



Environmental Protection Division
Ecology and Air Quality Group
P.O. Box 1663, MS J978
Los Alamos, New Mexico 87545
(505) 665-8855/FAX: (505) 665-8858

Date: January 29, 2009
Refer to: ENV-EAQ:09-027

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

**IDEA ID 856 – LOS ALAMOS NATIONAL LABORATORY
2008 FOURTH QUARTER BERYLLIUM EMISSIONS REPORT
OCTOBER 1– DECEMBER 31, 2008
AIR QUALITY PERMIT NO. 634-M2**

Dear Compliance Reporting Manager:

Attached as Enclosure 1 you will find a copy of the sampling data obtained from the continuous air monitor installed on the main exhaust stack at the Beryllium Technology Facility (BTF) at Los Alamos National Laboratory (LANL) for the **fourth quarter of calendar year 2008**. This submission of the quarterly emissions data, collected from this source, is required by permit condition 5.f of NMED Air Quality Permit #634-M2 dated October 30, 1998. Furthermore, this quarterly report is transmitted within the allowed 60 days after the end of the calendar quarter, as specified in the permit.

As specified in permit #634-M2, the beryllium stack emissions from the BTF shall not exceed 0.35 grams in a 24-hour time period and shall not exceed 3.5 grams per year. As can be seen on the attached data sheet, the highest daily emission rate (HDER) during the fourth quarter of calendar year 2008 was $< 2.11 \times 10^{-5}$ grams per 24 hours, which is well below the daily permit limit. The total amount of beryllium emitted for the fourth quarter of calendar year 2008 was $< 1.65 \times 10^{-3}$ grams. Additionally, the total for the first four quarters of calendar year 2008 was $< 6.50 \times 10^{-3}$ grams, which is well below the 3.5 gram per year limit specified in the permit. Also, on the attached data sheet, you will note that the last data point for calendar year 2008 is December 24, 2008. This is due to the laboratory closure over the holidays during which time the facility did not process material. Stack samples are not collected during this time and are allowed to remain in the sample collector for two weeks. This two-week sample will be reported as part of the first quarter 2009 emission report for this facility. Based on the attached information, LANL is in compliance with condition #2 of NMED Air Quality Permit #634-M2.

Compliance Reporting Manager
ENV-EAQ:09-027
LA-UR:09-00790

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January 29, 2009

If you have any questions or comments regarding this submittal or would like to discuss this in greater detail, please feel free to contact Steve Story at 665-2169 or Kathleen Gorman-Bates at 665-1338.

Sincerely,



Dianne Wilburn
Ecology & Air Quality Group

KGB/DW:alb

Enc: a/s

Cy:

Jan Van Prooyen, DIR, A100
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S. Fong, DOE-LA-SO, A316
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ENV-EAQ Beryllium Permit #634 Quarterly Report File
ENV-EAQ File

Enclosure 1

**Beryllium 2008 Stack Emissions
TA-03-0141**

TA-3-141 StackID: 3014101

Sampling dates		Emissions (g)		Comments	
		Weekly(1)	Daily(2)		
		<i>Sum of weekly results must be <3.5 g/year</i>	<i>Cannot Exceed 0.35 g/day</i>		
Period #: 1					
12/20/2007	-	1/3/2008	< 1.21E-04	< 8.66E-06	Run time due to Holiday.
1/3/2008	-	1/10/2008	< 1.21E-04	< 1.73E-05	
1/10/2008	-	1/17/2008	< 1.21E-04	< 1.73E-05	
1/17/2008	-	1/24/2008	< 1.21E-04	< 1.74E-05	
1/24/2008	-	1/31/2008	< 1.21E-04	< 1.72E-05	
Period 1 Sum: <			6.05E-04		
Period #: 2					
1/31/2008	-	2/7/2008	< 1.21E-04	< 1.74E-05	
2/7/2008	-	2/14/2008	< 1.21E-04	< 1.74E-05	
2/14/2008	-	2/21/2008	< 1.21E-04	< 1.74E-05	
2/21/2008	-	2/28/2008	< 1.21E-04	< 1.73E-05	
Period 2 Sum: <			4.84E-04		
Period #: 3					
2/28/2008	-	3/6/2008	< 1.21E-04	< 1.70E-05	Run time due to 2 hour weather delay. Sample pump off.
3/6/2008	-	3/13/2008	< 1.21E-04	< 1.76E-05	Run time due to 2 hour delay.
3/13/2008	-	3/20/2008	< 1.21E-04	< 1.71E-05	
3/20/2008	-	3/27/2008	< 1.21E-04	< 1.73E-05	
3/27/2008	-	4/3/2008	< 1.21E-04	< 1.75E-05	
Period 3 Sum: <			6.05E-04		
1st Quarter Total: <			1.69E-03	HDER <	1.76E-05

