

Risk Reduction & Environmental Stewardship Division
Meteorology and Air Quality Group
P.O. Box 1663, MS J978
Los Alamos, New Mexico 87545
(505) 665-8855/FAX: (505) 665-8858

Date: May 25, 2004
Refer to: RRES-MAQ:04-152

Dr. John Volkerding
New Mexico Environment Department
Air Quality Bureau
Compliance Program Manager
2048 Galisteo St.
Santa Fe, New Mexico 87505

Mr. Vincent Vigil
New Mexico Environment Department
Air Quality Bureau
Enforcement Program Manager
2048 Galisteo Street
Santa Fe, New Mexico 87505

Gentlemen:

Attached you will find a copy of the official 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 **first quarter of calendar year 2004**. 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.

As specified in permit #634-M2, 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 largest daily emission rate during the first quarter of calendar year 2004 was $< 2.14 \times 10^{-5}$ grams which is well below the daily permit limit. The total amount of beryllium emitted for the first quarter of calendar year 2004 was $< 1.65 \times 10^{-3}$ grams, which is well below the 3.5 gram per year limit specified in the permit. Also, on the attached data sheet, you will note that the first data point for calendar year 2004 is December 24, 2003. This is due to the laboratory closure over the holidays, during which time the facility did not process material. Stack samples are not collected during this time and are allowed to remain in the sample collector for two weeks. This two-week sample is being reported as part of the first quarter 2004 emission report for this facility. Therefore, based on the attached information, LANL is in compliance with condition #2 of NMED Air Quality Permit #634-M2.

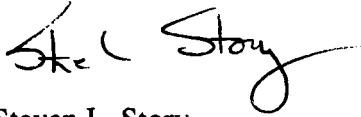
Dr. John Volkerding
Mr. Vincent Vigil
RRES-MAQ:04-152

-2-

May 25, 2004

If you have any questions or comments regarding this submittal or would like to discuss this in greater detail, please feel free to contact me at 665-2169 or Stephen Cossey at 665-8893.

Sincerely,



Steven L. Story
Meteorology & Air Quality Group

SLS:alb

Enc: a/s

Cy:

S. Fong, DOE-LA-AO, MS A316
K. Benally, DOE-LA-AO, MS A316
V. George, RRES-DO, MS J591
M. Reed, RRES-DO, MS J556
D. Stavert, RRES-EP, MS J951
J. Dewart, RRES- MAQ, MS J978
M. Stockton, RRES-MAQ, MS J978
S. Cossey, RRES-MAQ, MS J978
S. Abeln, MST-6, MS G770
K. Creek, MST-6, MS G741
P. Wardwell, LC-ESH, MS A187
RRES-MAQ Beryllium Permit #634 File
RRES-MAQ File

Beryllium Operating Group Report 2004 Stack Emissions

TA-3-141

StackID: 03014101

05/19/2004

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| Sampling dates | Emissions (g) | | Field | Comments | Analytical |
|-------------------------|---------------|------------|-------|--------------------------------------|------------|
| | Weekly(1) | Daily(2) | | | |
| Period #: 1 | | | | | |
| 12/24/2003 - 01/08/2004 | < 1.27E-04 | < 8.55E-06 | | Run time due to holiday. | |
| 01/08/2004 - 01/15/2004 | < 1.27E-04 | < 1.83E-05 | | | |
| 01/15/2004 - 01/22/2004 | < 1.27E-04 | < 1.79E-05 | | | |
| 01/22/2004 - 01/29/2004 | < 1.27E-04 | < 1.85E-05 | | | |
| Period #: 2 | | | | | |
| 01/29/2004 - 02/05/2004 | < 1.27E-04 | < 1.83E-05 | | | |
| 02/05/2004 - 02/13/2004 | < 1.27E-04 | < 1.59E-05 | | Due to LANL closure run time 8 days. | |
| 02/13/2004 - 02/19/2004 | < 1.27E-04 | < 2.14E-05 | | Due to LANL closure run time 6 days. | |
| 02/19/2004 - 02/26/2004 | < 1.27E-04 | < 1.82E-05 | | | |
| Period #: 3 | | | | | |
| 02/26/2004 - 03/04/2004 | < 1.27E-04 | < 1.83E-05 | | | |
| 03/04/2004 - 03/11/2004 | < 1.27E-04 | < 1.82E-05 | | | |
| 03/11/2004 - 03/18/2004 | < 1.27E-04 | < 1.82E-05 | | | |
| 03/18/2004 - 03/25/2004 | < 1.27E-04 | < 1.82E-05 | | | |
| 03/25/2004 - 04/01/2004 | < 1.27E-04 | < 1.82E-05 | | | |
| Period #: 4 | | | | | |
| 04/01/2004 - 04/08/2004 | < 1.27E-04 | < 1.82E-05 | | | |
| 04/08/2004 - 04/15/2004 | < 1.27E-04 | < 1.82E-05 | | | |
| 04/15/2004 - 04/22/2004 | < 1.27E-04 | < 1.82E-05 | | | |
| 04/22/2004 - 04/29/2004 | < 1.27E-04 | < 1.82E-05 | | | |
| Period #: 5 | | | | | |
| 04/29/2004 - 05/06/2004 | < 1.27E-04 | < 1.82E-05 | | | |
| 05/06/2004 - 05/13/2004 | < 1.27E-04 | < 1.82E-05 | | | |

Footnotes: Permit Terms

- (1) The sum of all weekly results must be less than 3.5 g/yr.
 (2) The daily value cannot exceed 0.35 g/day.

