



***Environmental Protection & Compliance Division (EPC-DO)***  
***Environmental Compliance Programs (EPC-CP)***

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*Date:* **APR 18 2016**  
*Symbol:* EPC-DO-16-099  
*LA-UR:* 16-22470  
*Locates Action No.:* N/A

Mr. Ralph Grubel  
 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 Mr. Grubel:

**Subject: IDEA ID 856 – Los Alamos National Laboratory 2016 First Quarter Beryllium Emissions Report January 1–March 31, 2016, Air Quality Permit No. 634-M2**

Attached is a copy of the sampling data for the **first quarter of calendar year 2016**. The attached emissions data were obtained from the continuous air monitor installed on the main exhaust stack at the Beryllium Technology Facility (BTF) at Los Alamos National Laboratory (LANL). This submission of the quarterly emissions data, collected from this source, is required by permit condition 5.f of the New Mexico Environment Department (NMED) Air Quality Permit #634-M2 dated October 30, 1998. This quarterly report is transmitted within the allowed 60 days after the end of the calendar quarter, as specified in the permit.

Air Quality Permit #634-M2 condition #2 requires that 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. Per the attached data sheet, the highest daily emission rate (HDER) during the first quarter of calendar year 2016 was  $<1.77 \times 10^{-5}$  grams per 24 hours, which is well below the daily permit limit. The total amount of beryllium emitted for the first quarter of calendar year 2016 was  $<1.59 \times 10^{-3}$  grams. Based on the attached information, LANL is in compliance with condition #2 of NMED Air Quality Permit #634-M2.

APR 18 2016

Mr. Ralph Grubel  
EPC-DO-16-099

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If you have questions or comments regarding this submittal or would like to discuss this in greater detail, please feel free to contact Steven L. Story at (505) 665-2169 or Brinda Ramanathan at (505) 665-8879.

Sincerely,



Anthony R. Grieggs  
Group Leader  
Environmental Compliance Programs  
Los Alamos National Security, LLC

ARG:SLS:BR/lm

Enclosure: 1. Beryllium 2016 Stack Emissions

Cy: Hai Shen, EM-SG, (E-File)  
Richard Kacich, DIR, (E-File)  
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EPC-CP Beryllium Permit #634-M2 Quarterly Report File  
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Version 05.02.13

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	<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, EPC-CP		<b>F.1 ® Facility Contact:</b> Steven L. Story	
<b>C.3 ® Phone Number:</b> (505) 665-0451		<b>C.4 ® Fax Number:</b> (505) 665-8858		<b>F.2 ® Title:</b> Team Leader, Air Quality Compliance	
<b>C.5 ® Email Address:</b> grieggst@lanl.gov			<b>F.3 ® Phone Number:</b> (505) 665-2169		
<b>G. Resoosible Official: (Title V onlv):</b> Michael T. Brandt			<b>H. Title:</b> Associate Director, ADESH		<b>F.4 ® Fax Number:</b> (505) 665-8858
<b>K. ® AI Number:</b> 856	<b>L. Title V Permit Number:</b> P100-R2	<b>M. Title V Permit Issue Date:</b> 02/27/2015	<b>N. NSR Permit Number:</b> 634-M2	<b>O. NSR Permit Issue Date:</b> 10/30/1998	
<b>P. Reporting Period:</b> From: January 1, 2016 To: March 31, 2016					

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> 2016 Q1 Report containing beryllium emissions data, generated by the continuous air monitor of the exhaust stack, due within 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"/></b> <b>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>(for AG)</i>	<b>® Title:</b> Group Leader, EPC-CP	<b>® Date:</b> 4/18/16	<b>® Responsible Official for Title V?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

# **ENCLOSURE 1**

**Beryllium 2016 Stack Emissions**

**EPC-DO-16-099**

**LA-UR-16-22470**

**APR 18 2016**

**Date:** \_\_\_\_\_

**Los Alamos National Laboratory  
TA-03-0141 Beryllium 2016 Stack Emissions**

**TA-3-141    StackID: 03014101**

<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>				
12/24/2015	-	01/07/2016	< 1.22E-04	< 8.74E-06
01/07/2016	-	01/14/2016	< 1.22E-04	< 1.73E-05
01/14/2016	-	01/21/2016	< 1.22E-04	< 1.74E-05
01/21/2016	-	01/28/2016	< 1.22E-04	< 1.77E-05
01/28/2016	-	02/04/2016	< 1.22E-04	< 1.74E-05
			<b>Period 1 Sum: &lt; 6.10E-04</b>	
<b>Period #: 2</b>				
02/04/2016	-	02/11/2016	< 1.22E-04	< 1.75E-05
02/11/2016	-	02/18/2016	< 1.22E-04	< 1.73E-05
02/18/2016	-	02/25/2016	< 1.22E-04	< 1.75E-05
02/25/2016	-	03/03/2016	< 1.22E-04	< 1.76E-05
			<b>Period 2 Sum: &lt; 4.88E-04</b>	
<b>Period #: 3</b>				
03/03/2016	-	03/10/2016	< 1.22E-04	< 1.74E-05
03/10/2016	-	03/17/2016	< 1.22E-04	< 1.73E-05
03/17/2016	-	03/24/2016	< 1.22E-04	< 1.76E-05
03/24/2016	-	03/31/2016	< 1.22E-04	< 1.74E-05
			<b>Period 3 Sum: &lt; 4.88E-04</b>	
			<b>1st Quarter Total: &lt; 1.59E-03</b>	<b>*HDER &lt; 1.77E-05</b>

<sup>a</sup> HDER = Highest Daily Emission Rate  
4/15/2016