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NRC TLD Direct Radiation Monitoring Network

Progress Report
July–September 1993

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U.S. Nuclear Regulatory Commission

NRC Region I

R. Struckmeyer

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NRC TLD Direct Radiation Monitoring Network

Progress Report
July-September 1993

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Region I
U.S. Nuclear Regulatory Commission
King of Prussia, PA 19406

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Preface

The U. S. Nuclear Regulatory Commission (NRC) Direct Radiation Monitoring Network is operated by the NRC in cooperation with participating states to provide continuous measurement of the ambient radiation levels around licensed NRC facilities, primarily power reactors. Ambient radiation levels result from naturally occurring radionuclides present in the soil, cosmic radiation constantly bombarding the earth from outer space, and the contribution, if any, from the monitored facilities and other man-made sources. The Network is intended to measure radiation levels during routine facility operations and to establish background radiation levels used to assess the radiological impact of an unusual condition, such as an accident. This report presents the radiation levels measured around all facilities in the Network for the third quarter of 1993. A complete listing of the site facilities monitored is included. In some instances, two power reactor facilities are monitored by the same set of dosimeters (e.g., Kewaunee and Point Beach).

All radiation measurements are made using small, passive detectors called thermoluminescent dosimeters (TLDs), which provide a quantitative measurement of the radiation levels in the area in which they are placed. Each site is monitored by arranging approximately 40 to 50 TLD stations in two concentric rings extending to about five miles from the facility. All TLD stations are outside the site boundary of the facility. A complete description of the program can be found in NUREG-0837, Volume 2, Number 4. A similar description can also be found in the fourth quarter report of each subsequent year. The National Institute of Standards and Technology (formerly the National Bureau of Standards) has performed an independent study of the following characteristics of the NRC dosimetry system; energy response, angular dependence, temperature and humidity sensitivity, fading, light dependence, self-irradiation, and reproducibility. NIST has also tested the response of the NRC's dosimetry system against the requirements of ANSI N545-1975 and NRC Regulatory Guide 4.13. Details of this testing can be found in NUREG/CR-3775.

The radiation levels are presented as gross and net exposures. The gross exposure includes naturally occurring background radiation, radiation levels resulting from a facility's operation, and the exposure received during transport and storage of the TLD. Net exposures are obtained by subtracting an estimate of the exposure received by the dosimeters during transit from the gross exposures. All exposures are normalized to a 90-day quarter (standard quarter) and reported in units of milliroentgens (mR). Station numbers for which no data are reported included stations which have been deleted, stations for which the TLD was lost during the quarter, or stations for which the TLD was damaged. When control dosimeter data are unavailable, no net exposures are calculated.

Three sets of data are presented for each site. The first set includes the TLD station number, its direction and distance from the site, the integrated gross exposure for the period, the net exposure normalized to a 90-day quarter (standard quarter), and the historical average and standard

deviation for the station. All measurements are listed with their respective random and total uncertainties. The uncertainties are listed in the following format:

$$X \pm S_x; U_x$$

where X = value of the result
 S_x = random uncertainty expressed as one standard deviation
 U_x = combined total uncertainty

The second set of data summarizes the average net exposure measured in each of the 16 standard windrose sectors around the facility, normalized to a standard quarter. The third set of data summarizes the average net exposure measured at three ranges of distances from the facility, normalized to a standard quarter. When average net exposures cannot be reported because of the unavailability of the site's transit control dosimeter, the average gross exposures, normalized to a standard quarter, are reported in these two sets of data. The "std.dev." refers to the standard deviation of the measurements made in each sector and range, respectively.

This report is one of a continuing series of technical reports covering the results and experiences of the operation of the NRC TLD Direct Radiation Monitoring Network. Suggestions on methods to improve the presentation or analysis of the data contained in this NUREG are appreciated and should be submitted to NRC Region I, 475 Allendale Road, King of Prussia, Pennsylvania 19406, ATTN: Radiation Dosimetry Specialist.

Data for Cooper Site - Second Quarter 1993

Due to heavy flooding in the Missouri River basin during the second quarter, the TLDs at the Cooper site were not retrieved until after publication of NUREG-0837, Vol. 13, No. 2. These data are presented in the supplement to this report, beginning on page 227.

New Format for Data Presentation Maps

Maps indicating the measured doses around each site are presented in this report in a new format. Due to the constraints of digitizing the entire monitoring area onto the limited space on the map, some TLD data are not included. Some difficulties remain to be worked out with regard to the appearance of the data on these maps. For example, there are several cases in which the data point for one TLD overlaps that of another TLD. Also, the map that has been provided for Kewaunee/ Pt. Beach shows the data primarily in relation to Kewaunee, due to difficulties in separating the TLDs into sets for each facility. In the future it is hoped to present two maps for these sites. The accuracy of these maps is believed to be very good, but the possibility of errors can not be ruled out. Any comments regarding inaccuracies, omissions, etc., would be appreciated; however, it may not be possible to incorporate all suggestions. Comments may be submitted to the address noted above.

Sites Monitored During the Third Quarter 1993

1. Arkansas Nuclear One	37. Millstone
2. Beaver Valley	38. Monticello
3. Big Rock Point	39. North Anna
4. Braidwood	40. Oconee
5. Browns Ferry	41. Oyster Creek
6. Brunswick	42. Palisades
7. Byron	43. Palo Verde
8. Callaway	44. Peach Bottom
9. Calvert Cliffs	45. Perry
10. Catawba	46. Pilgrim
11. Clinton	47. Prairie Island
12. Comanche Peak	48. Quad Cities
13. Cooper	49. Rancho Seco
14. Crystal River	50. River Bend
15. Davis Besse	51. Robinson
16. D.C. Cook	52. Salem/Hope Creek
17. Diablo Canyon	53. San Onofre
18. Dresden	54. Seabrook
19. Duane Arnold	55. Sequoyah
20. Farley	56. Shoreham
21. Fermi	57. South Texas
22. FitzPatrick/Nine Mile Point	58. St. Lucie
23. Fort Calhoun	59. Summer
24. Fort St. Vrain	60. Surry
25. Ginna	61. Susquehanna
26. Grand Gulf	62. Three Mile Island
27. Haddam Neck	63. Trojan
28. Harris	64. Turkey Point
29. Hatch	65. Vermont Yankee
30. Indian Point	66. Vogtle
31. Kewaunee/Point Beach	67. Washington Nuclear 2
32. Lacrosse	68. Waterford
33. LaSalle	69. Watts Bar
34. Limerick	70. Wolf Creek
35. Maine Yankee	71. Yankee Rowe
36. McGuire	72. Zion

ARKANSAS

TLD Direct Radiation Environmental Monitoring

For the period 930606-931028 145 Days

Field Time: 86 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	4	0.4	23.8 +- 0.7; 3.6	17.5 +- 0.9; 5.0
2	353	4.1	23.8 +- 0.7; 3.6	17.6 +- 0.9; 5.0
3	32	1.3	23.6 +- 0.7; 3.5	17.3 +- 0.9; 4.9
4	13	3.3	24.1 +- 0.7; 3.6	17.9 +- 0.9; 5.0
5	53	1.5	23.6 +- 0.7; 3.5	17.3 +- 0.9; 4.9
6	37	3.6	23.1 +- 0.7; 3.5	16.8 +- 0.9; 4.9
7	78	2.5	25.9 +- 0.8; 3.9	19.7 +- 0.9; 5.2
8	60	3.2	25.2 +- 0.8; 3.8	19.0 +- 0.9; 5.1
9	92	0.5	26.1 +- 0.8; 3.9	20.0 +- 0.9; 5.2
10	83	5.5	24.7 +- 0.7; 3.7	18.4 +- 0.9; 5.1
11	122	2.1	23.4 +- 0.7; 3.5	17.1 +- 0.9; 4.9
12	109	6.8	24.1 +- 0.7; 3.6	17.8 +- 0.9; 5.0
13	138	2.6	22.6 +- 0.7; 3.4	16.2 +- 0.8; 4.8
14	130	4.9	23.0 +- 0.7; 3.5	16.7 +- 0.8; 4.9
16	167	4.4	24.1 +- 0.7; 3.6	17.9 +- 0.9; 5.0
17	171	0.4	23.9 +- 0.7; 3.6	17.7 +- 0.9; 5.0
18	189	3.2	24.2 +- 0.7; 3.6	18.0 +- 0.9; 5.0
19	205	2.9	23.4 +- 0.7; 3.5	17.1 +- 0.9; 4.9
20	195	5.8	22.0 +- 0.7; 3.3	15.6 +- 0.8; 4.7
21	235	0.5	26.0 +- 0.8; 3.9	19.8 +- 0.9; 5.2
22	230	3.6	21.6 +- 0.6; 3.2	15.2 +- 0.8; 4.7
23	257	2.8	22.8 +- 0.7; 3.4	16.5 +- 0.8; 4.8
24	243	4.5	23.7 +- 0.7; 3.6	17.4 +- 0.9; 4.9
25	279	1.2	26.3 +- 0.8; 3.9	20.1 +- 0.9; 5.3
26	263	4.3	Missing Dosimeter	No Net Data
27	298	0.4	25.5 +- 0.8; 3.8	19.3 +- 0.9; 5.2
28	293	5.8	23.8 +- 0.7; 3.6	17.5 +- 0.9; 5.0
29	326	1.9	25.1 +- 0.8; 3.8	18.8 +- 0.9; 5.1
30	308	4.8	23.7 +- 0.7; 3.6	17.4 +- 0.9; 4.9
31	345	1.3	25.6 +- 0.8; 3.8	19.4 +- 0.9; 5.2
32	335	4.2	22.9 +- 0.7; 3.4	16.6 +- 0.8; 4.9
33	110	0.8	25.5 +- 0.8; 3.8	19.3 +- 0.9; 5.2
39	112	6.0	25.4 +- 0.8; 3.8	19.2 +- 0.9; 5.2
40	147	8.0	25.0 +- 0.7; 3.7	18.7 +- 0.9; 5.1
41	106	17.0	24.7 +- 0.7; 3.7	18.4 +- 0.9; 5.1
42	310	17.0	23.1 +- 0.7; 3.5	16.8 +- 0.9; 4.9
43	105	5.2	24.5 +- 0.7; 3.7	18.3 +- 0.9; 5.0
44	315	13.0	23.0 +- 0.7; 3.4	16.7 +- 0.8; 4.9
45	47	8.9	22.7 +- 0.7; 3.4	16.4 +- 0.8; 4.8
46	115	8.3	25.3 +- 0.8; 3.8	19.1 +- 0.9; 5.1
47	208	20.0	23.9 +- 0.7; 3.6	17.6 +- 0.9; 5.0
48	179	19.0	24.1 +- 0.7; 3.6	17.9 +- 0.9; 5.0
49	150	22.0	25.9 +- 0.8; 3.9	19.7 +- 0.9; 5.2