^a HDER = Highest Daily Emission Rate

**Beryllium 2008 Stack Emissions
TA-03-0141**

Period #: 4

4/3/2008	-	4/10/2008	<	1.21E-04	<	1.75E-05
4/10/2008	-	4/17/2008	<	1.21E-04	<	1.73E-05
4/17/2008	-	4/24/2008	<	1.21E-04	<	1.74E-05
4/24/2008	-	5/1/2008	<	1.21E-04	<	1.73E-05
			Period 4 Sum: <	4.84E-04		

Period #: 5

5/1/2008	-	5/8/2008	<	1.27E-04	<	1.82E-05
5/8/2008	-	5/15/2008	<	1.27E-04	<	1.82E-05
5/15/2008	-	5/22/2008	<	1.27E-04	<	1.82E-05
5/22/2008	-	5/29/2008	<	1.27E-04	<	1.82E-05
			Period 5 Sum: <	5.08E-04		

Period #: 6

5/29/2008	-	6/5/2008	<	1.27E-04	<	1.82E-05
6/5/2008	-	6/12/2008	<	1.27E-04	<	1.82E-05
6/12/2008	-	6/19/2008	<	1.27E-04	<	1.82E-05
6/19/2008	-	6/26/2008	<	1.27E-04	<	1.82E-05
6/26/2008	-	7/3/2008	<	1.27E-04	<	1.80E-05
			Period 6 Sum: <	6.35E-04		

2nd Quarter Total: <	1.63E-03	HDER <	1.82E-05
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^a HDER = Highest Daily Emission Rate

**Beryllium 2008 Stack Emissions
TA-03-0141**

Period #: 7

7/3/2008	-	7/10/2008	<	1.27E-04	<	1.77E-05
7/10/2008	-	7/17/2008	<	1.27E-04	<	1.85E-05
7/17/2008	-	7/24/2008	<	1.27E-04	<	1.87E-05
7/24/2008	-	7/31/2008	<	1.27E-04	<	1.82E-05

Period 7 Sum: < 5.08E-04

Period #: 8

7/31/2008	-	8/7/2008	<	1.27E-04	<	1.82E-05
8/7/2008	-	8/14/2008	<	1.27E-04	<	1.82E-05
8/14/2008	-	8/21/2008	<	1.27E-04	<	1.81E-05
8/21/2008	-	8/28/2008	<	1.27E-04	<	1.84E-05

Period 8 Sum: < 5.08E-04

Period #: 9

8/28/2008	-	9/4/2008	<	1.27E-04	<	1.82E-05
9/4/2008	-	9/11/2008	<	1.27E-04	<	1.82E-05
9/11/2008	-	9/18/2008	<	1.27E-04	<	1.82E-05
9/18/2008	-	9/25/2008	<	1.27E-04	<	1.82E-05

Period 9 Sum: < 5.08E-04

3rd Quarter Total: <	1.52E-03	HDR	<	1.87E-05
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Stack fan off.