Beryllium Operating Group Report 2004 Stack Emissions

TA-3-141

StackID: 03014101

05/12/2004

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| Sampling dates | Emissions (g) | | Field | Comments | Analytical |
|-------------------------|---------------|-------------------|-------|--------------------------------------|--------------|
| | Weekly(1) | Daily(2) | | | |
| Period #: 1 | | | | | |
| 12/24/2003 - 01/08/2004 | < 1.27E-04 | < 8.55E-06 | | Run time due to holiday. | |
| 01/08/2004 - 01/15/2004 | < 1.27E-04 | < 1.83E-05 | | | |
| 01/15/2004 - 01/22/2004 | < 1.27E-04 | < 1.79E-05 | | | |
| 01/22/2004 - 01/29/2004 | < 1.27E-04 | < 1.85E-05 | | | |
| Period #: 2 | | | | | |
| 01/29/2004 - 02/05/2004 | < 1.27E-04 | < 1.83E-05 | | Due to LANL closure run time 8 days. | |
| 02/05/2004 - 02/13/2004 | < 1.27E-04 | < 1.59E-05 | | Due to LANL closure run time 6 days. | |
| 02/13/2004 - 02/19/2004 | < 1.27E-04 | < <u>2.14E-05</u> | | | Quarter high |
| 02/19/2004 - 02/26/2004 | < 1.27E-04 | < 1.82E-05 | | | |
| Period #: 3 | | | | | |
| 02/26/2004 - 03/04/2004 | < 1.27E-04 | < 1.83E-05 | | | |
| 03/04/2004 - 03/11/2004 | < 1.27E-04 | < 1.82E-05 | | | |
| 03/11/2004 - 03/18/2004 | < 1.27E-04 | < 1.82E-05 | | | |
| 03/18/2004 - 03/25/2004 | < 1.27E-04 | < 1.82E-05 | | | |
| 03/25/2004 - 04/01/2004 | < 1.27E-04 | < 1.82E-05 | | | |
| Period #: 4 | | | | | |
| 04/01/2004 - 04/08/2004 | < 1.27E-04 | < 1.82E-05 | | | |
| 04/08/2004 - 04/15/2004 | < 1.27E-04 | < 1.82E-05 | | | |
| 04/15/2004 - 04/22/2004 | < 1.27E-04 | < 1.82E-05 | | | |
| 04/22/2004 - 04/29/2004 | < 1.27E-04 | < 1.82E-05 | | | |
| Period #: 5 | | | | | |
| 04/29/2004 - 05/06/2004 | < 1.27E-04 | < 1.82E-05 | | | |

1st Quarter

$$1.27 \times 10^{-4} * 12 = 1.52 * 10^{-3}$$

$$1.27 \times 10^{-4} * 13 = 1.65 \times 10^{-3}$$

SAC 5/24/2004

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Beryllium Operating Group Report 2004 Stack Emissions

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| 01/22/2004 - 01/29/2004 | < 1.27E-04 | < 1.85E-05 | | | |
| Period #: 2 | | | | | |
| 01/29/2004 - 02/05/2004 | < 1.27E-04 | < 1.83E-05 | | | |
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| Period #: 3 | | | | | |
| 02/26/2004 - 03/04/2004 | < 1.27E-04 | < 1.83E-05 | | | |
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| 03/11/2004 - 03/18/2004 | < 1.27E-04 | < 1.82E-05 | | | |
| 03/18/2004 - 03/25/2004 | < 1.27E-04 | < 1.82E-05 | | | |
| 03/25/2004 - 04/01/2004 | < 1.27E-04 | < 1.82E-05 | | | |
| Period #: 4 | | | | | |
| 04/01/2004 - 04/08/2004 | < 1.27E-04 | < 1.82E-05 | | | |
| 04/08/2004 - 04/15/2004 | < 1.27E-04 | < 1.82E-05 | | | |
| 04/15/2004 - 04/22/2004 | < 1.27E-04 | < 1.82E-05 | | | |
| 04/22/2004 - 04/29/2004 | < 1.27E-04 | < 1.82E-05 | | | |
| Period #: 5 | | | | | |
| 04/29/2004 - 05/06/2004 | < 1.27E-04 | < 1.82E-05 | | | |
| 05/06/2004 - 05/13/2004 | < 1.27E-04 | < 1.82E-05 | | | |

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