



Environmental Stewardship Division
Meteorology and Air Quality Group
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Date: May 19, 2005
Refer to: ENV-MAQ:05-147

Mr. Edward Horst
Environmental Compliance Specialist, Enforcement
New Mexico Environment Department
Air Quality Bureau
2048 Galisteo St.
Santa Fe, New Mexico 87505

**IDEA ID 856 – LOS ALAMOS NATIONAL LABORATORY
FIRST QUARTER BERYLLIUM REPORT, PERMIT 634-M2**

Dear Mr. Horst:

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 2005**. 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 2005 was $< 1.85 \times 10^{-5}$ grams which is well below the daily permit limit. The total amount of beryllium emitted for the first quarter of calendar year 2005 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 2005 is December 23, 2004. 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 2005 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.

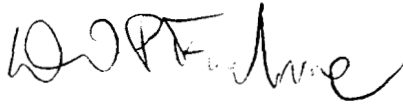
If you have any questions or comments regarding this submittal or would like to discuss this in greater detail, please feel free to contact Steve Story at 665-2169 or Stephen Cossey at 665-8893.

Mr. Edward Horst
ENV-MAQ:05-147

-2-

May 19, 2005

Sincerely,



Dave Fuehne
Meteorology & Air Quality Group

DF:alb

Enc: a/s

Cy:

S. Fong, DOE-LA-AO, MS A316
K. Hargis, ENV-DO, MS J591
D. Stavert, ENV-DO, MS J591
D. Fuehne, ENV- MAQ, MS J978
D. Wilburn, ENV-MAQ, MS J978
S. Story, ENV-MAQ, MS J978
M. Stockton, ENV-MAQ, MS J978
S. Cossey, ENV-MAQ, MS J978
S. Abeln, MST-6, MS G770
K. Creek, MST-6, MS G741
P. Wardwell, LC-ESH, MS A187
ENV-MAQ Beryllium Permit #634 Quarterly Report File
ENV-MAQ File

Beryllium Operating Group Report 2005 Stack Emissions

TA-3-141

StackID: 03014101

05/11/2005

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| Sampling dates | Emissions (g) | | Field | Comments | Analytical |
|-------------------------|---------------|------------|-------|-------------------------------|------------|
| | Weekly(1) | Daily(2) | | | |
| Period #: 1 | | | | | |
| 12/23/2004 - 01/06/2005 | < 1.27E-04 | < 9.14E-06 | | Sample period due to Holiday. | |
| 01/06/2005 - 01/13/2005 | < 1.27E-04 | < 1.81E-05 | | | |
| 01/13/2005 - 01/20/2005 | < 1.27E-04 | < 1.83E-05 | | | |
| 01/20/2005 - 01/27/2005 | < 1.27E-04 | < 1.83E-05 | | | |
| 01/27/2005 - 02/03/2005 | < 1.27E-04 | < 1.82E-05 | | | |
| Period #: 2 | | | | | |
| 02/03/2005 - 02/10/2005 | < 1.27E-04 | < 1.82E-05 | | | |
| 02/10/2005 - 02/17/2005 | < 1.27E-04 | < 1.83E-05 | | | |
| 02/17/2005 - 02/24/2005 | < 1.27E-04 | < 1.79E-05 | | | |
| 02/24/2005 - 03/03/2005 | < 1.27E-04 | < 1.85E-05 | | | |
| Period #: 3 | | | | | |
| 03/03/2005 - 03/10/2005 | < 1.27E-04 | < 1.82E-05 | | | |
| 03/10/2005 - 03/17/2005 | < 1.27E-04 | < 1.83E-05 | | | |
| 03/17/2005 - 03/24/2005 | < 1.27E-04 | < 1.82E-05 | | | |
| 03/24/2005 - 03/31/2005 | < 1.27E-04 | < 1.82E-05 | | | |
| Period #: 4 | | | | | |
| 03/31/2005 - 04/07/2005 | < 1.27E-04 | < 1.82E-05 | | | |
| 04/07/2005 - 04/14/2005 | < 1.27E-04 | < 1.81E-05 | | | |
| 04/14/2005 - 04/21/2005 | < 1.27E-04 | < 1.83E-05 | | | |
| 04/21/2005 - 04/28/2005 | < 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.