



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PENNSYLVANIA 19406

June 4, 1993

MEMORANDUM FOR: John D. Kinneman, Chief, Research, Development &
Decommissioning Section B, NMSB, DRSS

FROM: Robert J. Bores, Chief, Effluents Radiation Protection
Section, FRSSB, DRSS

SUBJECT: RESULTS OF TLD DIRECT RADIATION
ENVIRONMENTAL MONITORING AT INS

The attachment to this memo provides the results of the subject monitoring for the first quarter 1993. The TLDs were in place for 119 days, from January 8 to May 6, 1993. They were annealed on December 9, 1992, and read on May 6, 1993.

Please contact either me or R. Struckmeyer if you have any questions.

A handwritten signature in cursive script, appearing to read "Robert J. Bores".

Robert J. Bores, Chief
Effluents Radiation Protection
Section, FRSSB

Attachment: As stated

cc:
J. Joyner, FRSSB
R. Bellamy, NMSB

INS
 TLD Direct Radiation Environmental Monitoring
 For the period 921209-930506 149 Days
 Field Time: 119 Days

NRC Sta	Location Azimuth/Dist (Deg)/(Mi)	Gross Exposure (mR) +-Rdm; Tot.	Net Exposure Rate (mR/Std. Qtr.) +-Rdm; Tot.	Hist. Range Net Exp Rate +-1 Std Dev
1	0 0.0	182.0 +- 5.5; 27.3	136.9 +- 4.1; 20.8	134.9 +- 43.9
2	0 0.0	220.0 +- 6.6; 33.0	165.7 +- 5.0; 25.1	155.6 +- 51.8
3	0 0.0	23.8 +- 0.7; 3.6	17.3 +- 0.6; 3.8	19.9 +- 2.9
4	0 0.0	43.7 +- 1.3; 6.5	32.3 +- 1.0; 5.6	33.7 +- 5.7
5	0 0.0	21.0 +- 0.6; 3.2	15.2 +- 0.5; 3.6	16.9 +- 2.4
6	0 0.0	22.1 +- 0.7; 3.3	16.0 +- 0.6; 3.7	18.6 +- 1.5
7	0 0.0	22.0 +- 0.7; 3.3	15.9 +- 0.6; 3.7	21.5 +- 5.6
8	0 0.0	25.8 +- 0.8; 3.9	18.8 +- 0.6; 4.0	21.6 +- 3.5
9	0 0.0	24.7 +- 0.7; 3.7	18.0 +- 0.6; 3.9	19.8 +- 2.8
10	0 0.0	21.6 +- 0.6; 3.2	15.6 +- 0.5; 3.6	18.4 +- 1.4
11	0 0.0	22.3 +- 0.7; 3.4	16.2 +- 0.6; 3.7	20.0 +- 3.0
12	0 0.0	33.4 +- 1.0; 5.0	24.5 +- 0.8; 4.6	27.6 +- 1.7
13	0 0.0	23.9 +- 0.7; 3.6	17.4 +- 0.6; 3.8	32.1 +- 9.5
14	0 0.0	34.2 +- 1.0; 5.1	25.1 +- 0.8; 4.7	27.8 +- 2.9
15	0 0.0	19.9 +- 0.6; 3.0	14.3 +- 0.5; 3.5	16.3 +- 1.5
16	0 0.0	26.0 +- 0.8; 3.9	18.9 +- 0.6; 4.0	21.0 +- 2.4

Transit Dose = 0.9 +- 0.3; 3.5

INS
For the period 921209-930506

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	35.5 +- 45.7	16
11.26 - 33.75 NNE	No Data +- No Data	0
33.76 - 56.25 NE	No Data +- No Data	0
56.26 - 78.75 ENE	No Data +- No Data	0
78.76 - 101.25 E	No Data +- No Data	0
101.26 - 123.75 ESE	No Data +- No Data	0
123.76 - 146.25 SE	No Data +- No Data	0
146.26 - 168.75 SSE	No Data +- No Data	0
168.76 - 191.25 S	No Data +- No Data	0
191.26 - 213.75 SSW	No Data +- No Data	0
213.76 - 236.25 SW	No Data +- No Data	0
236.26 - 258.75 WSW	No Data +- No Data	0
258.76 - 281.25 W	No Data +- No Data	0
281.26 - 303.75 WNW	No Data +- No Data	0
303.76 - 326.25 NW	No Data +- No Data	0
326.26 - 348.75 NNW	No Data +- No Data	0

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	35.5 +- 45.7	16
2 - 5	No Data +- No Data	0
> 5	No Data +- No Data	0
Upwind Control	No Data +- No Data	0