

Environmental Protection Division Environmental Complace Programs (ENV-CP) PO Box 1663, K490 Los Alamos, New Mexico 87545 (505) 667-0666

> JAN 1 3 2016 Date:

Symbol: ENV-DO-16-007 16-20129

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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 Fourth Quarter Beryllium Emissions Report October 1-December 31, 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 fourth 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.

Air Quality permit #634-M2 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. As can be seen on the attached data sheet, the highest daily emission rate (HDER) during the fourth quarter of calendar year 2015 was 7.45 x 10⁻⁵ grams per 24 hours, which is well below the daily permit limit. The total amount of beryllium emitted for the fourth quarter of calendar year 2015 was <1.93 x 10⁻³ grams. Additionally, the total for the all the four quarters of calendar year 2015 is <6.92 x 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 Brinda Ramanathan at (505) 665-8879.

Sincerely,

Anthony R. Grieggs

Group Leader

Environmental Compliance Programs (ENV-CP)

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Los Alamos National Security, LLC

ARG:SLS:BR/lm

Enclosure: Beryllium 2015 Stack Emissions

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ENV-CP Beryllium Permit #634 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 Phone (505) 476-4300 Fax (505) 476-4375



Date Reviewed:

Version 05.02.13

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	<u> </u>							Admin		
PLEASE N	IOTE: ® - Indicates required fie	ld								
SECT	ION I - GENERAL	COMPANY AND	FACILIT	Y INFOR	MATION					
	ompany Name:			_	D. ® Facility Name:					
	amos National Security, L Company Address:	-LC			Los Alamos National Laboratory E.1 ® Facility Address:					
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Los Ala	amos	NM			E.2 ® City:			E.3 ® State:	E.4 ® ZI	ip:
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			
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grieggs	t@lanl.gov_				story@la					
Michae	onsible Official: (Title V only IT. Brandt	Associate Di	H. Title: Associate Director, ADESH		I. Phone (505) 667			J. Fax Nun (505) 665-3		
856	P100	ie V Permit Number)-R2	.	itle V Permit Is 7/2015	sue Date:	N. NSR Pern 634-M2	nit Number:	O. NS 10/30/		Issue Date:
P. Repo	orting Period: October 1, 2015	To: December 31	2015					•		
T TOTTI.	October 1, 2013	To. December 31	, 2015							
SECTI	ON II - TYPE OF S	UBMITTAL (che	ck one ti	hat applie	s)					
A. 🗌	Title V Annual Compli			Description:						
	Certification									
в. 🗌	Title V Semi-annua Monitoring Report		tion(s):	Description	n:					
с. 🗌	NSPS Requiremen (40CFR60)	Regulation:		Section(s)): Description:					
D. 🗌	MACT Requirement (40CFR63)	Regulation:	Regulation: Section(s		:	Description:				
Trans to recognitions			Regulation: Section(s)		Description:					
E. (20.2.xx) or NESHAP Requirement (40CFR61)										
D			Permit No.⊠: or NOI No.□: Conditi							
F. 🛛	Permit or Notice of Int (NOI) Requirement			5.f		the continu	Report containing beryllium emissions data generated by the continuous air monitor of the exhaust stack, due within 60 days after each calendar quarter.			
Bandana		. 1	NOV No. : or SFO No. : Se		Section(s):		Description:			
G. 🗌	Requirement of an Enforcement Action		r Other 🗀:			·				
SECT	ION IV - CERTIFIC	ATION		(0.50s) (0.40)		Access to the second	TEMPERATURE		RESERVATION OF	
	pasonable inquiry, I	Anthony R. (certi	fy that the	information in	this submitta	ıl is true, acc	urate and	d complete.
® Sign:	ature of Reporting Office	I-I-		® Tit	le:		® Date ,	® Re	ponsible Of	ificial for Title V?
_	SHISTO	y (Fr	en A6)		p Leader,	ENV-CP	1/13/14	. 1 _	Yes	⊠ No
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Reviewed By:

