

LA-UR-15-28063

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Title: IDEA ID 856 - Los Alamos National Laboratory 2015 Third Quarter
Beryllium Emissions Report July 1-September 30, 2015 Air Quality
Permit No. 634-M2

Author(s): Gorman, Kathleen

Intended for: Environmental Programs

Issued: 2016-01-07 (rev.1)

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Date: **OCT 19 2015**
Symbol: ENV-DO-15-0297
LA-UR: 15-28063
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 2015 Third Quarter Beryllium Emissions Report July 1 – September 30, 2015 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 **third quarter of calendar year 2015**. 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 third quarter of calendar year 2015 was 4.52×10^{-5} grams per 24 hours, which is well below the daily permit limit. The total amount of beryllium emitted for the third quarter of calendar year 2015 was $<1.85 \times 10^{-3}$ grams. Additionally, the total for the first three quarters of calendar year 2015 is $<5.00 \times 10^{-3}$ 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 Steven L. Story at (505) 665-2169 or Kathleen Gorman at (505) 665-1338.

Sincerely,



Anthony R. Grieggs
Group Leader
Environmental Compliance Programs (ENV-CP)
Los Alamos National Security, LLC

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Enclosure: Beryllium 2015 Stack Emissions

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ENCLOSURE 1

Beryllium 2015 Stack Emissions

ENV-DO-15-0297

LA-UR-15-28063

Date: OCT 19 2015

Beryllium 2015 Stack Emissions

TA-03-0141

TA-3-141 StackID: 3014101

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				
12/24/2014	-	1/8/2015	< 1.21E-04	< 8.03E-06
1/8/2015	-	1/15/2015	< 1.21E-04	< 1.74E-05
1/15/2015	-	1/22/2015	< 1.21E-04	< 1.71E-05
1/22/2015	-	1/29/2015	< 1.21E-04	< 1.75E-05
			Period 1 Sum: < 4.84E-04	
Period #: 2				
1/29/2015	-	2/5/2015	< 1.21E-04	< 1.74E-05
2/5/2015	-	2/12/2015	< 1.21E-04	< 1.73E-05
2/12/2015	-	2/19/2015	< 1.21E-04	< 1.72E-05
2/19/2015	-	2/26/2015	< 1.21E-04	< 1.76E-05
			Period 2 Sum: < 4.84E-04	
Period #: 3				
2/26/2015	-	3/5/2015	< 1.21E-04	< 1.72E-05
3/5/2015	-	3/12/2015	< 1.21E-04	< 1.75E-05
3/12/2015	-	3/19/2015	< 1.21E-04	< 1.71E-05
3/19/2015	-	3/26/2015	< 1.21E-04	< 1.74E-05
			Period 3 Sum: < 4.84E-04	
1st Quarter Total: < 1.45E-03			*HDER < 1.76E-05	

^a HDER = Highest Daily Emission Rate
10/15/2015

Beryllium 2015 Stack Emissions

TA-03-0141

TA-3-141 StackID: 3014101

Sampling dates			Emissions (g)	
			Weekly(1) <i>Sum of weekly results must be <3.5 g/year</i>	Daily(2) <i>Cannot Exceed 0.35 g/day</i>
Period #: 4				
3/26/2015	-	4/2/2015	< 1.21E-04	< 1.71E-05
4/2/2015	-	4/9/2015	< 1.21E-04	< 1.73E-05
4/9/2015	-	4/16/2015	< 1.21E-04	< 1.74E-05
4/16/2015	-	4/23/2015	< 1.21E-04	< 1.75E-05
4/23/2015	-	4/30/2015	< 1.21E-04	< 1.73E-05
			Period 4 Sum: < 6.05E-04	
Period #: 5				
4/30/2015	-	5/7/2015	< 1.21E-04	< 1.72E-05
5/7/2015	-	5/14/2015	< 1.21E-04	< 1.74E-05
5/14/2015	-	5/21/2015	< 1.21E-04	< 1.71E-05
5/21/2015	-	5/28/2015	< 1.21E-04	< 1.75E-05
5/28/2015	-	6/4/2015	< 1.21E-04	< 1.72E-05
			Period 5 Sum: < 6.05E-04	
Period #: 6				
6/4/2015	-	6/11/2015	< 1.21E-04	< 1.73E-05
6/11/2015	-	6/18/2015	< 1.21E-04	< 1.74E-05
6/18/2015	-	6/25/2015	< 1.21E-04	< 1.72E-05
6/25/2015	-	7/2/2015	< 1.21E-04	< 1.73E-05
			Period 6 Sum: < 4.84E-04	
2nd Quarter Total: < 1.69E-03			*HDER < 1.75E-05	

^a HDER = Highest Daily Emission Rate
10/15/2015

**Beryllium 2015 Stack Emissions
TA-03-0141**

TA-3-141 StackID: 3014101

Sampling dates			Emissions (g)	
			Weekly(1) <i>Sum of weekly results must be <3.5 g/year</i>	Daily(2) <i>Cannot Exceed 0.35 g/day</i>
Period #: 7				
7/2/2015	-	7/9/2015	< 1.21E-04	< 1.72E-05
7/9/2015	-	7/16/2015	< 1.21E-04	< 1.74E-05
7/16/2015	-	7/23/2015	< 1.21E-04	< 1.73E-05
7/23/2015	-	7/30/2015	< 1.21E-04	< 1.74E-05
			Period 7 Sum: < 4.84E-04	
Period #: 8				
7/30/2015	-	8/6/2015	< 1.21E-04	< 1.74E-05
8/6/2015	-	8/13/2015	< 1.21E-04	< 1.72E-05
8/13/2015	-	8/20/2015	< 1.21E-04	< 1.73E-05
8/20/2015	-	8/27/2015	2.02E-04	2.91E-05
8/27/2015	-	9/3/2015	3.16E-04	4.52E-05
			Period 8 Sum: < 8.81E-04	
Period #: 9				
9/3/2015	-	9/10/2015	< 1.21E-04	< 1.73E-05
9/10/2015	-	9/17/2015	< 1.21E-04	< 1.72E-05
9/17/2015	-	9/24/2015	< 1.21E-04	< 1.73E-05
9/24/2015	-	10/1/2015	< 1.21E-04	< 1.74E-05
			Period 9 Sum: < 4.84E-04	
3rd Quarter Total: < 1.85E-03			*HDER 4.52E-05	

^a HDER = Highest Daily Emission Rate
10/15/2015



**New Mexico Environment Department
Air Quality Bureau
Compliance and Enforcement Section
525 Camino de los Marquez, Suite 1
Santa Fe, NM 87505
Phone (505) 476-4300 Fax (505) 476-4375**



Version 05.02.13

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REPORTING SUBMITTAL FORM

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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 ¹	E.2 ® City:	E.3 ® State:	E.4 ® Zip:
C.1 ® Company Environmental Contact: Anthony R. Grieggs		C.2 ® Title: Group Leader, ENV-CP	F.1 ® Facility Contact: Steven L. Story		F.2 ® Title: Team Leader, Air Quality Permitting and Compliance Programs
C.3 ® Phone Number: (505) 665-0451		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: grieggst@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-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: July 1, 2015 To: September 30, 2015					

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: Report beryllium emissions data generated by the continuous air monitor of the exhaust stack, 60 days after each 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. <small>(name of reporting official)</small>			
® Signature of Reporting Official: <i>A R Grieggs</i>	® Title: Group Leader, ENV-CP	® Date: <i>10/19/15</i>	® Responsible Official for Title V? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Reviewed By: _____

Date Reviewed: _____