Transit Dose = 7.1 +- 0.4; 3.1

ARKANSAS

For the period 930606-931028

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	17.5 +- 0.1	2
11.26 - 33.75 NNE	17.6 +- 0.4	2
33.76 - 56.25 NE	16.8 +- 0.4	3
56.26 - 78.75 ENE	19.4 +- 0.5	2
78.76 - 101.25 E	19.2 +- 1.1	2
101.26 - 123.75 ESE	18.5 +- 0.8	7
123.76 - 146.25 SE	16.5 +- 0.3	2
146.26 - 168.75 SSE	18.3 +- 0.6	2
168.76 - 191.25 S	17.8 +- 0.2	2
191.26 - 213.75 SSW	16.3 +- 1.0	2
213.76 - 236.25 SW	17.5 +- 3.2	2
236.26 - 258.75 WSW	17.0 +- 0.6	2
258.76 - 281.25 W	20.1 +- 0.0	1
281.26 - 303.75 WNW	18.4 +- 1.3	2
303.76 - 326.25 NW	17.4 +- 1.0	4
326.26 - 348.75 NNW	18.0 +- 2.0	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	18.8 +- 1.1	11
2 - 5	17.3 +- 1.1	16
> 5	17.7 +- 1.2	12
Upwind Control	18.4 +- 1.2	3

NRC TLD DOSES FOR ARKANSAS AREA

BEAVER VALLEY

TLD Direct Radiation Environmental Monitoring

For the period 930606-931029 146 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	340	15.8	24.8 +- 0.7; 3.7	16.8 +- 0.9; 5.3	17.2 +- 1.8
2	3	13.1	25.6 +- 0.8; 3.8	17.6 +- 1.0; 5.4	17.4 +- 1.6
4	30	11.9	26.1 +- 0.8; 3.9	18.1 +- 1.0; 5.4	19.8 +- 2.0
5	53	8.2	27.5 +- 0.8; 4.1	19.6 +- 1.0; 5.6	18.7 +- 1.5
6	58	9.1	27.4 +- 0.8; 4.1	19.5 +- 1.0; 5.6	19.5 +- 1.6
7	97	8.0	28.4 +- 0.9; 4.3	20.5 +- 1.0; 5.7	19.8 +- 1.8
8	110	4.2	27.5 +- 0.8; 4.1	19.6 +- 1.0; 5.6	19.1 +- 1.6
9	111	1.9	27.3 +- 0.8; 4.1	19.4 +- 1.0; 5.6	20.0 +- 2.0
10	92	2.2	28.1 +- 0.8; 4.2	20.2 +- 1.0; 5.7	19.4 +- 1.3
11	64	3.6	27.8 +- 0.8; 4.2	19.9 +- 1.0; 5.6	19.7 +- 2.1
12	148	4.0	29.7 +- 0.9; 4.5	22.0 +- 1.1; 5.9	20.9 +- 1.2
13	171	4.4	26.5 +- 0.8; 4.0	18.6 +- 1.0; 5.5	18.7 +- 1.7
14	183	4.4	26.2 +- 0.8; 3.9	18.2 +- 1.0; 5.4	18.5 +- 1.4
15	198	3.6	28.0 +- 0.8; 4.2	20.2 +- 1.0; 5.6	18.8 +- 1.7
16	254	5.7	26.3 +- 0.8; 3.9	18.3 +- 1.0; 5.4	18.4 +- 1.5
17	267	6.5	24.1 +- 0.7; 3.6	16.0 +- 0.9; 5.2	17.9 +- 1.7
18	231	2.5	27.5 +- 0.8; 4.1	19.6 +- 1.0; 5.6	18.7 +- 1.6
19	266	2.5	29.1 +- 0.9; 4.4	21.4 +- 1.1; 5.8	20.3 +- 1.7
20	291	3.8	25.0 +- 0.7; 3.7	16.9 +- 0.9; 5.3	17.2 +- 2.0
21	298	2.4	29.4 +- 0.9; 4.4	21.6 +- 1.1; 5.8	20.9 +- 1.8
22	219	1.5	26.5 +- 0.8; 4.0	18.6 +- 1.0; 5.5	17.8 +- 1.2
23	252	2.4	31.4 +- 0.9; 4.7	23.7 +- 1.1; 6.1	21.1 +- 2.4
24	207	2.2	28.9 +- 0.9; 4.3	21.1 +- 1.0; 5.8	19.7 +- 1.7
25	187	2.2	27.8 +- 0.8; 4.2	20.0 +- 1.0; 5.6	20.1 +- 1.7
26	158	2.2	27.6 +- 0.8; 4.1	19.7 +- 1.0; 5.6	19.2 +- 1.8
27	135	1.9	27.3 +- 0.8; 4.1	19.4 +- 1.0; 5.6	19.9 +- 1.4
28	99	1.4	28.7 +- 0.9; 4.3	20.9 +- 1.0; 5.7	20.4 +- 1.9
29	64	1.4	27.0 +- 0.8; 4.1	19.1 +- 1.0; 5.5	18.6 +- 1.8
30	53	1.0	27.8 +- 0.8; 4.2	19.9 +- 1.0; 5.6	19.0 +- 1.7
31	320	1.4	29.8 +- 0.9; 4.5	22.1 +- 1.1; 5.9	21.3 +- 2.0
32	320	3.5	26.4 +- 0.8; 4.0	18.5 +- 1.0; 5.5	19.1 +- 1.8
33	335	2.5	26.5 +- 0.8; 4.0	18.6 +- 1.0; 5.5	19.2 +- 1.8
34	340	5.2	23.4 +- 0.7; 3.5	15.3 +- 0.9; 5.1	17.2 +- 2.1
35	4	3.5	27.6 +- 0.8; 4.1	19.7 +- 1.0; 5.6	19.8 +- 1.9
36	23	3.2	29.7 +- 0.9; 4.5	22.0 +- 1.1; 5.9	22.0 +- 1.9
37	42	2.8	23.6 +- 0.7; 3.5	15.5 +- 0.9; 5.1	16.6 +- 1.2
38	27	1.6	26.1 +- 0.8; 3.9	18.1 +- 1.0; 5.4	17.8 +- 2.0
39	348	1.6	27.2 +- 0.8; 4.1	19.3 +- 1.0; 5.5	19.1 +- 1.8
40	340	15.8	25.2 +- 0.8; 3.8	17.2 +- 0.9; 5.3	16.4 +- 1.8
41	340	15.8	25.7 +- 0.8; 3.8	17.7 +- 1.0; 5.4	16.9 +- 1.5

Transit Dose = 9.0 +- 0.5; 3.3

BEAVER VALLEY
For the period 930606-931029

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	18.7 +- 1.5	2
11.26 - 33.75 NNE	19.4 +- 2.2	3
33.76 - 56.25 NE	18.4 +- 2.5	3
56.26 - 78.75 ENE	19.5 +- 0.4	3
78.76 - 101.25 E	20.5 +- 0.3	3
101.26 - 123.75 ESE	19.5 +- 0.1	2
123.76 - 146.25 SE	19.4 +- 0.0	1
146.26 - 168.75 SSE	20.8 +- 1.6	2
168.76 - 191.25 S	18.9 +- 0.9	3
191.26 - 213.75 SSW	20.6 +- 0.7	2
213.76 - 236.25 SW	19.1 +- 0.7	2
236.26 - 258.75 WSW	21.0 +- 3.8	2
258.76 - 281.25 W	18.7 +- 3.8	2
281.26 - 303.75 WNW	19.3 +- 3.3	2
303.76 - 326.25 NW	20.3 +- 2.5	2
326.26 - 348.75 NNW	17.7 +- 2.1	3

