



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

*Date:* **OCT 16 2013**  
*Symbol:* ENV-DO-13-0228  
*LAUR:* 13-28021

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

Dear Compliance Reporting Manager:

**SUBJECT: IDEA ID 856 – LOS ALAMOS NATIONAL LABORATORY  
2013 THIRD QUARTER BERYLLIUM EMISSIONS REPORT  
JULY – SEPTEMBER, 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 **third 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 third quarter of calendar year 2013 was  $< 1.76 \times 10^{-5}$  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 2013 was  $< 1.59 \times 10^{-3}$  grams. Additionally, the total for the first three quarters of calendar year 2013 is  $< 4.90 \times 10^{-3}$  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 at 665-1338.

Sincerely,



Anthony R. Grieggs  
Group Leader  
Environmental Compliance Program (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



**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>*HDER &lt; 1.77E-05</b>

<sup>a</sup> HDER = Highest Daily Emissions Rate  
10/16/2013

**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 #: 4</b>				
3/28/2013	-	4/4/2013	< 1.23E-04	< 1.75E-05
4/4/2013	-	4/11/2013	< 1.23E-04	< 1.75E-05
4/11/2013	-	4/18/2013	< 1.23E-04	< 1.76E-05
4/18/2013	-	4/25/2013	< 1.23E-04	< 1.75E-05
4/25/2013	-	5/2/2013	< 1.23E-04	< 1.75E-05
			<b>Period 4 Sum: &lt; 6.15E-04</b>	
<b>Period #: 5</b>				
5/2/2013	-	5/9/2013	< 1.23E-04	< 1.76E-05
5/9/2013	-	5/16/2013	< 1.23E-04	< 1.75E-05
5/16/2013	-	5/23/2013	< 1.23E-04	< 1.73E-05
5/23/2013	-	5/30/2013	< 1.23E-04	< 1.76E-05
			<b>Period 5 Sum: &lt; 4.92E-04</b>	
<b>Period #: 6</b>				
5/30/2013	-	6/6/2013	< 1.22E-04	< 1.75E-05
6/6/2013	-	6/13/2013	< 1.22E-04	< 1.75E-05
6/13/2013	-	6/20/2013	< 1.22E-04	< 1.73E-05
6/20/2013	-	6/27/2013	< 1.22E-04	< 1.75E-05
6/27/2013	-	7/3/2013	< 1.22E-04	< 2.04E-05
			<b>Period 6 Sum: &lt; 6.10E-04</b>	
<b>2nd Quarter Total: &lt; 1.72E-03</b>			<b>HDER &lt; 2.04E-05</b>	

<sup>a</sup> HDER = Highest Daily Emissions Rate  
10/16/2013

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

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

<u>Sampling dates</u>		<u>Emissions (g)</u>		
		Weekly(1)	Daily(2)	
		<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;</b>	<b>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;</b>	<b>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;</b>	<b>6.10E-04</b>	
		<b>3rd Quarter Total: &lt;</b>	<b>1.59E-03</b>	<b>HDR &lt; 1.76E-05</b>

<sup>a</sup> HDR = Highest Daily Emissions Rate  
10/16/2013



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



Version 05.02.13

Phone (505) 476-4300 Fax (505) 476-4375

NMED USE ONLY	
TEMPO	

## REPORTING SUBMITTAL FORM

NMED USE ONLY	
Staff	
Admin	

PLEASE NOTE: ® - Indicates required field

SECTION I - GENERAL COMPANY AND FACILITY INFORMATION					
<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>L</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.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>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>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: July 1, 2013 To: September 30, 2013					

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

SECTION IV - CERTIFICATION			
After reasonable inquiry, I <u>Anthony R. Grieggs</u> certify that the information in this submittal is true, accurate and complete. <small>(name of reporting official)</small>			
<b>® Signature of Reporting Official:</b> <i>A R Grieggs</i>	<b>® Title:</b> Group Leader, ENV-CP	<b>® Date:</b> <i>10/16/13</i>	<b>® Responsible Official for Title V?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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