

Environmental Protection & Compliance Division (EPC-DO)

Environmental Compliance Programs (EPC-CP)

PO Box 1663, K490

Los Alamos, New Mexico 87545

(505) 667-0666

Date: **JUL 20 2016**

Symbol: EPC-DO-16-210

LA-UR: 16-25267

Locates Action No.: N/A

Mr. Ralph Gruebel
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. Gruebel:

Subject: IDEA ID 856 – Los Alamos National Laboratory 2016 Second Quarter Beryllium Emissions Report April 1–June 30, 2016, Air Quality Permit No. 634-M2

Attached is a copy of the sampling data for the **second 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 second quarter of calendar year 2016 was $<1.79 \times 10^{-5}$ 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 2016 was $<1.59 \times 10^{-3}$ grams. Additionally, the total for the first two quarters of calendar year 2016 is $<3.17 \times 10^{-3}$ 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.

JUL 20 2016

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,



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

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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					
A. ® Company Name: Los Alamos National Security, LLC			D. ® Facility Name: Los Alamos National Laboratory		
B.1 ® Company Address: P.O Box 1663 MS K490			E.1 ® Facility Address: Same as Company		
B.2 ® City: Los Alamos	B.3 ® State: NM	B.4 ® Zip: 87545	E.2 ® City:	E.3 ® State:	E.4 ® Zip:
C.1 ® Company Environmental Contact: Anthony R. Grieggs		C.2 ® Title: Group Leader, EPC-CP		F.2 ® Title: Team Leader, Air Quality Compliance	
C.3 ® Phone Number: (505) 665-0451		C.4 ® Fax Number: (505) 665-8858		F.4 ® Fax Number: (505) 665-8858	
C.5 ® Email Address: grieggst@lanl.gov			F.5 ® Email Address: story@lanl.gov		
G. Responsible Official: (Title V only): Michael T. Brandt		H. Title: Associate Director, ADESH		J. Fax Number: (505) 665-3811	
K. ® AI Number: 856	L. Title V Permit Number: P100-R2	M. Title V Permit Issue Date: 02/27/2015	N. NSR Permit Number: 634-M2	O. NSR Permit Issue Date: 10/30/1998	
P. Reporting Period: From: April 1, 2016 To: June 30, 2016					

SECTION II - TYPE OF SUBMITTAL (check one that applies)				
A. <input type="checkbox"/>	Title V Annual Compliance Certification	Permit Condition(s):	Description:	
B. <input type="checkbox"/>	Title V Semi-annual Monitoring Report	Permit Condition(s):	Description:	
C. <input type="checkbox"/>	NSPS Requirement (40CFR60)	Regulation:	Section(s):	Description:
D. <input type="checkbox"/>	MACT Requirement (40CFR63)	Regulation:	Section(s):	Description:
E. <input type="checkbox"/>	NMAC Requirement (20.2.xx) or NESHAP Requirement (40CFR61)	Regulation:	Section(s):	Description:
F. <input checked="" type="checkbox"/>	Permit or Notice of Intent (NOI) Requirement	Permit No. <input checked="" type="checkbox"/> : or NOI No. <input type="checkbox"/> : 634-M2	Condition(s): 5.f	Description: 2016 Q2 Report containing beryllium emissions data, generated by the continuous air monitor of the exhaust stack, due within 60 days after calendar quarter.
G. <input type="checkbox"/>	Requirement of an Enforcement Action	NOV No. <input type="checkbox"/> : or SFO No. <input type="checkbox"/> : or CD No. <input type="checkbox"/> : or Other <input type="checkbox"/> :	Section(s):	Description:

SECTION IV - CERTIFICATION			
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)			
® Signature of Reporting Official: <i>Steven L. Story</i>	® Title: Group Leader, EPC-CP	® Date: 7/20/16	® Responsible Official for Title V? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Reviewed By: _____

Date Reviewed: _____

ENCLOSURE 1

Beryllium 2016 Stack Emissions

EPC-DO-16-210

LA-UR-16-25267

Date: **JUL 20 2016**

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

TA-03-0141 StackID: 03014101

Sampling dates			Emissions (g)	
			Weekly(1)	Daily(2)
			<i>Sum of weekly results must be <3.5 g/year</i>	<i>Cannot Exceed 0.35 g/day</i>
Period #: 1				
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
			Period 1 Sum: < 6.10E-04	
Period #: 2				
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
			Period 2 Sum: < 4.88E-04	
Period #: 3				
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
			Period 3 Sum: < 4.88E-04	
1st Quarter Total: < 1.59E-03			^aHDER < 1.77E-05	

^a HDER = Highest Daily Emission Rate
7/19/2016

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

TA-03-0141 StackID: 03014101

Sampling dates			Emissions (g)	
			Weekly(1)	Daily(2)
			<i>Sum of weekly results must be <3.5 g/year</i>	<i>Cannot Exceed 0.35 g/day</i>
Period #: 4				
03/31/2016	-	04/07/2016	< 1.22E-04	< 1.75E-05
04/07/2016	-	04/14/2016	< 1.22E-04	< 1.75E-05
04/14/2016	-	04/21/2016	< 1.22E-04	< 1.75E-05
04/21/2016	-	04/28/2016	< 1.22E-04	< 1.74E-05
			Period 4 Sum: < 4.88E-04	
Period #: 5				
04/28/2016	-	05/05/2016	< 1.22E-04	< 1.74E-05
05/05/2016	-	05/12/2016	< 1.22E-04	< 1.74E-05
05/12/2016	-	05/19/2016	< 1.22E-04	< 1.75E-05
05/19/2016	-	05/26/2016	< 1.22E-04	< 1.74E-05
05/26/2016	-	06/02/2016	< 1.22E-04	< 1.75E-05
			Period 5 Sum: < 6.10E-04	
Period #: 6				
06/02/2016	-	06/09/2016	< 1.22E-04	< 1.74E-05
06/09/2016	-	06/16/2016	< 1.22E-04	< 1.75E-05
06/16/2016	-	06/23/2016	< 1.22E-04	< 1.75E-05
06/23/2016	-	06/30/2016	< 1.22E-04	< 1.79E-05
			Period 6 Sum: < 4.88E-04	
2nd Quarter Total: < 1.59E-03			^aHDER < 1.79E-05	

^a HDER = Highest Daily Emission Rate
7/19/2016