TORY OPERATIONS

## Nuclear Fuel Services, Inc. ERWIN TENNESSEE 37650

A Subsidiary of Getty Oil Company

December 9, 1980

(615) 743-91

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

Attention: Mr. J. P. O'Reilly

Director

Reference:

(1) Docket 70-143, SNM-124 OCKET CLERK (2) Letter dated August 7, 1980, J. P. Stohr (NRG)

to W. C. Manser, Jr. (NFS)

(3) Letter dated October 30, 1980, W. C. Manser, Jr. (NFS) to J. P. O'Reilly (NRC)

JAN 0 7 1981 s

NMSS

(4) Letter dated November 7, 1980, W. C. Manser, Jr. (NFS) to J. P. O'Reilly (NRC)

(5) Letter received November 24, 1980, J. P. O'Reilly (NRC) to W. C. Manser, Jr. (NFS)

## Gentlemen:

As required by Reference 2 above and in accordance with Condition 61, Amendment No. 6, SNM-124, we hereby report the status of investigative and/or corrective actions taken on the main process stacks of Buildings 302/303 and 233; also, updates the daily air concentrations from each stack are included as Attachments I and II.

Building 302/303 corrective actions taken or planned since the previous report of November 7 (Reference 4) are as follows:

(1) A damper was installed in the stainless steel ductwork from the



The demister pad in the (2)

scrubber was replaced.

(3) Sections of PVC ductwork were re-glued to increase the vacuum in the ventilation system and to decrease crystalline build-up.

(4) Design of a new box is presently underway.

Attachment I is an update of the <u>Building 302/303</u> daily stack monitoring results since the previous report. The process was shut down November 11 through November 20. During this time period the stack air activity decreased significantly; the 7-day average fell below the License Condition No. 61 reporting limits on November 16. Since the restart on November 21, the stack concentrations have risen, but on only two occasions has the daily activity exceeded 1 x 10<sup>-10</sup> μCi/ml. The 7-day average activity-remained slightly below the License Condition No. 61 action point through December 1.



The following actions have been taken or are planned for the near future in Building 233:

- (1) A filter was installed in the scrubber solution recirculating line to reduce nozzle plugging.
- (2) Selective in-duct sampling has been initiated to aid in identifying the process area contributing the largest concentration of radioactivity to the stack effluent.
- (3) During the next inventory shut-down (approximately December 11) a new damper will be installed in the orifice plate.
- (4) The necessary steps to meet the corrective actions discussed in Reference 5 have been initiated.
- (5) Improved sampling system as previously reported.

Attachment II is an update of the Building 233 daily stack monitoring results since the previous report of October 30 (Reference 3). The data indicate that the corrective actions taken thus far are lowering the concentrations released. Our investigation is continuing.

We will keep you informed of our progress and the results of further corrective action in both process areas.

Yours very truly,

W. C. Manser, Jr

General Manager

WCM/pts

cc: Mr. R. G. Page, Acting Chief Uranium Fuel Licensing Branch Washington, D. C.

> U. S. Nuclear Regulatory Commission c/o Document Management Branch Washington, D. C. 20555

ATTACHMENT II

Summary of Building 233 Scrubber Stack Monitoring

(Alpha Radioactivity -  $\mu$ Ci/ml x  $10^{-12}$ )

Date (or week ending	Sample Filter	Sample <u>Impinge</u>	r 7-Day Ave	rage
10/24 10/25	10,173 5,388	166 (1)	1,747 2,505	
10/26	4,721	(i)	3,167	
10/27	1,239	29	3,337	
10/28	444	16	3,391	
10/29	1,046	. 312	3,434	
10/30	840	80	3,493	
10/31 11/1	378 413	42 10	2,076	
11/2	311	25	1,367 741	
11/3	7	7	562	
11/4	1,442	36	707	
11/5	2,828	70	927	
11/6	285	91	849	
11/7	161	28	816	
11/8	79	8	768	
11/9	4	11	722	
11/10 11/11	15 125	5 64	723 539	
11/12	28	21	132	
11/13	70	28	92	
- 11/14	10	19	. 70	
11/15	108	20	75	
11/16	78	18	87	
11/17	188	55	119	
11/18	315	7	138	
11/19 11/20	331 80	10 10	180 178	
11/21	73	14	187	
11/22	47	12	177	
11/23	1	12	165	
11/24	127 -	12	150	
11/25	- 61	10	114	
11/26	60	14	76	
11/27	42	13	71	
11/28 11/29	17 34	79 71	72 79	
11/30	30	105	.96	_
12/1	17	31	83	-
			of sampling probes and	l lines.

## ATTACHMENT I

## Summary of Building 302/3 Stack Monitoring (Combined Two-Sampler Results)

Units: (µCi/ml x 10<sup>-12</sup>)

Sample	Membrane Filters		Impingers		<u>Total</u>	
Collection Date	Daily Average	7-Day Average	Daily <u>Average</u>	7-Day <u>Average</u>	Daily <u>Average</u>	7-Day Average
11/5/80 11/6/80 11/7/80 11/9/80 11/9/80 11/10/80 11/11/80 11/12/80 11/13/80 11/14/80 11/15/80 11/16/80 11/17/80 11/19/80 11/19/80 11/20/80 11/20/80 11/23/80 11/24/80 11/25/80 11/26/80 11/27/80	169 80 124 81 203 109 127 89 96 81 6 13 17 10 4 2 3 22 48 20 19 69 149	205 202 187 165 165 153 128 116 119 112 102 75 61 45 32 19 8 10 15 16 17 26 47	13 7 8 9 34 11 13 8 28 9 11 22 3 5 16 2 3 7 31 15 31	10 11 12 11 13 14 13 16 16 16 15 13 10 9 8 10 11 15	182 87 132 90 237 120 140 97 124 90 17 35 20 15 20 4 6 29 79 35 50 82	215 213 199 176 178 166 142 129 135 128 118 90 74 57 45 29 17 18 25 27 32 41 67
11/28/80 11/29/80 11/30/80 12/1/80	53 50 153 84	54 58 73 82	43 12 5 11 €	20 22 21 19 17	192 65 55 164 90	76 79 92 99