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	19.6 +- 1.2	9
2 - 5	19.8 +- 1.9	20
> 5	18.1 +- 1.8	8
Upwind Control	17.2 +- 0.4	3

NRC TLD DOSES FOR BEAVER VALLEY AREA

Miles

0 2 4

Legend

Water

Highways

Railroads

Roads

Plant..site

BIG ROCK
 TLD Direct Radiation Environmental Monitoring
 For the period 930609-931020 134 Days
 Field Time: 83 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	208	4.9 +- 0.5; 2.7	13.8 +- 0.7; 4.3	13.8 +- 1.6
2	220	3.6 +- 0.5; 2.6	12.6 +- 0.7; 4.2	12.7 +- 1.9
3	204	2.4 +- 0.5; 2.7	13.3 +- 0.7; 4.3	13.0 +- 2.2
4	176	3.3 +- 0.5; 2.7	13.7 +- 0.7; 4.3	12.7 +- 1.9
5	161	4.6 +- 0.5; 2.6	13.0 +- 0.7; 4.2	13.3 +- 2.0
6	133	4.7 +- 0.6; 2.9	14.9 +- 0.7; 4.4	14.4 +- 1.9
7	116	3.7 +- 0.6; 2.9	14.7 +- 0.7; 4.4	15.1 +- 2.0
8	111	4.7 +- 0.6; 2.8	14.0 +- 0.7; 4.3	14.7 +- 2.4
9	98	4.5 +- 0.5; 2.7	13.6 +- 0.7; 4.3	13.3 +- 1.8
10	88	12.0 +- 0.5; 2.6	12.9 +- 0.7; 4.2	12.7 +- 1.7
11	83	16.0 +- 0.5; 2.6	13.1 +- 0.7; 4.2	13.3 +- 2.3
12	83	17.6 +- 0.5; 2.6	13.1 +- 0.7; 4.2	12.9 +- 2.0
13	83	16.0 +- 0.5; 2.6	12.8 +- 0.7; 4.2	12.7 +- 1.8
14	77	3.4 +- 0.5; 2.5	12.2 +- 0.7; 4.2	12.1 +- 1.7
15	96	1.8 +- 0.5; 2.7	13.5 +- 0.7; 4.3	14.1 +- 2.0
16	118	2.0 +- 0.5; 2.7	13.7 +- 0.7; 4.3	13.9 +- 2.1
17	134	2.0 +- 0.6; 2.8	14.5 +- 0.7; 4.4	13.6 +- 1.7
18	222	1.9 +- 0.6; 2.8	14.5 +- 0.7; 4.4	12.3 +- 2.1
19	194	1.4 +- 0.6; 3.0	15.8 +- 0.8; 4.5	15.1 +- 2.0
20	179	1.5 +- 0.5; 2.7	13.6 +- 0.7; 4.3	13.4 +- 1.8
21	153	1.1 +- 0.5; 2.6	12.9 +- 0.7; 4.2	13.1 +- 1.6

Transit Dose = 5.5 +- 0.4; 2.9

BIG ROCK

For the period 930609-931020

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	No Data +- No Data	0
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	12.2 +- 0.0	1
78.76 - 101.25 E	13.3 +- 0.4	3
101.26 - 123.75 ESE	14.1 +- 0.5	3
123.76 - 146.25 SE	14.7 +- 0.2	2
146.26 - 168.75 SSE	13.0 +- 0.0	2
168.76 - 191.25 S	13.6 +- 0.1	2
191.26 - 213.75 SSW	14.3 +- 1.3	3
213.76 - 236.25 SW	13.5 +- 1.4	2
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	14.1 +- 0.9	7
2 - 5	13.6 +- 0.8	10
> 5	12.9 +- 0.0	1
Upwind Control	13.0 +- 0.2	3

NRC TLD DOSES FOR BIG ROCK POINT AREA

Miles

0 2 4

Legend

Water

— Highways

Railroads

--- Roads

Plant..site

BRAIDWOOD

TLD Direct Radiation Environmental Monitoring

For the period 930609-931020 134 Days

Field Time: 90 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	28	0.8	19.0 +- 0.6; 2.9	14.5 +- 0.7; 4.1	14.6 +- 4.5
2	29	1.3	17.8 +- 0.5; 2.7	13.2 +- 0.6; 4.0	15.4 +- 3.5
3	53	2.0	18.1 +- 0.5; 2.7	13.5 +- 0.7; 4.0	13.2 +- 3.7
4	72	2.1	18.3 +- 0.5; 2.7	13.7 +- 0.7; 4.1	15.6 +- 3.4
5	87	2.0	17.5 +- 0.5; 2.6	12.9 +- 0.6; 4.0	15.2 +- 3.6
6	119	2.5	17.7 +- 0.5; 2.6	13.1 +- 0.6; 4.0	14.7 +- 4.5
7	133	3.3	18.0 +- 0.5; 2.7	13.4 +- 0.6; 4.0	15.6 +- 3.5
8	151	3.3	18.6 +- 0.6; 2.8	14.0 +- 0.7; 4.1	14.4 +- 3.2
9	172	3.9	21.1 +- 0.6; 3.2	16.6 +- 0.7; 4.4	19.4 +- 5.2
10	197	2.8	17.9 +- 0.5; 2.7	13.4 +- 0.6; 4.0	15.7 +- 3.8
11	212	1.4	18.2 +- 0.5; 2.7	13.6 +- 0.7; 4.0	14.6 +- 3.2
12	232	1.0	17.2 +- 0.5; 2.6	12.6 +- 0.6; 4.0	14.1 +- 3.6
13	255	1.0	17.0 +- 0.5; 2.6	12.5 +- 0.6; 3.9	14.6 +- 3.4
14	278	1.2	17.9 +- 0.5; 2.7	13.3 +- 0.6; 4.0	15.0 +- 3.2
15	310	1.3	17.5 +- 0.5; 2.6	12.9 +- 0.6; 4.0	15.2 +- 3.4
16	342	1.3	18.3 +- 0.5; 2.7	13.7 +- 0.7; 4.1	12.9 +- 3.6
17	8	1.5	17.7 +- 0.5; 2.7	13.1 +- 0.6; 4.0	15.2 +- 3.7
18	18	3.5	22.5 +- 0.7; 3.4	17.9 +- 0.8; 4.5	18.6 +- 4.5
19	42	6.3	17.7 +- 0.5; 2.7	13.1 +- 0.6; 4.0	14.3 +- 3.9
20	69	5.7	20.7 +- 0.6; 3.1	16.1 +- 0.7; 4.3	16.4 +- 3.5
21	86	7.0	Missing Dosimeter	No Net Data	17.5 +- 3.7
22	103	11.4	19.7 +- 0.6; 2.9	15.1 +- 0.7; 4.2	16.4 +- 4.4
23	45	4.9	18.8 +- 0.6; 2.8	14.2 +- 0.7; 4.1	16.1 +- 3.6
24	70	4.2	17.9 +- 0.5; 2.7	13.3 +- 0.6; 4.0	15.1 +- 3.7
25	86	4.1	17.2 +- 0.5; 2.6	12.6 +- 0.6; 3.9	13.5 +- 3.4
26	125	5.0	18.5 +- 0.6; 2.8	13.9 +- 0.7; 4.1	14.2 +- 4.9
27	142	7.2	21.4 +- 0.6; 3.2	16.8 +- 0.7; 4.4	17.6 +- 3.9
28	161	6.1	17.0 +- 0.5; 2.6	12.5 +- 0.6; 3.9	15.4 +- 3.5
29	180	5.9	24.0 +- 0.7; 3.6	19.5 +- 0.8; 4.7	19.6 +- 4.4
30	187	5.8	22.6 +- 0.7; 3.4	18.0 +- 0.8; 4.5	20.7 +- 4.0
31	225	5.4	21.0 +- 0.6; 3.2	16.4 +- 0.7; 4.3	18.1 +- 3.5
32	253	4.0	18.1 +- 0.5; 2.7	13.5 +- 0.7; 4.0	15.8 +- 3.6
33	289	4.1	Missing Dosimeter	No Net Data	17.2 +- 4.0
34	315	4.0	19.5 +- 0.6; 2.9	14.9 +- 0.7; 4.2	16.6 +- 3.7
35	333	4.0	17.9 +- 0.5; 2.7	13.3 +- 0.6; 4.0	15.8 +- 4.1
36	0	5.5	16.8 +- 0.5; 2.5	12.2 +- 0.6; 3.9	15.5 +- 3.9
37	21	5.0	17.6 +- 0.5; 2.6	13.0 +- 0.6; 4.0	12.9 +- 4.3
38	224	14.7	17.6 +- 0.5; 2.6	13.1 +- 0.6; 4.0	14.9 +- 4.1
39	224	14.7	17.1 +- 0.5; 2.6	12.5 +- 0.6; 3.9	14.6 +- 3.5
40	187	10.3	21.8 +- 0.7; 3.3	17.2 +- 0.7; 4.4	18.6 +- 4.1

