

LA-UR-23-24682

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Title: IDEA ID 856 - Los Alamos National Laboratory 2023 First Quarter Beryllium Emissions Report January 1-March 31, 2023, Air Quality Permit No. 634-M2

Author(s): Carretti, Vincent Anthony

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**Environmental Protection & Compliance
 Compliance Programs Group**

Symbol: EPC-DO: 23-156
LA-UR: 23-24682
Locates: N/A

Date: **MAY 02 2023**

Mr. Shea Schleman
 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 2023 First Quarter Beryllium Emissions Report January 1-March 31, 2023, Air Quality Permit No. 634-M2

Dear Mr. Schleman:

Attached is a copy of the sampling data for the **first quarter of calendar year 2023**. 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 2023 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
2023Q1	Highest daily emission rate	2.31×10^{-4} gm/24 hours	0.35 gm/24 hours
2023Q1	Total amount for 2023Q1	8.96×10^{-3} gm	N/A
2023Q1	Total amount for 2023	8.96×10^{-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.



MAY 02 2023

Shea Schleman, NMED
EPC-DO: 23-156

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Sincerely,

STEVEN STORY Digitally signed by
STEVEN STORY (Affiliate)
(Affiliate) Date: 2023.05.02
16:33:08 -06'00'

Steven L. Story
Group Leader

Attachment(s): Attachment 1 Beryllium 2023 Stack Emissions

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Version 07.20.18

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TEMPO	

REPORTING SUBMITTAL FORM

NMED USE ONLY	
Staff	
Admin	

PLEASE NOTE: ® - Indicates required field

SECTION I - GENERAL COMPANY AND FACILITY INFORMATION					
A. ® Company Name: Triad National Security, LLC			D. ® Facility Name: Los Alamos National Laboratory		
B.1 ® Company Address: P.O. Box 1663 MS K491			E.1 ® Facility Address: Same as Company		
B.2 ® City: Los Alamos	B.3 ® State: NM	B.4 ® Zip: 8 7 5 4 5	E.2 ® City:	E.3 ® State:	E.4 ® Zip:
C.1 ® Company Environmental Contact: Steven L. Story		C.2 ® Title: Group Leader, EPC-CP		F.1 ® Facility Contact: Marjorie B. Stockton	
C.3 ® Phone Number: (505) 665-2169		C.4 ® Fax Number: (505) 665-8858		F.2 ® Title: Meteorology & Air Quality Team Leader	
C.5 ® Email Address: story@lanl.gov			F.3 ® Phone Number: (505) 665-3289		
G. Responsible Official: (Title V only): Theodore A. Wyka			H. Title: Manager		F.4 ® Fax Number: NA
K. ® AI Number: 856		L. Title V Permit Number: P100-R2M4		M. Title V Permit Issue Date: 07/18/2019	
N. NSR Permit Number: 634-M2		O. NSR Permit Issue Date: 10/30/1998			
P. Reporting Period: From: January 1, 2023 To: March 31, 2023					

Do NOT submit NSPS OOOO or OOOOa well completion or flowback notifications to the Air Quality Bureau. See <https://www.env.nm.gov/air-quality/notices-and-faqs-for-compliance-and-enforcement/> for explanation.

SECTION II - TYPE OF SUBMITTAL (check one that applies)					
<input type="checkbox"/>	Title V Annual Compliance Certification	Permit Condition(s):	Description:		
<input type="checkbox"/>	Title V Semi-Annual Monitoring Report	Permit Condition(s):	Description:		
<input type="checkbox"/>	NSPS Requirement (40CFR60)	Regulation:	Section(s):	Description:	
<input type="checkbox"/>	MACT Requirement (40CFR63)	Regulation:	Section(s):	Description:	
<input type="checkbox"/>	NMAC Requirement (20.2.xx) or NESHAP Requirement (40CFR61)	Regulation:	Section(s):	Description:	
<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: 2023Q1 Report containing beryllium emissions data from the continuous air monitor of the exhaust stack, due within 60 days after calendar quarter.	
<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 III - CERTIFICATION			
After reasonable inquiry, I <u>Steven L. Story</u> certify that the information in this submittal is true, accurate and complete. <small>(Name of Certifier)</small>			
® Signature of Certifier: STEVEN STORY (Affiliate)	<small>Digitally signed by STEVEN STORY (Affiliate) Date: 2023.05.02 16:32:43 -06'00'</small>	® Title: Group Leader, EPC-CP	® Date
		® Responsible Official for Title V? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Reviewed By: _____

Date Reviewed: _____

ATTACHMENT 1

Beryllium 2023 Stack Emissions

EPC-DO: 23-156

LAUR: 23-24682

Date: **MAY 0 2 2023**

**Los Alamos National Laboratory
TA-03-0141 Beryllium 2023 Stack Emissions**

TA-03-0141 StackID: 03014101

Sampling dates

Emissions (g)

Weekly(1)

Daily(2)

*Sum of weekly
results must be
<3.5 g/year*

*Cannot Exceed 0.35
g/day*

Period #: 1

12/22/2022	-	01/05/2023
01/05/2023	-	01/12/2023
01/12/2023	-	01/19/2023
01/19/2023	-	01/26/2023
01/26/2023	-	02/02/2023

< 6.89E-04	< 4.91E-05
< 6.89E-04	< 9.87E-05
< 6.89E-04	< 9.86E-05
< 6.89E-04	< 9.83E-05
< 6.89E-04	< 9.86E-05

Period 1 Sum: < 3.45E-03

Period #: 2

02/02/2023	-	02/09/2023
02/09/2023	-	02/16/2023
02/16/2023	-	02/23/2023
02/23/2023	-	03/06/2023

< 6.89E-04	< 9.83E-05
< 6.89E-04	< 9.99E-05
< 6.89E-04	< 9.67E-05
< 6.89E-04	< 6.26E-05

Period 2 Sum: < 2.76E-03

Period #: 3

03/06/2023	-	03/09/2023
03/09/2023	-	03/16/2023
03/16/2023	-	03/23/2023
03/23/2023	-	03/30/2023

< 6.89E-04	< 2.31E-04
< 6.89E-04	< 9.83E-05
< 6.89E-04	< 9.85E-05
< 6.89E-04	< 1.00E-04

Period 3 Sum: < 2.76E-03

1st Quarter Total: 8.96E-03

^aHDER 2.31E-04

^a HDER = Highest Daily Emission Rate