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OCT 26 2017

Air Quality Bureau



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Environmental Protection & Compliance Division (EPC-DO)
Los Alamos National Laboratory
PO Box 1663, K499
Los Alamos, New Mexico 87545
(505) 667-2211

Date: OCT 26 2017
Symbol: EPC-DO: 17-451
LA-UR: 17-29750
Locates Action No.: N/A

Mr. Ralph Gruebel
Manager, Compliance and Enforcement Section
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
2017 Third Quarter Beryllium Emissions Report July 1–September 30, 2017
Air Quality Permit No. 634-M2

Dear Mr. Gruebel:

Attached is a copy of the beryllium sampling data for the third quarter of calendar year 2017. 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). The submission of the quarterly emissions data collected from this source, is required by permit condition 5.f of the New Mexico Environment Department (NMED) 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 the permit.

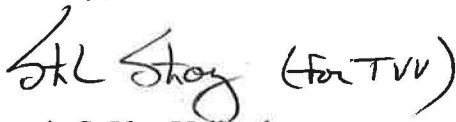
Air Quality Permit #634-M2 condition #2 requires that the beryllium stack emissions from the BTF shall not exceed 0.35 grams in a 24-hour time period and shall not exceed 3.5 grams per year. Table below lists the beryllium emission rates for the current quarter and the total emissions to date

Table with 4 columns: Reporting Period, Description of Data, Beryllium Emission Rate, and NSR 634-M2/ Title V P100-R2M1 Permit Limit. Rows include data for 2017Q3 and cumulative totals for 2017Q1, Q2, and Q3.



Based on the above summary table and Enclosure 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 Steven L. Story at (505) 665-2169 or Brinda Ramanathan at (505) 665-8879.

Sincerely,



Taunia S. Van Valkenburg  
Group Leader

TSV/SLS/BR: am

Enclosure(s): 1) Beryllium 2017Q1Q2Q3 Stack Emissions

Copy: Adrienne L. Nash, NA-LA, (E-File)  
Richard M. Kacich, DIR, (E-File)  
Craig S. Leasure, PADOPS, (E-File)  
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Version 05.02.13

|               |  |
|---------------|--|
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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                     |  |   |   |  |  |  |  |  |                   |
|--|--|---|---|--|--|--|--|--|-------------------|
| <b>A. ® Company Name:</b><br>Los Alamos National Security, LLC           |  |   |   |  | <b>D. ® Facility Name:</b><br>Los Alamos National Laboratory |  |  |  |                   |
| <b>B.1 ® Company Address:</b><br>P.O Box 1663<br>MS K490                 |  |   |   |  | <b>E.1 ® Facility Address:</b><br>Same as Company            |  |  |  |                   |
| <b>B.2 ® City:</b><br>Los Alamos   |  | <b>B.3 ® State:</b><br>NM                     | <b>B.4 ® Zip:</b><br>87545                    |  | <b>E.2 ® City:</b>   |  |  | <b>E.3 ® State:</b>  | <b>E.4 ® Zip:</b> |
| <b>C.1 ® Company Environmental Contact:</b><br>Tania S. Van Valkenburg   |  |   | <b>C.2 ® Title:</b><br>Group Leader, EPC-CP   |  | <b>F.1 ® Facility Contact:</b><br>Steven L. Story            |  |  | <b>F.2 ® Title:</b><br>Team Leader, Air Quality Compliance |                   |
| <b>C.3 ® Phone Number:</b><br>(505) 665-9827                             |  |   | <b>C.4 ® Fax Number:</b><br>(505) 665-8858    |  | <b>F.3 ® Phone Number:</b><br>(505) 665-2169                 |  |  | <b>F.4 ® Fax Number:</b><br>(505) 665-8858                 |                   |
| <b>C.5 ® Email Address:</b><br>tauniav@lanl.gov                          |  |   |   |  | <b>F.5 ® Email Address:</b><br>story@lanl.gov                |  |  |  |                   |
| <b>G. Responsible Official: (Title V only):</b><br>Michael T. Brandt     |  |   | <b>H. Title:</b><br>Associate Director, ADESH |  | <b>I. Phone Number:</b><br>(505) 667-4218                    |  |  | <b>J. Fax Number:</b><br>(505) 665-3811                    |                   |
| <b>K. ® AI Number:</b><br>856  |  | <b>L. Title V Permit Number:</b><br>P100-R2M1 |   | <b>M. Title V Permit Issue Date:</b><br>02/03/2017 |  | <b>N. NSR Permit Number:</b><br>634-M2 |  | <b>O. NSR Permit Issue Date:</b><br>10/30/1998             |                   |
| <b>P. Reporting Period:</b><br>From: July 1, 2017 To: September 30, 2017 |  |   |   |  |  |  |  |  |                   |

