



Environmental Protection Division
Ecology and Air Quality Group
P.O. Box 1663, MS J978
Los Alamos, New Mexico 87545
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Date: January 27, 2010
Refer to: ENV-EAQ:10-021

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
2009 FOURTH QUARTER BERYLLIUM EMISSIONS REPORT
OCTOBER 1– DECEMBER 31, 2009
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 **fourth quarter of calendar year 2009**. 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 fourth quarter of calendar year 2009 was $< 2.14 \times 10^{-5}$ grams per 24 hours, which is well below the daily permit limit. The total amount of beryllium emitted for the fourth quarter of calendar year 2009 was $< 1.52 \times 10^{-3}$ grams. Additionally, the total for the first four quarters of calendar year 2009 was $< 6.48 \times 10^{-3}$ grams, which is well below the 3.5 gram per year limit specified in the permit. Also, on the attached data sheet, you will note that the last data point for calendar year 2009 is December 23, 2009. 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 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.

Sincerely,



David Janecky
Ecology & Air Quality Group

KGB/DJ:alb

Enc: a/s

Cy:

Isaac Richardson, DIR, A100
Michael Mallory, PADOPS, A102
J. Chris Cantwell, ADESH&Q, K491
IRM-RMSS0, A150
ESH&Q File, K491
S. Fong, DOE-LA-SO, E550
D. Hjeresen, ENV-DO, K404
D. Teter, MST-6, G770
B. Aikin, MST-6, G741
T. Morrison, STO-DO, G770
P. Wardwell, LC-LESH, A187
M. Gallegos, ENV-EAQ, E509
S. Story, ENV-EAQ, J978
K.Gorman-Bates, ENV-EAQ, J978
ENV-EAQ Beryllium Permit #634 Quarterly Report File
ENV-EAQ File

Enclosure 1

Beryllium 2009 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>	
<u>Period #: 1</u>				
12/24/2008	- 1/8/2009	< 1.27E-04	< 8.58E-06	Date of change-out due to weather conditions & holiday closure
1/8/2009	- 1/15/2009	< 1.27E-04	< 1.82E-05	
1/15/2009	- 1/22/2009	< 1.27E-04	< 1.82E-05	
1/22/2009	- 1/29/2009	< 1.27E-04	< 1.82E-05	
Period 1 Sum: <		5.08E-04		
<u>Period #: 2</u>				
1/29/2009	- 2/5/2009	< 1.27E-04	< 1.82E-05	
2/5/2009	- 2/12/2009	< 1.27E-04	< 1.81E-05	
2/12/2009	- 2/19/2009	< 1.27E-04	< 1.83E-05	
2/19/2009	- 2/26/2009	< 1.27E-04	< 1.82E-05	
Period 2 Sum: <		5.08E-04		
<u>Period #: 3</u>				
2/26/2009	- 3/5/2009	< 1.27E-04	< 1.83E-05	
3/5/2009	- 3/12/2009	< 1.27E-04	< 1.82E-05	
3/12/2009	- 3/19/2009	< 1.27E-04	< 1.82E-05	
3/19/2009	- 3/26/2009	< 1.27E-04	< 1.80E-05	
3/26/2009	- 4/2/2009	< 1.27E-04	< 1.84E-05	
Period 3 Sum: <		6.35E-04		
1st Quarter Total: <		1.65E-03	HDER < 1.84E-05	