Transit Dose = 4.6 +- 0.4; 3.0

BRAIDWOOD

For the period 930609-931020

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	12.7 +- 0.6	2
11.26 - 33.75 NNE	14.6 +- 2.3	4
33.76 - 56.25 NE	13.6 +- 0.6	3
56.26 - 78.75 ENE	14.4 +- 1.5	3
78.76 - 101.25 E	12.7 +- 0.2	2
101.26 - 123.75 ESE	14.1 +- 1.4	2
123.76 - 146.25 SE	14.7 +- 1.8	3
146.26 - 168.75 SSE	13.2 +- 1.1	2
168.76 - 191.25 S	18.0 +- 1.4	3
191.26 - 213.75 SSW	13.5 +- 0.2	2
213.76 - 236.25 SW	14.0 +- 2.1	3
236.26 - 258.75 WSW	13.0 +- 0.7	2
258.76 - 281.25 W	13.3 +- 0.0	1
281.26 - 303.75 WNW	No Data +- No Data	0
303.76 - 326.25 NW	13.9 +- 1.4	2
326.26 - 348.75 NNW	13.5 +- 0.3	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	13.3 +- 0.6	11
2 - 5	14.1 +- 1.4	15
> 5	15.3 +- 2.5	10
Upwind Control	14.9 +- 3.3	2

NRC TLD DOSES FOR BRAIDWOOD AREA

Miles

Legend

Water

Highways

Railroads

Roads

Plant site

BROWNS FERRY
 TLD Direct Radiation Environmental Monitoring
 For the period 930608-931026 141 Days
 Field Time: 91 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	130	9.0	18.3 +- 0.5; 2.7	11.4 +- 0.7; 4.2	14.3 +- 1.7		
2	133	5.5	20.9 +- 0.6; 3.1	13.9 +- 0.8; 4.5	15.0 +- 2.0		
3	153	4.3	19.9 +- 0.6; 3.0	13.0 +- 0.7; 4.4	14.7 +- 2.0		
4	210	5.8	21.4 +- 0.6; 3.2	14.4 +- 0.8; 4.5	17.6 +- 2.1		
5	220	6.0	19.6 +- 0.6; 2.9	12.6 +- 0.7; 4.3	15.0 +- 2.0		
6	245	4.5	22.1 +- 0.7; 3.3	15.1 +- 0.8; 4.6	18.5 +- 2.2		
7	269	1.9	20.9 +- 0.6; 3.1	13.9 +- 0.8; 4.5	16.4 +- 2.0		
8	257	11.0	20.9 +- 0.6; 3.1	13.9 +- 0.8; 4.5	15.6 +- 2.0		
9	295	7.0	19.9 +- 0.6; 3.0	12.9 +- 0.7; 4.3	16.5 +- 2.3		
10	292	4.5	22.5 +- 0.7; 3.4	15.5 +- 0.8; 4.6	16.4 +- 2.0		
11	269	1.9	21.0 +- 0.6; 3.2	14.0 +- 0.8; 4.5	16.7 +- 2.0		
12	240	2.6	20.9 +- 0.6; 3.1	13.9 +- 0.8; 4.4	15.6 +- 2.1		
13	220	1.7	20.3 +- 0.6; 3.0	13.3 +- 0.7; 4.4	18.9 +- 2.7		
14	268	17.0	22.0 +- 0.7; 3.3	15.0 +- 0.8; 4.6	17.2 +- 2.1		
15	201	3.0	21.7 +- 0.7; 3.3	14.7 +- 0.8; 4.5	17.2 +- 2.0		
16	181	3.0	18.1 +- 0.5; 2.7	11.1 +- 0.7; 4.2	16.0 +- 2.2		
17	50	9.5	22.0 +- 0.7; 3.3	15.0 +- 0.8; 4.6	17.3 +- 2.0		
18	51	3.5	19.4 +- 0.6; 2.9	12.5 +- 0.7; 4.3	15.7 +- 1.7		
19	62	3.2	20.9 +- 0.6; 3.1	13.9 +- 0.8; 4.5	16.2 +- 2.1		
20	86	2.8	23.5 +- 0.7; 3.5	16.5 +- 0.8; 4.7	18.6 +- 2.1		
21	111	3.1	23.6 +- 0.7; 3.5	16.5 +- 0.8; 4.7	19.2 +- 2.3		
22	64	1.1	24.6 +- 0.7; 3.7	17.6 +- 0.8; 4.9	19.9 +- 2.1		
23	90	26.0	20.7 +- 0.6; 3.1	13.7 +- 0.7; 4.4	16.8 +- 2.3		
24	111	0.8	22.8 +- 0.7; 3.4	15.8 +- 0.8; 4.6	17.9 +- 1.9		
25	46	2.2	24.2 +- 0.7; 3.6	17.2 +- 0.8; 4.8	18.0 +- 2.2		
26	26	1.7	25.3 +- 0.8; 3.8	18.3 +- 0.9; 4.9	19.6 +- 2.4		
27	333	1.7	20.9 +- 0.6; 3.1	13.9 +- 0.8; 4.5	16.6 +- 2.0		
28	335	1.0	22.2 +- 0.7; 3.3	15.2 +- 0.8; 4.6	18.3 +- 2.5		
29	27	3.8	21.8 +- 0.7; 3.3	14.8 +- 0.8; 4.5	17.9 +- 2.1		
30	0	4.0	19.8 +- 0.6; 3.0	12.8 +- 0.7; 4.3	15.2 +- 1.9		
31	340	5.3	23.8 +- 0.7; 3.6	16.7 +- 0.8; 4.8	18.3 +- 2.1		
32	312	12.0	23.8 +- 0.7; 3.6	16.8 +- 0.8; 4.8	17.8 +- 2.4		
33	0	1.5	24.3 +- 0.7; 3.6	17.3 +- 0.8; 4.8	19.2 +- 2.1		
34	52	7.0	21.1 +- 0.6; 3.2	14.1 +- 0.8; 4.5	16.5 +- 2.4		
35	95	5.4	22.2 +- 0.7; 3.3	15.2 +- 0.8; 4.6	17.0 +- 2.1		
36	68	5.6	23.2 +- 0.7; 3.5	16.2 +- 0.8; 4.7	17.9 +- 2.3		
37	149	7.8	23.0 +- 0.7; 3.4	15.9 +- 0.8; 4.7	16.3 +- 2.0		
38	164	7.0	19.1 +- 0.6; 2.9	12.2 +- 0.7; 4.3	13.8 +- 2.1		

Transit Dose = 6.8 +- 0.4; 3.2

BROWNS FERRY

For the period 930608-931026

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	15.0 +- 3.2	2
11.26 - 33.75 NNE	16.5 +- 2.5	2
33.76 - 56.25 NE	14.7 +- 2.0	4
56.26 - 78.75 ENE	15.9 +- 1.9	3
78.76 - 101.25 E	15.1 +- 1.4	3
101.26 - 123.75 ESE	16.1 +- 0.5	2
123.76 - 146.25 SE	12.6 +- 1.8	2
146.26 - 168.75 SSE	13.7 +- 2.0	3
168.76 - 191.25 S	11.1 +- 0.0	1
191.26 - 213.75 SSW	14.6 +- 0.2	2
213.76 - 236.25 SW	13.0 +- 0.5	2
236.26 - 258.75 WSW	14.5 +- 0.9	2
258.76 - 281.25 W	14.0 +- 0.1	2
281.26 - 303.75 WNW	14.2 +- 1.8	2
303.76 - 326.25 NW	16.8 +- 0.0	1
326.26 - 348.75 NNW	15.3 +- 1.4	3

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	15.5 +- 1.9	9
2 - 5	14.4 +- 1.8	13
> 5	14.4 +- 1.7	14
Upwind Control	14.4 +- 0.8	2

