



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

Date: March 20, 2009
Refer To: ESH&Q-09-014

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

**IDEA ID NO. 856 – LOS ALAMOS NATIONAL LABORATORY (LANL)
OPERATING PERMIT NO: P100M2
SEMI-ANNUAL EMISSIONS REPORT – JULY 1, 2008 TO DECEMBER 31, 2008**

Dear Compliance Reporting Manager:

Enclosed is Los Alamos National Laboratory's (LANL) Semi-Annual Emissions report for the period July 1, 2008 through December 31, 2008. 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:

M. Mallory, PADOPS, A102
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IRM-RM550, A150

ENV-EAQ Title V Emissions Report File

ENV-EAQ Admin File

ESH&Q File

Enclosure

Los Alamos National Laboratory's
Title V Operating Permit
Emissions Report for the period
July 1 – December 31, 2008

Title V Operating Permit Semi-Annual Emission Report

July 1, 2008 – December 31, 2008

Identifying Information

Source Name: Los Alamos National Laboratory County: Los Alamos

Source Address:

City: Los Alamos State: NM Zip Code: 87545

Responsible Official: J. Chris Cantwell Ph No. (505) 606-2354 Fax No. (505) 665-3811

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

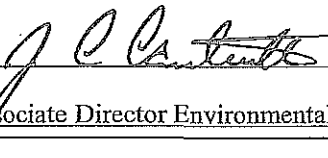
Principal Company Product or Business: National Security and Nuclear Weapons Research Primary SIC Code: 9711

Permit No. P100M2 {IDEA/Tempo ID No. 856} Permit Issued Date: July 16, 2007

Certification of Truth, Accuracy, and Completeness

I, J. Chris Cantwell 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: 3/16/08

Title: Associate Director Environmental, Safety, Health, and Quality

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

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 NO_x, 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 February 5, 2009, Tracking Number SBR20090001.

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 2.1.2) (tons per year)
NO _x	0.013	0.014	0.027	1.0
SO ₂	0.002	0.003	0.005	1.0
PM	0.005	0.005	0.010	*35.4 lb/hr
CO	0.210	0.220	0.430	2.6
VOC	0.004	0.005	0.009	1.0
HAPs	0.004	0.004	0.008	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.

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	1.8×10^{-4} 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	3.49×10^{-5} gm/24 hr 8.73×10^{-4} gm/yr	3.49×10^{-5} gm/24 hr 8.73×10^{-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 NO_x, 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 February 5, 2009, Tracking Number SBR20090001.

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

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	< 0.0033	< 0.007	3.5 gm/yr
Target Fabrication Facility TA-35-213 ⁽²⁾	Beryllium (grams)	< 0.00944	< 0.009	< 0.018	0.36 gm/yr
Plutonium Facility TA-55-PF4 Machining Operation ⁽³⁾	Beryllium (grams)	< 1.495	< 1.41	< 2.91	2.99 gm/yr
	Aluminum (grams)	< 1.495	< 1.41	< 2.91	2.99 gm/yr
Plutonium Facility TA-55-PF4 Foundry Operation ⁽⁴⁾	Beryllium (grams)	0	0	0.00	8.73×10^{-4} gm/yr
	Aluminum (grams)	0	0	0.00	8.73×10^{-4} gm/yr
Beryllium Total⁽⁵⁾ (tons) =		< 1.66E-06	< 1.57E-06	< 3.23E-06	
Aluminum Total (tons) =		< 1.65E-06	< 1.55E-06	< 3.30E-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 2008. ⁽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				
	NO _x (tpy)	CO (tpy)	PM or PM ₁₀ (tpy)	SO ₂ (tpy)	VOC (tpy)
All Boilers and Heaters ¹	80	80	50	50	50

¹ Excludes 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 NO_x, 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 February 5, 2009, Tracking Number SBR20090001.

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:

Boilers and Heaters	January - June Emissions (tons)	July - December Emissions (tons)	Annual Emissions (tons)	Permit Limits (Condition 2.3.2) (tons per year)
NO _x	14.60	10.98	25.58	80
SO ₂	0.09	0.07	0.16	50
PM	1.16	0.87	2.03	50
PM-10	1.16	0.87	2.03	50
CO	11.83	8.86	20.69	80
VOCs	0.81	0.61	1.42	50
HAPs	0.28	0.21	0.49	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.

