

LA-UR-19-27738

Approved for public release; distribution is unlimited.

IDEA ID 856 – Los Alamos National Laboratory 2019 Second Quarter Beryllium Emissions Report April 1–June 30, 2019, Air Quality Permit Title:

No. 634-M2

Author(s): Carretti, Vincent Anthony

Environmental Regulatory Document Intended for:

Issued: 2019-08-14 (rev.1)





Environment, Safety, Health, Quality, Safeguards, and Security PO Box 1663, K491

Los Alamos, New Mexico 87545

(505) 667-4218

Symbol: ESHQSS: 19-053

LAUR: 19-27738

Locates Action No: N/A

Date: AUG 1 2 2019

Ms. Kristina Sullivan Compliance Reporting Manager 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 2019 Second Quarter Beryllium

Emissions Report April 1-June 30, 2019, Air Quality Permit No. 634-M2

Dear Ms. Sullivan:

Attached is a copy of the sampling data for the **second quarter of calendar year 2019.** 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-R2M3.

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 2019 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 P100-R2M3 Permit Limit
2019Q2	Highest daily emission rate	2.02 x 10 ⁻⁵ gm/24 hours	0.35 gm/ 24 hours
2019Q2	Total amount for 2019Q2	1.59 x 10 ⁻³ gm	N/A
2019Q2	Total amount for 2019	3.42 x 10 ⁻³ gm	3.5 gm/year



Based on the above summary table and Attachment 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 Aaron M. Dailey at (505) 667-7276 or Vince Carretti at (505) 665-1658.

Sincerely,

Taunia Van Valkenburg

Group Leader

TSV/AMD/VAC:jdm

Attachment(s): Attachment 1 Beryllium 2019 Stack Emissions

Copy: Adrienne L. Nash, NA-LA, adrienne.nash@nnsa.doe.gov James P. Johnson, DDOPS, jpj@lanl.gov Michael W. Hazen, ALDESHQSS, mhazen@lanl.gov William Mairson, ALDESHOSS, wrmairson@lanl.gov Enrique Torres, EPC-DO, etorres@lanl.gov Jennifer E. Payne, EPC-DO, jpayne@lanl.gov David M. Montoya, PF-DO, dmmontoya@lanl.gov Christian D. Lopez, STO-DO, cdlopez@lanl.gov Matt Martinez, PF-WFS, mgmartinez@lanl.gov Steven Gonzales, PF-WFS, sgg@lanl.gov Marc R. Gallegos, DESH-STO, marcg@lanl.gov Timothy A. Dolan, GC-ESH, tdolan@lanl.gov Aaron M. Dailey, EPC-CP, adailey@lanl.gov Vincent A. Carretti, EPC-CP, vcarretti@lanl.gov EPC-CP Beryllium Permit #634-M2 Quarterly Report File aldeshqsscorrespondence@lanl.gov epccorrespondence@lanl.gov adesh-records@lanl.gov





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



Date Reviewed:

Version 07.20.18

Reviewed By:

	NMED USE ONL	_Y									NM	/IED	USE OI	NLY	
TEMP	2		REPO	RTIN	G SU	B	MIT1	ΓA]	L FOR	M	Staff				
											Admin				
	OTE: ® - Indicates requ				-										
	ION I - GENER	RAL COM	PANY AND	FACILIT	Y INFO	RN		114 NI							
	mpany Name: ational Security, Ll	.C				1	D. ® Facili Los Alamo		ame: tional Labora	tory					
B.1 ® C	ompany Address	fő fe					E.1 ® Fac Same as 0								
MS K49						1	Same as C	Comp	ally						
B.2 ® C Los Ala	mos		B.3 ® State: NM	B.4 ® Zip : 8 7	5 4	5	E.2 ® City:			E.3 ® St	tate:	E.4 ® Zi	p:		
	ompany Environment S. Van Valkenburg	al Contact:	C.2 ® Title: Group Leade	r, EPC-CP			F.1 ® Fac Aaron M. I				F.2 ® T Air Qual Leader		ompliand	e Team	
(505) 66			C.4 ® Fax Number: (505) 665-8858				F.3 ® Pho (505) 667-		umber:			F.4 ® Fax Number:			
	mail Address: @lanl.gov						F.5 ® Email Address: adailey@lanl.gov								
G. Resp	onsible Official: (Title Goodrum	V onlv1:	H. Title: Manager			7	1. Phone I (505) 667	Numb	er:		J. Fax Number: NA				
		L. Title V Pe	rmit Number:		itle V Permi	it Iss		N.	NSR Permit 34-M2	Number:				Issue D	ate:
P. Repo	orting Period:														
From:	April 1, 2019 Submit NSPS OOO		June 30, 2019		k notificat	ions	to the Air C	Duality	Bureau. See	https://wwv	v.env.nm.go	ov/air-	-quality/n	otices-an	d-
faqs-for-	compliance-and-enf	orcement/ for	explanation.					()					* *		
SECTI	ON II – TYPE (
A . 🔲	Title V Annual C Certificat	omphance	Permit Condit	ion(s):	Descrip	tior	1:								
в. 🗌	Title V Semi- Monitoring F		Permit Condi	ion(s):	Descrip	tior	1:								
c. 🗌	NSPS Requir (40CFR6		Regulation:		Section	n(s):			Description:						
D. 🗌	MACT Requir (40CFR6		Regulation:		Section	n(s):	(i) (i)		Description:						
E. 🗌	NMAC Requirement (4	ESHAP	Regulation:		Section	n(s):			Description:						
F. 🔀	Permit or Notice (NOI) Requir	of Intent	Permit No.⊠: o	· NOI No.□	: Conditi	on(s):		continuous a	ption: 2 Report containing beryllium emissions data from lous air monitor of the exhaust stack, due within 6 fer calendar quarter.					
G. 🗌	Requirement Enforcement	t of an	NOV No. □: or or CD No. □: o		Section	n(s):			Description	:					
SECT	ION III - CERT	IFICATIO	N												
	easonable inquiry		aupia S. Van \		c	erti	fy that the	infor	mation in th	nis submit	tal is true	, acc	urate an	d comp	lete.
® Sino	ature of Certifier:		(Name of Cer	tifier)		® Title: Group Leader, EPC-CP ® Date									
											-				

