

LA-UR-07-0628

Approved for public release;
distribution is unlimited.

Title: 2006 Fourth Quarter Beryllium Emissions Report
October 1 - December 31, 2006
Air Quality Permit No. 634-M2
Los Alamos National Laboratory

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

Intended for: Mr. Edward Horst
Manager, Enforcement
New Mexico Environment Department
Air Quality Bureau
2048 Galisteo Street
Santa Fe, New Mexico 87505



Los Alamos National Laboratory, an affirmative action/equal opportunity employer, is operated by the Los Alamos National Security, LLC for the National Nuclear Security Administration of the U.S. Department of Energy under contract DE-AC52-06NA25396. By acceptance of this article, the publisher recognizes that the U.S. Government retains a nonexclusive, royalty-free license to publish or reproduce the published form of this contribution, or to allow others to do so, for U.S. Government purposes. Los Alamos National Laboratory requests that the publisher identify this article as work performed under the auspices of the U.S. Department of Energy. Los Alamos National Laboratory strongly supports academic freedom and a researcher's right to publish; as an institution, however, the Laboratory does not endorse the viewpoint of a publication or guarantee its technical correctness.

Enclosure 1

Beryllium 2006 Stack Emissions
TA-03-0141

TA-3-141 **StackID: 3014101**
Sampling dates

		Emissions (g)	
		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		
12/22/2005	-	< 1.27E-04	< 9.10E-06
01/05/2006	-	< 1.27E-04	< 1.82E-05
01/12/2006	-	< 1.27E-04	< 1.82E-05
01/19/2006	-	< 1.27E-04	< 1.82E-05
01/26/2006	-	< 1.27E-04	< 1.82E-05
02/02/2006	-	< 1.27E-04	< 1.82E-05
Period 1 Sum: < 6.35E-04			
Period #:	2		
02/02/2006	-	< 1.27E-04	< 1.82E-05
02/09/2006	-	< 1.27E-04	< 1.82E-05
02/16/2006	-	< 1.27E-04	< 1.82E-05
02/23/2006	-	< 1.27E-04	< 1.81E-05
Period 2 Sum: < 5.08E-04			
Period #:	3		
03/02/2006	-	< 1.27E-04	< 1.83E-05
03/09/2006	-	< 1.27E-04	< 1.83E-05
03/16/2006	-	< 1.27E-04	< 1.82E-05
03/23/2006	-	< 1.27E-04	< 1.82E-05
Period 3 Sum: < 5.08E-04			

1st Quarter Total: < 1.65E-03	HDER^a < 1.83E-05
---	---------------------------------------

^a HDER = Highest Daily Emission Rate

Beryllium 2006 Stack Emissions
TA-03-0141

TA-3-141 StackID: 3014101

Sampling dates

			Emissions (g)	
			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 #:	4			
03/30/2006	-	04/06/2006	< 1.27E-04	< 1.82E-05
04/06/2006	-	04/13/2006	< 1.27E-04	< 1.81E-05
04/13/2006	-	04/20/2006	< 1.27E-04	< 1.83E-05
04/20/2006	-	04/27/2006	< 1.27E-04	< 1.82E-05
Period 4 Sum: <			5.08E-04	
Period #:	5			
04/27/2006	-	05/04/2006	< 1.27E-04	< 1.82E-05
05/04/2006	-	05/11/2006	< 1.27E-04	< 1.82E-05
05/11/2006	-	05/18/2006	< 1.27E-04	< 1.82E-05
05/18/2006	-	05/25/2006	< 1.27E-04	< 1.82E-05
05/25/2006	-	06/01/2006	< 1.27E-04	< 1.82E-05
Period 5 Sum: <			6.35E-04	
Period #:	6			
06/01/2006	-	06/08/2006	< 1.27E-04	< 1.82E-05
06/08/2006	-	06/15/2006	< 1.27E-04	< 1.82E-05
06/15/2006	-	06/22/2006	< 1.27E-04	< 1.82E-05
06/22/2006	-	06/29/2006	< 1.27E-04	< 1.82E-05
Period 6 Sum: <			5.08E-04	
2nd Quarter Total: <			1.65E-03	HDER < 1.83E-05

^a HDER = Highest Daily Emission Rate

Beryllium 2006 Stack Emissions
TA-03-0141

TA-3-141 StackID: 3014101

Sampling dates		Emissions (g)	
		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 #:	7		
06/29/2006 -	07/06/2006	< 1.27E-04	< 1.82E-05
07/06/2006 -	07/13/2006	< 1.27E-04	< 1.82E-05
07/13/2006 -	07/20/2006	< 1.27E-04	< 1.82E-05
07/20/2006 -	07/27/2006	< 1.27E-04	< 1.82E-05
07/27/2006 -	08/03/2006	< 1.27E-04	< 1.80E-05
Period 7 Sum: <		6.35E-04	
Period #:	8		
08/03/2006 -	08/10/2006	< 1.27E-04	< 1.84E-05
08/10/2006 -	08/17/2006	< 1.27E-04	< 1.82E-05
08/17/2006 -	08/24/2006	< 1.27E-04	< 1.82E-05
08/24/2006 -	08/31/2006	< 1.27E-04	< 1.82E-05
Period 8 Sum: <		5.08E-04	
Period #:	9		
08/31/2006 -	09/07/2006	< 1.27E-04	< 1.82E-05
09/07/2006 -	09/14/2006	< 1.27E-04	< 1.78E-05
09/14/2006 -	09/21/2006	< 1.27E-04	< 1.87E-05
09/21/2006 -	09/28/2006	< 1.27E-04	< 1.82E-05
Period 9 Sum: <		5.08E-04	
3rd Quarter Total: <		1.65E-03	HDER < 1.87E-05

^a HDER = Highest Daily Emission Rate

Beryllium 2006 Stack Emissions
TA-03-0141

TA-3-141 StackID: 3014101

Sampling dates

			Emissions (g)		
			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 #:	10				
09/28/2006	-	10/05/2006	< 1.27E-04	< 1.82E-05	
10/05/2006	-	10/12/2006	< 1.27E-04	< 1.82E-05	
10/12/2006	-	10/19/2006	< 1.27E-04	< 1.82E-05	
10/19/2006	-	10/26/2006	< 1.27E-04	< 1.82E-05	
10/26/2006	-	11/02/2006	< 1.27E-04	< 1.82E-05	
Period 10 Sum:			< 6.35E-04		
Period #:	11				
11/02/2006	-	11/09/2006	< 1.21E-04	< 1.73E-05	
11/09/2006	-	11/16/2006	< 1.21E-04	< 1.73E-05	
11/16/2006	-	11/22/2006	< 1.21E-04	< 2.02E-05	Run time due to holiday.
11/22/2006	-	11/30/2006	< 1.21E-04	< 1.52E-05	Run time due to holiday.
Period 11 Sum:			< 4.84E-04		
Period #:	12				
11/30/2006	-	12/07/2006	< 1.21E-04	< 1.73E-05	
12/07/2006	-	12/14/2006	< 1.21E-04	< 1.72E-05	
12/14/2006	-	12/21/2006	< 1.21E-04	< 1.73E-05	Run time due to two hour delay
Period 12 Sum:			< 3.63E-04		

4th Quarter Total:	< 1.48E-03	HDER	< 2.02E-05
---------------------------	----------------------	-------------	----------------------

Sum of four quarters:	< 6.44E-03
------------------------------	----------------------

^a HDER = Highest Daily Emission Rate

01/24/2007

Signature
1/24/07