NRC TLD DOSES FOR BROWNS FERRY AREA

Miles

Legend

Water
Highways

Railroads
Roads

Plant site

BRUNSWICK

TLD Direct Radiation Environmental Monitoring

For the period 930608-931026 141 Days

Field Time: 91 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	260 2.2	14.2 +- 0.4; 2.1	9.7 +- 0.5; 3.6	10.5 +- 1.5
2	245 3.4	12.4 +- 0.4; 1.9	7.9 +- 0.5; 3.5	10.5 +- 1.4
3	231 3.8	Missing Dosimeter	No Net Data	10.2 +- 1.4
4	210 4.9	15.4 +- 0.5; 2.3	10.9 +- 0.6; 3.7	12.9 +- 1.5
5	186 4.3	15.2 +- 0.5; 2.3	10.7 +- 0.6; 3.7	12.7 +- 1.7
6	270 4.5	13.7 +- 0.4; 2.1	9.2 +- 0.5; 3.6	10.5 +- 1.3
7	272 4.4	13.8 +- 0.4; 2.1	9.4 +- 0.5; 3.6	11.4 +- 1.4
8	73 1.3	15.8 +- 0.5; 2.4	11.3 +- 0.6; 3.8	12.6 +- 1.5
9	97 1.0	Missing Dosimeter	No Net Data	12.4 +- 1.4
10	120 1.5	15.6 +- 0.5; 2.3	11.1 +- 0.6; 3.8	12.6 +- 1.4
11	131 0.9	14.5 +- 0.4; 2.2	10.0 +- 0.6; 3.7	12.3 +- 1.3
12	156 1.1	15.4 +- 0.5; 2.3	10.9 +- 0.6; 3.7	12.8 +- 1.5
13	180 1.1	14.7 +- 0.4; 2.2	10.2 +- 0.6; 3.7	11.9 +- 1.3
14	194 2.4	15.4 +- 0.5; 2.3	10.9 +- 0.6; 3.7	11.7 +- 1.5
15	201 2.0	14.2 +- 0.4; 2.1	9.7 +- 0.5; 3.6	11.3 +- 1.4
16	218 1.2	Missing Dosimeter	No Net Data	12.6 +- 1.5
17	252 1.1	15.0 +- 0.4; 2.2	10.5 +- 0.6; 3.7	12.3 +- 1.4
18	272 1.2	14.0 +- 0.4; 2.1	9.5 +- 0.5; 3.6	12.1 +- 1.6
19	19 1.1	13.3 +- 0.4; 2.0	8.8 +- 0.5; 3.6	11.5 +- 1.4
20	2 1.1	14.4 +- 0.4; 2.2	9.9 +- 0.6; 3.7	11.2 +- 1.8
21	288 1.3	12.0 +- 0.4; 1.8	7.5 +- 0.5; 3.5	10.7 +- 1.8
22	307 1.5	14.4 +- 0.4; 2.2	9.9 +- 0.6; 3.7	10.9 +- 1.4
23	338 2.1	15.2 +- 0.5; 2.3	10.7 +- 0.6; 3.7	12.0 +- 1.5
24	325 4.9	13.8 +- 0.4; 2.1	9.3 +- 0.5; 3.6	10.8 +- 1.3
25	338 3.8	14.5 +- 0.4; 2.2	10.0 +- 0.6; 3.7	12.0 +- 1.4
26	356 5.2	13.8 +- 0.4; 2.1	9.3 +- 0.5; 3.6	11.1 +- 1.3
27	30 6.4	14.3 +- 0.4; 2.1	9.8 +- 0.6; 3.6	10.7 +- 1.5
28	43 9.0	15.5 +- 0.5; 2.3	11.0 +- 0.6; 3.8	12.3 +- 1.9
29	50 8.5	15.0 +- 0.5; 2.3	10.5 +- 0.6; 3.7	11.7 +- 1.7
30	59 7.2	13.8 +- 0.4; 2.1	9.3 +- 0.5; 3.6	12.0 +- 1.6
31	65 6.5	13.6 +- 0.4; 2.0	9.1 +- 0.5; 3.6	12.0 +- 1.4
32	74 5.8	15.2 +- 0.5; 2.3	10.7 +- 0.6; 3.7	12.7 +- 1.8
33	88 4.1	14.0 +- 0.4; 2.1	9.6 +- 0.5; 3.6	11.2 +- 1.7
34	12 17.0	14.9 +- 0.4; 2.2	10.4 +- 0.6; 3.7	12.4 +- 1.4
35	16 18.0	13.4 +- 0.4; 2.0	8.9 +- 0.5; 3.6	11.0 +- 1.5
36	284 15.0	14.5 +- 0.4; 2.2	10.0 +- 0.6; 3.7	12.4 +- 2.1
37	284 16.0	Missing Dosimeter	No Net Data	13.1 +- 1.7
38	284 15.0	15.3 +- 0.5; 2.3	10.8 +- 0.6; 3.7	12.2 +- 1.5
39	287 4.6	14.8 +- 0.4; 2.2	10.3 +- 0.6; 3.7	11.1 +- 1.4
40	271 0.7	15.9 +- 0.5; 2.4	11.4 +- 0.6; 3.8	13.2 +- 1.6

Transit Dose = 4.4 +- 0.4; 3.0

BRUNSWICK
For the period 930608-931026

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	9.6 +- 0.4	2
11.26 - 33.75 NNE	9.5 +- 0.8	4
33.76 - 56.25 NE	10.8 +- 0.3	2
56.26 - 78.75 ENE	10.1 +- 1.1	4
78.76 - 101.25 E	9.6 +- 0.0	1
101.26 - 123.75 ESE	11.1 +- 0.0	1
123.76 - 146.25 SE	10.0 +- 0.0	1
146.26 - 168.75 SSE	10.9 +- 0.0	1
168.76 - 191.25 S	10.4 +- 0.3	2
191.26 - 213.75 SSW	10.5 +- 0.7	3
213.76 - 236.25 SW	No Data +- No Data	0
236.26 - 258.75 WSW	9.2 +- 1.8	2
258.76 - 281.25 W	9.8 +- 0.9	5
281.26 - 303.75 WNW	8.9 +- 1.9	2
303.76 - 326.25 NW	9.6 +- 0.4	2
326.26 - 348.75 NNW	10.4 +- 0.5	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	10.1 +- 1.1	13
2 - 5	9.9 +- 0.9	12
> 5	9.9 +- 0.8	9
Upwind Control	10.4 +- 0.6	2

BYRON

For the period 930607-931021

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	16.4 +- 0.8	2
11.26 - 33.75 NNE	15.5 +- 1.6	3
33.76 - 56.25 NE	15.7 +- 1.9	4
56.26 - 78.75 ENE	16.3 +- 3.5	2
78.76 - 101.25 E	17.1 +- 1.0	2
101.26 - 123.75 ESE	17.7 +- 0.8	2
123.76 - 146.25 SE	16.8 +- 0.0	1
146.26 - 168.75 SSE	16.4 +- 0.0	1
168.76 - 191.25 S	16.2 +- 1.5	4
191.26 - 213.75 SSW	14.7 +- 0.9	3
213.76 - 236.25 SW	16.6 +- 1.4	3
236.26 - 258.75 WSW	16.5 +- 1.1	2
258.76 - 281.25 W	16.8 +- 2.3	2
281.26 - 303.75 WNW	16.1 +- 0.8	3
303.76 - 326.25 NW	15.1 +- 0.9	2
326.26 - 348.75 NNW	17.1 +- 0.0	1

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	16.9 +- 1.3	15
2 - 5	15.9 +- 1.3	17
> 5	15.0 +- 1.4	5
Upwind Control	16.5 +- 2.2	3

CALLAWAY
 TLD Direct Radiation Environmental Monitoring
 For the period 930607-931026 142 Days
 Field Time: 93 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	247	23.6 +- 0.7; 3.5	19.3 +- 0.8; 4.5	20.9 +- 2.8
2	259	24.2 +- 0.7; 3.6	19.9 +- 0.8; 4.5	19.5 +- 2.2
3	282	22.5 +- 0.7; 3.4	18.2 +- 0.7; 4.4	19.6 +- 1.7
4	304	23.1 +- 0.7; 3.5	18.8 +- 0.7; 4.4	20.4 +- 2.8
5	330	24.3 +- 0.7; 3.6	20.0 +- 0.8; 4.6	18.2 +- 2.0
6	1	22.4 +- 0.7; 3.4	18.1 +- 0.7; 4.4	17.1 +- 0.8
7	23	20.9 +- 0.6; 3.1	16.7 +- 0.7; 4.2	17.1 +- 1.0
8	77	22.3 +- 0.7; 3.4	18.1 +- 0.7; 4.3	17.8 +- 0.8
9	85	24.8 +- 0.7; 3.7	20.5 +- 0.8; 4.6	18.7 +- 1.1
10	98	22.9 +- 0.7; 3.4	18.7 +- 0.7; 4.4	17.2 +- 0.9
11	121	21.8 +- 0.7; 3.3	17.6 +- 0.7; 4.3	18.5 +- 2.8
12	140	21.0 +- 0.6; 3.1	16.8 +- 0.7; 4.2	18.4 +- 2.0
13	158	20.6 +- 0.6; 3.1	16.4 +- 0.7; 4.2	17.8 +- 1.0
14	183	Missing Dosimeter	No Net Data	19.0 +- 1.1
15	188	24.7 +- 0.7; 3.7	20.4 +- 0.8; 4.6	18.5 +- 1.1
16	202	23.2 +- 0.7; 3.5	18.9 +- 0.7; 4.4	17.4 +- 1.0
17	237	23.5 +- 0.7; 3.5	19.2 +- 0.8; 4.5	19.1 +- 1.9
18	312	23.3 +- 0.7; 3.5	19.0 +- 0.8; 4.5	17.7 +- 1.8
19	292	22.8 +- 0.7; 3.4	18.5 +- 0.7; 4.4	17.5 +- 1.0
20	268	22.5 +- 0.7; 3.4	18.3 +- 0.7; 4.4	18.0 +- 0.8
21	247	22.2 +- 0.7; 3.3	17.9 +- 0.7; 4.3	20.0 +- 2.2
22	225	22.5 +- 0.7; 3.4	18.2 +- 0.7; 4.4	17.6 +- 1.0
23	220	24.7 +- 0.7; 3.7	20.3 +- 0.8; 4.6	19.2 +- 2.0
24	205	16.2 +- 0.5; 2.4	12.2 +- 0.6; 3.7	16.5 +- 2.2
25	157	17.7 +- 0.5; 2.7	13.6 +- 0.6; 3.9	20.4 +- 2.2
26	134	21.3 +- 0.6; 3.2	17.1 +- 0.7; 4.2	16.1 +- 0.9
27	115	24.3 +- 0.7; 3.6	20.0 +- 0.8; 4.6	20.8 +- 2.4
28	95	23.9 +- 0.7; 3.6	19.6 +- 0.8; 4.5	20.7 +- 2.1
29	67	25.8 +- 0.8; 3.9	21.4 +- 0.8; 4.7	19.4 +- 1.0
30	48	22.0 +- 0.7; 3.3	17.8 +- 0.7; 4.3	16.7 +- 0.8
31	14	24.0 +- 0.7; 3.6	19.7 +- 0.8; 4.5	18.8 +- 1.0
32	2	24.6 +- 0.7; 3.7	20.3 +- 0.8; 4.6	18.7 +- 0.9
33	335	22.2 +- 0.7; 3.3	17.9 +- 0.7; 4.3	16.2 +- 1.0
34	288	22.2 +- 0.7; 3.3	17.9 +- 0.7; 4.3	18.8 +- 1.1
35	310	24.2 +- 0.7; 3.6	19.9 +- 0.8; 4.6	18.7 +- 1.1
36	264	17.9 +- 0.5; 2.7	13.8 +- 0.6; 3.9	14.4 +- 1.1
37	237	24.7 +- 0.7; 3.7	20.4 +- 0.8; 4.6	19.6 +- 1.8
38	270	Missing Dosimeter	No Net Data	16.3 +- 1.8
39	270	Missing Dosimeter	No Net Data	16.4 +- 2.7
40	203	23.9 +- 0.7; 3.6	19.6 +- 0.8; 4.5	18.4 +- 0.8

