

Nuclear Fuel Services, Inc. ERWIN, TENNESSEE 37650

70-143

(615) 743-914

'83 MAY 16 P3:43

PDR  
Return  
to 3965

May 13, 1983

U.S. Nuclear Regulatory Commission  
Region II  
101 Marietta Street, Suite 3100  
Atlanta, GA 30303

Attention: Mr. J. P. O'Reilly  
Regional Administrator

Reference: Docket 70-143; SNM-124

Gentlemen:

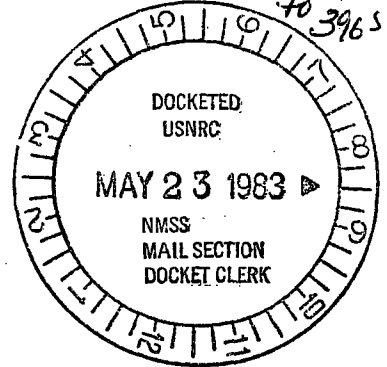
In accordance with Condition 61, Amendment No. 6 and Condition 67, Amendment No. 9 of SNM-124, this report is submitted on the airborne radioactivity concentrations released from plant stacks for the month of April, 1983.

The attachments list the concentrations from the major stacks. Bldg. 233 continued to be ventilated via the new ventilation system and main stack throughout the month. Two process lines from Bldg. 302/303 were ventilated into the new system on April 16, 1983 and April 23, 1983 respectively. The old 302/303 system continued to operate throughout the month as well. As Attachment I indicates, both stacks operated below the reporting limit the entire month.

Attachment II lists the concentrations for Bldg. 111. Both stacks operated below the reporting limit throughout the month.

Attachment III lists the concentrations for the Bldg. 302 [redacted] stack. The concentrations for this stack were in excess of the reporting limit for 25 days during the month. The system was shut down and completely disassembled. A HEPA filter on the vacuum cleaning system was found to have a hole and was replaced. Piping to the venturi scrubber was found to be blocked and was cleaned. The scrubber pump impeller and housing were found to be damaged and were replaced. The scrubber solution filtering system was changed to provide a larger filter for more surface area.

Attachment IV lists the concentrations for the Bldg. 130 stack. For six days during the month, the concentration exceeded the reporting limit. The cause was undetermined; however, the building processes were shut down at that time, and plans are to disassemble and inspect the scrubber system prior to startup of the facility to determine and correct the problem.



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LIC. FEE REPORT

22284  
INFORMATION CATEGORY  
UNCLASSIFIED X  
CLASSIFIED \_\_\_\_\_

8306030283 830513  
PDR ADOCK 07000143  
C PDR

**FEE EXEMPT**  
info only


*J. G. Gunn*  
REVIEWED BY DATE  
5/13/83

MAY 20 1983

J. P. O'Reilly  
Page 2  
May 13, 1983

All other stacks were below the Condition 61 reporting limit for the month of April.

Very truly yours,

  
F. K. Guinn,  
Plant Manager

FKG:tlw

Attachments

cc: R. G. Page, Chief  
Uranium Fuel Licensing Branch  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

ATTACHMENT I

DAILY SUMMARY OF STACK MONITORING

UNITS:  $\mu\text{Ci}/\text{m}^3 \times 10^{-12}$

COMBINED TWO SAMPLER RESULTS

<u>Collection Date</u>	<u>Building 233 (302/303)</u>		<u>Building 302/303</u>	
	<u>Daily Average</u>	<u>7-Day Average</u>	<u>Daily Average</u>	<u>7-Day Average</u>
04/01/83	5	4	11	18
04/02/83	2	3	71	24
04/03/83	1	2	32	26
04/04/83	2	2	18	26
04/05/83	3	3	5	24
04/06/83	3	3	9	22
04/07/83	0	2	18	23
04/08/83	2	2	21	25
04/09/83	0	2	6	16
04/10/83	1	2	8	12
04/11/83	2	2	6	10
04/12/83	0.45	1	9	11
04/13/83	0.37	1	14	12
04/14/83	1	1	13	11
04/15/83	3	1	6	9
04/16/83	3	2	8	9
04/17/83	6	2	21	11
04/18/83	1	2	7	11
04/19/83	1	2	16	12
04/20/83	2	2	4	11
04/21/83	0	2	2	9
04/22/83	6	3	17	11
04/23/83	0.49	2	9	11
04/24/83	1	2	3	8
04/25/83	0.05	2	19	10
04/26/83	0.22	1	3	8
04/27/83	1	1	7	9
04/28/83	0.28	1	4	9
04/29/83	0	0.45	5	7
04/30/83	4	1	18	8

