



**Environmental Protection Division**  
**Environmental Compliance Programs (ENV-CP)**  
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*Date:* **APR 10 2014**  
*Symbol:* ENV-DO-14-0089  
*LAUR:* 14-22404

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 2014 First Quarter Beryllium Emissions Report January – March, 2014 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 **first quarter of calendar year 2014**. 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 first quarter of calendar year 2014 was  $< 5.18 \times 10^{-5}$  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 2014 was  $< 1.83 \times 10^{-3}$  grams. Also, on the attached data sheet, you will note that the first data point for calendar year 2014 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 is therefore reported as part of the first quarter 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 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:SLS:KG/lm

Enclosure: Beryllium 2014 Stack Emissions

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ENV-CP Beryllium Permit #634 Quarterly Report File  
ENV-CP Correspondence File, K490

# **ENCLOSURE 1**

Beryllium 2014 Stack Emissions

ENV-DO-14-0089

LAUR-14-22404

Date: APR 10 2014

**Beryllium 2014 Stack Emissions  
TA-03-0141**

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

<b>Sampling dates</b>		<b>Emissions (g)</b>		<b>Comments</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>				
12/19/2013	-	1/2/2014	< 1.22E-04	Emissions results from Holiday break
1/2/2014	-	1/9/2014	< 1.22E-04	
1/9/2014	-	1/16/2014	< 1.22E-04	
1/16/2014	-	1/23/2014	< 1.22E-04	
1/23/2014	-	1/30/2014	< 1.22E-04	
		<b>Period 1 Sum: &lt; 6.10E-04</b>		
<b>Period #: 2</b>				
1/30/2014	-	2/6/2014	< 3.66E-04	Ventilation and equipment maintenance
2/6/2014	-	2/13/2014	< 1.22E-04	
2/13/2014	-	2/20/2014	< 1.22E-04	
2/20/2014	-	2/27/2014	< 1.22E-04	
		<b>Period 2 Sum: &lt; 7.32E-04</b>		
<b>Period #: 3</b>				
2/27/2014	-	3/6/2014	< 1.22E-04	
3/6/2014	-	3/13/2014	< 1.22E-04	
3/13/2014	-	3/20/2014	< 1.22E-04	
3/20/2014	-	3/27/2014	< 1.22E-04	
		<b>Period 3 Sum: &lt; 4.88E-04</b>		
		<b>1st Quarter Total: &lt; 1.83E-03</b>	<b>HDER &lt; 5.18E-05</b>	

<sup>a</sup> HDER = Highest Daily Emission Rate  
4/9/2014