Transit Dose = 3.6 +- 0.3; 3.0

CALLAWAY

For the period 930607-931026

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	19.2 +- 1.6	2
11.26 - 33.75 NNE	18.2 +- 2.1	2
33.76 - 56.25 NE	17.8 +- 0.0	1
56.26 - 78.75 ENE	19.8 +- 2.4	2
78.76 - 101.25 E	19.6 +- 0.9	3
101.26 - 123.75 ESE	18.8 +- 1.7	2
123.76 - 146.25 SE	16.9 +- 0.2	2
146.26 - 168.75 SSE	15.0 +- 2.0	2
168.76 - 191.25 S	20.4 +- 0.0	1
191.26 - 213.75 SSW	15.6 +- 4.7	2
213.76 - 236.25 SW	19.3 +- 1.5	2
236.26 - 258.75 WSW	19.2 +- 1.0	4
258.76 - 281.25 W	17.3 +- 3.1	3
281.26 - 303.75 WNW	18.2 +- 0.3	3
303.76 - 326.25 NW	19.2 +- 0.6	3
326.26 - 348.75 NNW	19.0 +- 1.4	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	18.7 +- 1.2	14
2 - 5	17.9 +- 2.5	12
> 5	18.4 +- 2.4	10
Upwind Control	19.6 +- 0.0	1

NRC TLD DOSES FOR CALLAWAY AREA

Miles

Legend

Water	Railroads	Plant site
Highways	Roads	

CALVERT CLIFFS
 TLD Direct Radiation Environmental Monitoring
 For the period 930608-931021 136 Days
 Field Time: 92 Days

NRC Sta	Location Azimuth/Dist (Deg)/(Mi)	Gross Exposure (mR)		Net Exposure Rate (mR/Std. Qtr.)		Hist. Range Net Exp Rate +-1 Std Dev	
		+ -Rdm;	Tot.	+ -Rdm;	Tot.	+ -1 Std	Dev
1	275	1.5	15.9 +- 0.5;	13.8 +- 0.5;	3.6	13.1	+- 3.2
3	284	1.7	15.4 +- 0.5;	13.3 +- 0.5;	3.6	12.7	+- 2.9
4	323	2.4	17.5 +- 0.5;	15.4 +- 0.6;	3.8	12.9	+- 2.6
5	297	3.1	16.3 +- 0.5;	14.2 +- 0.6;	3.6	13.3	+- 3.1
6	324	4.7	16.3 +- 0.5;	14.2 +- 0.6;	3.6	13.4	+- 3.1
7	324	5.5	16.2 +- 0.5;	14.1 +- 0.5;	3.6	11.9	+- 2.8
8	256	6.1	13.9 +- 0.4;	11.9 +- 0.5;	3.4	11.5	+- 3.1
9	273	4.1	17.0 +- 0.5;	14.9 +- 0.6;	3.7	12.5	+- 2.6
10	253	3.7	17.4 +- 0.5;	15.3 +- 0.6;	3.8	14.1	+- 3.1
11	230	4.0	18.2 +- 0.5;	16.1 +- 0.6;	3.8	14.0	+- 2.8
12	243	1.3	18.5 +- 0.6;	16.4 +- 0.6;	3.9	13.6	+- 2.7
13	222	1.5	17.1 +- 0.5;	15.0 +- 0.6;	3.7	14.6	+- 3.2
14	208	1.8	16.1 +- 0.5;	14.0 +- 0.5;	3.6	11.4	+- 2.4
15	176	2.4	19.7 +- 0.6;	17.5 +- 0.6;	4.0	15.7	+- 3.5
16	160	1.5	20.6 +- 0.6;	18.4 +- 0.7;	4.1	14.9	+- 3.0
19	159	3.8	18.1 +- 0.5;	15.9 +- 0.6;	3.8	13.3	+- 2.7
20	139	4.7	17.9 +- 0.4;	12.9 +- 0.5;	3.5	12.0	+- 2.6
21	201	4.0	17.9 +- 0.5;	15.8 +- 0.6;	3.8	12.8	+- 2.6
22	187	4.7	16.6 +- 0.5;	14.5 +- 0.6;	3.7	12.4	+- 2.4
23	201	8.7	18.1 +- 0.5;	15.9 +- 0.6;	3.8	13.3	+- 2.7
24	190	7.8	Missing Dosimeter	No Net Data		11.7	+- 2.4
25	325	6.7	17.8 +- 0.5;	15.7 +- 0.6;	3.8	12.5	+- 2.6
26	314	11.0	16.9 +- 0.5;	14.8 +- 0.6;	3.7	11.9	+- 2.4
27	314	11.0	16.0 +- 0.5;	14.0 +- 0.5;	3.6	12.1	+- 2.4
28	315	10.0	17.5 +- 0.5;	15.4 +- 0.6;	3.8	14.5	+- 3.2
29	186	12.0	19.2 +- 0.6;	17.1 +- 0.6;	3.9	14.4	+- 3.0

Transit Dose =

1.8 +- 0.3; 2.8

CALVERT CLIFFS
For the period 930608-931021

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	No Data +- No Data	0
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	12.9 +- 0.0	1
146.26 - 168.75 SSE	17.2 +- 1.7	2
168.76 - 191.25 S	16.4 +- 1.6	3
191.26 - 213.75 SSW	15.2 +- 1.1	3
213.76 - 236.25 SW	15.5 +- 0.7	2
236.26 - 258.75 WSW	14.5 +- 2.3	3
258.76 - 281.25 W	14.4 +- 0.8	2
281.26 - 303.75 WNW	13.7 +- 0.6	2
303.76 - 326.25 NW	14.8 +- 0.8	4
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	15.1 +- 1.9	6
2 - 5	15.2 +- 1.2	11
> 5	14.9 +- 2.0	5
Upwind Control	14.7 +- 0.7	3

