



Environmental Protection Division
Ecology and Air Quality Group
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Date: April 21, 2010
Refer to: ENV-EAQ:10-077

Compliance Reporting Manager
New Mexico Environment Department
Air Quality Bureau
1301 Siler Road, Building B
Santa Fe, New Mexico 87507



**IDEA ID 856 – LOS ALAMOS NATIONAL LABORATORY
2010 FIRST QUARTER BERYLLIUM EMISSIONS REPORT
JANUARY 1– MARCH 31, 2010
AIR QUALITY PERMIT NO. 634-M2**

Dear Compliance Reporting Manager:

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 2010**. 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 2010 was $< 1.85 \times 10^{-5}$ 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 2010 was $< 1.65 \times 10^{-3}$ grams. Also, on the attached data sheet, you will note that the first data point for calendar year 2010 is December 23, 2009. This is due to LANL's 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 2010 emission report for this facility. Based on the attached information, LANL is in compliance with condition #2 of NMED Air Quality Permit #634-M2.

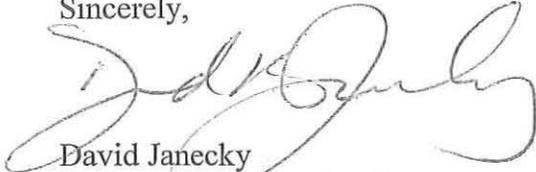
If you have any questions or comments regarding this submittal or would like to discuss this in greater detail, please feel free to contact Steve Story at 665-2169 or Kathleen Gorman-Bates at 665-1338.

Compliance Reporting Manager
ENV-EAQ:10-077
LA-UR:10-02811

-2-

April 21, 2010

Sincerely,



David Janecky
Ecology & Air Quality Group

KGB/DJ:alb

Enc: a/s

Cy:

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Michael Mallory, PADOPS, A102
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S. Fong, DOE-LA-SO, E550
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D. Teter, MST-6, G770
B. Aikin, MST-6, G741
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K.Gorman-Bates, ENV-EAQ, J978
ENV-EAQ Beryllium Permit #634 Quarterly Report File
ENV-EAQ File

LA-UR-10-02811

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Title: 2010 First Quarter Beryllium Emissions Report
January 1 - March 31, 2010
Air Quality Permit No. 634-M2
Los Alamos National Laboratory

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

Intended for: Compliance Reporting Manager
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Enclosure 1

Beryllium 2010 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>		
<u>Period #: 1</u>					
12/23/2009	-	1/7/2010	< 1.27E-04	< 8.65E-06	Run time due to holiday closure.
1/7/2010	-	1/14/2010	< 1.27E-04	< 1.81E-05	
1/14/2010	-	1/21/2010	< 1.27E-04	< 1.84E-05	
1/21/2010	-	1/28/2010	< 1.27E-04	< 1.82E-05	
1/28/2010	-	2/4/2010	< 1.27E-04	< 1.79E-05	Run time 2 hour delay start for snowy weather.
		Period 1 Sum: <	6.35E-04		
<u>Period #: 2</u>					
2/4/2010	-	2/11/2010	< 1.27E-04	< 1.85E-05	
2/11/2010	-	2/18/2010	< 1.27E-04	< 1.82E-05	
2/18/2010	-	2/25/2010	< 1.27E-04	< 1.82E-05	
2/25/2010	-	3/4/2010	< 1.27E-04	< 1.82E-05	
		Period 2 Sum: <	5.08E-04		
<u>Period #: 3</u>					
3/4/2010	-	3/11/2010	< 1.27E-04	< 1.82E-05	
3/11/2010	-	3/18/2010	< 1.27E-04	< 1.82E-05	Run time due to time change.
3/18/2010	-	3/25/2010	< 1.27E-04	< 1.82E-05	
3/25/2010	-	4/1/2010	< 1.27E-04	< 1.82E-05	
		Period 3 Sum: <	5.03E-04		
		1st Quarter Total: <	1.65E-03	^a HDER <	1.85E-05

1st Quarter Total: <	1.65E-03	^a HDER <	1.85E-05
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^aHDER = Highest Daily Emission Rate