



Environmental Protection & Compliance Division (EPC-DO)

Environmental Compliance Programs (EPC-CP)

PO Box 1663, K490

Los Alamos, New Mexico 87545

(505) 667-0666

Date: **NOV 08 2016**

Symbol: EPC-DO-16-346

LA-UR: 16-28497

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 Third Quarter Beryllium Emissions Report July 1–September 30, 2016, Air Quality Permit No. 634-M2

Attached is a copy of the sampling data for the **third 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. For this reporting period, the following data were obtained from the attached data sheet:

Time Period	Description of Data	Be Emission Rate	P100R2 Permit Limit
2016Q3	Highest daily emission rate	6.40×10^{-3} gm/24 hours	0.35 gm/ 24 hours
2016Q3	Total amount for 2016Q3	4.70×10^{-2} gm	3.5 gm/year
2016Q1Q2Q3	Total amount for 2016Q1,Q2 & Q3	5.05×10^{-2} gm	3.5 gm/year

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 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: Richard Kacich, DIR, (E-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.1 ® Facility Contact: Steven L. Story
C.3 ® Phone Number: (505) 665-0451		C.4 ® Fax Number: (505) 665-8858		F.2 ® Title: Team Leader, Air Quality Compliance
C.5 ® Email Address: grieggst@lanl.gov		F.3 ® Phone Number: (505) 665-2169		
G. Responsible Official: (Title V only): Michael T. Brandt		H. Title: Associate Director, ADESH		F.4 ® Fax Number: (505) 665-8858
K. ® AI Number: 856	L. Title V Permit Number: P100-R2	M. Title V Permit Issue Date: 02/27/2015	I. Phone Number: (505) 667-4218	J. Fax Number: (505) 665-3811
N. NSR Permit Number: 634-M2		O. NSR Permit Issue Date: 10/30/1998		
P. Reporting Period: From: July 1, 2016 To: September 30, 2016				

SECTION II – TYPE OF SUBMITTAL (check one that applies)				
<input type="checkbox"/>	Title V Annual Compliance Certification	Permit Condition(s):	Description:	
<input type="checkbox"/>	Title V Semi-annual Monitoring Report	Permit Condition(s):	Description:	
<input type="checkbox"/>	NSPS Requirement (40CFR60)	Regulation:	Section(s):	Description:
<input type="checkbox"/>	MACT Requirement (40CFR63)	Regulation:	Section(s):	Description:
<input type="checkbox"/>	NMAC Requirement (20.2.xx) or NESHAP Requirement (40CFR61)	Regulation:	Section(s):	Description:
<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 Q3 Report containing beryllium emissions data from the continuous air monitor of the exhaust stack, due within 60 days after calendar quarter.
<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: 	® Title: Group Leader, EPC-CP	® Date: 11/8/2016	® 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-16-346

LA-UR-16-28497

Date: NOV 08 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
11/7/2016

**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
11/7/2016

**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 #: 7				
06/30/2016	-	07/07/2016	< 1.22E-04	< 1.77E-05
07/07/2016	-	07/14/2016	< 1.22E-04	< 1.73E-05
07/14/2016	-	07/21/2016	< 1.22E-04	< 1.76E-05
07/21/2016	-	07/28/2016	4.55E-02	6.40E-03
07/28/2016	-	08/04/2016	< 1.22E-04	< 1.75E-05
			Period 7 Sum: 4.60E-02	
Period #: 8				
08/04/2016	-	08/11/2016	< 1.22E-04	< 1.74E-05
08/11/2016	-	08/18/2016	< 1.22E-04	< 1.76E-05
08/18/2016	-	08/25/2016	< 1.22E-04	< 1.75E-05
08/25/2016	-	09/01/2016	< 1.22E-04	< 1.73E-05
			Period 8 Sum: < 4.88E-04	
Period #: 9				
09/01/2016	-	09/08/2016	< 1.22E-04	< 1.73E-05
09/08/2016	-	09/15/2016	< 1.22E-04	< 1.77E-05
09/15/2016	-	09/22/2016	< 1.22E-04	< 1.74E-05
09/22/2016	-	09/29/2016	< 1.22E-04	< 1.74E-05
			Period 9 Sum: < 4.88E-04	
			3rd Quarter Total: 4.70E-02 ^aHDER 6.40E-03	

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11/7/2016



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