Attachment 1

Beryllium 2019 Stack Emissions

ESHQSS-19-053

LA-UR-19-27738

Date: _____AUG 1 2 2019

Los Alamos National Laboratory TA-03-0141 Beryllium 2019 Stack Emissions

<u>TA-03-0141</u> <u>StackID:</u> <u>03014101</u>

	Sampling	dates	Emissions (g)			
			Weekly(1)	Daily(2)		
			Sum of weekly results must be <3.5 g/year	Cannot Exceed 0.3 g/day		
	Period #:	1				
12/20/2018	-	01/10/2019	< 3.67E-04	< 1.75E-05		
01/10/2019	-	01/17/2019	< 1.22E-04	< 1.75E-05		
01/17/2019	-	01/24/2019	< 1.22E-04	< 1.75E-05		
01/24/2019	-	01/31/2019	< 1.22E-04	< 1.75E-05		
			Period 1 Sum: < 7.33E-04			
	Period #:	2				
01/31/2019	-	02/07/2019	< 1.22E-04	< 1.75E-05		
02/07/2019	-	02/14/2019	< 1.22E-04	< 1.74E-05		
02/14/2019	-	02/21/2019	< 1.22E-04	< 1.76E-05		
)2/21/2019	-	02/28/2019	< 1.22E-04	< 1.75E-05		
			Period 2 Sum: < 4.88E-04			
	Period #:	3				
02/28/2019	-	03/07/2019	< 1.22E-04	< 1.75E-05		
03/07/2019	-	03/14/2019	< 1.22E-04	< 1.75E-05		
03/14/2019	-	03/21/2019	< 1.22E-04	< 1.75E-05		
03/21/2019	-	03/28/2019	< 1.22E-04	< 1.74E-05		
03/28/2019	-	04/04/2019	< 1.22E-04	< 1.74E-05		
			Period 3 Sum: < 6.10E-04			
			1st Quarter Total: 1.83E-03	^a HDER 1.76E-05		

^a HDER = Highest Daily Emission Rate

Los Alamos National Laboratory TA-03-0141 Beryllium 2019 Stack Emissions

<u>TA-03-0141</u> <u>StackID:</u> <u>03014101</u>

missions (g)	Em	Sampling dates			
Daily(2)	Weekly(1)				
Cannot Exceed 0. g/day	Sum of weekly results must be <3.5 g/year				
		4	Period #:		
< 1.76E-05	< 1.22E-04	04/11/2019	-	04/04/2019	
< 1.72E-05	< 1.22E-04	04/18/2019	-	04/11/2019	
< 1.78E-05	< 1.22E-04	04/25/2019	-	04/18/2019	
< 1.75E-05	< 1.22E-04	05/02/2019	-	04/25/2019	
	Period 4 Sum: < 4.88E-04				
		5	Period #:		
< 1.75E-05	< 1.22E-04	05/09/2019	-	05/02/2019	
< 1.74E-05	< 1.22E-04	05/16/2019	-	05/09/2019	
< 1.76E-05	< 1.22E-04	05/23/2019	-	05/16/2019	
< 1.75E-05	< 1.22E-04	05/30/2019	-	05/23/2019	
	Period 5 Sum: < 4.88E-04				
		6	Period #:		
< 1.75E-05	< 1.22E-04	06/06/2019	-	05/30/2019	
< 1.75E-05	< 1.22E-04	06/13/2019	-	06/06/2019	
< 1.75E-05	< 1.22E-04	06/20/2019	-	06/13/2019	
< 1.75E-05	< 1.22E-04	06/27/2019	-	06/20/2019	
< 2.02E-05	< 1.22E-04	07/03/2019	-	06/27/2019	
	Period 6 Sum: < 6.10E-04				
^a HDER 2.02E-05	2nd Quarter Total: 1.59E-03				

^a HDER = Highest Daily Emission Rate