^a HDER = Highest Daily Emission Rate

Beryllium 2009 Stack Emissions
TA-03-0141

TA-3-141 StackID: 3014101

Sampling dates		Emissions (g)		Comments
Period #: 4				
4/2/2009	-	4/9/2009	< 1.27E-04	< 1.82E-05
4/9/2009	-	4/16/2009	< 1.27E-04	< 1.82E-05
4/16/2009	-	4/23/2009	< 1.27E-04	< 1.82E-05
4/23/2009	-	4/30/2009	< 1.27E-04	< 1.81E-05
Period 4 Sum: <			5.08E-04	
Period #: 5				
4/30/2009	-	5/7/2009	< 1.27E-04	< 1.81E-05
5/7/2009	-	5/14/2009	< 1.27E-04	< 1.84E-05
5/14/2009	-	5/21/2009	< 1.27E-04	< 1.82E-05
5/21/2009	-	5/28/2009	< 1.27E-04	< 1.82E-05
5/28/2009	-	6/4/2009	< 1.27E-04	< 1.82E-05
Period 5 Sum: <			6.35E-04	
Period #: 6				
6/4/2009	-	6/11/2009	< 1.27E-04	< 1.82E-05
6/11/2009	-	6/18/2009	< 1.27E-04	< 1.82E-05
6/18/2009	-	6/25/2009	< 1.27E-04	< 1.82E-05
6/25/2009	-	7/2/2009	< 1.27E-04	< 1.82E-05
Period 6 Sum: <			5.08E-04	
2nd Quarter Total: < 1.65E-03 HDER < 1.84E-05				

^a HDER = Highest Daily Emission Rate

Beryllium 2009 Stack Emissions
TA-03-0141

TA-3-141 StackID: 3014101

Sampling dates		Emissions (g)		Comments
Period #: 7				
7/2/2009	-	7/9/2009	< 1.27E-04	< 1.82E-05
7/9/2009	-	7/16/2009	< 1.27E-04	< 1.81E-05
7/16/2009	-	7/23/2009	< 1.27E-04	< 1.83E-05
7/23/2009	-	7/30/2009	< 1.27E-04	< 1.82E-05
Period 7 Sum: <			5.08E-04	
Period #: 8				
7/30/2009	-	8/6/2009	< 1.27E-04	< 1.82E-05
8/6/2009	-	8/13/2009	< 1.27E-04	< 1.82E-05
8/13/2009	-	8/20/2009	< 1.27E-04	< 1.82E-05
8/20/2009	-	8/27/2009	< 1.27E-04	< 1.82E-05
8/27/2009	-	9/3/2009	< 1.27E-04	< 1.82E-05
Period 8 Sum: <			6.35E-04	
Period #: 9				
9/3/2009	-	9/10/2009	< 1.27E-04	< 1.82E-05
9/10/2009	-	9/17/2009	< 1.27E-04	< 1.82E-05
9/17/2009	-	9/24/2009	< 1.27E-04	< 1.82E-05
9/24/2009	-	10/1/2009	< 1.27E-04	< 1.82E-05
Period 9 Sum: <			5.08E-04	
3rd Quarter Total: <			1.65E-03	HDER < 1.83E-05

^a HDER = Highest Daily Emission Rate

Beryllium 2009 Stack Emissions
TA-03-0141

TA-3-141 StackID: 3014101

Sampling dates		Emissions (g)		Comments	
Period #: 10					
10/1/2009	-	10/8/2009	< 1.27E-04	< 1.82E-05	
10/8/2009	-	10/15/2009	< 1.27E-04	< 1.82E-05	
10/15/2009	-	10/22/2009	< 1.27E-04	< 1.81E-05	
10/22/2009	-	10/29/2009	< 1.27E-04	< 1.81E-05	
Period 10 Sum: <			5.08E-04		
Period #: 11					
10/29/2009	-	11/5/2009	< 1.27E-04	< 1.83E-05	
11/5/2009	-	11/12/2009	< 1.27E-04	< 1.82E-05	
11/12/2009	-	11/19/2009	< 1.27E-04	< 1.80E-05	2 hours down time after change-out.
11/19/2009	-	11/25/2009	< 1.27E-04	< 2.14E-05	Run time due to holiday.
11/25/2009	-	12/3/2009	< 1.27E-04	< 1.59E-05	Run time due to Holiday.
Period 11 Sum: <			6.35E-04		
Period #: 12					
12/3/2009	-	12/10/2009	< 1.27E-04	< 1.83E-05	
12/10/2009	-	12/17/2009	< 1.27E-04	< 1.82E-05	
12/17/2009	-	12/23/2009	< 1.27E-04	< 2.04E-05	Run time due to weather.
Period 12 Sum: <			3.81E-04		
4th Quarter Total: <			1.52E-03	HDER <	2.14E-05
Sum of four quarters: <			6.48E-03		

^a HDER = Highest Daily Emission Rate



**New Mexico Environment Department
Air Quality Bureau
Compliance and Enforcement Section
1301 Siler Road Building B
Santa Fe, NM 87507
Phone (505) 476-4300 Fax (505) 476-4375**



