



Environmental Protection Division
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Date: October 30, 2007
Refer to: ENV-EAQ:07-258

Ms. Debra McElroy
Manager, Compliance and Enforcement Program
New Mexico Environment Department
Air Quality Bureau
1301 Siler Road; Building B
Santa Fe, New Mexico 87507



**IDEA ID 856 – LOS ALAMOS NATIONAL LABORATORY
2007 THIRD QUARTER BERYLLIUM EMISSIONS REPORT
JULY 1– SEPTEMBER 30, 2007
AIR QUALITY PERMIT NO. 634-M2**

Dear Ms. McElroy:

Attached as Enclosure 1 you will find a copy of the 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 **third quarter of calendar year 2007**. 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 highest daily emission rate (HDER) during the third quarter of calendar year 2007 was $<2.69 \times 10^{-5}$ grams per 24 hours, which is well below the daily permit limit. The total amount of beryllium emitted for the third quarter of calendar year 2007 was $<1.64 \times 10^{-3}$ grams. Additionally, the total for the first three quarters of calendar year 2007 is $<4.86 \times 10^{-3}$ 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 Kathleen Gorman-Bates at 665-1338.

Ms. Debra McElroy
ENV-EAQ:07-258
LA-UR:07-7428

-2-

October 30, 2007

Sincerely,



Dianne Wilburn
Ecology & Air Quality Group

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ENV-EAQ Beryllium Permit #634 Quarterly Report File
ENV-EAQ File

Enclosure 1

Beryllium 2007 Stack Emissions
TA-03-0141

TA-3-141 StackID: 3014101

<u>Sampling dates</u>			<u>Emissions (g)</u>		<u>Comments</u>
			<u>Weekly(1)</u>	<u>Daily(2)</u>	
			<i>Sum of weekly results must be <3.5 g/year</i>	<i>Cannot Exceed 0.35 g/day</i>	
Period #: 1					
12/21/2006	-	01/04/2007	< 1.21E-04	< 8.69E-06	Run time due to holiday.
01/04/2007	-	01/11/2007	< 1.21E-04	< 1.72E-05	
01/11/2007	-	01/18/2007	< 1.21E-04	< 1.75E-05	
01/18/2007	-	01/25/2007	< 1.21E-04	< 1.73E-05	
01/25/2007	-	02/01/2007	< 1.21E-04	< 1.73E-05	
			Period 1 Sum: < 6.05E-04		
Period #: 2					
02/01/2007	-	02/08/2007	1.62E-04	2.31E-05	Duct work was performed during this period. HVAC maintenance.
02/08/2007	-	02/15/2007	< 1.21E-04	< 1.70E-05	
02/15/2007	-	02/22/2007	< 1.21E-04	< 1.78E-05	Snow day two hour delay.
02/22/2007	-	03/01/2007	< 1.21E-04	< 1.73E-05	
			Period 2 Sum: < 5.25E-04		
Period #: 3					
03/01/2007	-	03/08/2007	< 1.21E-04	< 1.74E-05	
03/08/2007	-	03/15/2007	1.48E-04	2.11E-05	
03/15/2007	-	03/22/2007	< 1.21E-04	< 1.73E-05	
03/22/2007	-	03/29/2007	< 1.21E-04	< 1.74E-05	
			Period 3 Sum: < 5.11E-04		
			1st Quarter Total: < 1.64E-03	HDER 2.31E-05	

* HDER = Highest Daily Emission Rate

**Beryllium 2007 Stack Emissions
TA-03-0141**

TA-3-141 StackID: 3014101

Sampling dates		Emissions (g)		Comments
		Weekly(1)	Daily(2)	
Period #: 4		<i>Sum of weekly results must be <3.5 g/year</i>	<i>Cannot Exceed 0.35 g/day</i>	
03/29/2007	- 04/05/2007	< 1.21E-04	< 1.73E-05	
04/05/2007	- 04/12/2007	< 1.21E-04	< 1.74E-05	
04/12/2007	- 04/19/2007	< 1.21E-04	< 1.73E-05	
04/19/2007	- 04/26/2007	< 1.21E-04	< 1.73E-05	
Period 4 Sum:		< 4.84E-04		
Period #: 5				
04/26/2007	- 05/03/2007	< 1.21E-04	< 1.73E-05	
05/03/2007	- 05/10/2007	< 1.21E-04	< 1.73E-05	
05/10/2007	- 05/17/2007	< 1.21E-04	< 1.72E-05	
05/17/2007	- 05/24/2007	< 1.21E-04	< 1.74E-05	
05/24/2007	- 05/31/2007	< 1.21E-04	< 1.73E-05	
Period 5 Sum:		< 6.05E-04		
Period #: 6				
05/31/2007	- 06/07/2007	< 1.21E-04	< 1.73E-05	
06/07/2007	- 06/14/2007	< 1.21E-04	< 1.73E-05	
06/14/2007	- 06/21/2007	< 1.21E-04	< 1.73E-05	
06/21/2007	- 06/28/2007	< 1.21E-04	< 1.73E-05	
Period 6 Sum:		< 4.84E-04		
2nd Quarter Total:		< 1.57E-03	HDER < 1.74E-05	

* HDER = Highest Daily Emission Rate

**Beryllium 2007 Stack Emissions
TA-03-0141**

TA-3-141 StackID: 3014101

Sampling dates		Emissions (g)		Comment
		Weekly(1)	Daily(2)	
Period #: 7		<i>Sum of weekly results must be <3.5 g/year</i>	<i>Cannot Exceed 0.35 g/day</i>	
06/28/2007	- 07/05/2007	< 1.21E-04	< 1.70E-05	
07/05/2007	- 07/12/2007	< 1.21E-04	< 1.77E-05	
07/12/2007	- 07/19/2007	< 1.21E-04	< 1.74E-05	
07/19/2007	- 07/26/2007	< 1.21E-04	< 1.73E-05	
07/26/2007	- 08/02/2007	< 1.21E-04	< 1.69E-05	
Period 7 Sum:		< 6.05E-04		
Period #: 8				
08/02/2007	- 08/09/2007	< 1.21E-04	< 1.77E-05	
08/09/2007	- 08/16/2007	< 1.21E-04	< 1.74E-05	
08/16/2007	- 08/23/2007	1.89E-04	2.69E-05	
08/23/2007	- 08/30/2007	< 1.21E-04	< 1.74E-05	
Period 8 Sum:		< 5.52E-04		
Period #: 9				
08/30/2007	- 09/06/2007	< 1.21E-04	< 1.73E-05	
09/06/2007	- 09/13/2007	< 1.21E-04	< 1.71E-05	
09/13/2007	- 09/20/2007	< 1.21E-04	< 1.74E-05	
09/20/2007	- 09/27/2007	< 1.21E-04	< 1.76E-05	
Period 9 Sum:		< 4.84E-04		
3rd Quarter Total:		< 1.64E-03 ✓	HDER < 2.69E-05 ✓	

Stop
12/26/07

*HDER = Highest Daily Emission Rate