| SECTION II - TYPE OF SUBMITTAL (check one that applies) |  |  |                      |  |
|---|--|--|----------------------|--|
| <b>A.</b> <input type="checkbox"/>                      | Title V Annual Compliance Certification                    | Permit Condition(s):   | Description:         |  |
| <b>B.</b> <input type="checkbox"/>                      | Title V Semi-annual Monitoring Report                      | Permit Condition(s):   | Description:         |  |
| <b>C.</b> <input type="checkbox"/>                      | NSPS Requirement (40CFR60)                                 | Regulation:  | Section(s):          | Description:   |
| <b>D.</b> <input type="checkbox"/>                      | MACT Requirement (40CFR63)                                 | Regulation:  | Section(s):          | Description:   |
| <b>E.</b> <input type="checkbox"/>                      | NMAC Requirement (20.2.xx) or NESHAP Requirement (40CFR61) | Regulation:  | Section(s):          | Description:   |
| <b>F.</b> <input checked="" type="checkbox"/>           | Permit or Notice of Intent (NOI) Requirement               | Permit No. <input checked="" type="checkbox"/> : or NOI No. <input type="checkbox"/> :<br>634-M2   | Condition(s):<br>5.f | Description:<br>2017Q3 Report containing beryllium emissions data from the continuous air monitor of the exhaust stack, due within 60 days after calendar quarter. |
| <b>G.</b> <input type="checkbox"/>                      | Requirement of an Enforcement Action                       | NOV No. <input type="checkbox"/> : or SFO No. <input type="checkbox"/> :<br>or CD No. <input type="checkbox"/> : or Other <input type="checkbox"/> : | Section(s):          | Description:   |

| SECTION IV - CERTIFICATION  |  |   |                            |
|---|--|---|----------------------------|
| After reasonable inquiry, I <u>Tania S. Van Valkenburg</u> certify that the information in this submittal is true, accurate and complete.<br>(name of reporting official) |  |   |                            |
| <b>® Signature of Reporting Official:</b><br>   |  | <b>® Title:</b><br>Group Leader, EPC-CP   | <b>® Date:</b><br>10/26/17 |
|   |  | <b>® Responsible Official for Title V?</b><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |                            |

Reviewed By: \_\_\_\_\_

Date Reviewed: \_\_\_\_\_

# **ENCLOSURE 1**

**Beryllium 2017 Stack Emissions**

**EPC-DO: 17-451**

**LA-UR-17-29750**

**Date:**                     OCT 26 2017

**TA-03-0141    StackID: 03014101**

**Sampling dates**

**Emissions (g)**

|                                    |   |            | Weekly(1)   | Daily(2)                        |
|------------------------------------|---|------------|---|---------------------------------|
|                                    |   |            | <i>Sum of weekly results must be &lt;3.5 g/year</i> | <i>Cannot Exceed 0.35 g/day</i> |
| <b>Period #: 1</b>                 |   |            |   |                                 |
| 12/22/2016                         | - | 01/05/2017 | < 1.22E-04  | < 8.74E-06                      |
| 01/05/2017                         | - | 01/12/2017 | < 1.22E-04  | < 1.73E-05                      |
| 01/12/2017                         | - | 01/19/2017 | < 1.22E-04  | < 1.76E-05                      |
| 01/19/2017                         | - | 01/26/2017 | 1.36E-04  | 1.91E-05                        |
| 01/26/2017                         | - | 02/02/2017 | 8.83E-04  | 1.28E-04                        |
| <b>Period 1 Sum: 1.39E-03</b>      |   |            |   |                                 |
| <b>Period #: 2</b>                 |   |            |   |                                 |
| 02/02/2017                         | - | 02/09/2017 | < 1.22E-04  | < 1.74E-05                      |
| 02/09/2017                         | - | 02/16/2017 | < 1.22E-04  | < 1.76E-05                      |
| 02/16/2017                         | - | 02/23/2017 | < 1.22E-04  | < 1.75E-05                      |
| 02/23/2017                         | - | 03/02/2017 | < 1.22E-04  | < 1.73E-05                      |
| <b>Period 2 Sum: &lt; 4.88E-04</b> |   |            |   |                                 |
| <b>Period #: 3</b>                 |   |            |   |                                 |
| 03/02/2017                         | - | 03/09/2017 | < 1.22E-04  | < 1.74E-05                      |
| 03/09/2017                         | - | 03/16/2017 | < 1.22E-04  | < 1.75E-05                      |
| 03/16/2017                         | - | 03/23/2017 | < 1.22E-04  | < 1.76E-05                      |
| 03/23/2017                         | - | 03/30/2017 | < 1.22E-04  | < 1.75E-05                      |
| 03/30/2017                         | - | 04/06/2017 | < 1.22E-04  | < 1.75E-05                      |
| <b>Period 3 Sum: &lt; 6.10E-04</b> |   |            |   |                                 |
| <b>1st Quarter Total: 2.48E-03</b> |   |            | <b><sup>a</sup>HDER 1.28E-04</b>                    |                                 |