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REPORTING SUBMITTAL FORM

NMED USE ONLY	
Staff	
Admin	

PLEASE NOTE: ® - Indicates required field

SECTION I - GENERAL COMPANY AND FACILITY INFORMATION									
A. ® Company Name: Los Alamos National Laboratory					D. ® Facility Name: Los Alamos National Laboratory				
B.1 ® Company Address: P. O. Box 1663 MS J978					E.1 ® Facility Address: Same as Company				
B.2 ® City: Los Alamos		B.3 ® State: NM	B.4 ® Zip: 87545		E.2 ® City:		E.3 ® State:	E.4 ® Zip:	
C.1 ® Company Environmental Contact: David Janecky			C.2 ® Title: Group Leader, EAQ		F.1 ® Facility Contact: Steve Story		F.2 ® Title: Team Leader, Compliance		
C.3 ® Phone Number: (505) 665-0253		C.4 ® Fax Number: (505) 665-8858			F.3 ® Phone Number: (505) 665-2169		F.4 ® Fax Number: (505) 665-8858		
C.5 ® Email Address: janecky@lanl.gov					F.5 ® Email Address: story@lanl.gov				
G. Responsible Official: (Title V only): J. Chris Cantwell			H. Title: Associate Director, ESH&Q		I. Phone Number: (505) 606-2354		J. Fax Number: (505) 665-3811		
K. ® AI Number: 856		L. Title V Permit Number: P100R1		M. Title V Permit Issue Date: 08/07/2009		N. NSR Permit Number: 634-M2		O. NSR Permit Issue Date: 10/30/1998	
P. Reporting Period: From: 10/1/2009 To: 12/31/2009				OR	Q. Proposed Test Date: N/A		OR	R. Actual Test Date: N/A	

SECTION II - TYPE OF SUBMITTAL (check one that applies)				
A. <input type="checkbox"/>	Title V Annual Compliance Certification	Permit Condition(s):	Description:	
B. <input type="checkbox"/>	Title V Semi-annual Monitoring Report	Permit Condition(s):	Description:	
C. <input type="checkbox"/>	NSPS Requirement (40CFR60)	Regulation:	Section(s):	Description:
D. <input type="checkbox"/>	MACT Requirement (40CFR63)	Regulation:	Section(s):	Description:
E. <input type="checkbox"/>	NMAC Requirement (20.2.xx) or NESHAP Requirement (40CFR61)	Regulation:	Section(s):	Description:
F. <input checked="" type="checkbox"/>	Permit or Notice of Intent (NOI) Requirement	Permit No. <input checked="" type="checkbox"/> : or NOI No. <input type="checkbox"/> : 634-M2	Condition(s): 5.f	Description: Report beryllium emissions data by the continuous air monitor 60 days after Qtr.
G. <input type="checkbox"/>	Requirement of an Enforcement Action	NOV No. <input type="checkbox"/> : or SFO No. <input type="checkbox"/> : or CD No. <input type="checkbox"/> : or Other <input type="checkbox"/> :	Section(s):	Description:

SECTION III - PERIODIC EMISSIONS TEST NOTIFICATIONS, TEST PROTOCOLS AND TEST REPORTS (if applicable)					
T. <input type="checkbox"/>	A. Test Report <input type="checkbox"/> CMT: _____	B. Test Protocol <input type="checkbox"/>	C. Notification <input type="checkbox"/> CMT: _____	Description: (Emission Units to be Tested)	
	D. Initial Compliance Test (EPA Methods) <input type="checkbox"/>	E. Periodic Test (EPA Methods) <input type="checkbox"/>	F. RATA Test <input type="checkbox"/>	G. Opacity Test <input type="checkbox"/>	H. Portable Analyzer (Periodic Test) <input type="checkbox"/>

SECTION IV - CERTIFICATION			
After reasonable inquiry, I <u>David R. Janecky</u> certify that the information in this submittal is true, accurate and complete. <small>(name of reporting official)</small>			
® Signature of Reporting Official: 	® Title: Group Leader, EAQ	® Date: 1/22/2010	® Responsible Official for Title V? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Reviewed By: _____

Date Reviewed: _____