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Meteorology and Air Quality Group
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Date: February 7, 2005
Refer to: ENV-MAQ:05-039

Compliance/Enforcement Program Manager
New Mexico Environment Department
Air Quality Bureau
2048 Galisteo Street
Santa Fe, New Mexico 87505

Subject: Fourth Quarter Beryllium Report, Permit 634-M2 (IDEA/Temp ID 856)

Dear Sir or Madam:

Attached you will find a copy of the official 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 **fourth quarter of calendar year 2004**. 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 sheets, the largest daily emission rate during the fourth quarter of calendar year 2004 was $< 2.12 \times 10^{-5}$ grams which is well below the daily permit limit. Additionally, the total amount of beryllium emitted from this source during calendar year 2004 was $< 6.48 \times 10^{-3}$ grams, which is well below the 3.5 grams per year limit specified in the permit. Also, on the attached data sheets, you will note that the final data point for calendar year 2004 is December 23, 2004. 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 will be reported as part of the 2005 emission report for this facility. Therefore, 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 Stephen Cossey at 665-8893.

Sincerely,

Ann Williams Wilburn

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Jean Dewart
Group Leader
ENV-MAQ

JD:alb

Enc: a/s

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ENV-MAQ Beryllium Permit #634 Quarterly Report File

ENV-MAQ File

Beryllium Operating Group Report 2004 Stack Emissions

TA-3-141

StackID: 03014101

01/06/2005

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Sampling dates	Emissions (g)		Field	Comments	Analytical
	Weekly(1)	Daily(2)			
Period #: 1					
12/24/2003 - 01/08/2004	< 1.27E-04	< 8.55E-06		Run time due to holiday	
01/08/2004 - 01/15/2004	< 1.27E-04	< 1.83E-05			
01/15/2004 - 01/22/2004	< 1.27E-04	< 1.79E-05			
01/22/2004 - 01/29/2004	< 1.27E-04	< 1.85E-05			
Period #: 2					
01/29/2004 - 02/05/2004	< 1.27E-04	< 1.83E-05			
02/05/2004 - 02/13/2004	< 1.27E-04	< 1.59E-05		Due to LANL closure run time 8 days.	
02/13/2004 - 02/19/2004	< 1.27E-04	< 2.14E-05		Due to LANL closure run time 6 days.	Annual high ✓
02/19/2004 - 02/26/2004	< 1.27E-04	< 1.82E-05			
Period #: 3					
02/26/2004 - 03/04/2004	< 1.27E-04	< 1.83E-05			
03/04/2004 - 03/11/2004	< 1.27E-04	< 1.82E-05			
03/11/2004 - 03/18/2004	< 1.27E-04	< 1.82E-05			
03/18/2004 - 03/25/2004	< 1.27E-04	< 1.82E-05			
03/25/2004 - 04/01/2004	< 1.27E-04	< 1.82E-05			
Period #: 4					
04/01/2004 - 04/08/2004	< 1.27E-04	< 1.82E-05			
04/08/2004 - 04/15/2004	< 1.27E-04	< 1.82E-05			
04/15/2004 - 04/22/2004	< 1.27E-04	< 1.82E-05			
04/22/2004 - 04/29/2004	< 1.27E-04	< 1.82E-05			
Period #: 5					
04/29/2004 - 05/06/2004	< 1.27E-04	< 1.82E-05			
05/06/2004 - 05/13/2004	< 1.27E-04	< 1.82E-05			
05/13/2004 - 05/20/2004	< 1.27E-04	< 1.82E-05			
05/20/2004 - 05/27/2004	< 1.27E-04	< 1.82E-05			
05/27/2004 - 06/03/2004	< 1.27E-04	< 1.82E-05			
Period #: 6					
06/03/2004 - 06/10/2004	< 1.27E-04	< 1.82E-05			
06/10/2004 - 06/17/2004	< 1.27E-04	< 1.82E-05			
06/17/2004 - 06/24/2004	< 1.27E-04	< 1.82E-05			
06/24/2004 - 07/01/2004	< 1.27E-04	< 1.82E-05			

Footnotes: Permit Terms

- (1) The sum of all weekly results must be less than 3.5 g/yr.
- (2) The daily value cannot exceed 0.35 g/day.

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01/06/2005

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Sampling dates	Emissions (g)		Field	Comments	Analytical
	Weekly(1)	Daily(2)			
Period # 7					
07/01/2004 - 07/08/2004	< 1.27E-04	< 1.82E-05			
07/08/2004 - 07/15/2004	< 1.27E-04	< 1.82E-05			
07/15/2004 - 07/22/2004	< 1.27E-04	< 1.83E-05			
07/22/2004 - 07/29/2004	< 1.27E-04	< 1.82E-05			
Period # 8					
07/29/2004 - 08/05/2004	< 1.27E-04	< 1.82E-05			
08/05/2004 - 08/12/2004	< 1.27E-04	< 1.82E-05			
08/12/2004 - 08/19/2004	< 1.27E-04	< 1.82E-05			
08/19/2004 - 08/26/2004	< 1.27E-04	< 1.82E-05			
08/26/2004 - 09/02/2004	< 1.27E-04	< 1.81E-05			
Period # 9					
09/02/2004 - 09/09/2004	< 1.27E-04	< 1.83E-05			
09/09/2004 - 09/16/2004	< 1.27E-04	< 1.83E-05			
09/16/2004 - 09/23/2004	< 1.27E-04	< 1.82E-05			
09/23/2004 - 09/30/2004	< 1.27E-04	< 1.81E-05			
Period # 10					
09/30/2004 - 10/07/2004	< 1.27E-04	< 1.82E-05			
10/07/2004 - 10/14/2004	< 1.27E-04	< 1.83E-05			
10/14/2004 - 10/21/2004	< 1.27E-04	< 1.82E-05			
10/21/2004 - 10/28/2004	< 1.27E-04	< 1.82E-05			
Period # 11					
10/28/2004 - 11/04/2004	< 1.27E-04	< 1.83E-05			
11/04/2004 - 11/10/2004	< 1.27E-04	< 2.12E-05		Shorten week due to Holiday.	
11/10/2004 - 11/18/2004	< 1.27E-04	< 1.60E-05		Sample run time due to holiday.	
11/18/2004 - 11/24/2004	< 1.27E-04	< 2.12E-05		Shorten week due to Holiday.	
11/24/2004 - 12/02/2004	< 1.27E-04	< 1.59E-05		Sample run time due to Holiday.	
Period # 12					
12/02/2004 - 12/09/2004	< 1.27E-04	< 1.83E-05			
12/09/2004 - 12/16/2004	< 1.27E-04	< 1.82E-05			
12/16/2004 - 12/23/2004	< 1.27E-04	< 1.81E-05			

Footnotes: Permit Terms

(1) The sum of all weekly results must be less than 3.5 g/yr.

(2) The daily value cannot exceed 0.35 g/day.

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Annual

$$(51)(1.27 \times 10^{-4}) = 6.48 \times 10^{-3} \text{ g/yr} \checkmark$$

Quarter

$$(12)(1.27 \times 10^{-4}) = 1.52 \times 10^{-3} \text{ g/4th} \checkmark$$

Stacy
2/3/05

Quarter high ✓