

030-20934  
37-23341-01



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

August 26, 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 second quarter 1991. The TLDs were in place for 85 days, from April 4 to June 27, 1991. They were annealed on April 3 and read on August 13, 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

170071

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REG1 LIC30  
37-23341-01 PDR

INS

TLD Direct Radiation Environmental Monitoring

For the period 910403-910813 133 Days

Field Time: 85 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	137.3	+- 4.1; 20.6	142.4	+- 4.4; 22.0	63.4	+-37.9
2	0	0.0	163.6	+- 4.9; 24.5	170.3	+- 5.2; 26.1	71.2	+-44.8
3	0	0.0	26.8	+- 0.8; 4.0	25.4	+- 0.9; 5.1	18.0	+- 3.3
4	0	0.0	39.9	+- 1.2; 6.0	39.3	+- 1.3; 6.9	26.1	+- 8.6
5	0	0.0	22.1	+- 0.7; 3.3	20.4	+- 0.8; 4.5	16.7	+- 3.9
6	0	0.0	22.5	+- 0.7; 3.4	20.9	+- 0.8; 4.6	18.6	+- 2.0
7	0	0.0	35.3	+- 1.1; 5.3	34.4	+- 1.2; 6.3	18.8	+- 4.4
8	0	0.0	27.8	+- 0.8; 4.2	26.5	+- 0.9; 5.3	19.1	+- 3.4
9	0	0.0	22.5	+- 0.7; 3.4	20.9	+- 0.8; 4.6	23.0	+- 1.5
10	0	0.0	21.7	+- 0.7; 3.3	20.0	+- 0.8; 4.5	18.3	+- 1.3
11	0	0.0	Damaged Dosimeter		No Net Data		20.2	+- 4.3
12	0	0.0	31.0	+- 0.9; 4.6	29.9	+- 1.0; 5.7	27.4	+- 1.8
13	0	0.0	53.1	+- 1.6; 8.0	53.3	+- 1.7; 8.9	28.6	+- 0.6
14	0	0.0	34.1	+- 1.0; 5.1	33.2	+- 1.1; 6.1	25.0	+- 2.8
15	0	0.0	21.4	+- 0.6; 3.2	19.7	+- 0.7; 4.4	15.2	+- 0.9
16	0	0.0	25.8	+- 0.8; 3.9	24.4	+- 0.9; 5.0	21.5	+- 1.7

Transit Dose = 2.8 +- 0.3; 2.7

INS

For the period 910403-910813

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	45.4 +- 46.3	15
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	45.4 +- 46.3	15
2 - 5	No Data +- No Data	0
> 5	No Data +- No Data	0
Upwind Control	No Data +- No Data	0

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