



**Environmental Protection Division**  
**Environmental Compliance Programs (ENV-CP)**  
 PO Box 1663, K490  
 Los Alamos, New Mexico 87545  
 (505) 667-0666

Date: **JAN 23 2014**  
 Symbol: ENV-DO-14-0022  
 LAUR: 14-20295

Manager, Compliance and Enforcement Section  
 New Mexico Environment Department  
 Air Quality Bureau  
 525 Camino de los Marquez, Suite 1  
 Santa Fe, NM 87505-1816

Dear Compliance & Enforcement Manager:

**Subject: IDEA ID 856 – Los Alamos National Laboratory 2013 Fourth Quarter Beryllium Emissions Report October – December, 2013 Air Quality Permit No. 634-M2**

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 2013**. 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 2013 was  $< 2.33 \times 10^{-5}$  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 2013 was  $< 1.34 \times 10^{-3}$  grams. Additionally, the total for all four quarters of calendar year 2013 is  $< 6.24 \times 10^{-3}$  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 2013 is December 19, 2013. 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 2014 emission report for this facility.

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 at 665-1338.

Sincerely,



Anthony R. Grieggs  
Group Leader  
Environmental Compliance Programs (ENV-CP)  
Los Alamos National Security, LLC

ARG:KG/lm

Enclosure: Beryllium 2013 Stack Emissions

Cy: Hai Shen, NA-OO-LA, (E-File)  
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ENV-CP Beryllium Permit #634 Quarterly Report File  
ENV-CP Correspondence File, K490



**New Mexico Environment Department  
Air Quality Bureau  
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525 Camino de los Marquez, Suite 1  
Santa Fe, NM 87505  
Phone (505) 476-4300 Fax (505) 476-4375**



Version 05.02.13

NMED USE ONLY	
TEMPO	

## REPORTING SUBMITTAL FORM

NMED USE ONLY	
Staff	
Admin	

PLEASE NOTE: ® - Indicates required field

<b>SECTION I - GENERAL COMPANY AND FACILITY INFORMATION</b>					
<b>A. ® Company Name:</b> Los Alamos National Security, LLC			<b>D. ® Facility Name:</b> Los Alamos National Laboratory		
<b>B.1 ® Company Address:</b> P.O Box 1663 MS K490			<b>E.1 ® Facility Address:</b> Same as Company		
<b>B.2 ® City:</b> Los Alamos		<b>B.3 ® State:</b> NM	<b>B.4 ® Zip:</b> 87545 <sup>1</sup>	<b>E.2 ® City:</b>	
<b>E.3 ® State:</b>		<b>E.4 ® Zip:</b>			
<b>C.1 ® Company Environmental Contact:</b> Anthony R. Grieggs		<b>C.2 ® Title:</b> Group Leader, ENV-CP		<b>F.1 ® Facility Contact:</b> Steven L. Story	
<b>F.2 ® Title:</b> Team Leader, Air Quality Permitting and Compliance Programs					
<b>C.3 ® Phone Number:</b> (505) 665-0451		<b>C.4 ® Fax Number:</b> (505) 665-8858		<b>F.3 ® Phone Number:</b> (505) 665-2169	
<b>F.4 ® Fax Number:</b> (505) 665-8858					
<b>C.5 ® Email Address:</b> grieggst@lanl.gov			<b>F.5 ® Email Address:</b> story@lanl.gov		
<b>G. Responsible Official: (Title V only):</b> Michael T. Brandt		<b>H. Title:</b> Associate Director, ADESH		<b>I. Phone Number:</b> (505) 667-4218	
<b>J. Fax Number:</b> (505) 665-3811					
<b>K. ® AI Number:</b> 856	<b>L. Title V Permit Number:</b> P100R1M3	<b>M. Title V Permit Issue Date:</b> 04/26/2013	<b>N. NSR Permit Number:</b> 634-M2	<b>O. NSR Permit Issue Date:</b> 10/30/1998	
<b>P. Reporting Period:</b> From: October 1, 2013 To: December 31, 2013					

