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Date: August 9, 2007
Refer to: ENV-EAQ:07-185

Ms. Debra McElroy
Manager, Compliance and Enforcement Program
New Mexico Environment Department
Air Quality Bureau
2048 Galisteo Street
Santa Fe, New Mexico 87505

**IDEA ID 856 – Los Alamos National Laboratory
2007 Second Quarter Beryllium Emissions Report
April 1– June 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 **second 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 second quarter of calendar year 2007 was $<1.74 \times 10^{-5}$ 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 2007 was $<1.57 \times 10^{-3}$ grams. Additionally, the total for the first two quarters of calendar year 2007 is $<3.21 \times 10^{-3}$ 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:07-185
LA-UR:07-5541

-2-

August 9, 2007

Sincerely,



Dianne Wilburn
Ecology & Air Quality Group

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ENV-EAQ Beryllium Permit #634 Quarterly Report File

ENV-EAQ File

LA-UR-07-5541

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Title: 2007 Second Quarter Beryllium Emissions Report
April 1 - June 30, 2007
Air Quality Permit No. 634-M2
Los Alamos National Laboratory

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

Intended for: Ms. Debra McElroy
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Enclosure 1

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

TA-3-141 StackID: 3014101

Sampling dates

Sampling dates	Emissions (g)		Comments
	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	< 1.21E-04	< 8.69E-06	Run time due to holiday.
01/04/2007	< 1.21E-04	< 1.72E-05	
01/11/2007	< 1.21E-04	< 1.75E-05	
01/18/2007	< 1.21E-04	< 1.73E-05	
01/25/2007	< 1.21E-04	< 1.73E-05	
02/01/2007	< 1.21E-04	< 1.73E-05	
Period 1 Sum:	< 6.05E-04		
Period #: 2			
02/01/2007	1.62E-04	2.31E-05	Duct work was performed during this period. HVAC maintenance.
02/08/2007	< 1.21E-04	< 1.70E-05	
02/15/2007	< 1.21E-04	< 1.78E-05	Snow day two hour delay.
02/22/2007	< 1.21E-04	< 1.73E-05	
03/01/2007	< 1.21E-04	< 1.73E-05	
Period 2 Sum:	< 5.25E-04		
Period #: 3			
03/01/2007	< 1.21E-04	< 1.74E-05	
03/08/2007	1.48E-04	2.11E-05	
03/15/2007	< 1.21E-04	< 1.73E-05	
03/22/2007	< 1.21E-04	< 1.74E-05	
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

Comments

Period #:	Sampling dates	Emissions (g)		Comments
		Weekly(1)	Daily(2)	
Period #: 4				
03/29/2007	04/05/2007	< 1.21E-04	< 1.73E-05	Sum of weekly results must be <3.5 g/year Cannot Exceed 0.35 g/day
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	Sum of weekly results must be <3.5 g/year Cannot Exceed 0.35 g/day
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	Sum of weekly results must be <3.5 g/year Cannot Exceed 0.35 g/day
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	

Handwritten signature and date: 6/17/07

* HDER = Highest Daily Emission Rate