

030-20934
37-23341-01



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

June 12, 1991

MEMORANDUM FOR: J. Kinneman, Chief, Nuclear Materials Safety Section B,
NMSB, DRSS

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

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 1991. The TLDs were in place for 85 days, from January 10 to April 4, 1991. They were annealed on January 9 and read on April 16, 1991.

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

Robert J. Bores, Chief
Effluents Radiation Protection Section
FRSSB

Attachment:
As stated

cc:
R. Bellamy, DRSS

170670

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9201210060 910612
REG1 LIC30
37-23341-01 PDR

INS
 TLD Direct Radiation Environmental Monitoring
 For the period 910109-910416 98 Days
 Field Time: 85 Days

NRC Sta	Location		Gross Exposure (mR)		Net Exposure Rate (mR/Std. Qtr.)		Hist. Range Net Exp Rate	
	Azimuth/Dist (Deg)/(Mi)		+-Rdm; Tot.		+-Rdm; Tot.		+-1 Std Dev	
1	0	0.0	115.4	+- 3.5; 17.3	119.2	+- 3.7; 18.5	63.4	+-37.9
2	0	0.0	124.3	+- 3.7; 18.6	128.7	+- 4.0; 20.0	71.2	+-44.8
3	0	0.0	19.7	+- 0.6; 3.0	18.0	+- 0.7; 4.2	18.0	+- 3.3
4	0	0.0	32.4	+- 1.0; 4.9	31.4	+- 1.1; 5.9	26.1	+- 8.6
5	0	0.0	17.0	+- 0.5; 2.5	15.0	+- 0.6; 3.9	16.7	+- 3.9
6	0	0.0	19.3	+- 0.6; 2.9	17.4	+- 0.7; 4.2	18.6	+- 2.0
7	0	0.0	18.4	+- 0.6; 2.8	16.5	+- 0.7; 4.1	18.8	+- 4.4
8	0	0.0	19.4	+- 0.6; 2.9	17.6	+- 0.7; 4.2	19.1	+- 3.4
9	0	0.0	18.5	+- 0.6; 2.8	16.7	+- 0.7; 4.1	23.0	+- 1.5
10	0	0.0	18.9	+- 0.6; 2.8	17.0	+- 0.7; 4.1	18.3	+- 1.3
11	0	0.0	19.7	+- 0.6; 3.0	17.9	+- 0.7; 4.2	20.2	+- 4.3
12	0	0.0	28.2	+- 0.8; 4.2	27.0	+- 0.9; 5.3	27.4	+- 1.8
13	0	0.0	26.5	+- 0.8; 4.0	25.1	+- 0.9; 5.1	28.6	+- 0.6
14	0	0.0	29.4	+- 0.9; 4.4	28.2	+- 1.0; 5.5	25.0	+- 2.8
15	0	0.0	18.4	+- 0.6; 2.8	16.6	+- 0.7; 4.1	15.2	+- 0.9
16	0	0.0	18.9	+- 0.6; 2.8	17.1	+- 0.7; 4.1	21.5	+- 1.7

Transit Dose = 2.8 +- 0.3; 2.7

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INS
For the period 910109-910416

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	33.1 +- 35.9	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	33.1 +- 35.9	16
2 - 5	No Data +- No Data	0
> 5	No Data +- No Data	0
Upwind Control	No Data +- No Data	0

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