<b>SECTION II - TYPE OF SUBMITTAL (check one that applies)</b>					
<input type="checkbox"/>	<b>Title V Annual Compliance Certification</b>	<b>Permit Condition(s):</b>	<b>Description:</b>		
<input type="checkbox"/>	<b>Title V Semi-annual Monitoring Report</b>	<b>Permit Condition(s):</b>	<b>Description:</b>		
<input type="checkbox"/>	<b>NSPS Requirement (40CFR60)</b>	<b>Regulation:</b>	<b>Section(s):</b>	<b>Description:</b>	
<input type="checkbox"/>	<b>MACT Requirement (40CFR63)</b>	<b>Regulation:</b>	<b>Section(s):</b>	<b>Description:</b>	
<input type="checkbox"/>	<b>NMAC Requirement (20.2.xx) or NESHAP Requirement (40CFR61)</b>	<b>Regulation:</b>	<b>Section(s):</b>	<b>Description:</b>	
<input checked="" type="checkbox"/>	<b>Permit or Notice of Intent (NOI) Requirement</b>	<b>Permit No. <input checked="" type="checkbox"/>: or NOI No. <input type="checkbox"/>:</b> 634-M2	<b>Condition(s):</b> 5.f	<b>Description:</b> Report beryllium emissions data generated by the continuous air monitor of the exhaust stack, 60 days after each calendar quarter.	
<input type="checkbox"/>	<b>Requirement of an Enforcement Action</b>	<b>NOV No. <input type="checkbox"/>: or SFO No. <input type="checkbox"/>: or CD No. <input type="checkbox"/>: or Other <input type="checkbox"/>:</b>	<b>Section(s):</b>	<b>Description:</b>	

<b>SECTION IV - CERTIFICATION</b>			
After reasonable inquiry, I <u>Anthony R. Grieggs</u> certify that the information in this submittal is true, accurate and complete. (name of reporting official)			
<b>® Signature of Reporting Official:</b> <i>AR Grieggs</i>	<b>® Title:</b> Group Leader, ENV-CP	<b>® Date:</b> 1/23/14	<b>® Responsible Official for Title V?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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



**Beryllium 2013 Stack Emissions**  
**TA-03-0141**

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

<b>Sampling dates</b>			<b>Emissions (g)</b>	
			<b>Weekly(1)</b>	<b>Daily(2)</b>
			<i>Sum of weekly results must be &lt;3.5 g/year</i>	<i>Cannot Exceed 0.35 g/day</i>
<b>Period #: 1</b>				
12/20/2012	-	1/3/2013	< 1.23E-04	< 8.79E-06
1/3/2013	-	1/10/2013	< 1.23E-04	< 1.76E-05
1/10/2013	-	1/17/2013	< 1.23E-04	< 1.74E-05
1/17/2013	-	1/24/2013	< 1.23E-04	< 1.76E-05
1/24/2013	-	1/31/2013	< 1.23E-04	< 1.75E-05
			<b>Period 1 Sum: &lt; 6.15E-04</b>	
<b>Period #: 2</b>				
1/31/2013	-	2/7/2013	< 1.23E-04	< 1.75E-05
2/7/2013	-	2/14/2013	< 1.23E-04	< 1.77E-05
2/14/2013	-	2/21/2013	< 1.23E-04	< 1.74E-05
2/21/2013	-	2/28/2013	< 1.23E-04	< 1.74E-05
			<b>Period 2 Sum: &lt; 4.92E-04</b>	
<b>Period #: 3</b>				
2/28/2013	-	3/7/2013	< 1.23E-04	< 1.77E-05
3/7/2013	-	3/14/2013	< 1.23E-04	< 1.73E-05
3/14/2013	-	3/21/2013	< 1.23E-04	< 1.77E-05
3/21/2013	-	3/28/2013	< 1.23E-04	< 1.76E-05
			<b>Period 3 Sum: &lt; 4.92E-04</b>	
			<b>1st Quarter Total: &lt; 1.60E-03</b>	<b><sup>a</sup>HDER &lt; 1.77E-05</b>

<sup>a</sup> HDER = Highest Daily Emissions Rate  
1/16/2014



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<b>Sampling dates</b>		<b>Emissions (g)</b>	
		<b>Weekly(1)</b>	<b>Daily(2)</b>
		<i>Sum of weekly results must be &lt;3.5 g/year</i>	<i>Cannot Exceed 0.35 g/day</i>
<b>Period #: 4</b>			
3/28/2013	-	4/4/2013	< 1.23E-04
4/4/2013	-	4/11/2013	< 1.23E-04
4/11/2013	-	4/18/2013	< 1.23E-04
4/18/2013	-	4/25/2013	< 1.23E-04
4/25/2013	-	5/2/2013	< 1.23E-04
		<b>Period 4 Sum: &lt; 6.15E-04</b>	
<b>Period #: 5</b>			
5/2/2013	-	5/9/2013	< 1.23E-04
5/9/2013	-	5/16/2013	< 1.23E-04
5/16/2013	-	5/23/2013	< 1.23E-04
5/23/2013	-	5/30/2013	< 1.23E-04
		<b>Period 5 Sum: &lt; 4.92E-04</b>	
<b>Period #: 6</b>			
5/30/2013	-	6/6/2013	< 1.22E-04
6/6/2013	-	6/13/2013	< 1.22E-04
6/13/2013	-	6/20/2013	< 1.22E-04
6/20/2013	-	6/27/2013	< 1.22E-04
6/27/2013	-	7/3/2013	< 1.22E-04
		<b>Period 6 Sum: &lt; 6.10E-04</b>	
		<b>2nd Quarter Total: &lt; 1.72E-03</b>	<b>HDR &lt; 2.04E-05</b>