NRC TLD DOSES FOR CALVERT CLIFFS AREA

Miles

Legend

Water
Highways

Railroads
Roads

Plant..site

CATAWBA

TLD Direct Radiation Environmental Monitoring

For the period 930608-931021 136 Days

Field Time: 105 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	134	0.1	27.1	+- 0.8; 4.1	20.6	+- 0.8; 4.5	18.6	+- 3.6
2	162	0.4	Missing Dosimeter		No Net Data		15.5	+- 3.0
3	132	0.8	26.8	+- 0.8; 4.0	20.4	+- 0.8; 4.5	18.3	+- 3.5
4	111	1.3	22.6	+- 0.7; 3.4	16.8	+- 0.7; 4.1	15.8	+- 2.8
5	45	0.7	23.0	+- 0.7; 3.5	17.1	+- 0.7; 4.1	15.8	+- 2.5
6	298	1.3	25.1	+- 0.8; 3.8	18.9	+- 0.7; 4.3	17.3	+- 2.9
7	4	0.6	21.6	+- 0.6; 3.2	15.9	+- 0.6; 4.0	15.0	+- 3.1
8	332	1.5	24.2	+- 0.7; 3.6	18.1	+- 0.7; 4.2	19.4	+- 3.1
9	318	1.6	19.7	+- 0.6; 3.0	14.3	+- 0.6; 3.8	12.5	+- 3.1
10	176	1.8	24.8	+- 0.7; 3.7	18.7	+- 0.7; 4.3	16.6	+- 3.3
11	203	1.5	23.9	+- 0.7; 3.6	17.9	+- 0.7; 4.2	16.9	+- 2.7
12	225	1.5	22.9	+- 0.7; 3.4	17.1	+- 0.7; 4.1	17.0	+- 3.2
13	250	1.9	22.0	+- 0.7; 3.3	16.3	+- 0.6; 4.0	14.2	+- 3.4
14	270	1.4	19.5	+- 0.6; 2.9	14.1	+- 0.6; 3.8	12.5	+- 3.1
15	331	3.0	23.0	+- 0.7; 3.4	17.1	+- 0.7; 4.1	13.9	+- 3.3
16	311	3.9	19.5	+- 0.6; 2.9	14.2	+- 0.6; 3.8	13.1	+- 3.3
17	296	9.5	26.3	+- 0.8; 3.9	20.0	+- 0.7; 4.4	17.9	+- 3.0
18	324	4.8	22.3	+- 0.7; 3.3	16.5	+- 0.6; 4.0	15.2	+- 3.4
19	352	4.8	19.6	+- 0.6; 2.9	14.2	+- 0.6; 3.8	13.1	+- 3.2
20	22	4.0	23.5	+- 0.7; 3.5	17.5	+- 0.7; 4.1	16.6	+- 3.3
21	290	3.9	22.6	+- 0.7; 3.4	16.8	+- 0.7; 4.1	14.9	+- 2.9
22	266	4.0	24.0	+- 0.7; 3.6	18.0	+- 0.7; 4.2	15.9	+- 3.1
23	251	4.0	17.4	+- 0.5; 2.6	12.3	+- 0.5; 3.6	11.1	+- 3.3
24	229	3.9	17.9	+- 0.5; 2.7	12.7	+- 0.5; 3.6	12.0	+- 3.3
25	202	4.4	22.8	+- 0.7; 3.4	16.9	+- 0.7; 4.1	17.2	+- 2.6
26	51	4.3	25.1	+- 0.8; 3.8	18.9	+- 0.7; 4.3	18.0	+- 2.8
27	64	7.9	17.7	+- 0.5; 2.7	12.6	+- 0.5; 3.6	11.5	+- 2.8
28	61	4.9	22.1	+- 0.7; 3.3	16.4	+- 0.6; 4.0	15.1	+- 3.1
29	49	1.9	21.3	+- 0.6; 3.2	15.6	+- 0.6; 3.9	15.0	+- 3.9
30	64	1.8	20.8	+- 0.6; 3.1	15.3	+- 0.6; 3.9	14.8	+- 2.9
31	87	1.6	22.6	+- 0.7; 3.4	16.8	+- 0.7; 4.1	14.1	+- 2.9
32	121	2.6	22.1	+- 0.7; 3.3	16.3	+- 0.6; 4.0	15.2	+- 3.0
33	114	7.6	Missing Dosimeter		No Net Data		14.6	+- 3.2
34	93	4.5	24.6	+- 0.7; 3.7	18.5	+- 0.7; 4.2	16.9	+- 3.5
35	132	4.3	27.5	+- 0.8; 4.1	20.9	+- 0.8; 4.5	20.4	+- 3.0
36	163	8.9	17.0	+- 0.5; 2.6	12.0	+- 0.5; 3.6	12.3	+- 2.8
37	173	4.9	19.1	+- 0.6; 2.9	13.8	+- 0.6; 3.7	13.5	+- 2.6
38	157	4.6	23.8	+- 0.7; 3.6	17.8	+- 0.7; 4.2	18.1	+- 2.5
39	248	10.0	Missing Dosimeter		No Net Data		16.2	+- 3.6
40	229	12.0	20.5	+- 0.6; 3.1	15.0	+- 0.6; 3.9	15.1	+- 2.5
41	218	13.0	Missing Dosimeter		No Net Data		12.7	+- 3.4
42	213	16.0	20.5	+- 0.6; 3.1	15.0	+- 0.6; 3.9	15.5	+- 2.5

Transit Dose = 3.0 +- 0.4; 3.3

CATAWBA

For the period 930608-931021

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	15.1 +- 1.2	2
11.26 - 33.75 NNE	17.5 +- 0.0	1
33.76 - 56.25 NE	17.2 +- 1.6	3
56.26 - 78.75 ENE	14.7 +- 1.9	3
78.76 - 101.25 E	17.6 +- 1.2	2
101.26 - 123.75 ESE	16.6 +- 0.3	2
123.76 - 146.25 SE	20.7 +- 0.3	3
146.26 - 168.75 SSE	14.9 +- 4.1	2
168.76 - 191.25 S	16.2 +- 3.5	2
191.26 - 213.75 SSW	17.4 +- 0.7	2
213.76 - 236.25 SW	14.9 +- 3.0	2
236.26 - 258.75 WSW	14.3 +- 2.8	2
258.76 - 281.25 W	16.0 +- 2.7	2
281.26 - 303.75 WNW	18.6 +- 1.6	3
303.76 - 326.25 NW	15.0 +- 1.3	3
326.26 - 348.75 NNW	17.6 +- 0.7	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	17.1 +- 1.9	16
2 - 5	16.4 +- 2.3	17
> 5	14.9 +- 4.4	3
Upwind Control	15.0 +- 0.0	2

NRC TLD DOSES FOR CATAWBA AREA

Miles

Legend

Water

Railroads

Plant..site

Highways

Roads

CLINTON
 TLD Direct Radiation Environmental Monitoring
 For the period 930607-931019 135 Days
 Field Time: 84 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	5	0.6	22.1 +- 0.7; 3.3	18.9 +- 2.5
2	40	0.7	21.3 +- 0.6; 3.2	18.7 +- 1.6
3	35	0.8	24.6 +- 0.7; 3.7	21.2 +- 1.9
4	163	0.5	21.5 +- 0.6; 3.2	19.4 +- 1.8
5	210	0.5	23.3 +- 0.7; 3.5	19.5 +- 1.9
6	223	0.6	22.7 +- 0.7; 3.4	19.5 +- 1.8
7	235	0.8	22.8 +- 0.7; 3.4	18.8 +- 1.6
8	62	1.9	22.0 +- 0.7; 3.3	18.5 +- 1.6
9	78	1.8	21.8 +- 0.7; 3.3	18.4 +- 1.5
10	79	2.6	20.5 +- 0.6; 3.1	18.8 +- 2.1
11	100	2.3	22.0 +- 0.7; 3.3	18.5 +- 1.5
12	115	3.0	19.4 +- 0.6; 2.9	16.5 +- 2.0
13	127	3.2	22.7 +- 0.7; 3.4	18.5 +- 1.6
14	155	2.1	22.1 +- 0.7; 3.3	18.9 +- 1.6
15	185	3.0	21.8 +- 0.7; 3.3	19.3 +- 2.1
16	203	3.2	21.8 +- 0.7; 3.3	18.0 +- 1.7
17	230	3.7	21.8 +- 0.7; 3.3	17.9 +- 1.8
18	255	2.8	23.3 +- 0.7; 3.5	19.1 +- 1.7
19	275	2.3	22.1 +- 0.7; 3.3	18.5 +- 1.6
20	302	0.9	21.9 +- 0.7; 3.3	18.0 +- 1.6
21	336	0.8	21.8 +- 0.7; 3.3	17.9 +- 1.8
22	0	0.6	22.5 +- 0.7; 3.4	18.6 +- 2.0
23	358	4.6	22.1 +- 0.7; 3.3	19.1 +- 1.8
24	20	3.9	22.1 +- 0.7; 3.3	18.9 +- 1.7
25	46	5.0	21.7 +- 0.7; 3.3	18.3 +- 1.5
26	62	5.5	20.4 +- 0.6; 3.1	17.0 +- 1.6
27	90	4.8	21.2 +- 0.6; 3.2	17.7 +- 1.8
28	115	5.2	21.2 +- 0.6; 3.2	17.4 +- 1.5
29	128	5.1	21.5 +- 0.6; 3.2	18.2 +- 1.7
30	153	5.8	20.8 +- 0.6; 3.1	18.5 +- 1.7
31	173	5.2	22.0 +- 0.7; 3.3	18.0 +- 1.5
32	205	4.7	21.9 +- 0.7; 3.3	18.1 +- 1.6
33	238	6.1	21.8 +- 0.7; 3.3	18.2 +- 1.7
34	252	5.8	19.7 +- 0.6; 3.0	15.1 +- 2.3
35	260	6.6	18.4 +- 0.6; 2.8	13.7 +- 1.8
36	272	4.8	22.1 +- 0.7; 3.3	17.7 +- 1.7
37	288	4.8	21.3 +- 0.6; 3.2	16.8 +- 1.6
38	297	7.6	20.5 +- 0.6; 3.1	16.0 +- 1.6
39	315	5.1	20.8 +- 0.6; 3.1	16.3 +- 1.6
40	342	4.8	20.9 +- 0.6; 3.1	16.4 +- 1.6
41	65	12.0	20.9 +- 0.6; 3.1	16.4 +- 1.6
42	148	12.0	21.9 +- 0.7; 3.3	17.5 +- 1.7
43	148	12.0	21.4 +- 0.6; 3.2	16.9 +- 1.6
44	206	14.0	18.8 +- 0.6; 2.8	14.1 +- 0.7; 4.3