2.4 Carpenter Shops

2.4.2 Emission Limits

Source	Allowable Emission Limits
	PM ₁₀ (tpy)
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 NO_x, 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 February 5, 2009, Tracking Number SBR20090001.

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:

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	0.006	0.011	0.017	3.07
TA-15-563	PM ₁₀	0.013	0.015	0.028	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 February 5, 2009, Tracking Number SBR20090001.

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 2.5.3.1)
VOCs	4.7	4.3	9.0	Source limits refer to facility-wide limits.
HAPs	2.6	1.9	4.5	
Highest Individual HAP for both the first and the second six months (Hydrochloric Acid)	0.5	0.5	1.0	

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 NO_x, 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 February 5, 2009, Tracking Number SBR20090001.

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 2.6.2.1) (tons per year)
VOCs	0.010	0.005	0.015	Source limits refer to facility-wide limits. (See Facility Emissions Table on Page 1)
HAPs	0.010	0.005	0.015	

Note: Degreasers TA-55-DG-2 and TA-55-DG-3 were not used in 2008. 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											
	TSP		PM10		NO _x		CO		VOC		SO _x	
	pph	tpy	pph	tpy	pph	tpy	pph	tpy	pph	tpy	pph	tpy
TA-33-G-1	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 NO_x, 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 February 5, 2009, Tracking Number SBR20090001.

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 2.7.2) (tons per year)
NO _x	0.359	0.181	0.540	18.1
SO _x	0.053	0.027	0.080	2.5
TSP	0.012	0.006	0.018	0.6
PM ₁₀	0.012	0.006	0.018	0.6
CO	0.292	0.148	0.440	15.2
VOC	0.007	0.003	0.010	0.3
HAPs	7.73E-05	3.91E-05	1.16E-04	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)
NO _x	0.000	0.000	0.000	0.21
SO _x	0.000	0.000	0.000	Not Required
TSP	0.000	0.000	0.000	Not Required
PM ₁₀	0.000	0.000	0.000	Not Required
CO	0.000	0.000	0.000	0.1
VOC	0.000	0.000	0.000	Not Required
HAPs	0.00E+00	0.00E+00	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 2008 and ran for less than an hour during the second six months of 2008.

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)
NO _x	0.008	0.000	0.009	0.21
SO _x	0.001	0.000	0.001	Not Required
TSP	0.001	0.000	0.001	Not Required
PM ₁₀	0.001	0.000	0.001	Not Required
CO	0.002	0.000	0.002	0.1
VOC	0.001	0.000	0.001	Not Required
HAPs	2.68E-06	0.00E+00	2.68E-06	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 second six months of 2008. The emissions from this unit are included in the facility wide total.

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)
NO _x	0.000	0.255	0.255	2.33
SO _x	0.000	0.018	0.018	0.16
TSP	0.000	0.018	0.018	Not Required
PM ₁₀	0.000	0.018	0.018	Not Required
CO	0.000	0.055	0.055	1.4
VOC	0.000	0.018	0.018	0.2
HAPs	0.00E+00	8.21E-05	8.21E-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. This generator did not run during the first six months of 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
NO _x	2.46	2.52	4.97	No Source Specific Emission Limits for Standby Generators
SO _x	0.08	0.08	0.17	
TSP	0.11	0.11	0.21	
PM ₁₀	0.11	0.11	0.21	
CO	0.56	0.56	1.12	
VOC	0.11	0.11	0.22	
HAPs	7.97E-04	6.49E-04	1.45E-03	

Note: Standby Generators are insignificant sources.

2.8 Data Disintegrator

2.8.2 Emission Limits

Source	Allowable Emission Limits			
	TSP (pph)	TSP (tpy)	PM10 (pph)	PM10 (tpy)
TA-52-11	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 NO_x, 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 February 5, 2009, Tracking Number SBR20090001.

