Department of Energy

Washington, DC 20585

May 26, 2004

Mr. Roger Zavadoski
Defense Nuclear Facilities Safety Board
625 Indiana Avenue, NW, Suite 700
Washington, D.C. 20004-2941

Dear Mr. Zavadoski:

The Secretary of Energy, in his July 11, 2003 letter to the Defense Nuclear Facilities Safety Board (DNFSB) 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. This is the second report published by EH and includes FTF data for the first six months of FY 2004. The attached Table provides the results of filter inspections and tests performed at the FTF for the period October 1, 2003 through March 31, 2004.

The report indicates that the HEPA filter failures continue at a rate consistent with previous years. I also visited the FTF in February to observe testing. During that visit, a supplier repaired 36 defective HEPAs at FTF preventing delays in deliveries to DOE sites. Questions concerning this report may be directed to me at (301) 903-4218 or Chip.Lagdon@eh.doe.gov.

Sincerely,

Richard H. Lagdon, Jr.
Director
Office of Quality Assurance Programs

Attachment

cc: Mark B. Whitaker, DR-1
Frank B. Russo, EH-3

Department of Energy

Washington, DC 20585

June 9, 2004

MEMORANDUM FOR: EVERET H. BECKNER, NA-1
JESSIE HILL ROBERSON, EM-1
RAYMOND L. ORBACH, SC-1
WILLIAM D. MAGWOOD, NE-1
DAVID K. GARMAN, EE-1
MARK R. MADDOX, FE-1

FROM: FRANK B. RUSSO
DEPUTY ASSISTANT SECRETARY
OFFICE OF CORPORATE PERFORMANCE ASSESSMENT

SUBJECT: REPORT ON FILTER TEST FACILITY DATA FOR FIRST SIX MONTHS OF FY 2004

The Secretary of Energy, in his July 11, 2003, letter to the Defense Nuclear Facilities Safety Board (DNFSB) 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. This is the second report published by EH and includes FTF data for the first six months of FY 2004. The attached Table provides the results of filter inspections and tests performed at the FTF for the period October 1, 2003, through March 31, 2004.

The data indicates that the failure rate for filters (6.5 percent) continues at approximately the same rate as previous years. One hundred twenty or 5.5 percent of the total number of filters inspected were rejected due to shipping damage, manufacturing defects and/or not meeting customer specifications. The consolidated testing and inspection at FTF reduced receipt and inspection problems at the various sites because the vendor repaired a lot of 36 defective filters at the test facility. Guidance is provided in DOE-HDBK-1169-2003, *Nuclear Air Cleaning Handbook* to assist in identifying defects during receiving inspections. The test data indicate that continued independent testing and receipt inspections are necessary for HEPA filters used in DOE nuclear facilities.

If you have questions regarding the semiannual FTF data, please contact me or Richard H. Lagdon, Office of Quality Assurance Programs (EH-31) at (301) 903-4218.

Attachment

cc:
Mark B.Whitaker, DR-1
James J. Mangeno, NA-1
Xavier Ascanio, NA-124
Rabindra N. Singh, NA-124
Paul M. Golan, EM-3
Patricia M. Bubar, EM-20
Larry D. Vaughan, EM-5
Milton D. Johnson, SC-1
Gary T. Staffo, EE-3C
Craig D. Zamuda, FE-7
Richard H. Lagdon, EH-31

