



## Department of Energy

Washington, DC 20585

February 4, 2004

The Honorable John T. Conway  
Chairman  
Defense Nuclear Facilities Safety Board  
625 Indiana Avenue, NW  
Washington, D.C. 20004-2941

Dear Mr. Chairman:

The Secretary of Energy, in his July 11, 2003, letter to you on High Efficiency Particulate Air (HEPA) filter testing, committed the Office of Environment, Safety and Health (EH) to publish a semiannual report on Filter Test Facility (FTF) data. Enclosed is the first report published by EH; it includes FTF data for fiscal year (FY) 2003. Future reports will be published semiannually and provided to the Board staff.

Questions concerning this report may be directed to Chip Lagdon at (301) 903-4218 or me at (301) 903-8008.

Sincerely,

A handwritten signature in black ink, appearing to read "Frank B. Russo".

Frank B. Russo  
Deputy Assistant Secretary  
Office of Corporate Performance Assessment

Enclosure

cc: Beverly Cook, EH-1  
Mark Whitaker, DR-1  
Chip Lagdon, EH-31  
Roger Zavadoski, DNFSB



**Table 1**  
**Results of Filter Inspection and Tests**  
**October 1, 2002 - March 31, 2003**

Customer	Manufacturer	Flow	Flow High/Low	Number Tested	Number Accepted	Number Rejected	Reason for Rejection					Rejection Rate
							Resistance	Penetration	Manufacturing Defects	Does not meet PO and/or Spec	Shipping damage	
Argonne National Laboratory-East	Supplier A	1500	H	2	2	0						
	Supplier A	1000	H	1	1	0						
	Supplier A	1000	H	1	1	0						
	Supplier A	1000	H	25	23	2			2			8.0%
	Supplier A	1000	H	75	75	0						
	Supplier A	1000	H	97	88	9			9			9.3%
	Supplier A	500	H	50	48	2		2				4.0%
Supplier A	125	L	1	1	0							
Battelle NW	Supplier A	1000	H	50	49	1			1			2.0%
Bechtel BWXT Idaho, LLC.(BBWI)	Supplier A	1000	H	1	1	0						
	Supplier A	1000	H	6	6	0						
	Supplier A	1000	H	40	39	1		1				2.5%
	Supplier A	1000	H	10	10	0						
	Supplier A	35	L	6	6	0						
	Supplier A	35	L	6	4	2		2				33.3%
Supplier A	35	L	4	4	0							
Bechtel BWXT Y-12	Supplier B	1500	H	50	50	0						
	Supplier B	1000	H	6	6	0						
	Supplier B	470	H	6	6	0						
	Supplier B	50	L	10	10	0						
Bechtel Nevada	Supplier A	80	L	12	12	0						
	Supplier A	50	L	3	3	0						
Brookhaven National Laboratory	Supplier A	1000	H	5	5	0						
Fluor Hanford	Supplier A	1000	H	6	6	0						
	Supplier A	1000	H	12	12	0						
	Supplier A	1000	H	30	27	3			3			10.0%
	Supplier A	1000	H	35	34	1		1				2.9%
	Supplier A	1000	H	35	35	0						
	Supplier A	1000	H	11	11	0						
	Supplier A	1000	H	6	6	0						
	Supplier A	1000	H	24	24	0						
	Supplier A	1000	H	25	25	0						
	Supplier A	1000	H	4	4	0						
Supplier A	125	L	2	2	0							
Supplier A	125	L	4	4	0							
Supplier A	35	L	99	95	4			4			4.0%	
Supplier A	35	L	2	2	0							

