



*Environmental Protection Division*  
Ecology and Air Quality Group  
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Date: October 23, 2008  
Refer to: ENV-EAQ:08-248

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 THIRD QUARTER BERYLLIUM EMISSIONS REPORT  
JULY 1– SEPTEMBER 30, 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 **Third 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 third quarter of calendar year 2008 was  $< 1.87 \times 10^{-5}$  grams per 24 hours, which is well below the daily permit limit. The total amount of beryllium emitted for the third quarter of calendar year 2008 was  $< 1.52 \times 10^{-3}$  grams. Additionally, the total for the first three quarters of calendar year 2008 is  $< 4.85 \times 10^{-3}$  grams, which is well below the 3.5 gram per year limit specified in the permit. Based on the attached information, LANL is in compliance with condition #2 of NMED Air Quality Permit #634-M2.

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  
Michael Mallory, PADOPS, A102  
Richard Watkins, ADESH&Q, K491  
IRM-RMSS0, A150  
ESH&Q File, K491  
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K.Gorman-Bates, ENV-EAQ, J978  
ENV-EAQ Records Room, Title V Beryllium Permit #634 Quarterly Reports  
ENV-EAQ File

LA-UR-08-07056

Approved for public release;  
distribution is unlimited.

<i>Title:</i>	2008 Third Quarter Beryllium Emissions Report July 1 - September 30, 2008 Air Quality Permit No. 634-M2 Los Alamos National Laboratory
<i>Author(s):</i>	Kathleen Gorman-Bates, ENV-EAQ
<i>Intended for:</i>	Compliance Reporting Manager New Mexico Environment Department Air Quality Bureau 1301 Siler Road; Building B Santa Fe, New Mexico 87507



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Form 836 (7/06)



**New Mexico Environment Department  
Air Quality Bureau  
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1301 Siler Road Building B  
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## REPORTING SUBMITTAL FORM

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Admin	

PLEASE NOTE: ® - Indicates required field

<b>SECTION I - GENERAL COMPANY AND FACILITY INFORMATION</b>					
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:		F.1 ® Facility Contact: Steve Story	F.2 ® Title: Team Leader, Compliance	
C.3 ® Phone Number:	C.4 ® Fax Number:		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: 7/1/2008 To: 9/30/2008		OR	Q. Proposed Test Date: N/A	OR	R. Actual Test Date: N/A

<b>SECTION II - TYPE OF SUBMITTAL (check one that applies)</b>					
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:	

<b>SECTION III - PERIODIC EMISSIONS TEST NOTIFICATIONS, TEST PROTOCOLS AND TEST REPORTS (if applicable)</b>					
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"/>

<b>SECTION IV - CERTIFICATION</b>			
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: 10/24/08	® Responsible Official for Title V? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Reviewed By: \_\_\_\_\_

Date Reviewed: \_\_\_\_\_

# **Enclosure 1**

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

**TA-3-141 StackID: 3014101**

Sampling dates			Emissions (g)		Comments
			Weekly(1)	Daily(2)	
			Sum of weekly results must be <3.5 g/year	Cannot Exceed 0.35 g/day	
<b>Period #: 1</b>					
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		
<b>Period #: 2</b>					
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		
<b>Period #: 3</b>					
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	
3/13/2008	-	3/20/2008	< 1.21E-04	< 1.71E-05	Run time due to 2 hour delay.
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		
<b>1st Quarter Total: &lt;</b>			<b>1.69E-03</b>	<b>HDER &lt;</b>	<b>1.76E-05</b>

<sup>a</sup> HDER = Highest Daily Emission Rate

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

<b>Period #:</b>		<b>4</b>				
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		
<b>Period #:</b>		<b>5</b>				
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		
<b>Period #:</b>		<b>6</b>				
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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<sup>a</sup> HDER = Highest Daily Emission Rate

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

<b>Period #: 7</b>						
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		
<b>Period #: 8</b>						
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		
<b>Period #: 9</b>						
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		
			<b>3rd Quarter Total: &lt;</b>	<b>1.52E-03</b>	<b>HDER &lt;</b>	<b>1.87E-05</b>

Stack fan off.

<sup>a</sup> HDER = Highest Daily Emission Rate