

LA-UR-21-27966

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IDEA ID 856 – Los Alamos National Laboratory 2021 Second Quarter Beryllium Emissions Report April 1–June 30, 2021, Air Quality Permit Title:

No. 634-M2

Author(s): Carretti, Vincent Anthony

Environmental Regulatory Document Intended for:

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Environment, Safety, Health, Quality, Safeguards, and Security (ESHQSS)

Los Alamos National Laboratory PO Box 1663, K491 Los Alamos, NM 87545 505-667-4218

Symbol: ESHQSS: 21-043

LAUR: 21-27966

Date: AUG 1 0 2021

Mr. David Feather 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 2021 Second Quarter Beryllium Emissions Report April 1–June 30, 2021, Air Quality Permit No. 634-M2

Dear Mr. Feather:

Attached is a copy of the sampling data for the **second quarter of calendar year 2021.** 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-R2M4.

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 2021 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-R2M4 Permit Limit
2021Q2	Highest daily emission rate	1.80 x 10 ⁻⁵ gm/24 hours	0.35 gm/24 hours
2021Q2	Total amount for 2021Q2	1.61 x 10 ⁻³ gm	N/A
2021Q2	Total amount for 2021	3.21 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 Marjorie B. Stockton at (505) 665-3289 or Vincent A. Carretti at (505) 665-1658.



Sincerely,

Taunia J. Sandquist Group Leader

Attachment(s): Attachment 1 Beryllium 2021 Stack Emissions

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New Mexico Environment Department



Date Reviewed:

Version 07.20.18

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Los Ala	mos ompany Environmen	tal Contact	NM 8 7 5 4 5 C.2 ® Title:			F.1 ® Facility Contact:			F.2 ® Title		
	J. Sandquist	iai Contact.	Group Leader, EPC-CP				Marjorie B. Stockton			Meteorology & Air Quality Team Leader	
C.3 ® P	hone Number:		C.4 ® Fax Number:				F.3 ® Phone Number:			k Number:	
(505) 66			(505) 665-885	8		(505) 665-	-3289 Iail Address:		NA		
	mail Address: glanl.gov					mstockto	n@lanl.gov				
	onsible Official: (Title ore A. Wyka	e V only):	H. Title:				I. Phone Number: (505) 667-4081			J. Fax Number: NA	
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SECTION III - CERTIFICATION											
After reasonable inquiry, I Taunia J. Sandquist certify that the information in this submittal is true, accurate and complete.											
			(Name of Cert	ifier)	I @ ·	Γitle:		® Date		Responsible Official for Title V7	
® Signature of Centine)											
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Reviewed By:

ATTACHMENT 1Beryllium 2021 Stack Emissions

ESHQSS: 21-043

LA-UR-21-27966

Date: _____AUG 1 0 2021

Los Alamos National Laboratory TA-03-0141 Beryllium 2021 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			
12/22/2020	-	01/07/2021	< 1.22E-04	< 7.63E-06	
01/07/2021	-	01/14/2021	< 1.22E-04	< 1.75E-05	
01/14/2021	-	01/21/2021	< 1.22E-04	< 1.75E-05	
01/21/2021	-	01/28/2021	< 1.22E-04	< 1.76E-05	
01/28/2021	-	02/04/2021	< 1.22E-04	< 1.74E-05	
			Period 1 Sum: < 6.10E-04		
	Period #:	2			
02/04/2021	-	02/11/2021	< 1.22E-04	< 1.75E-05	
02/11/2021	-	02/18/2021	< 1.22E-04	< 1.71E-05	
02/18/2021	-	02/25/2021	< 1.22E-04	< 1.80E-05	
02/25/2021	-	03/04/2021	< 1.22E-04	< 1.75E-05	
			Period 2 Sum: < 4.88E-04		
	Period #:	3			
03/04/2021	-	03/11/2021	< 1.24E-04	< 1.76E-05	
03/11/2021	-	03/18/2021	< 1.24E-04	< 1.78E-05	
03/18/2021	-	03/25/2021	< 1.24E-04	< 1.77E-05	
03/25/2021	-	04/01/2021	< 1.24E-04	< 1.77E-05	
			Period 3 Sum: < 4.96E-04		
			1st Quarter Total: 1.59E-03	^a HDER 1.80E-05	

^a HDER = Highest Daily Emission Rate

Los Alamos National Laboratory TA-03-0141 Beryllium 2021 Stack Emissions

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

Sa	impling dates		Emissions (g)		
		Weekly(1)	Daily(2)		
D. of a	ш.	Sum of weekly results must be <3.5 g/year	Cannot Exceed 0 g/day		
Period 4/01/2021 -	#: 4 04/08/2021	< 1.24E-04	< 1.77E-05		
		< 1.24E-04 < 1.24E-04			
4/08/2021 - 4/15/2021 -	04/15/2021 04/22/2021	< 1.24E-04 < 1.24E-04	< 1.77E-05 < 1.77E-05		
4/22/2021 -	04/29/2021	< 1.24E-04 < 1.24E-04	< 1.7/E-05 < 1.75E-05		
+/22/2021 -	04/29/2021		< 1./3E-03		
ъ		Period 4 Sum: < 4.96E-04			
Period		10/70/	1.007.05		
4/29/2021 -	05/06/2021	< 1.24E-04	< 1.80E-05		
5/06/2021 -	05/13/2021	< 1.24E-04	< 1.77E-05		
5/13/2021 -	05/20/2021	< 1.24E-04	< 1.76E-05		
5/20/2021 -	05/27/2021	< 1.24E-04	< 1.76E-05		
5/27/2021 -	06/03/2021	< 1.24E-04	< 1.79E-05		
		Period 5 Sum: < 6.20E-04			
Period	#: 6				
6/03/2021 -	06/10/2021	< 1.24E-04	< 1.76E-05		
6/10/2021 -	06/17/2021	< 1.24E-04	< 1.79E-05		
6/17/2021 -	06/24/2021	< 1.24E-04	< 1.77E-05		
6/24/2021 -	07/01/2021	< 1.24E-04	< 1.74E-05		
		Period 6 Sum: < 4.96E-04			
		2nd Quarter Total: 1.61E-03	*HDER 1.80E-05		

^a HDER = Highest Daily Emission Rate