

Nuclear Fuel Services, Inc. ERWIN, TENNESSEE 37650

70-143

(615) 743-914

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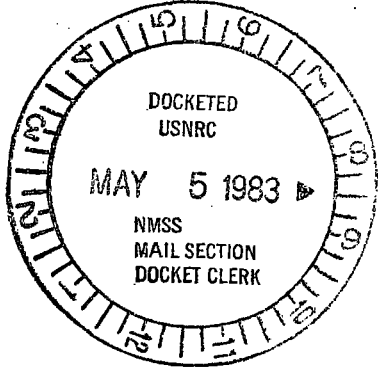
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April 14, 1983

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 March, 1983.

The attachments list the concentrations from the major stacks. Building 233 stack was in excess of the reporting limit for the first three days of the month. The Building 233 stack was shut down on March 12, 1983. The new process ventilation system for Building 233 was started up on March 25, 1983. Attachment I lists the concentrations for both the old and new process stacks.

Attachment III lists the concentrations for the Building 302 [redacted] stack. The concentrations for this stack were in excess of the reporting limit for nine days during the month. Higher than normal temperatures have resulted in damage to the stack sampling equipment. The recirculating scrubber water pump was changed out on April 13, 1983 in an effort to reduce the stack discharge temperature. On two occasions, the support brackets for the sampling probe failed causing the probe to rest against the inside of the stack. These problems were corrected the same day they were discovered.

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

Very truly yours,

*R. Booth*  
for C. Manser, Jr.,  
General Manager

**FEE EXEMPT**

*info*

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WCM:tlw

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

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INFORMATION CATEGORY

UNCLASSIFIED   
CLASSIFIED

*R. Booth*  
REVIEWED BY DATE 4/14/83

ATTACHMENT I  
 DAILY SUMMARY OF STACK MONITORING  
 UNITS:  $\mu\text{Ci}/\text{ml} \times 10^{-12}$   
 COMBINED TWO SAMPLER RESULTS

<u>Collection Date</u>	<u>Building 233</u>		<u>Building 302/303</u>	
	<u>Daily Average</u>	<u>7-Day Average</u>	<u>Daily Average</u>	<u>7-Day Average</u>
03/01/83	29	240	26	32
03/02/83	15	240	49	36
03/03/83	14	240	137	52
03/04/83	17	25	43	54
03/05/83	23	18	36	53
03/06/83	58	24	23	53
03/07/83	28	26	31	49
03/08/83	196	50	54	53
03/09/83	24	51	40	52
03/10/83	18	52	29	37
03/11/83	13	51	20	33
03/12/83			35	33
03/13/83			22	33
03/14/83			29	33
03/15/83			29	29
03/16/83			36	29
03/17/83	See note below.		39	30
03/18/83			25	31
03/19/83			46	32
03/20/83			54	37
03/21/83			61	41
03/22/83			15	39
03/23/83			16	37
03/24/83	2		17	33
03/25/83	4		35	35
03/26/83	8		32	33
03/27/83	6		18	28
03/28/83	1		19	22
03/29/83	1		15	22
03/30/83	3	4	24	23
03/31/83	2	4	10	22

Note: Building 233 Ventilation System was shut down on 3/12/83. New system started up on 3/25/83.

ATTACHMENT II

DAILY SUMMARY OF STACK MONITORING

UNITS:  $\mu\text{Ci/ml} \times 10^{-12}$   
Building 111

<u>Sample Collection Date</u>	<u>Main Scrubber #287</u>		<u>[REDACTED] #278</u>	
	<u>Daily Average</u>	<u>7-Day Average</u>	<u>Daily Average</u>	<u>7-Day Average</u>
03/01/83	5	7	1	1
03/02/83	7	7	1	1
03/03/83	8	7	1	1
03/04/83	10	8	1	1
03/05/83	5	8	1	1
03/06/83	6	7	2	1
03/07/83	8	7	1	1
03/08/83	11	8	1	1
03/09/83	8	8	1	1
03/10/83	8	8	3	1
03/11/83	9	8	2	1
03/12/83	5	8	2	2
03/13/83	5	8	2	2
03/14/83	9	8	3	2
03/15/83	8	7	4	2
03/16/83	13	8	4	3
03/17/83	8	8	4	3
03/18/83	8	8	1	3
03/19/83	8	8	1	3
03/20/83	11	9	1	2
03/21/83	14	10	2	2
03/22/83	7	10	2	2
03/23/83	6	9	2	2
03/24/83	6	9	2	1
03/25/83	7	9	8	2
03/26/83	21	10	2	2
03/27/83	32	13	1	2
03/28/83	8	12	1	2
03/29/83	5	12	1	2
03/30/83	15	13	0	2
03/31/83	3	13	1	2

Data listed are U-234 Concentrations.

ATTACHMENT III

DAILY SUMMARY OF STACK MONITORING

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

BUILDING 302 XXXXXXXXXX

<u>Sample Collection Date</u>	<u>Daily Average</u>	<u>7-Day Average</u>
03/01/83	15	18
03/02/83	10	19
03/03/83	24	22
03/04/83	23	24
03/05/83	38	23
03/06/83	11	21
03/07/83	9	19
03/08/83	20	19
03/09/83	8	19
03/10/83	8	17
03/11/83	9	15
03/12/83	11	11
03/13/83	10	11
03/14/83	18	12
03/15/83	62	18
03/16/83	70	27
03/17/83	51	33
03/18/83	33	37
03/19/83	143	55
03/20/83	296	96
03/21/83	54	102
03/22/83	31	97
03/23/83	362	139
03/24/83	34	136
03/25/83	33	136
03/26/83	12	117
03/27/83	13	76
03/28/83	266	107
03/29/83	794	216
03/30/83	48	171
03/31/83	318	212

ATTACHMENT IV

DAILY SUMMARY OF STACK MONITORING

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

BUILDING 130

<u>Sample Collection Date</u>	<u>Daily Average</u>	<u>7-Day Average</u>
03/01/83	7	7
03/02/83	3	6
03/03/83	21	9
03/04/83	8	9
03/05/83	8	9
03/06/83	79	19
03/07/83	55	26
03/08/83	19	27
03/09/83	7	28
03/10/83	5	26
03/11/83	4	25
03/12/83	7	25
03/13/83	10	15
03/14/83	6	8
03/15/83	8	7
03/16/83	10	7
03/17/83	6	7
03/18/83	6	8
03/19/83	18	9
03/20/83	8	9
03/21/83	6	9
03/22/83	9	9
03/23/83	6	8
03/24/83	9	9
03/25/83	7	9
03/26/83	20	9
03/27/83	11	10
03/28/83	10	10
03/29/83	6	10
03/30/83	3	9
03/31/83	7	9