

August 16, 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 second quarter 1994. The TLDs were in place for 95 days, from April 4 to July 7, 1994. They were annealed on March 18 and read on August 21, 1994.

Please contact me if you have any questions.



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

Attachment: As stated

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

INS
 TLD Direct Radiation Environmental Monitoring
 For the period 940318-940721 126 Days
 Field Time: 95 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 | 199.8 | +- 6.0; 30.0 | 188.3 | +- 5.7; 28.5 | 137.4 | +-39.5 |
| 2 | 0 | 0.0 | 232.2 | +- 7.0; 34.8 | 219.1 | +- 6.6; 33.1 | 149.3 | +-57.4 |
| 3 | 0 | 0.0 | 24.8 | +- 0.7; 3.7 | 22.6 | +- 0.7; 4.4 | 29.8 | +-40.0 |
| 4 | 0 | 0.0 | 47.1 | +- 1.4; 7.1 | 43.7 | +- 1.4; 7.2 | 33.9 | +- 5.4 |
| 5 | 0 | 0.0 | 22.7 | +- 0.7; 3.4 | 20.6 | +- 0.7; 4.2 | 17.0 | +- 2.1 |
| 6 | 0 | 0.0 | 23.8 | +- 0.7; 3.6 | 21.6 | +- 0.7; 4.3 | 18.3 | +- 1.7 |
| 7 | 0 | 0.0 | 25.4 | +- 0.8; 3.8 | 23.2 | +- 0.8; 4.5 | 20.4 | +- 5.1 |
| 8 | 0 | 0.0 | Missing Dosimeter | | No Net Data | | 21.9 | +- 3.8 |
| 9 | 0 | 0.0 | 24.8 | +- 0.7; 3.7 | 22.6 | +- 0.7; 4.4 | 19.8 | +- 2.7 |
| 10 | 0 | 0.0 | 22.3 | +- 0.7; 3.3 | 20.2 | +- 0.7; 4.2 | 18.2 | +- 1.5 |
| 11 | 0 | 0.0 | 25.2 | +- 0.8; 3.8 | 23.0 | +- 0.8; 4.5 | 19.6 | +- 3.2 |
| 12 | 0 | 0.0 | 33.7 | +- 1.0; 5.1 | 31.0 | +- 1.0; 5.5 | 27.5 | +- 1.8 |
| 13 | 0 | 0.0 | 47.6 | +- 1.4; 7.1 | 44.1 | +- 1.4; 7.3 | 30.8 | +-10.6 |
| 14 | 0 | 0.0 | 35.4 | +- 1.1; 5.3 | 32.6 | +- 1.0; 5.7 | 27.4 | +- 3.1 |
| 15 | 0 | 0.0 | 20.0 | +- 0.6; 3.0 | 18.0 | +- 0.6; 3.9 | 16.4 | +- 1.9 |
| 16 | 0 | 0.0 | 22.5 | +- 0.7; 3.4 | 20.4 | +- 0.7; 4.2 | 20.6 | +- 2.4 |

Transit Dose = 1.0 +- 0.3; 2.8

INS

For the period 940318-940721

TLD Direct Radiation Environmental Monitoring

| Azimuth (degrees) | Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev. | Number In Group |
|----------------------|---|--------------------|
| 348.76 - 11.25 N | 50.1 +- 63.2 | 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 | 50.1 +- 63.2 | 15 |
| 2 - 5 | No Data +- No Data | 0 |
| > 5 | No Data +- No Data | 0 |
| Upwind Control | No Data +- No Data | 0 |