2 Emission Limits

2.6.2.1 The contribution of VOC and/or HAP emissions from chemical usage shall not cause the exceedence of the corresponding facility-wide limit listed below:

200 tons per year of facility-wide VOCs 8 tons per year of an individual facility-wide HAP 24 tons per year of total facility-wide HAPs

Reporting Requirement

2.6.6.3 Reports shall be submitted in accordance with conditions 4.1 and 4.2. (1)

4.1 Reports of actual emissions from permitted sources in Section 2.0 shall be submitted on a 6 month basis. Reports shall not include emissions from insignificant activities. Emission estimates of criteria pollutants NOx, CO, SO₂, PM and VOCs shall not include fugitive emissions. Emission estimates of HAPs shall include fugitive emissions. The reports shall include a comparison of actual emissions that occurred during the reporting period with the facility-wide allowable emission limits specified in Section 2.10 of this permit.

(1) Condition 4.2 refers to submitting a Semi-Annual Monitoring report which LANL submitted on August 5, 2009, Tracking Number SBR20090006.

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

	Yes	Date report submitted:
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Tracking Number:

Comments:

Degreaser TA-55-DG-1	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition 2.6.2.1) (tons per year)
VOCs	0.007			Source limits refer to facility-wide
HAPs	0.007			limits. (See Facility Emissions Table or Page 1)

Note: Degreasers TA-55-DG-2 and TA-55-DG-3 were not used in the first six months of 2009. The units have been removed from LANL and will not be used in the future. The Title V application submitted to NMED in April 2008 reflects this change.

2.7 Internal Combustion Sources

2.7.2 Emission Limits

Source	Allowable Emission Limits											
	TS	SP	PM:	110	N	Ox	С	0	VO	DC	S	O_{x}
TA-33-G-1	pph	tpy	pph	tpy	pph	tpy	pph	tpy	pph	tpy	pph	tpy
	1.4	0.6	1.4	0.6	40.3	18.1	33.7	15.2	0.7	0.3	5.5	2.5

Reporting Requirement

2.7.6.1 Reports shall be submitted in accordance with conditions 4.1 and 4.2. (1)

4.1 Reports of actual emissions from permitted sources in Section 2.0 shall be submitted on a 6 month basis. Reports shall not include emissions from insignificant activities. Emission estimates of criteria pollutants NOx, CO, SO₂, PM and VOCs shall not include fugitive emissions. Emission estimates of HAPs shall include fugitive emissions. The reports shall include a comparison of actual emissions that occurred during the reporting period with the facility-wide allowable emission limits specified in Section 2.10 of this permit.

⁽¹⁾ Condition 4.2 refers to submitting a Semi-Annual Monitoring report which LANL submitted on August 5, 2009, Tracking Number SBR20090006.

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:

Comments:

Generator TA-33-G-1	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition 2.7.2) (tons per year)
NOx	0.024			18.1
SO _X	0.004			2.5
TSP	0.001			0.6
PM ₁₀	0.001			0.6
CO	0.019			15.2
VOC	0.000			0.3
HAPs	5.12E-06			No Source Limit

Continued on the next page.

2.7 Internal Combustion Sources - continued

Comments:

Generator TA-33-G-2	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (NSR Permit 2195-P Condition 2) (tons per year)
NOx	0.000			0.21
SO _X	0.000			Not Required
TSP	0.000			Not Required
PM ₁₀	0.000			Not Required
СО	0.000			0.1
VOC	0.000			Not Required
HAPs	0.00E+00			No Source Limit

Note: This generator is not listed in the latest Title V permit, P100M2. However, it is listed in NSR Permit No. 2195-P which was issued on August 8, 2007 and has been included in the Title V application submitted to NMED in April 2008. This generator did not run during the first six months of 2009.

Generator TA-33-G-3	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (NSR Permit 2195-P Condition 2) (tons per year)
NOx	0.000			0.21
SO _x	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: This generator is not listed in the latest Title V permit, P100M2. However, it is listed in NSR Permit No. 2195-P which was issued on August 8, 2007 and has been included in the Title V application submitted to NMED in April 2008. The unit ran less than an hour during the first six months of 2009.

Generator TA-33-G-4	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (NSR Permit 2195-P Condition 2) (tons per year)
NOx	0.274			2.33
SO _X	0.020			0.16
TSP	0.020			Not Required
PM ₁₀	0.020			Not Required
CO	0.059			1.4
VOC	0.020			0.2
HAPs	8.82E-05			No Source Limit

Note: This generator is not listed in the latest Title V permit, P100M2. However, it is listed in NSR Permit No. 2195-P which was issued on August 8, 2007 and has been included in the Title V application submitted to NMED in April 2008. The emissions from this unit are included in the facility wide total.

Continued on the next page.

2.7 Internal Combustion Sources - continued

Comments:

Stationary Standby Generators	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits
NOx	2.85			
SOx	0.11			
TSP	0.13			No Source Specific
PM ₁₀	0.13			Emission Limits for Standby
CO	0.65			Generators
VOC	0.13			55115161616
HAPs	0.001			

Note: Standby Generators are insignificant sources.

2.8 Data Disintegrator

2.8.2 Emission Limits

Source	Allowable Emission Limits						
TA-52-11	TSP (pph)	TSP (tpy)	PM10 (pph)	PM10 (tpy)			
	2.3	9.9	2.3	9.9			

PM10 and TSP emissions limits shown in above Table are after controls.