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Customer	Manufacturer	Flow	Flow High/Low	Number Tested	Number Accepted	Number Rejected	Reason for Rejection					Rejection Rate
							Resistance	Penetration	Manufacturing Defects	Does not meet PO and/or Spec	Shipping damage	
	Supplier A	350	H	6	6	0						
	Supplier A	250	L	2	2	0						
Lawrence Livermore National Lab.	Supplier A	1000	H	57	55	2		2				3.5%
	Supplier A	1000	H	2	2	0						
	Supplier A	1000	H	3	3	0						
	Supplier B	1000	H	2	1	1			1			50.0%
	Supplier B	135	L	3	3	0						
Los Alamos National Laboratory	Supplier A	1500	H	10	10	0						
	Supplier A	1000	H	10	10	0						
	Supplier A	1000	H	7	7	0						
Nuclear Filter Technology Inc.	Supplier A	1000	H	2	2	0						
UT Battelle	Supplier B	1500	H	50	50	0						
	Supplier B	1500	H	30	29	1			1			3.3%
	Supplier A	1000	H	3	3	0						
	Supplier A	1000	H	4	4	0						
	Supplier B	1000	H	10	10	0						
	Supplier A	1000	H	2	2	0						
	Supplier B	1000	H	58	58	0						
	Supplier A	335	H	1	1	0						
	Supplier B	125	L	2	2	0						
	Supplier B	125	L	13	13	0						
	Supplier A	50	L	6	6	0						
	Supplier A	50	L	2	2	0						
	Supplier A	50	L	2	2	0						
West Valley Nuclear Services	Supplier B	1500	H	10	10	0						
	Supplier A	1000	H	1	1	0						
	<b>TOTAL</b>			<b>1060</b>	<b>1031</b>	<b>29</b>	<b>0</b>	<b>8</b>	<b>21</b>	<b>0</b>	<b>0</b>	<b>2.7%</b>
<b>NOTE: Filters rejected on visual inspection are not subjected to flow resistance or penetration tests.</b>												

**Table 2**  
**Results of Filter Inspection and Tests**  
**April 1, 2003 - September 30, 2003**

Customer	Manufacturer	Flow	Flow High/Low	Number Tested	Number Accepted	Number Rejected	Reason for Rejection				Rejection Rate	
							Resistance	Penetration	Manufacturing Defects	Does not meet PO and/or Spec		Shipping damage
AEA Technology	Supplier A	1000	H	3	0	3				3		<b>100.0%</b>
Argonne National Laboratory-East	Supplier A	1000	H	97	90	7			6	1		<b>7.2%</b>
	Supplier A	1000	H	2	2	0						
	Supplier A	1000	H	9	9	0						
	Supplier A	1000	H	7	7	0						
	Supplier A	500	H	2	2	0						
	Supplier B	25	L	10	10	0						
Battelle NW	Supplier A	1500	H	50	48	2			1	1		<b>4.0%</b>
	Supplier A	1500	H	2	1	1			1			<b>50.0%</b>
	Supplier A	1500	H	1	1	0						
Bechtel BWXT Idaho, LLC.(BBWI)	Supplier A	1000	H	1	1	0						
	Supplier A	1000	H	5	5	0						
	Supplier A	1000	H	6	6	0						
	Supplier A	1000	H	10	10	0						
	Supplier A	1000	H	24	24	0						
	Supplier A	1000	H	18	18	0						
	Supplier A	35	L	1	1	0						
	Supplier A	35	L	3	3	0						
	Supplier A	35	L	4	4	0						
	Supplier A	35	L	2	2	0						
Bechtel BWXT Y-12	Supplier B	470	H	2	0	2		2				<b>100.0%</b>
	Supplier B	150	L	10	10	0						
Bechtel Nevada	Supplier A	20	L	2	2	0						
	Supplier C	5	L	7	7	0						
	Supplier C	5	L	5	5	0						
	Supplier C	5	L	10	10	0						
	Supplier C	5	L	2	2	0						
Bechtel Jacobs Y-12	Supplier A	250	L	6	2	4				4		<b>66.7%</b>
	Supplier A	250	L	4	4	0						
Boeing	Supplier A	1000	H	12	11	1			1			<b>8.3%</b>
	Supplier A	1000	H	1	1	0						
Brookhaven National Laboratory	Supplier A	1000	H	2	2	0						
	Supplier A	1000	H	5	3	2				2		<b>40.0%</b>
	Supplier A	1000	H	2	2	0						