^a HDR = Highest Daily Emission Rate

**Beryllium 2008 Stack Emissions
TA-03-0141**

Period #: 10

9/25/2008	-	10/2/2008	<	1.27E-04	<	1.82E-05
10/2/2008	-	10/9/2008	<	1.27E-04	<	1.79E-05
10/9/2008	-	10/16/2008	<	1.27E-04	<	1.85E-05
10/16/2008	-	10/23/2008	<	1.27E-04	<	1.82E-05
10/23/2008	-	10/30/2008	<	1.27E-04	<	1.82E-05
			Period 10 Sum: <	6.35E-04		

Period #: 11

10/30/2008	-	11/6/2008	<	1.27E-04	<	1.81E-05	Run time due to fall back one hour.
11/6/2008	-	11/13/2008	<	1.27E-04	<	1.84E-05	
11/13/2008	-	11/20/2008	<	1.27E-04	<	1.81E-05	
11/20/2008	-	11/26/2008	<	1.27E-04	<	2.11E-05	Run time due to Holiday.
			Period 11 Sum: <	5.08E-04			

Period #: 12

11/26/2008	-	12/4/2008	<	1.27E-04	<	1.61E-05	
12/4/2008	-	12/11/2008	<	1.27E-04	<	1.78E-05	
12/11/2008	-	12/18/2008	<	1.27E-04	<	1.87E-05	
12/18/2008	-	12/24/2008	<	1.27E-04	<	2.08E-05	Date of change-out due to weather conditions.
			Period 12 Sum: <	5.08E-04			

4th Quarter Total: <	1.65E-03	HDR	<	2.11E-05
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Sum of four quarters: <	6.50E-03
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Stop
1/16/09

^a HDR = Highest Daily Emission Rate



**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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REPORTING SUBMITTAL FORM

PLEASE NOTE: ® - Indicates required field

SECTION I - GENERAL COMPANY AND FACILITY INFORMATION					
A. ® Company Name: Los Alamos National Laboratory			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:	E.3 ® State:	E.4 ® Zip:
C.1 ® Company Environmental Contact: Dianne Wilburn	C.2 ® Title: Group Leader, EAQ	F.1 ® Facility Contact: Steve Story	F.2 ® Title: Team Leader, Compliance		
C.3 ® Phone Number: (505) 667-6952	C.4 ® Fax Number: (505) 665-8858	F.3 ® Phone Number: (505) 665-2169	F.4 ® Fax Number: (505) 665-8858		
C.5 ® Email Address: dianne@lanl.gov			F.5 ® Email Address: story@lanl.gov		
G. Responsible Official: (Title V only): Richard S. Watkins		H. Title: Associate Director, ESH&Q	I. Phone Number: (505) 667-4218	J. Fax Number: (505) 665-3811	
K. ® AI Number: 856	L. Title V Permit Number: P100M2	M. Title V Permit Issue Date: 7/16/2007	N. NSR Permit Number: 634-M2	O. NSR Permit Issue Date: 10/30/1998	
P. Reporting Period: From: 10/1/2008 To: 12/31/2008		OR	Q. Proposed Test Date: N/A	OR	R. Actual Test Date: N/A

SECTION II - TYPE OF SUBMITTAL (check one that applies)			
A. <input type="checkbox"/>	Title V Annual Compliance Certification	Permit Condition(s):	Description:
B. <input type="checkbox"/>	Title V Semi-annual Monitoring Report	Permit Condition(s):	Description:
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 checked="" type="checkbox"/>	Permit or Notice of Intent (NOI) Requirement	Permit No. <input checked="" type="checkbox"/> or NOI No. <input type="checkbox"/> 634-M2	Condition(s): 5.f Description: Report beryllium emissions data by the continuous air monitor 60 days after Qtr.
G. <input type="checkbox"/>	Requirement of an Enforcement Action	NOV No. <input type="checkbox"/> or SFO No. <input type="checkbox"/> or CD No. <input type="checkbox"/> or Other <input type="checkbox"/>	Section(s): Description:

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

SECTION IV - CERTIFICATION			
After reasonable inquiry, I <u>Dianne W. Wilburn</u> certify that the information in this submittal is true, accurate and complete. (name of reporting official)			
® Signature of Reporting Official: 	® Title: Group Leader, EAQ	® Date: 1/30/09	® Responsible Official for Title V? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Reviewed By: _____

Date Reviewed: _____