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 GRIDLEY, R. Tennessee Valley Authority
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SUBJECT: Forwards addl info re inoperable radioactive effluent instruments & updates corrective action program.

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 TITLE: 50.36a(a)(2) Semiannual Effluent Release Reports

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MAY 23 1988

U.S. Nuclear Regulatory Commission
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Gentlemen:

In the Matter of)	Docket Nos. 50-259
Tennessee Valley Authority)	50-260
		50-296

BROWNS FERRY NUCLEAR PLANT (BFN) - INOPERABLE RADIOACTIVE EFFLUENT INSTRUMENTS

In TVA's letter dated August 28, 1987 to NRC concerning the "BFN - Semiannual Radioactive Effluent Release Report - January to June 1987," TVA provided information on corrective actions to restore to operable status certain radioactive effluent instruments. In TVA's letter dated March 1, 1988, to NRC concerning the "BFN - Semiannual Radioactive Effluent Release Report - July to December 1987," TVA provided updated information on radioactive effluent instrument operabilities. TVA did not complete the corrective action as provided in the August 28, 1987 letter because of delays in resolving various design, maintenance, and procedural problems. Enclosure 1 provides detailed information on which instruments were inoperable and our updated corrective action program. Enclosure 2 provides a list of commitments contained in this letter.

In a preliminary conversation between Al Ignatonis (NRC Region II) and Joe Savage (TVA-BFN), NRC was informed that TVA would be providing a letter updating the corrective actions to restore the instruments to operable status.

Please refer questions regarding this submittal to P. P. Carrier, Manager of Regulatory Licensing at (205) 729-2689.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

R. Gridley
R. Gridley, Director,
Nuclear Licensing and
Regulatory Affairs

Enclosures
cc: See page 2

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The following table shows the results of the experiment conducted on the 10th of May 1958. The results are given in the form of a table with the following columns: Time, Distance, and Speed. The data is as follows:

Time	Distance	Speed
0.0	0.0	0.0
0.1	0.1	1.0
0.2	0.2	2.0
0.3	0.3	3.0
0.4	0.4	4.0
0.5	0.5	5.0
0.6	0.6	6.0
0.7	0.7	7.0
0.8	0.8	8.0
0.9	0.9	9.0
1.0	1.0	10.0
1.1	1.1	11.0
1.2	1.2	12.0
1.3	1.3	13.0
1.4	1.4	14.0
1.5	1.5	15.0
1.6	1.6	16.0
1.7	1.7	17.0
1.8	1.8	18.0
1.9	1.9	19.0
2.0	2.0	20.0
2.1	2.1	21.0
2.2	2.2	22.0
2.3	2.3	23.0
2.4	2.4	24.0
2.5	2.5	25.0
2.6	2.6	26.0
2.7	2.7	27.0
2.8	2.8	28.0
2.9	2.9	29.0
3.0	3.0	30.0
3.1	3.1	31.0
3.2	3.2	32.0
3.3	3.3	33.0
3.4	3.4	34.0
3.5	3.5	35.0
3.6	3.6	36.0
3.7	3.7	37.0
3.8	3.8	38.0
3.9	3.9	39.0
4.0	4.0	40.0
4.1	4.1	41.0
4.2	4.2	42.0
4.3	4.3	43.0
4.4	4.4	44.0
4.5	4.5	45.0
4.6	4.6	46.0
4.7	4.7	47.0
4.8	4.8	48.0
4.9	4.9	49.0
5.0	5.0	50.0
5.1	5.1	51.0
5.2	5.2	52.0
5.3	5.3	53.0
5.4	5.4	54.0
5.5	5.5	55.0
5.6	5.6	56.0
5.7	5.7	57.0
5.8	5.8	58.0
5.9	5.9	59.0
6.0	6.0	60.0
6.1	6.1	61.0
6.2	6.2	62.0
6.3	6.3	63.0
6.4	6.4	64.0
6.5	6.5	65.0
6.6	6.6	66.0
6.7	6.7	67.0
6.8	6.8	68.0
6.9	6.9	69.0
7.0	7.0	70.0
7.1	7.1	71.0
7.2	7.2	72.0
7.3	7.3	73.0
7.4	7.4	74.0
7.5	7.5	75.0
7.6	7.6	76.0
7.7	7.7	77.0
7.8	7.8	78.0
7.9	7.9	79.0
8.0	8.0	80.0
8.1	8.1	81.0
8.2	8.2	82.0
8.3	8.3	83.0
8.4	8.4	84.0
8.5	8.5	85.0
8.6	8.6	86.0
8.7	8.7	87.0
8.8	8.8	88.0
8.9	8.9	89.0
9.0	9.0	90.0
9.1	9.1	91.0
9.2	9.2	92.0
9.3	9.3	93.0
9.4	9.4	94.0
9.5	9.5	95.0
9.6	9.6	96.0
9.7	9.7	97.0
9.8	9.8	98.0
9.9	9.9	99.0
10.0	10.0	100.0

