

LA-UR-17-26831

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Title: AI856 LANL 2017Q2 BTF Be emissions report

Author(s): Ramanathan, Brinda

Intended for: Environmental Programs

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



Version 05.02.13

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REPORTING SUBMITTAL FORM

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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
I. Phone Number: (505) 667-4218		J. Fax Number: (505) 665-3811			
K. ® AI Number: 856	L. Title V Permit Number: P100-R2M1	M. Title V Permit Issue Date: 02/03/2017	N. NSR Permit Number: 634-M2	O. NSR Permit Issue Date: 10/30/1998	
P. Reporting Period: From: April 1, 2017 To: June 30, 2017					

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: 2017Q2 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 Anthony R. Grieggs 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: 8/8/17	® Responsible Official for Title V? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Reviewed By: _____

Date Reviewed: _____



Environmental Protection & Compliance Division (EPC-DO)
Los Alamos National Laboratory
 PO Box 1663, K499
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Date: **AUG 09 2017**
 Symbol: EPC-DO: 17-299
 LA-UR: 17-26831
 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

RECEIVED
 AUG 9 2017
 Air Quality Bureau

Subject: IDEA ID 856 – Los Alamos National Laboratory 2017 Second Quarter Beryllium Emissions Report April 1–June 30, 2017, Air Quality Permit No. 634-M2

Dear Mr. Grubel:

Attached is a copy of the sampling data for the **second quarter of calendar year 2017**. 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). The 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 current quarterly data and the total emissions for 2017Q1Q2 are summarized below.

Reporting Period	Description of Data	Beryllium Emission Rate	NSR 634-M2/ Title V P100-R2M1 Permit Limit
2017Q2	Highest daily emission rate	<1.79E-05	0.35 gm/ 24 hours
2017Q2	Total amount for 2017Q2	<1.59E-03	3.5 gm/year
2017Q1Q2	Total amount for 2017 (Q1 and Q2)	<4.07E-03	3.5 gm/year



Based on the above summary and Enclosure 1 datasheet, the Beryllium emissions are well below the permit limit and 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,

Handwritten signature of Anthony R. Grieggs, with the initials "(for AG)" written next to it.

Anthony R. Grieggs
Group Leader

ARG/SLS/BR: am

Enclosure: 1): Beryllium 2017Q1Q2 Stack Emissions

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ENCLOSURE 1

Beryllium 2017 Stack Emissions

EPC-DO: 17-299

LA-UR-17-26831

AUG 09 2017

Date: _____

**Los Alamos National Laboratory
TA-03-0141 Beryllium 2017 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			
12/22/2016	01/05/2017	< 1.22E-04	< 8.74E-06
01/05/2017	01/12/2017	< 1.22E-04	< 1.73E-05
01/12/2017	01/19/2017	< 1.22E-04	< 1.76E-05
01/19/2017	01/26/2017	1.36E-04	1.91E-05
01/26/2017	02/02/2017	8.83E-04	1.28E-04
Period 1 Sum: 1.39E-03			
Period #: 2			
02/02/2017	02/09/2017	< 1.22E-04	< 1.74E-05
02/09/2017	02/16/2017	< 1.22E-04	< 1.76E-05
02/16/2017	02/23/2017	< 1.22E-04	< 1.75E-05
02/23/2017	03/02/2017	< 1.22E-04	< 1.73E-05
Period 2 Sum: < 4.88E-04			
Period #: 3			
03/02/2017	03/09/2017	< 1.22E-04	< 1.74E-05
03/09/2017	03/16/2017	< 1.22E-04	< 1.75E-05
03/16/2017	03/23/2017	< 1.22E-04	< 1.76E-05
03/23/2017	03/30/2017	< 1.22E-04	< 1.75E-05
03/30/2017	04/06/2017	< 1.22E-04	< 1.75E-05
Period 3 Sum: < 6.10E-04			
1st Quarter Total: 2.48E-03			*HDER 1.28E-04

^a HDER = Highest Daily Emission Rate

**Los Alamos National Laboratory
TA-03-0141 Beryllium 2017 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			
04/06/2017	04/13/2017	< 1.22E-04	< 1.75E-05
04/13/2017	04/20/2017	< 1.22E-04	< 1.75E-05
04/20/2017	04/27/2017	< 1.22E-04	< 1.71E-05
04/27/2017	05/04/2017	< 1.22E-04	< 1.79E-05
Period 4 Sum: < 4.88E-04			
Period #: 5			
05/04/2017	05/11/2017	< 1.22E-04	< 1.74E-05
05/11/2017	05/18/2017	< 1.22E-04	< 1.75E-05
05/18/2017	05/25/2017	< 1.22E-04	< 1.74E-05
05/25/2017	06/01/2017	< 1.22E-04	< 1.75E-05
Period 5 Sum: < 4.88E-04			
Period #: 6			
06/01/2017	06/08/2017	< 1.22E-04	< 1.74E-05
06/08/2017	06/15/2017	< 1.22E-04	< 1.75E-05
06/15/2017	06/22/2017	< 1.22E-04	< 1.75E-05
06/22/2017	06/29/2017	< 1.22E-04	< 1.75E-05
06/29/2017	07/06/2017	< 1.22E-04	< 1.73E-05
Period 6 Sum: < 6.10E-04			

2nd Quarter Total: < 1.59E-03 *HDER < 1.79E-05

^a HDER = Highest Daily Emission Rate