



Environmental Stewardship Division
Meteorology and Air Quality Group
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Date: August 22, 2005
Refer to: ENV-MAQ:05-244

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

**IDEA ID 856 – LOS ALAMOS NATIONAL LABORATORY
SECOND 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 **second 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 second quarter of calendar year 2005 was $< 1.83 \times 10^{-5}$ grams per 24 hours, which is well below the daily permit limit. The total amount of beryllium emitted for the second quarter of calendar year 2005 was $< 1.65 \times 10^{-3}$ grams. Additionally, the total for the first two quarters of calendar year 2005 was $< 3.30 \times 10^{-3}$ grams, which is well below the 3.5 gram per year limit specified in the permit. 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.

Sincerely,

A handwritten signature in black ink, appearing to read 'Dave Fuehne'.

Dave Fuehne
Acting Group Leader
Meteorology & Air Quality Group

Beryllium Operating Group Report 2005 Stack Emissions

TA-3-141

StackID: 03014101

08/17/2005

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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			
Period #: 5					
04/28/2005 - 05/05/2005	< 1.27E-04	< 1.82E-05			
05/05/2005 - 05/12/2005	< 1.27E-04	< 1.82E-05			
05/12/2005 - 05/19/2005	< 1.27E-04	< 1.82E-05			
05/19/2005 - 05/26/2005	< 1.27E-04	< 1.82E-05			
05/26/2005 - 06/02/2005	< 1.27E-04	< 1.82E-05			
Period #: 6					
06/02/2005 - 06/09/2005	< 1.27E-04	< 1.82E-05			
06/09/2005 - 06/16/2005	< 1.27E-04	< 1.82E-05			
06/16/2005 - 06/23/2005	< 1.27E-04	< 1.82E-05			
06/23/2005 - 06/30/2005	< 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.

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Sampling dates	Emissions (g)		Field	Comments	Analytical
	Weekly(1)	Daily(2)			
Period #: 7					
06/30/2005 - 07/07/2005	< 1.27E-04	< 1.82E-05			
07/07/2005 - 07/14/2005	< 1.27E-04	< 1.82E-05			
07/14/2005 - 07/21/2005	< 1.27E-04	< 1.82E-05			
07/21/2005 - 07/28/2005	< 1.27E-04	< 1.82E-05			

Beryllium Operating Group Report 2005 Stack Emissions

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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		Quarter high	
04/21/2005 - 04/28/2005	< 1.27E-04	< 1.82E-05			
Period #: 5					
04/28/2005 - 05/05/2005	< 1.27E-04	< 1.82E-05			
05/05/2005 - 05/12/2005	< 1.27E-04	< 1.82E-05			
05/12/2005 - 05/19/2005	< 1.27E-04	< 1.82E-05			
05/19/2005 - 05/26/2005	< 1.27E-04	< 1.82E-05			
05/26/2005 - 06/02/2005	< 1.27E-04	< 1.82E-05			
Period #: 6					
06/02/2005 - 06/09/2005	< 1.27E-04	< 1.82E-05			
06/09/2005 - 06/16/2005	< 1.27E-04	< 1.82E-05			
06/16/2005 - 06/23/2005	< 1.27E-04	< 1.82E-05			
06/23/2005 - 06/30/2005	< 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.

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

2nd quarter

Stop
8/17/05

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Sampling dates	Emissions (g)		Field	Comments	Analytical
	Weekly(1)	Daily(2)			
Period #: 7					
06/30/2005 - 07/07/2005	< 1.27E-04	< 1.82E-05			
07/07/2005 - 07/14/2005	< 1.27E-04	< 1.82E-05			
07/14/2005 - 07/21/2005	< 1.27E-04	< 1.82E-05			
07/21/2005 - 07/28/2005	< 1.27E-04	< 1.82E-05			
07/28/2005 - 08/04/2005	< 1.27E-04	< 1.80E-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.**[First](#) [Previous](#) [Next](#) [Last](#)