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

<b>Sampling dates</b>			<b>Emissions (g)</b>	
			<b>Weekly(1)</b>	<b>Daily(2)</b>
			<i>Sum of weekly results must be &lt;3.5 g/year</i>	<i>Cannot Exceed 0.35 g/day</i>
<b>Period #: 7</b>				
7/3/2013	-	7/11/2013	< 1.22E-04	< 1.52E-05
7/11/2013	-	7/18/2013	< 1.22E-04	< 1.74E-05
7/18/2013	-	7/25/2013	< 1.22E-04	< 1.74E-05
7/25/2013	-	8/1/2013	< 1.22E-04	< 1.75E-05
			<b>Period 7 Sum: &lt; 4.88E-04</b>	
<b>Period #: 8</b>				
8/1/2013	-	8/8/2013	< 1.22E-04	< 1.74E-05
8/8/2013	-	8/15/2013	< 1.22E-04	< 1.73E-05
8/15/2013	-	8/22/2013	< 1.22E-04	< 1.75E-05
8/22/2013	-	8/29/2013	< 1.22E-04	< 1.73E-05
			<b>Period 8 Sum: &lt; 4.88E-04</b>	
<b>Period #: 9</b>				
8/29/2013	-	9/5/2013	< 1.22E-04	< 1.75E-05
9/5/2013	-	9/12/2013	< 1.22E-04	< 1.75E-05
9/12/2013	-	9/19/2013	< 1.22E-04	< 1.73E-05
9/19/2013	-	9/26/2013	< 1.22E-04	< 1.76E-05
9/26/2013	-	10/3/2013	< 1.22E-04	< 1.72E-05
			<b>Period 9 Sum: &lt; 6.10E-04</b>	
<b>3rd Quarter Total: &lt; 1.59E-03</b>			<b>HDER &lt; 1.76E-05</b>	

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1/16/2014

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

<u>Sampling dates</u>		<u>Emissions (g)</u>		
		<u>Weekly(1)</u>	<u>Daily(2)</u>	
		<i>Sum of weekly results must be &lt;3.5 g/year</i>	<i>Cannot Exceed 0.35 g/day</i>	
<b>Period #: 10</b>				
10/3/2013	-	10/10/2013	< 1.22E-04	< 1.75E-05
10/10/2013	-	10/17/2013	< 1.22E-04	< 1.74E-05
10/17/2013	-	10/24/2013	< 1.22E-04	< 1.74E-05
10/24/2013	-	10/31/2013	< 1.22E-04	< 1.74E-05
		<b>Period 10 Sum: &lt; 4.88E-04</b>		
<b>Period #: 11</b>				
10/31/2013	-	11/7/2013	< 1.22E-04	< 1.74E-05
11/7/2013	-	11/14/2013	< 1.22E-04	< 1.74E-05
11/14/2013	-	11/21/2013	< 1.22E-04	< 1.74E-05
11/21/2013	-	11/26/2013	< 1.22E-04	< 2.33E-05
		<b>Period 11 Sum: &lt; 4.88E-04</b>		
<b>Period #: 12</b>				
11/26/2013	-	12/5/2013	< 1.22E-04	< 1.39E-05
12/5/2013	-	12/12/2013	< 1.22E-04	< 1.74E-05
12/12/2013	-	12/19/2013	< 1.22E-04	< 1.76E-05
		<b>Period 12 Sum &lt;: 3.66E-04</b>		
		<b>4th Quarter Total: &lt; 1.34E-03</b>	<b>HDER &lt; 2.33E-05</b>	
		<b>Sum of four quarters: &lt; 6.24E-03</b>		

<sup>a</sup> HDER = Highest Daily Emissions Rate  
1/16/2014