



Environmental Protection & Compliance Division (EPC-DO)

Los Alamos National Laboratory

PO Box 1663, K491

Los Alamos, New Mexico 87545

(505) 667-2211

DEC 11 2017

Date:

Symbol: EPC-DO: 18-013

LA-UR: 18-20188

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

Subject: IDEA ID 856 – Los Alamos National Laboratory 2017 Fourth Quarter Beryllium Emissions Report October 1–December 31, 2017, Air Quality Permit No. 634-M2

Dear Mr. Gruebel:

Attached is a copy of the sampling data for the **fourth 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). 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) New Source Review (NSR) 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 NSR permit and incorporated in Title V permit P100-R2.

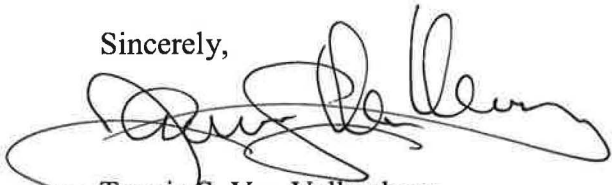
Air Quality Permit #634-M2 condition #2 requires that the beryllium stack emissions from the BTF shall not exceed 0.35 grams in a 24-hour time period and shall not exceed 3.5 grams per year. For this reporting period, the current quarterly data and the total emissions for calendar year 2017 were obtained from the attached data sheet and summarized in the following table.

Reporting Period	Description of Data	Beryllium Emission Rate	NSR 634-M2/ Title V P100R2 Permit Limit
2017Q4	Highest daily emission rate	< 1.94x 10 ⁻⁵ gm/24 hours	0.35 gm/ 24 hours
2017Q4	Total amount for 2017Q4	< 1.34 x 10 ⁻³ gm	3.5 gm/year
2017Q1Q2Q3Q4	Total amount for 2017 All Quarters	< 7.00 x 10 ⁻³ gm	3.5 gm/year

In addition, on the attached data sheet, you will note that the last data point for calendar year 2017 is December 21, 2017. 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 will be reported as part of the first quarter 2018 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 Steven L. Story at (505) 665-2169.

Sincerely,



Taunia S. Van Valkenburg
Group Leader

TSV/SLS/BR: am

Enclosure(s): 1) Beryllium 2017 Stack Emissions

Copy: Adrienne L. Nash, NA-LA, (E-File)
Richard M. Kacich, DIR, (E-File)
Craig S. Leasure, PADOPS, (E-File)
William R. Mairson, PADOPS, (E-File)
Michael T. Brandt, ADESH, (E-File)
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**New Mexico Environment Department
Air Quality Bureau
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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: Tania S. Van Valkenburg			C.2 ® Title: Group Leader, EPC-CP		F.1 ® Facility Contact: Steven L. Story			F.2 ® Title: Team Leader, Air Quality Compliance	
C.3 ® Phone Number: (505) 665-9827			C.4 ® Fax Number: (505) 665-8858		F.3 ® Phone Number: (505) 665-2169			F.4 ® Fax Number: (505) 665-8858	
C.5 ® Email Address: tauniav@lanl.gov					F.5 ® Email Address: story@lanl.gov				
G. Responsible Official: (Title V only): Michael T. Brandt			H. Title: Associate Director, ADESH		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: October 1, 2017 To: December 31, 2017									

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: 2017Q4 Report containing beryllium emissions data from 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>Tania S. Van Valkenburg</u> certify that the information in this submittal is true, accurate and complete. <small>(name of reporting official)</small>			
® Signature of Reporting Official: 		® Title: Group Leader, EPC-CP	® Date: 1/11/2018
		® Responsible Official for Title V? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Reviewed By: _____

Date Reviewed: _____

ENCLOSURE 1

Beryllium 2017 Stack Emissions

EPC-DO: 18-013

LA-UR-18-20188

Date: DEC 11 2017

**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	^aHDER 1.28E-04

^a HDER = Highest Daily Emission Rate

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Sampling dates			Emissions (g)	
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			<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			^aHDER < 1.79E-05	

^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 #: 7				
07/06/2017	-	07/13/2017	< 1.22E-04	< 1.75E-05
07/13/2017	-	07/20/2017	< 1.22E-04	< 1.75E-05
07/20/2017	-	07/27/2017	< 1.22E-04	< 1.75E-05
07/27/2017	-	08/03/2017	< 1.22E-04	< 1.72E-05
			Period 7 Sum: < 4.88E-04	
Period #: 8				
08/03/2017	-	08/10/2017	< 1.22E-04	< 1.78E-05
08/10/2017	-	08/17/2017	< 1.22E-04	< 1.75E-05
08/17/2017	-	08/24/2017	< 1.22E-04	< 1.75E-05
08/24/2017	-	08/31/2017	< 1.22E-04	< 1.75E-05
			Period 8 Sum: < 4.88E-04	
Period #: 9				
08/31/2017	-	09/07/2017	< 1.22E-04	< 1.74E-05
09/07/2017	-	09/14/2017	< 1.22E-04	< 1.75E-05
09/14/2017	-	09/21/2017	< 1.22E-04	< 1.74E-05
09/21/2017	-	09/28/2017	< 1.22E-04	< 1.75E-05
09/28/2017	-	10/05/2017	< 1.22E-04	< 1.73E-05
			Period 9 Sum: < 6.10E-04	
3rd Quarter Total: < 1.59E-03			^aHDER < 1.78E-05	

^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 #: 10				
10/05/2017	-	10/12/2017	< 1.22E-04	< 1.76E-05
10/12/2017	-	10/19/2017	< 1.22E-04	< 1.75E-05
10/19/2017	-	10/26/2017	< 1.22E-04	< 1.73E-05
10/26/2017	-	11/02/2017	< 1.22E-04	< 1.76E-05
			Period 10 Sum: < 4.88E-04	
Period #: 11				
11/02/2017	-	11/08/2017	< 1.22E-04	< 1.93E-05
11/08/2017	-	11/15/2017	< 1.22E-04	< 1.84E-05
11/15/2017	-	11/21/2017	< 1.22E-04	< 1.94E-05
11/21/2017	-	11/30/2017	< 1.22E-04	< 1.41E-05
			Period 11 Sum: < 4.88E-04	
Period #: 12				
11/30/2017	-	12/7/2017	< 1.22E-04	< 1.74E-05
12/7/2017	-	12/14/2017	< 1.22E-04	< 1.75E-05
12/14/2017	-	12/21/2017	< 1.22E-04	< 1.75E-05
			Period 12 Sum <: 3.66E-04	
			4th Quarter Total: < 1.34E-03	^aHDER < 1.94E-05
			Sum of four quarters: < 7.00E-03	

^a HDER = Highest Daily Emission Rate