



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

Date: April 28, 2008
Refer to: ENV-EAQ:08-105

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
2008 FIRST QUARTER BERYLLIUM EMISSIONS REPORT
JANUARY 1– MARCH 31, 2008
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 **First quarter of calendar year 2008**. 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 First quarter of calendar year 2008 was $< 1.76 \times 10^{-5}$ grams per 24 hours, which is well below the daily permit limit. The total amount of beryllium emitted for the First quarter of calendar year 2008 was $< 1.69 \times 10^{-3}$ grams. Also, on the attached data sheet, you will note that the first data point for calendar year 2008 is December 20, 2007. 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 therefore reported as part of the first quarter 2008 emission report for this facility. 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:08-105
LA-UR:08-2891

-2-

April 28, 2008

Sincerely,



Dianne Wilburn
Ecology & Air Quality Group

KGB/DW:alb

Enc: a/s

Cy:

Jan Van Prooyen, DIR, A100

Michael Mallory, PADOPS, A102

Richard Watkins, ADESH&Q, K491

IRM-RMSS0, A150

ESH&Q File, K491

S. Fong, DOE-LA-SO, A316

V. George, ENV-DO, J978

P. Dunn, MST-6, G770

S. Abeln, MST-6, G770

P. Wardwell, LC-ESH, A187

M. Gallegos, ENV-EAQ, E509

S. Story, ENV-EAQ, J978

K.Gorman-Bates, ENV-EAQ, J978

~~ENV-EAQ Records Room, Title V Beryllium Permit #634 Quarterly Reports~~

ENV-EAQ File

LA-UR-08-2891

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Title: 2008 First Quarter Beryllium Emissions Report
January 1 - March 31, 2008
Air Quality Permit No. 634-M2
Los Alamos National Laboratory

Author(s): Kathleen Gorman-Bates, ENV-EAQ

Intended for: 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



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Enclosure 1

Beryllium 2008 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					
12/20/2007	-	1/3/2008	< 1.21E-04	< 8.66E-06	Run time due to Holiday.
1/3/2008	-	1/10/2008	< 1.21E-04	< 1.73E-05	
1/10/2008	-	1/17/2008	< 1.21E-04	< 1.73E-05	
1/17/2008	-	1/24/2008	< 1.21E-04	< 1.74E-05	
1/24/2008	-	1/31/2008	< 1.21E-04	< 1.72E-05	
			Period 1 Sum: < 6.05E-04		
Period #: 2					
1/31/2008	-	2/7/2008	< 1.21E-04	< 1.74E-05	
2/7/2008	-	2/14/2008	< 1.21E-04	< 1.74E-05	
2/14/2008	-	2/21/2008	< 1.21E-04	< 1.74E-05	
2/21/2008	-	2/28/2008	< 1.21E-04	< 1.73E-05	
			Period 2 Sum: < 4.84E-04		
Period #: 3					
2/28/2008	-	3/6/2008	< 1.21E-04	< 1.70E-05	Run time due to 2 hour weather delay. Sample pump off.
3/6/2008	-	3/13/2008	< 1.21E-04	< 1.76E-05	Run time due to 2 hour delay.
3/13/2008	-	3/20/2008	< 1.21E-04	< 1.71E-05	
3/20/2008	-	3/27/2008	< 1.21E-04	< 1.73E-05	
3/27/2008	-	4/3/2008	< 1.21E-04	< 1.75E-05	
			Period 3 Sum: < 6.05E-04		
1st Quarter Total:			< 1.69E-03	11DER < 1.76E-05	

^a HDER = Highest Daily Emission Rate

Stacy
4/23/08