



*Environmental Protection Division*  
Ecology and Air Quality Group  
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Date: August 7, 2006  
Refer to: ENV-EAQ:06-218

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  
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 2006**. 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 2006 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 2006 was  $< 1.65 \times 10^{-3}$  grams. Additionally, the total for the first two quarters of calendar year 2006 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.

Mr. Edward Horst  
ENV-EAQ:06-218

-2-

August 7, 2006  
LA-UR-06-5535

Sincerely,



Dianne Wilburn  
Ecology & Air Quality Group

SGC:dj

Enc: a/s

Cy:

S. Fong, DOE-LA-AO, A316  
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P. Dunn, MST-6, G770  
S. Abeln, MST-6, G770  
K. Creek, MST-6, G741  
P. Wardwell, LC-ESH, A187  
IRM-RMSS0, A150  
ESH&Q File, K491  
ENV-EAQ Beryllium Permit #634 Quarterly Report File  
ENV-EAQ File

LA-UR- 06-5535

Approved for public release;  
distribution is unlimited.

Title: CY 2006 Second Quarter Beryllium Report

Author(s): Stephen Cossey

Submitted to: New Mexico Environmental Department



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Form 836 (8/00)

# Beryllium Operating Group Report

## 2006 Stack Emissions

TA-3-141

StackID: 03014101

07/31/2006

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Sampling dates	Emissions (g)		Comments	
	Weekly(1)	Daily(2)	Field	Analytical
<b>Period #: 1</b>				
12/22/2005 - 01/05/2006	< 1.27E-04	< 9.10E-06	Sample run two weeks due to	
01/05/2006 - 01/12/2006	< 1.27E-04	< 1.82E-05		
01/12/2006 - 01/19/2006	< 1.27E-04	< 1.82E-05		
01/19/2006 - 01/26/2006	< 1.27E-04	< 1.82E-05		
01/26/2006 - 02/02/2006	< 1.27E-04	< 1.82E-05		
<b>Period #: 2</b>				
02/02/2006 - 02/09/2006	< 1.27E-04	< 1.82E-05		
02/09/2006 - 02/16/2006	< 1.27E-04	< 1.82E-05		
02/16/2006 - 02/23/2006	< 1.27E-04	< 1.82E-05		
02/23/2006 - 03/02/2006	< 1.27E-04	< 1.81E-05		
<b>Period #: 3</b>				
03/02/2006 - 03/09/2006	< 1.27E-04	< 1.83E-05		
03/09/2006 - 03/16/2006	< 1.27E-04	< 1.83E-05		
03/16/2006 - 03/23/2006	< 1.27E-04	< 1.82E-05		
03/23/2006 - 03/30/2006	< 1.27E-04	< 1.82E-05		
<b>Period #: 4</b>				
03/30/2006 - 04/06/2006	< 1.27E-04	< 1.82E-05		
04/06/2006 - 04/13/2006	< 1.27E-04	< 1.81E-05		
04/13/2006 - 04/20/2006	< 1.27E-04	< 1.83E-05		
04/20/2006 - 04/27/2006	< 1.27E-04	< 1.82E-05		
<b>Period #: 5</b>				
04/27/2006 - 05/04/2006	< 1.27E-04	< 1.82E-05		
05/04/2006 - 05/11/2006	< 1.27E-04	< 1.82E-05		
05/11/2006 - 05/18/2006	< 1.27E-04	< 1.82E-05		
05/18/2006 - 05/25/2006	< 1.27E-04	< 1.82E-05		
05/25/2006 - 06/01/2006	< 1.27E-04	< 1.82E-05		
<b>Period #: 6</b>				
06/01/2006 - 06/08/2006	< 1.27E-04	< 1.82E-05		
06/08/2006 - 06/15/2006	< 1.27E-04	< 1.82E-05		
06/15/2006 - 06/22/2006	< 1.27E-04	< 1.82E-05		
06/22/2006 - 06/29/2006	< 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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# Beryllium Operating Group Report 2006 Stack Emissions

TA-3-141

StackID: 03014101

07/31/2006

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Sampling dates	Emissions (g)		Field	Comments	Analytical
	Weekly(1)	Daily(2)			
<b>Period #: 1</b>					
12/22/2005 - 01/05/2006	< 1.27E-04	< 9.10E-06	Sample run two weeks due to		
01/05/2006 - 01/12/2006	< 1.27E-04	< 1.82E-05			
01/12/2006 - 01/19/2006	< 1.27E-04	< 1.82E-05			
01/19/2006 - 01/26/2006	< 1.27E-04	< 1.82E-05			
01/26/2006 - 02/02/2006	< 1.27E-04	< 1.82E-05			
<b>Period #: 2</b>					
02/02/2006 - 02/09/2006	< 1.27E-04	< 1.82E-05			
02/09/2006 - 02/16/2006	< 1.27E-04	< 1.82E-05			
02/16/2006 - 02/23/2006	< 1.27E-04	< 1.82E-05			
02/23/2006 - 03/02/2006	< 1.27E-04	< 1.81E-05			
<b>Period #: 3</b>					
03/02/2006 - 03/09/2006	< 1.27E-04	< 1.83E-05			
03/09/2006 - 03/16/2006	< 1.27E-04	< 1.83E-05			
03/16/2006 - 03/23/2006	< 1.27E-04	< 1.82E-05			
03/23/2006 - 03/30/2006	< 1.27E-04	< 1.82E-05			
<b>Period #: 4</b>					
03/30/2006 - 04/06/2006	< 1.27E-04	< 1.82E-05			
04/06/2006 - 04/13/2006	< 1.27E-04	< 1.81E-05			
04/13/2006 - 04/20/2006	< 1.27E-04	< 1.83E-05		Second Quarter Daily High	
04/20/2006 - 04/27/2006	< 1.27E-04	< 1.82E-05			
<b>Period #: 5</b>					
04/27/2006 - 05/04/2006	< 1.27E-04	< 1.82E-05			
05/04/2006 - 05/11/2006	< 1.27E-04	< 1.82E-05			
05/11/2006 - 05/18/2006	< 1.27E-04	< 1.82E-05			
05/18/2006 - 05/25/2006	< 1.27E-04	< 1.82E-05			
05/25/2006 - 06/01/2006	< 1.27E-04	< 1.82E-05			
<b>Period #: 6</b>					
06/01/2006 - 06/08/2006	< 1.27E-04	< 1.82E-05			
06/08/2006 - 06/15/2006	< 1.27E-04	< 1.82E-05			
06/15/2006 - 06/22/2006	< 1.27E-04	< 1.82E-05			
06/22/2006 - 06/29/2006	< 1.27E-04	< 1.82E-05			

**Footnotes: Permit Terms**

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First Previous Next Last

$$13 * (1.27 * 10^{-4}) =$$

$1.65 * 10^{-3} \text{ g}$

Second Quarter Emission