Table 1
Results of Filter Inspection and Tests
October 1, 2003 - March 31, 2004

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	
Bechtel BWXT Idaho, LLC.(BBWI)	Supplier A	1000	H	8	7	1			1			12.5%
	Supplier A	1000	H	40	36	4			3		1	10.0%
	Supplier A	1000	H	1	1	0						
	Supplier A	1000	H	111	111	0						
	Supplier A	100	L	2	2	0						
	Supplier A	35	L	6	6	0						
Bechtel BWXT Y-12	Supplier B	1500	H	4	3	1			1			25.0%
	Supplier B	1500	H	2	1	1				1		50.0%
	Supplier B	1000	H	1	0	1			1			100.0%
	Supplier A	1000	H	11	11	0						
	Supplier A	250	L	6	4	2			2			33.3%
	Supplier A	250	L	2	2	0						
*	Supplier A	100	L	24	12	12		2		10		50.0%
*	Supplier A	50	L	4	4	0						
AEA Technology	Supplier A	1000	H	2	1	1				1		50.0%
	Supplier A	1000	H	1	1	0						
Bechtel Jacobs X-10	Supplier A	1000	H	12	12	0						
	Supplier A	1000	H	6	6	0						
Duratek Federal Services X10	Supplier A	1000	H	1	0	1			1			100.0%
	Supplier B	1000	H	5	5	0						
	Supplier B	125		1	1	0						
Foster Wheeler	Supplier C	2200	H	2	2	0						
*	Supplier C	2200	H	48	44	4		4				8.3%
*	Supplier C	2200	H	48	40	8		1		7		16.7%
*	Supplier C	2200	H	48	45	3				3		6.3%
	Supplier C	2200	H	5	5	0						
	Supplier C	2200	H	15	13	2			2			13.3%
UT Battelle	Supplier B	50	L	3	3	0						
	Supplier A	35	L	1	1	0						
BWXT Pantex, LLC	Supplier A	1000	H	8	7	1		1				12.5%
CH2M Hill Hanford	Supplier A	1500	H	20	20	0						
	Supplier A	1000	H	6	6	0						
	Supplier A	1000	H	6	6	0						
	Supplier A	1000	H	6	4	2		1		1		33.3%
	Supplier A	500	H	12	11	1		1				8.3%

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							Resistance	Penetration	Manufacturing Defects	Does not meet PO and/or Spec	Shipping damage	
CH2M Hill Hanford	Supplier A	500	H	1	0	1				1		100.0%
	Supplier A	500	H	1	1	0						
	Supplier A	500	H	5	5	0						
	Supplier A	250	L	1	1	0						
	Supplier A	250	L	6	6	0						
	Supplier A	200	L	5	5	0						
	Supplier A	200	L	20	20	0						
	Supplier A	200	L	24	24	0						
	Supplier A	200	L	2	2	0						
Fluor Hanford	Supplier A	1500	H	4	4	0						
	Supplier A	1000	H	4	4	0						
	Supplier A	1000	H	9	9	0						
	Supplier A	250	L	6	6	0						
	Supplier A	125	L	5	5	0						
	Supplier A	125	L	4	4	0						
	Supplier A	50	L	8	8	0						
Kaiser-Hill Company LLC	Supplier A	1500	H	4	4	0						
	Supplier A	1500	H	16	16	0						
	Supplier A	1500	H	14	14	0						
	Supplier A	1500	H	90	88	2				2		2.2%
	Supplier A	1500	H	12	12	0						
	Supplier A	1500	H	2	2	0						
	Supplier A	1000	H	6	6	0						
Lawrence Livermore National Lab.	Supplier B	1500	H	1	1	0						
	Supplier B	1500	H	5	3	2			2			40.0%
	Supplier B	1500	H	2	1	1			1			50.0%
	Supplier A	1000	H	18	18	0						
	Supplier A	1000	H	4	4	0						
	Supplier A	1000	H	6	5	1		1				16.7%
	Supplier B	1000	H	65	63	2					2	3.1%
	Supplier B	1000	H	2	2	0						
	Supplier A	1000	H	30	30	0						
	Supplier A	1000	H	45	45	0						
	Supplier A	1000	H	1	1	0						
	Supplier A	105	H	3	3	0						
Los Alamos National Laboratory	Supplier D	1500	H	3	3	0						
	Supplier D	1500	H	1	1	0						
	Supplier B	1500	H	1	1	0						
	Supplier A	1250	H	6	6	0						
	Supplier A	1000	H	100	97	3				3		3.0%

