



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

May 23, 1994

*file*  
*37-23341-01*

MEMORANDUM FOR: Mohamed M. Shanbaky, Chief, 1  
Development Section B, NMSB, DRSS

FROM: Richard K. Struckmeyer, Sr. Radiat  
Effluents Radiation Protection Section, 1

SUBJECT: RESULTS OF TLD DIRECT  
ENVIRONMENTAL MONITORING AT INS

*INS*  
*Request PA*

The attachment to this memo provides the results of the subject monitoring for the first quarter 1994. The TLDs were in place for 60 days, from February 4 to April 4, 1994. They were annealed on December 9, 1993 and read on April 21, 1994.

Please contact me if you have any questions.

*Richard K. Struckmeyer*

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

Attachment: As stated

cc:  
J. Joyner, FRSSB  
ERPS Section Chief  
R. Bellamy, NMSB

INS  
 TLD Direct Radiation Environmental Monitoring  
 For the period 931209-940421 134 Days  
 Field Time: 60 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	66.6 +- 2.0; 10.0	89.8 +- 3.0; 15.4	140.8 +-38.7
2	0	0.0	83.6 +- 2.5; 12.5	115.3 +- 3.8; 19.1	151.7 +-58.8
3	0	0.0	16.4 +- 0.5; 2.5	14.4 +- 0.9; 5.1	30.9 +-41.3
4	0	0.0	24.0 +- 0.7; 3.6	25.9 +- 1.2; 6.5	34.5 +- 5.1
5	0	0.0	Damaged Dosimeter	No Net Data	17.0 +- 2.1
6	0	0.0	17.3 +- 0.5; 2.6	15.9 +- 0.9; 5.3	18.5 +- 1.6
7	0	0.0	16.1 +- 0.5; 2.4	14.0 +- 0.9; 5.1	20.9 +- 4.9
8	0	0.0	Missing Dosimeter	No Net Data	21.9 +- 3.8
9	0	0.0	17.4 +- 0.5; 2.6	16.0 +- 0.9; 5.3	20.1 +- 2.5
10	0	0.0	Damaged Dosimeter	No Net Data	18.2 +- 1.5
11	0	0.0	16.4 +- 0.5; 2.5	14.5 +- 0.9; 5.1	19.9 +- 2.9
12	0	0.0	23.7 +- 0.7; 3.6	25.5 +- 1.2; 6.4	27.6 +- 1.8
13	0	0.0	30.6 +- 0.9; 4.6	35.8 +- 1.5; 7.7	30.4 +-10.9
14	0	0.0	20.9 +- 0.6; 3.1	21.2 +- 1.1; 5.9	27.9 +- 2.6
15	0	0.0	16.6 +- 0.5; 2.5	14.7 +- 0.9; 5.1	16.5 +- 1.9
16	0	0.0	17.8 +- 0.5; 2.7	16.6 +- 1.0; 5.4	20.9 +- 2.2

Transit Dose = 6.7 +- 0.4; 2.4

INS

For the period 931209-940421

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	32.3 +- 32.2	13
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	32.3 +- 32.2	13
2 - 5	No Data +- No Data	0
> 5	No Data +- No Data	0
Upwind Control	No Data +- No Data	0