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							Resistance	Penetration	Manufacturing Defects	Does not meet PO and/or Spec	Shipping damage	
CH2M Hill Hanford	Supplier A	1000	H	10	10	0						
Fluor Hanford	Supplier A	1500	H	30	30	0						
	Supplier A	1500	H	9	9	0						
	Supplier A	1000	H	250	213	37		1	36			14.8%
	Supplier A	1000	H	1	1	0						
	Supplier A	1000	H	3	3	0						
	Supplier A	1000	H	25	25	0						
	Supplier A	1000	H	37	35	2		1	1			5.4%
	Supplier A	1000	H	2	1	1		1				50.0%
	Supplier A	1000	H	8	8	0						
	Supplier A	455	H	2	2	0						
	Supplier A	750	H	4	4	0						
	Supplier A	500	H	4	4	0						
	Supplier A	500	H	2	2	0						
	Supplier A	250	L	2	2	0						
	Supplier A	125	L	2	2	0						
	Supplier A	125	L	5	5	0						
	Supplier A	50	L	4	4	0						
Kaiser-Hill Company LLC	Supplier A	1500	H	24	24	0						
	Supplier B	1500	H	12	12	0						
	Supplier A	1500	H	28	28	0						
	Supplier A	1500	H	281	277	4			3	1		
	Supplier A	125	L	100	96	4		1	3			4.0%
	Supplier A	55	L	100	100	0						
Lawrence Livermore National Lab.	Supplier B	1000	H	6	6	0						
	Supplier B	1000	H	22	19	3		1		2		13.6%
	Supplier B	1000	H	3	3	0						
	Supplier A	1000	H	8	8	0						
	Supplier A	1000	H	8	8	0						
	Supplier A	375	L	3	3	0						
	Supplier B	135	L	1	1	0						
	Supplier A	125	L	3	3	0						
Los Alamos National Laboratory	Supplier D	1500	H	6	4	2		1	1			33.3%
	Supplier A	1000	H	11	11	0						
	Supplier B	1000	H	22	22	0						
	Supplier A	1000	H	8	8	0						
	Supplier A	530	H	6	0	6				6		100.0%
	Supplier A	530	H	6	6	0						
	Supplier A	530	H	4	4	0						
	Supplier B	125	L	18	13	5			5			27.8%

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							Resistance	Penetration	Manufacturing Defects	Does not meet PO and/or Spec	Shipping damage	
UT Battelle	Supplier B	1500	H	1	1	0						
Washington TRU Solutions	Supplier A	350	H	4	1	3					3	75.0%
	Supplier A	350	H	3	3	0						
West Valley Nuclear Services	Supplier D	1000	H	36	36	0						
	Supplier A	1000	H	4	2	2			2			50.0%
	Supplier A	1000	H	2	2	0						
Westinghouse Savannah River Company	Supplier A	1500	H	4	4	0						
	Supplier A	1500	H	10	10	0						
	Supplier A	1500	H	11	11	0						
	Supplier A	1000	H	4	4	0						
	Supplier A	1000	H	6	6	0						
	Supplier A	1000	H	2	2	0						
	Supplier A	1000	H	5	2	3		3				60.0%
	Supplier A	1000	H	2	1	1		1				50.0%
	Supplier A	1000	H	1	0	1		1				100.0%
	Supplier A	1000	H	18	15	3		3				16.7%
	Supplier A	1000	H	8	8	0						
	Supplier A	1000	H	25	16	9			5	4		36.0%
	Supplier A	455	H	2	0	2		2				100.0%
	Supplier A	350	H	6	6	0						
	Supplier A	350	H	1	1	0						
	Supplier A	50	L	3	3	0						
		<b>TOTAL</b>		<b>1565</b>	<b>1455</b>	<b>110</b>	<b>0</b>	<b>18</b>	<b>65</b>	<b>24</b>	<b>3</b>	<b>7.0%</b>

**NOTE: Filters rejected on visual inspection are not subjected to flow resistance or penetration tests.**