



***Environmental Protection Division
Environmental Compliance Programs (ENV-CP)***

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Date: **JUL 22 2014**
Symbol: ENV-DO-14-0185
LAUR: 14-25579
Locates Action No.: N/A

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 Second Quarter Beryllium Emissions Report April – June, 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 **second 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 second quarter of calendar year 2014 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 second quarter of calendar year 2014 was $< 1.71 \times 10^{-3}$ grams. Additionally, the total for the first two quarters of calendar year 2014 is $< 3.54 \times 10^{-3}$ 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 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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ENCLOSURE 1

Beryllium 2014 Stack Emissions

ENV-DO-14-0185

LAUR-14-25579

Date: **JUL 22 2014**

Beryllium 2014 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	
Period #: 1					
12/19/2013	-	1/2/2014	< 1.22E-04	< 8.69E-06	Emissions results from Holiday break
1/2/2014	-	1/9/2014	< 1.22E-04	< 1.74E-05	
1/9/2014	-	1/16/2014	< 1.22E-04	< 1.73E-05	
1/16/2014	-	1/23/2014	< 1.22E-04	< 1.75E-05	
1/23/2014	-	1/30/2014	< 1.22E-04	< 1.74E-05	
Period 1 Sum: < 6.10E-04					
Period #: 2					
1/30/2014	-	2/6/2014	< 3.66E-04	< 5.18E-05	Ventilation and equipment maintenance
2/6/2014	-	2/13/2014	< 1.22E-04	< 1.75E-05	
2/13/2014	-	2/20/2014	< 1.22E-04	< 1.75E-05	
2/20/2014	-	2/27/2014	< 1.22E-04	< 1.75E-05	
Period 2 Sum: < 7.32E-04					
Period #: 3					
2/27/2014	-	3/6/2014	< 1.22E-04	< 1.73E-05	
3/6/2014	-	3/13/2014	< 1.22E-04	< 1.73E-05	
3/13/2014	-	3/20/2014	< 1.22E-04	< 1.75E-05	
3/20/2014	-	3/27/2014	< 1.22E-04	< 1.74E-05	
Period 3 Sum: < 4.88E-04					
1st Quarter Total: < 1.83E-03				HDER < 5.18E-05	

^a HDER = Highest Daily Emission Rate
7/18/2014

Beryllium 2014 Stack Emissions
TA-03-0141

Period #: 4		
3/27/2014	-	4/3/2014
4/3/2014	-	4/10/2014
4/10/2014	-	4/17/2014
4/17/2014	-	4/24/2014
4/24/2014	-	5/1/2014
		< 1.22E-04
		< 1.74E-05
		< 1.22E-04
		< 1.75E-05
		< 1.22E-04
		< 1.74E-05
		< 1.22E-04
		< 1.75E-05

Period 4 Sum: < 6.10E-04

Period #: 5		
5/1/2014	-	5/8/2014
5/8/2014	-	5/15/2014
5/15/2014	-	5/22/2014
5/22/2014	-	5/29/2014
		< 1.22E-04
		< 1.73E-05
		< 1.22E-04
		< 1.75E-05
		< 1.22E-04
		< 1.74E-05
		< 1.22E-04
		< 1.75E-05

Period 5 Sum: < 4.88E-04

Period #: 6		
5/29/2014	-	6/5/2014
6/5/2014	-	6/12/2014
6/12/2014	-	6/19/2014
6/19/2014	-	6/26/2014
6/26/2014	-	7/3/2014
		< 1.22E-04
		< 1.75E-05
		< 1.22E-04
		< 1.72E-05
		< 1.22E-04
		< 1.76E-05
		< 1.22E-04
		< 1.74E-05
		< 1.22E-04
		< 1.74E-05

Period 6 Sum: < 6.10E-04

2nd Quarter Total: < 1.71E-03	HDER < 1.76E-05
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