ENCLOSURE 1

Beryllium 2015 Stack Emissions

ENV-DO-16-007

Date:	JAN 1 3 2016

	Sampli	ng dates		Emissions (g)
			Weekly(1) Sum of weekly	Daily(2)
			results must be	Cannot Exceed 0.3
	Period #:	1	<3.5 g/year	g/day
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 #:	2	Period 1 Sum: < 4.84E-04	
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 #:	3	Period 2 Sum: < 4.84E-04	
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 Period 3 Sum: < 4.84E-04	< 1.74E-05
			1st Quarter Total: < 1.45E-03	"HDER < 1.76E-05

^a HDER = Highest Daily Emission Rate 1/11/2016

	<u>TA-3-141</u> Sampli	StackID: 3014101 ng dates		Emissions (g)
			Weekly(1) Sum of weekly results must be <3.5 g/year	Daily(2) Cannot Exceed 0.3 g/day
	Period #:	4		0 000
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 #:	5	Period 4 Sum: < 6.05E-04	
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 #:	6	Period 5 Sum: < 6.05E-04	
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	
		Γ	2nd Quarter Total; < 1,69E-03	"HDER < 1.75E-05

^a HDER = Highest Daily Emission Rate 1/11/2016

	TA-3-141	StackID: 3014101		
	Sampli	ng dates		Emissions (g)
			Weekly(1) Sum of weekly	Daily(2)
			results must be	Cannot Exceed 0.33
			<3.5 g/year	g/day
	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
3/13/2015	-	8/20/2015	< 1.21E-04	< 1,73E-05
3/20/2015	-	8/27/2015	2.02E-04	2,91E-05
V27/2015	-	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
/10/2015	-	9/17/2015	< 1.21E-04	< 1.72E-05
/17/2015	-	9/24/2015	< 1.21E-04	< 1.73E-05
/24/2015	-	10/1/2015	< 1.21E-04	< 1.74E-05
			Period 9 Sum: < 4.84E-04	
			Control of Marie 4.04E-04	
		ſ		
		X	3rd Quarter Total: < 1.85E-03	"HDER 4.52E-05

^{*} HDER = Highest Daily Emission Rate 1/11/2016

TA-3-141	StackID:	3014101

	Sampl	ing dates		Emissions (g)
			Weekly(1) Sum of weekly	Daily(2)
			results must be	Cannot Exceed 0.3
			< 3.5 g/year	g/day
	Period #:	10	* 11 - 2000-0	
10/1/2015	-	10/8/2015	< 1.21E-04	< 1.72E-05
10/8/2015	-	10/15/2015	< 1.21E-04	< 1.74E-05
10/15/2015	-	10/22/2015	< 1.21E-04	< 1.73E-05
10/22/2015	-	10/29/2015	< 1.21E-04	< 1.74E-05
			Period 10 Sum: < 4.84E-04	
	Period #:	11		
10/29/2015	-	11/5/2015	< 1.21E-04	< 1.71E-05
11/5/2015	-	11/12/2015	< 1.22E-04	< 1.72E-05
11/12/2015	-	11/19/2015	< 1.22E-04	< 1.76E-05
11/19/2015	-	11/25/2015	< 1,22E-04	< 2.00E-05
11/25/2015	-	12/3/2015	5,91E-04	7.45E-05
			Period 11 Sum: < 1.08E-03	
	Period #:	12	16	R- "
12/3/2015	-	12/10/2015	< 1.22E-04	< 1.74E-05
12/10/2015	-	12/17/2015	< 1.22E-04	< 1.73E-05
12/17/2015	-	12/24/2015	< 1.22E-04	< 1.76E-05
			Period 12 Sum <: 3.66E-04	
			4th Quarter Total: < 1.93E-03	"HDER 7.45E-05

^a HDER = Highest Daily Emission Rate 1/11/2016