ATTACHMENT II

DAILY SUMMARY OF STACK MONITORING

UNITS:  $\mu\text{Ci/ml} \times 10^{-12}$

Building 111

Sample Collection Date	Main Scrubber #287		[REDACTED] #278	
	Daily Average	7-Day Average	Daily Average	7-Day Average
04/01/83	4	13	0.25	1
04/02/83	24	13	1	1
04/03/83	7	9	0.22	0.40
04/04/83	8	9	0.33	0.40
04/05/83	6	10	1	1
04/06/83	10	9	1	1
04/07/83	20	11	3	1
04/08/83	10	12	11	2
04/09/83	12	10	2	3
04/10/83	1	10	2	3
04/11/83	9	10	0.44	3
04/12/83	11	11	1	3
04/13/83	17	12	1	3
04/14/83	10	10	1	3
04/15/83	14	11	1	1
04/16/83	8	10	1	1
04/17/83	12	12	1	1
04/18/83	5	11	1	1
04/19/83	4	10	1	1
04/20/83	3	8	1	1
04/21/83	2	7	1	1
04/22/83	7	6	1	1
04/23/83	7	6	0.30	1
04/24/83	6	5	0.28	1
04/25/83	12	6	1	1
04/26/83	6	6	1	1
04/27/83	5	6	1	1
04/28/83	5	7	0.47	1
04/29/83	6	7	1	1
04/30/83	14	8	0.31	1

Data listed are U-234 Concentrations.

ATTACHMENT III

DAILY SUMMARY OF STACK MONITORING

UNITS  $\mu\text{Ci/ml} \times 10^{-12}$

BUILDING 302 XXXXXXXXXX

<u>Sample Collection Date</u>	<u>Daily Average</u>	<u>7-Day Average</u>
04/01/83	84	220
04/02/83	40	224
04/03/83	8	223
04/04/83	21	188
04/05/83	272	113
04/06/83	156	179
04/07/83	102	98
04/08/83	99	100
04/09/83	50	101
04/10/83	36	105
04/11/83	547	180
04/12/83	155	164
04/13/83	855	263
04/14/83	1097	406
04/15/83	778	503
04/16/83	44	502
04/17/83	292	538
04/18/83	115	476
04/19/83	230	487
04/20/83	373	418
04/21/83	94	275
04/22/83	327	211
04/23/83	14	207
04/24/83	12	166
04/25/83	25	154
04/26/83	52	128
04/27/83	25	78
04/28/83	10	66
04/29/83	8	21
04/30/83	43	25

ATTACHMENT IV  
 DAILY SUMMARY OF STACK MONITORING  
 UNITS:  $\mu\text{Ci/ml} \times 10^{-12}$   
 BUILDING 130

<u>Sample Collection Date</u>	<u>Daily Average</u>	<u>7-Day Average</u>
04/01/83	8	9
04/02/83	25	10
04/03/83	1	9
04/04/83	7	9
04/05/83	3	8
04/06/83	3	8
04/07/83	1	7
04/08/83	2	6
04/09/83	3	3
04/10/83	0.37	3
04/11/83	2	2
04/12/83	4	2
04/13/83	197	30
04/14/83	519	104
04/15/83	19	106
04/16/83	14	108
04/17/83	12	110
04/18/83	15	111
04/19/83	6	112
04/20/83	14	86
04/21/83	8	12
04/22/83	14	12
04/23/83	1	10
04/24/83	3	9
04/25/83	0	7
04/26/83	1	6
04/27/83	1	4
04/28/83	1	3
04/29/83	1	1
04/30/83	2	1