



Environmental Protection Division
Ecology and Air Quality Group
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(505) 665-8855/FAX: (505) 665-8858

Date: May 8, 2007
Refer to: ENV-EAQ:07-085

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

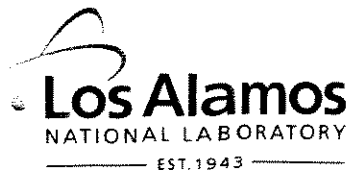
**IDEA ID 856 – Los Alamos National Laboratory
2007 First Quarter Beryllium Emissions Report
January 1– March 31, 2007
Air Quality Permit No. 634-M2
Los Alamos National Laboratory**



Dear Mr. Horst:

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 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 during the first quarter of calendar year 2007 was 2.31×10^{-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 2007 was $<1.64 \times 10^{-3}$ grams. Also, on the attached data sheet, you will note the first data point for the first quarter of 2007 is December 21, 2006. 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 2007 emission report for this facility. Based on the attached information, LANL is in compliance with condition #2 of NMED Air Quality Permit #634-M2.



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Mr. Edward Horst
ENV-EAQ:07-085
LA-UR:07-3061

-2-

May 8, 2007

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.

Sincerely,



Dianne Wilburn
Ecology & Air Quality Group

KGB/DW:alb

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

LA-UR-07-3061

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distribution is unlimited.

Title: 2007 First Quarter Beryllium Emissions Report
January 1 - March 31, 2007
Air Quality Permit No. 634-M2
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Author(s): Kathleen Gorman-Bates, ENV-EAQ

Intended for: Mr. Edward Horst
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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>
			Weekly(1)	Daily(2)	
			<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

Stacy
4/24/07