



UNITED STATES  
**NUCLEAR REGULATORY COMMISSION**  
REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

March 1, 1994

MEMORANDUM FOR: Mohamed M. Shanbaky, Chief, Research and Development Section B, NMSB, DRSS

FROM: Richard K. Struckmeyer, Sr. Radiation Specialist, 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 fourth quarter 1994. The TLDs were in place for 121 days, from October 7, 1993 to February 4, 1994. They were annealed on October 7, 1993 and read on February 9, 1994.

Please contact me if you have any questions.

A handwritten signature in cursive script, appearing to read "R. Struckmeyer".

Richard K. Struckmeyer  
Sr. Radiation Specialist  
Effluents Radiation Protection  
Section, FRSSB

Attachment: As stated

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

INS  
 TLD Direct Radiation Environmental Monitoring  
 For the period 931006-940209 127 Days  
 Field Time: 121 Days

NRC Sta	Location		Gross Exposure (mR)		Net Exposure Rate (mR/Std. Qtr.)		Hist. Range Net Exp Rate	
	Azimuth/ (Deg)	Dist (Mi)	+-Rdm; Tot.		+-Rdm; Tot.		+-1 Std Dev	
1	0	0.0	194.7	+- 5.8; 29.2	144.8	+- 4.3; 21.9	140.5	+-40.2
2	0	0.0	27.0	+- 0.8; 4.1	20.1	+- 0.6; 4.0	161.8	+-46.8
3	0	0.0	234.0	+- 7.0; 35.1	174.1	+- 5.2; 26.2	19.9	+- 2.7
4	0	0.0	51.2	+- 1.5; 7.7	38.1	+- 1.2; 6.3	34.2	+- 5.2
5	0	0.0	23.7	+- 0.7; 3.6	17.7	+- 0.6; 3.7	16.9	+- 2.2
6	0	0.0	Damaged Dosimeter		No Net Data		18.5	+- 1.6
7	0	0.0	27.6	+- 0.8; 4.1	20.5	+- 0.7; 4.0	21.0	+- 5.1
8	0	0.0	Missing Dosimeter		No Net Data		21.9	+- 3.8
9	0	0.0	28.6	+- 0.9; 4.3	21.2	+- 0.7; 4.1	20.0	+- 2.6
10	0	0.0	24.7	+- 0.7; 3.7	18.3	+- 0.6; 3.8	18.2	+- 1.5
11	0	0.0	27.4	+- 0.8; 4.1	20.3	+- 0.6; 4.0	19.9	+- 3.0
12	0	0.0	38.1	+- 1.1; 5.7	28.3	+- 0.9; 5.0	27.5	+- 1.9
13	0	0.0	64.4	+- 1.9; 9.7	47.9	+- 1.5; 7.6	29.1	+-10.1
14	0	0.0	37.8	+- 1.1; 5.7	28.1	+- 0.9; 5.0	27.9	+- 2.7
15	0	0.0	22.2	+- 0.7; 3.3	16.5	+- 0.5; 3.6	16.5	+- 2.0
16	0	0.0	27.9	+- 0.8; 4.2	20.8	+- 0.7; 4.1	20.9	+- 2.3

Transit Dose = 0.0 +- 0.3; 3.5

INS  
For the period 931006-940209

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	44.1 +- 50.0	14
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	44.1 +- 50.0	14
2 - 5	No Data +- No Data	0
> 5	No Data +- No Data	0
Upwind Control	No Data +- No Data	0