



Risk Reduction & Environmental Stewardship Division

Meteorology & Air Quality Group

PO Box 1663, MS J978

Los Alamos, New Mexico 87545

(505) 665-8855/Fax: (505) 665-8858

Date: July 29, 2004

Refer to: RRES-MAQ:04-249

Dr. John Volkerding
New Mexico Environment Department
Air Quality Bureau
Compliance/Enforcement Program Manager
2048 Galisteo St.
Santa Fe, New Mexico 87505

Dr. Volkerding:

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 **second 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 sheet, the largest daily emission rate during the second quarter of calendar year 2004 was $< 1.82 \times 10^{-5}$ grams which are well below the daily permit limit. The total amount of beryllium emitted for the second quarter of calendar year 2004 was $< 1.65 \times 10^{-3}$ grams. Additionally, the total for the first two quarters of calendar year 2004 was $< 3.30 \times 10^{-3}$, 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 Stephen Cossey at 665-8893.

Sincerely,

A handwritten signature in black ink, appearing to read 'Beverly A. Ramsey'.

Beverly A. Ramsey

Division Leader

Risk Reduction & Environmental Stewardship

Dr. John Volkerding
RRES-MAQ:04-249

-2-

July 29, 2004

BAR:alb

Enc: a/s

Cy:

S. Fong, DOE-LA-AO, MS A316
K. Benally, DOE-LA-AO, MS A316
V. George, RRES-DO, MS J591
M. Reed, RRES-DO, MS J556
D. Stavert, RRES-EP, MS J951
J. Dewart, RRES- MAQ, MS J978
S. Story, RRES-MAQ, MS J978
M. Stockton, RRES-MAQ, MS J978
S. Cossey, RRES-MAQ, MS J978
S. Abeln, MST-6, MS G770
K. Creek, MST-6, MS G741
P. Wardwell, LC-ESH, MS A187
RRES-MAQ Beryllium Permit #634 File
RRES-MAQ File

Beryllium Operating Group Report

2004 Stack Emissions

TA-3-141

StackID: 03014101

07/13/2004

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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.	
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.

Beryllium Operating Group Report 2004 Stack Emissions

TA-3-141

StackID: 03014101

07/13/2004

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Sampling dates	Emissions (g)		Field	Comments	Analytical
	Weekly(1)	Daily(2)			
Period #: 1					
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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.	
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			

High through first two quarters, also, first quarter high
 $1.27 \times 10^{-4} \times 13 = 1.65 \times 10^{-3}$

High in the second quarter is
 1.82×10^{-5}

Second quarter total
 $1.27 \times 10^{-4} \times 13 = 1.65 \times 10^{-3}$

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.

Total through first two quarters
 $1.65 \times 10^{-3} \times 2 = 3.30 \times 10^{-3}$

*Stacy
7/20/04*