U.S. Nuclear Regulatory Commission

MAY 23 1988

cc (Enclosures):

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ENCLOSURE 1

The following is a list of inoperable radioactive effluent instruments as originally provided in an August 28, 1987 letter from R. Gridley to NRC concerning the "BFN - Semiannual Radioactive Effluent Release Report - January to June 1987." This information was updated as to operability status in a March 1, 1988 letter from R. Gridley to NRC concerning the "BFN - Semiannual Radioactive Effluent Release Report - July to December 1987." The following list also includes the return to service dates as provided in the August 28, 1987 letter and our updated information on operability dates.

<u>Instrument</u>	<u>Original Date</u>	<u>Revised Date</u>
1. RHR service water monitor 1-90-133	3/31/88	8/31/88
2. RHR service water monitor 1-90-134	3/31/88	8/31/88
3. RHR service water monitor 2-90-133	3/31/88	8/31/88
4. RHR service water monitor 2-90-134	3/31/88	8/31/88
5. RHR service water monitor 3-90-133	3/31/88	8/31/88
6. RHR service water monitor 3-90-134	3/31/88	8/31/88
7. Raw cooling water monitor 1-90-132	3/31/88	8/31/88
8. Raw cooling water monitor 2-90-132	3/31/88	8/31/88
9. Raw cooling water monitor 3-90-132	3/31/88	8/31/88
10. Liquid radwaste discharge monitor 0-90-130	11/30/87	6/30/88
11. Liquid radwaste discharge monitor flow rate loop 77-60	10/31/87	6/30/88
12. Stack effluent flow meter 90-271	9/30/87	9/30/88
13. Stack effluent monitor 90-147A	9/30/87	8/31/88

<u>Instrument</u>	<u>Original Date</u>	<u>Revised Date</u>
14. Stack effluent monitor 90-147B	9/30/87	8/31/88
15. Posttreatment noble gas monitor 1-90-265	9/30/87	5/5/88
16. Posttreatment noble gas monitor 1-90-266	9/30/87	5/5/88
17. Posttreatment noble gas monitor 2-90-265	8/87	5/5/88
18. Posttreatment noble gas monitor 2-90-266	8/87	5/5/88
19. Posttreatment noble gas monitor 3-90-265	9/30/87	5/5/88
20. Posttreatment noble gas monitor 3-90-266	9/30/87	5/5/88

ENCLOSURE 2

1. RHR service water monitors (1-90-133, 1-90-134, 2-90-133, 2-90-134, 3-90-133, 3-90-134) and raw cooling water monitors (1-90-132, 2-90-132, 3-90-132) will be operable by August 31, 1988.
2. The liquid radwaste effluent monitor (0-90-130) shall be operable by June 30, 1988. The flow rate loop (77-60) will be fully calibrated and operable by June 30, 1988.
3. The stack noble gas monitors (90-147A and 90-147B) will be operable by August 31, 1988, and the stack flow meter (90-271) will be operable by September 30, 1988.



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