**TA-03-0141**    **StackID: 03014101**

**Sampling dates**

**Emissions (g)**

|                                    |   |            | <b>Weekly(1)</b>                                    | <b>Daily(2)</b>                 |
|------------------------------------|---|------------|---|---------------------------------|
|                                    |   |            | <i>Sum of weekly results must be &lt;3.5 g/year</i> | <i>Cannot Exceed 0.35 g/day</i> |
| <b>Period #: 4</b>                 |   |            |   |                                 |
| 04/06/2017                         | - | 04/13/2017 | < 1.22E-04  | < 1.75E-05                      |
| 04/13/2017                         | - | 04/20/2017 | < 1.22E-04  | < 1.75E-05                      |
| 04/20/2017                         | - | 04/27/2017 | < 1.22E-04  | < 1.71E-05                      |
| 04/27/2017                         | - | 05/04/2017 | < 1.22E-04  | < 1.79E-05                      |
| <b>Period 4 Sum: &lt; 4.88E-04</b> |   |            |   |                                 |
| <b>Period #: 5</b>                 |   |            |   |                                 |
| 05/04/2017                         | - | 05/11/2017 | < 1.22E-04  | < 1.74E-05                      |
| 05/11/2017                         | - | 05/18/2017 | < 1.22E-04  | < 1.75E-05                      |
| 05/18/2017                         | - | 05/25/2017 | < 1.22E-04  | < 1.74E-05                      |
| 05/25/2017                         | - | 06/01/2017 | < 1.22E-04  | < 1.75E-05                      |
| <b>Period 5 Sum: &lt; 4.88E-04</b> |   |            |   |                                 |
| <b>Period #: 6</b>                 |   |            |   |                                 |
| 06/01/2017                         | - | 06/08/2017 | < 1.22E-04  | < 1.74E-05                      |
| 06/08/2017                         | - | 06/15/2017 | < 1.22E-04  | < 1.75E-05                      |
| 06/15/2017                         | - | 06/22/2017 | < 1.22E-04  | < 1.75E-05                      |
| 06/22/2017                         | - | 06/29/2017 | < 1.22E-04  | < 1.75E-05                      |
| 06/29/2017                         | - | 07/06/2017 | < 1.22E-04  | < 1.73E-05                      |
| <b>Period 6 Sum: &lt; 6.10E-04</b> |   |            |   |                                 |

|   |                                       |
|---|---------------------------------------|
| <b>2nd Quarter Total: &lt; 1.59E-03</b> | <b><sup>a</sup>HDER &lt; 1.79E-05</b> |
|---|---------------------------------------|

**TA-03-0141**    **StackID: 03014101**

**Sampling dates**

**Emissions (g)**

|                                       |   |            | Weekly(1)   | Daily(2)                        |
|---------------------------------------|---|------------|---|---------------------------------|
|                                       |   |            | <i>Sum of weekly results must be &lt;3.5 g/year</i>                                       | <i>Cannot Exceed 0.35 g/day</i> |
| <b>Period #:                    7</b> |   |            |   |                                 |
| 07/06/2017                            | - | 07/13/2017 | < 1.22E-04  | < 1.75E-05                      |
| 07/13/2017                            | - | 07/20/2017 | < 1.22E-04  | < 1.75E-05                      |
| 07/20/2017                            | - | 07/27/2017 | < 1.22E-04  | < 1.75E-05                      |
| 07/27/2017                            | - | 08/03/2017 | < 1.22E-04  | < 1.72E-05                      |
|                                       |   |            | <b>Period 7 Sum: &lt; 4.88E-04</b>  |                                 |
| <b>Period #:                    8</b> |   |            |   |                                 |
| 08/03/2017                            | - | 08/10/2017 | < 1.22E-04  | < 1.78E-05                      |
| 08/10/2017                            | - | 08/17/2017 | < 1.22E-04  | < 1.75E-05                      |
| 08/17/2017                            | - | 08/24/2017 | < 1.22E-04  | < 1.75E-05                      |
| 08/24/2017                            | - | 08/31/2017 | < 1.22E-04  | < 1.75E-05                      |
|                                       |   |            | <b>Period 8 Sum: &lt; 4.88E-04</b>  |                                 |
| <b>Period #:                    9</b> |   |            |   |                                 |
| 08/31/2017                            | - | 09/07/2017 | < 1.22E-04  | < 1.74E-05                      |
| 09/07/2017                            | - | 09/14/2017 | < 1.22E-04  | < 1.75E-05                      |
| 09/14/2017                            | - | 09/21/2017 | < 1.22E-04  | < 1.74E-05                      |
| 09/21/2017                            | - | 09/28/2017 | < 1.22E-04  | < 1.75E-05                      |
| 09/28/2017                            | - | 10/05/2017 | < 1.22E-04  | < 1.73E-05                      |
|                                       |   |            | <b>Period 9 Sum: &lt; 6.10E-04</b>  |                                 |
|                                       |   |            | <b>3rd Quarter Total: &lt; 1.59E-03                    <sup>a</sup>HDER &lt; 1.78E-05</b> |                                 |