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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	
Los Alamos National Laboratory	Supplier A	1000	H	3	3	0						
	Supplier A	1000	H	100	92	8			8			8.0%
	Supplier A	1000	H	100	98	2			2			2.0%
	Supplier A	1000	H	10	10	0						
	Supplier A	1000	H	30	30	0						
	Supplier A	350	H	2	2	0						
	Supplier A	250	L	2	2	0						
	Supplier A	250	L	2	2	0						
	Supplier A	205	L	1	1	0						
	Supplier A	160	L	1	1	0						
	Supplier A	50	L	20	20	0						
	Supplier A	50	L	20	20	0						
	Supplier A	35	L	20	20	0						
	Supplier A	35	L	20	20	0						
	Supplier A	35	L	20	20	0						
KSL Shaw Los Alamos National Laboratory	Supplier A	160	L	1	1	0						
Washington TRU Solutions	Supplier A	350	H	4	4	0						
West Valley Nuclear Services	**Supplier D	1500	H	12	12	0						
Westinghouse Savannah River Company	Supplier A	1500	H	94	83	11			11			11.7%
	Supplier A	1500	H	51	49	2				2		3.9%
	Supplier A	1500	H	22	21	1			1			4.5%
	Supplier A	1500	H	10	9	1					1	10.0%
	Supplier A	1500	H	20	19	1			1			5.0%
	Supplier A	1500	H	9	9	0						
	Supplier A	1500	H	28	27	1			1			3.6%
	Supplier A	1500	H	146	135	11		1	5	5		7.5%
	Supplier A	1500	H	24	24	0						
	Supplier A	1500	H	14	14	0						
	Supplier A	1500	H	6	6	0						
	Supplier A	1500	H	2	2	0						
	Supplier A	1500	H	2	2	0						
	Supplier A	1500	H	36	0	36				36		100.0%
	Supplier A	1500	H	36	36	0						
	Supplier A	1250	H	4	4	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	
Westinghouse Savannah River Company	Supplier A	1250	H	10	10	0						
	Supplier A	1250	H	4	4	0						
	Supplier A	1250	H	4	4	0						
	Supplier A	1000	H	5	5	0						
	Supplier A	1000	H	13	13	0						
	Supplier A	1000	H	20	19	1		1				5.0%
	Supplier A	1000	H	10	10	0						
	Supplier A	1000	H	20	17	3		3				15.0%
	Supplier A	1000	H	60	59	1				1		1.7%
	Supplier A	455	H	3	3	0						
	Supplier A	455	H	3	2	1		1				33.3%
	Supplier A	250	L	4	4	0						
	Supplier A	250	L	1	1	0						
	Supplier A	125	L	4	4	0						
	Supplier A	125	L	8	8	0						
**	Supplier A	65	L	2	2	0						
	Supplier A	65	L	2	2	0						
	Supplier A	50	L	2	2	0						
	Supplier A	50	L	24	23	1		1				4.2%
	Supplier A	50	L	1	1	0						
	Supplier A	40	L	15	15	0						
	Supplier A	35	L	3	3	0						
	Supplier A	35	L	11	11	0						
	Supplier A	35	L	1	1	0						
	Supplier A	35	L	2	2	0						
	Supplier A	35	L	2	2	0						
	Supplier A	35	L	4	4	0						
	Supplier A	25	L	4	4	0						
	Supplier A	25	L	18	15	3		3				16.7%
	Supplier A	25	L	3	3	0						
	Supplier A	25	L	3	3	0						
	Supplier A	25	L	4	4	0						
	Supplier A	25	L	2	2	0						
	Supplier A	15	L	2	2	0						
	Supplier A	15	L	4	4	0						
	Supplier A	15	L	6	6	0						
			TOTAL	**2176**		**141**	**0**	**21**	**43**	**73**	**4**	**6.5%**

*Filters received directly from Customer, boxes opened and filters previously handled. The rejection rate is not reflective of the manufacturer.
** Filters accepted with waiver from purchase order requirements I.e. labeling requirements and was not for performance requirements.