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 2.8.2) (tons per year)
TSP	0.19	0.12	0.31	9.9
PM10	0.17	0.11	0.28	9.9

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

2.9.2 Emission Limits

Source	Allowable Emission Limits											
	NOx (lb/hr)		CO (lb/hr)		SOx (lb/hr)		TSP (lb/hr)		PM ₁₀ (lb/hr)		VOC (lb/hr)	
	Gas	Oil	Gas	Oil	Gas	Oil	Gas	Oil	Gas	Oil	Gas	Oil
TA-3-22-1	10.2	11.3	7.0	6.5	1.1	9.6	1.3	4.3	1.3	3.0	1.0	0.3
TA-3-22-2	10.2	11.3	7.0	6.5	1.1	9.6	1.3	4.3	1.3	3.0	1.0	0.3
TA-3-22-3	10.2	11.3	7.0	6.5	1.1	9.6	1.3	4.3	1.3	3.0	1.0	0.3
Boilers Combined ¹	60.2 tpy		41.3 tpy		7.9 tpy		8.4 tpy		8.2 tpy		5.6 tpy	
TA-3-22 CT- 1 (lb/hr)	23.8		170.9		1.4		1.6		1.6		1.0	
TA-3-22 CT- 1 (tpy) ^{1,2}	33.2		19.8		1.9		2.3		2.3		-	

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

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

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.

(1) Condition 4.2 refers to submitting a Semi-Annual Monitoring report which LANL submitted on February 5, 2009, Tracking Number SBR20090001.

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

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

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 2.9.2) (tons per year)
NO _x	7.98	6.09	14.07	60.2
SO ₂	0.09	0.06	0.15	7.9
TSP	1.05	0.80	1.85	8.4
PM ₁₀	1.05	0.80	1.85	8.2
CO	5.50	4.20	9.70	41.3
VOC	0.76	0.58	1.34	5.6
HAPs	0.26	0.20	0.46	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)
NO _x	0.014	0.413	0.427	33.2
SO ₂	0.001	0.029	0.030	1.9
TSP	0.002	0.056	0.058	2.3
PM ₁₀	0.002	0.056	0.058	2.3
CO	0.003	0.086	0.089	19.8
VOC	0.001	0.018	0.019	No TPY Limit
HAPs	3.93E-04	1.12E-02	1.16E-02	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 NO_x, 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:

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

Comments:

Pollutant	January - June Emissions (tons)	July - December Emissions (tons)	2008 Annual Emissions (tons)	Facility Wide Emission Limits (Permit Condition 2.10.1) (tons per year)
Nitrogen Oxides	25.4	20.4	45.8	245
Sulfur Dioxide	0.3	0.3	0.6	150
Particulate Matter	2.5	2.0	4.5	120
Carbon Monoxide	18.4	14.1	32.5	225
Volatile Organic Compounds	6.4	5.6	12.0	200
Hazardous Air Pollutants	3.2	2.3	5.5	24 combined
Highest Individual HAP (Hydrochloric Acid)	0.5	0.5	1.0	8 individual



**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: Los Alamos National Security			D. ® Facility Name: Los 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	E.2 ® City:	
C.1 ® Company Environmental Contact: Dianne Wilburn		C.2 ® Title: EAQ Group Leader		F.1 ® Facility Contact: Steve Story	
C.3 ® Phone Number: 505-667-6952		C.4 ® Fax Number: 505-665-8858		F.2 ® Title: Air Compliance Team Leader	
C.5 ® Email Address: dianne@lanl.gov			F.3 ® Phone Number: 505-665-2169		
G. Responsible Official: (Title V only): J. Chris Cantwell			H. Title: Associate Director ESH&Q		F.4 ® Fax Number: 505-665-8858
I. Phone Number: 505-606-2354		J. Fax Number: 505-665-3811		F.5 ® Email Address: story@lanl.gov	
K. ® AI Number: 856	L. Title V Permit Number: P100M2	M. Title V Permit Issue Date: 7/16/2007	N. NSR Permit Number: 2195	O. NSR Permit Issue Date: Various	
P. Reporting Period: From: 7/1/2008 To: 12/31/2008		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 4.1	Description: Title V Semi-Annual Emissions Report July - December 2008		
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: _____	
	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"/>	Description: (Emission Units to be Tested)

SECTION IV - CERTIFICATION					
After reasonable inquiry, I <u>J. Chris Cantwell</u> certify that the information in this submittal is true, accurate and complete. (name of reporting official)					
® Signature of Reporting Official: 		® Title: Assoc. Director ESH&Q		® Date: 3/16/09	
				® Responsible Official for Title V? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Reviewed By: _____

Date Reviewed: _____