



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

June 4, 1993

MEMORANDUM FOR: John D. Kinneman, Chief, Research, Development & Decommissioning Section B, NMSB, DRSS

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

SUBJECT: CORRECTED RESULTS OF FOURTH QUARTER 1992 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING AT THE ROYERSFORD WASTEWATER TREATMENT FACILITY

The attachment to this memo provides the corrected results of the subject monitoring for the fourth quarter 1992, based on information provided in your memorandum to Marie Miller dated April 19, 1993. It is our understanding that the TLDs at locations 2 and 3 were inadvertently interchanged. Therefore, the data previously attributed to location 2 have been reassigned to location 3, and vice-versa. The TLDs were in place for 100 days, from October 1, 1992, to January 8, 1993. They were annealed on September 10, 1992, and read on February 5, 1993.

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:

J. Joyner, FRSSB  
R. Bellamy, NMSB  
B. Ullrich, NMSB

INS

TLD Direct Radiation Environmental Monitoring

For the period 920910-930205 149 Days

Field Time: 100 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	184.9	+- 5.5; 27.7	163.0	+- 5.0; 25.1	131.8	+-45.4
2	0	0.0	205.4	+- 6.2; 30.8	181.5	+- 5.6; 27.9	152.7	+-54.1
3	0	0.0	28.5	+- 0.9; 4.3	22.2	+- 0.8; 4.8	19.7	+- 2.9
4	0	0.0	46.1	+- 1.4; 6.9	38.1	+- 1.3; 6.9	33.3	+- 5.8
5	0	0.0	25.3	+- 0.8; 3.8	19.3	+- 0.8; 4.5	16.6	+- 2.4
6	0	0.0	26.2	+- 0.8; 3.9	20.2	+- 0.8; 4.6	18.4	+- 1.5
7	0	0.0	29.5	+- 0.9; 4.4	23.1	+- 0.9; 4.9	21.3	+- 5.9
8	0	0.0	31.2	+- 0.9; 4.7	24.6	+- 0.9; 5.1	21.2	+- 3.5
9	0	0.0	27.7	+- 0.8; 4.2	21.5	+- 0.8; 4.7	19.6	+- 2.9
10	0	0.0	25.5	+- 0.8; 3.8	19.5	+- 0.8; 4.5	18.2	+- 1.4
11	0	0.0	30.1	+- 0.9; 4.5	23.7	+- 0.9; 5.0	19.6	+- 2.9
12	0	0.0	37.1	+- 1.1; 5.6	30.0	+- 1.1; 5.8	27.4	+- 1.5
13	0	0.0	24.5	+- 0.7; 3.7	18.6	+- 0.7; 4.4	33.6	+- 8.7
14	0	0.0	35.3	+- 1.1; 5.3	28.3	+- 1.0; 5.6	27.8	+- 3.1
15	0	0.0	23.3	+- 0.7; 3.5	17.6	+- 0.7; 4.3	16.2	+- 1.5
16	0	0.0	28.4	+- 0.9; 4.3	22.1	+- 0.8; 4.8	20.9	+- 2.5

Transit Dose = 3.8 +- 0.4; 3.2

INS  
For the period 920910-930205

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	42.1 +- 51.2	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	42.1 +- 51.2	16
2 - 5	No Data +- No Data	0
> 5	No Data +- No Data	0
Upwind Control	No Data +- No Data	0