Reporting Requirement

2.8.6.1 Reports shall be submitted in accordance with conditions 4.1 and 4.2. (1)

4.1 Reports of actual emissions from permitted sources in Section 2.0 shall be submitted on a 6 month basis. Reports shall not include emissions from insignificant activities. Emission estimates of criteria pollutants NOx, CO, SO₂, PM and VOCs shall not include fugitive emissions. Emission estimates of HAPs shall include fugitive emissions. The reports shall include a comparison of actual emissions that occurred during the reporting period with the facility-wide allowable emission limits specified in Section 2.10 of this permit.

⁽¹⁾ Condition 4.2 refers to submitting a Semi-Annual Monitoring report which LANL submitted on August 5, 2009, Tracking Number SBR20090006.

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)	Annual Emissions (tons)	Permit Limits (Condition 2.8.2) (tons per year)
TSP	0.03			9.9
PM10	0.02			9.9

2.9 Power Plant at Technical Area 3 (TA-3-22)

2.9.2 Emission Limits

	Allowable Emission Limits											
Source	N	Ox	C	O	S	Οx	TS	P	PM	[₁₀	VO	C
	(lb	/hr)	(lb	/hr)	(1b)	(hr)	(1b/	hr)	(1b/1	hr)	(lb/	hr)
	Gas	Oil	Gas	Oi1	Gas	Oil	Gas	Oi1	Gas	Oi1	Gas	Oil
TA-3-22-1	10.2	11.3	7.0	6.5	1.1	9.6	1.3	4.3	1.3	3.0	1.0	0.3
TA-3-22-2	10.2	11.3	7.0	6.5	1.1	9.6	1.3	4.3	1.3	3.0	1.0	0.3
TA-3-22-3	10.2	11.3	7.0	6.5	1.1	9.6	1.3	4.3	1.3	3.0	1.0	0.3
Boilers Combined ¹	60.2	2 tpy	41.3	3 tpy	7.9	tpy	8.4	tpy	8.2	tpy	5.6	tpy
TA-3-22 CT- 1 (lb/hr)	23	3.8	17	0.9	1	.4	1.	6	1.0	6	1.	.0
TA-3-22 CT- 1 (tpy) ^{1,2}	33	3.2	19	9.8	1	.9	2.	3	2	3	•	•

Annual emission limits are 12-month rolling totals. This is pursuant to NSR Permit No. 2195BM1. Table 2.2. Note 1.

Reporting Requirement

2.9.6.1 Reports shall be submitted in accordance with conditions 4.1 and 4.2. (1)

4.1 Reports of actual emissions from permitted sources in Section 2.0 shall be submitted on a 6 month basis. Reports shall not include emissions from insignificant activities. Emission estimates of criteria pollutants NOx, CO, SO₂, PM and VOCs shall not include fugitive emissions. Emission estimates of HAPs shall include fugitive emissions. The reports shall include a comparison of actual emissions that occurred during the reporting period with the facility-wide allowable emission limits specified in Section 2.10 of this permit.

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 supporting documentation as an attachment.
Comments:	Continued on the next page	

²¹⁹⁵BM1, Table 2.2, Note 1.

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

⁽¹⁾ Condition 4.2 refers to submitting a Semi-Annual Monitoring report which LANL submitted on August 5, 2009, Tracking Number SBR20090006.

2.9 Power Plant at Technical Area 3 (TA-3-22) - Continued

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 2.9.2) (tons per year)
NOx	7.87			60.2
SO ₂	0.09			7.9
TSP	1.03			8.4
PM ₁₀	1.03			8.2
CO	5.42			41.3
VOC	0.75			5.6
HAPs	0.26			No Source Limit

Combustion Turbine TA-3-22 CT-1	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limit (Condition 2.9.2) (tons per year)
NOx	0.054			33.2
SO ₂	0.004			1.9
TSP	0.007			2.3
PM ₁₀	0.007			2.3
СО	0.011			19.8
VOC	0.002			No TPY Limit
HAPs	1.46E-03			No Source Limit

2.10 Facility Wide Emission Limits

2.10.1 Emission Limits

Total Allowable Criteria Pollutant and HAP Emission Limits

Pollutant	Emission Limit (tons per year)
Nitrogen Oxides (NO _x)	245
Carbon Monoxide (CO)	225
Volatile Organic Compounds (VOCs)	200
Sulfur Dioxide (SO ₂)	150
Particulate Matter (PM)	120
Hazardous Air Pollutants (HAPs)	24 combined / 8 individual

Reporting Requirement

4.1 Reports of actual emissions from permitted sources in Section 2.0 shall be submitted on a 6 month basis. Reports shall not include emissions from insignificant activities. Emission estimates of criteria pollutants NOx, CO, SO₂, PM and VOCs shall not include fugitive emissions. Emission estimates of HAPs shall include fugitive emissions. The reports shall include a comparison of actual emissions that occurred during the reporting period with the facility-wide allowable emission limits specified in Section 2.10 of this permit.

Has this reporting requirement	been met durin	g this report	ing period w	ith a separate	reporting sul	bmittal?
Answer Yes or No below.						

Yes Date report submitted: Tracking Number:

 $[\chi]$ No Provide comments and identify any supporting documentation as an attachment.

Pollutant	January - June Emissions (tons)	July - December Emissions (tons)	2009 Annual Emissions (tons)	Facility Wide Emission Limits (Permit Condition 2.10.1) (tons per year)
Nitrogen Oxides	25.1			245
Sulfur Dioxide	0.3			150
Particulate Matter	2.4			120
Carbon Monoxide	18.1			225
Volatile Organic Compounds	5.6			200
Hazardous Air Pollutants	1.9			24 combined
Highest Individual HAP (Hydrochloric Acid)	0.5			8 individual