Transit Dose = 5.6 +- 0.4; 2.9

CLINTON

For the period 930607-931019

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) $\pm$ Std.Dev.	Number In Group
348.76 - 11.25 N	17.8 $\pm$ 0.2	3
11.26 - 33.75 NNE	17.7 $\pm$ 0.0	1
33.76 - 56.25 NE	18.1 $\pm$ 1.9	3
56.26 - 78.75 ENE	16.8 $\pm$ 0.8	4
78.76 - 101.25 E	16.7 $\pm$ 0.8	3
101.26 - 123.75 ESE	15.8 $\pm$ 1.4	2
123.76 - 146.25 SE	17.7 $\pm$ 0.9	2
146.26 - 168.75 SSE	17.0 $\pm$ 0.7	3
168.76 - 191.25 S	17.4 $\pm$ 0.1	2
191.26 - 213.75 SSW	17.9 $\pm$ 0.9	3
213.76 - 236.25 SW	18.0 $\pm$ 0.6	3
236.26 - 258.75 WSW	17.2 $\pm$ 1.9	3
258.76 - 281.25 W	16.3 $\pm$ 2.3	3
281.26 - 303.75 WNW	16.8 $\pm$ 0.7	3
303.76 - 326.25 NW	16.3 $\pm$ 0.0	1
326.26 - 348.75 NNW	16.9 $\pm$ 0.6	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) $\pm$ Std.Dev.	Number In Group
0 - 2	17.9 $\pm$ 1.0	12
2 - 5	17.3 $\pm$ 0.9	18
> 5	16.2 $\pm$ 1.1	11
Upwind Control	16.2 $\pm$ 1.8	3

NRC TLD DOSES FOR CLINTON AREA

COMANCHE PEAK

TLD Direct Radiation Environmental Monitoring

For the period 930607-931027 143 Days

Field Time: 92 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	306 1.4	21.8 +- 0.7; 3.3	No Net Data	15.2 +- 1.0
2	285 1.5	22.0 +- 0.7; 3.3	No Net Data	15.5 +- 1.3
3	268 1.1	18.2 +- 0.5; 2.7	No Net Data	14.3 +- 0.9
4	253 0.9	20.7 +- 0.6; 3.1	No Net Data	15.4 +- 1.2
5	218 1.0	20.5 +- 0.6; 3.1	No Net Data	15.7 +- 1.3
6	200 1.0	20.5 +- 0.6; 3.1	No Net Data	13.5 +- 1.1
7	180 1.4	18.8 +- 0.6; 2.8	No Net Data	13.8 +- 1.2
8	163 1.6	22.5 +- 0.7; 3.4	No Net Data	15.7 +- 1.3
9	140 1.3	20.9 +- 0.6; 3.1	No Net Data	15.6 +- 0.9
10	118 1.5	20.7 +- 0.6; 3.1	No Net Data	13.6 +- 1.1
11	93 1.9	18.9 +- 0.6; 2.8	No Net Data	14.7 +- 2.8
12	73 2.4	22.6 +- 0.7; 3.4	No Net Data	17.2 +- 1.1
13	245 1.7	20.5 +- 0.6; 3.1	No Net Data	14.0 +- 1.0
14	156 4.3	18.4 +- 0.6; 2.8	No Net Data	13.9 +- 1.2
15	186 7.0	20.5 +- 0.6; 3.1	No Net Data	14.9 +- 1.5
16	183 4.1	19.4 +- 0.6; 2.9	No Net Data	16.0 +- 1.5
17	205 4.3	20.2 +- 0.6; 3.0	No Net Data	15.3 +- 0.9
18	225 3.4	16.6 +- 0.5; 2.5	No Net Data	12.9 +- 1.2
19	245 5.2	20.5 +- 0.6; 3.1	No Net Data	15.4 +- 0.8
20	264 5.8	18.8 +- 0.6; 2.8	No Net Data	13.7 +- 0.9
21	258 3.2	18.9 +- 0.6; 2.8	No Net Data	13.7 +- 1.1
22	284 5.1	18.7 +- 0.6; 2.8	No Net Data	13.4 +- 1.1
23	313 5.8	21.1 +- 0.6; 3.2	No Net Data	15.0 +- 1.0
24	332 4.9	20.2 +- 0.6; 3.0	No Net Data	14.2 +- 1.0
25	9 4.6	21.5 +- 0.6; 3.2	No Net Data	14.9 +- 1.3
26	26 4.5	21.2 +- 0.6; 3.2	No Net Data	14.5 +- 1.2
27	47 4.1	21.1 +- 0.6; 3.2	No Net Data	14.2 +- 1.1
28	6 1.8	22.6 +- 0.7; 3.4	No Net Data	14.8 +- 1.1
29	16 1.9	20.8 +- 0.6; 3.1	No Net Data	14.5 +- 1.2
30	102 3.0	21.2 +- 0.6; 3.2	No Net Data	15.5 +- 1.4
31	108 3.9	21.6 +- 0.6; 3.2	No Net Data	14.9 +- 1.4
32	135 4.6	20.4 +- 0.6; 3.1	No Net Data	15.6 +- 1.4
33	152 6.3	19.1 +- 0.6; 2.9	No Net Data	13.7 +- 1.1
34	47 2.9	18.9 +- 0.6; 2.8	No Net Data	13.4 +- 1.5
35	85 4.8	20.3 +- 0.6; 3.0	No Net Data	15.1 +- 1.5
36	115 7.5	20.7 +- 0.6; 3.1	No Net Data	15.0 +- 1.4
37	355 9.4	19.5 +- 0.6; 2.9	No Net Data	14.6 +- 2.7
38	337 9.2	19.1 +- 0.6; 2.9	No Net Data	14.3 +- 1.4
39	310 9.9	20.4 +- 0.6; 3.1	No Net Data	14.5 +- 1.5
40	302 8.1	18.1 +- 0.5; 2.7	No Net Data	13.8 +- 1.6
41	248 7.9	21.5 +- 0.6; 3.2	No Net Data	15.9 +- 1.3
42	90 0.5	20.0 +- 0.6; 3.0	No Net Data	13.9 +- 1.6
43	18 9.8	19.1 +- 0.6; 2.9	No Net Data	15.0 +- 1.5
44	263 1.7	20.8 +- 0.6; 3.1	No Net Data	13.2 +- 1.6
45	218 12.0	18.9 +- 0.6; 2.8	No Net Data	15.0 +- 1.4
46	140 12.0	20.0 +- 0.6; 3.0	No Net Data	14.7 +- 1.4
47	301 21.0	18.7 +- 0.6; 2.8	No Net Data	14.7 +- 1.4

No Transit Dose Calculated. (TLD Control Is Missing.)

COMANCHE PEAK
For the period 930607-931027

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	13.4 +- 1.0	3
11.26 - 33.75 NNE	12.8 +- 0.7	3
33.76 - 56.25 NE	12.6 +- 1.0	2
56.26 - 78.75 ENE	14.2 +- 0.0	1
78.76 - 101.25 E	12.4 +- 0.5	3
101.26 - 123.75 ESE	13.3 +- 0.3	4
123.76 - 146.25 SE	12.9 +- 0.3	3
146.26 - 168.75 SSE	12.6 +- 1.4	3
168.76 - 191.25 S	12.3 +- 0.5	3
191.26 - 213.75 SSW	12.8 +- 0.1	2
213.76 - 236.25 SW	11.8 +- 1.2	3
236.26 - 258.75 WSW	12.8 +- 0.6	5
258.76 - 281.25 W	12.1 +- 0.9	3
281.26 - 303.75 WNW	12.2 +- 1.1	4
303.76 - 326.25 NW	13.3 +- 0.5	3
326.26 - 348.75 NNW	12.3 +- 0.5	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	13.0 +- 0.8	16
2 - 5	12.7 +- 1.0	15
> 5	12.4 +- 0.6	16
Upwind Control	No Data +- No Data	0

NRC TLD DOSES FOR COMANCHE PEAK AREA

Miles

0 2 4

Legend

Water

Highways

Railroads

Roads

Plant site

COOPER

TLD Direct Radiation Environmental Monitoring

For the period 930607-931021 137 Days

Field Time: 53 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	363	2.4	26.1	+-	0.8; 3.9	17.5	+-	1.7; 8.7	19.1	+- 3.9
2	6	3.5	39.0	+-	1.2; 5.8	39.3	+-	2.2; 11.4*	20.7	+- 3.5
3	18	2.7	27.0	+-	0.8; 4.0	18.9	+-	1.7; 8.9	21.2	+- 3.6
4	16	3.2	29.4	+-	0.9; 4.4	23.1	+-	1.8; 9.4	21.1	+- 3.3
5	47	1.9	27.8	+-	0.8; 4.2	20.4	+-	1.8; 9.1	21.0	+- 3.4
6	40	3.6	26.2	+-	0.8; 3.9	17.7	+-	1.7; 8.8	20.3	+- 3.4
7	75	2.7	26.4	+-	0.8; 4.0	17.9	+-	1.7; 8.8	20.4	+- 3.7
8	55	2.8	26.1	+-	0.8; 3.9	17.3	+-	1.7; 8.7	20.4	+- 3.6
9	80	2.1	28.7	+-	0.9; 4.3	21.9	+-	1.8; 9.3	21.8	+- 3.5
10	98	3.7	39.0	+-	1.2; 5.9	39.4	+-	2.2; 11.4*	20.2	+- 3.4
11	118	2.3	40.2	+-	1.2; 6.0	41.4	+-	2.3; 11.7*	21.6	+- 3.4
12	109	4.6	42.3	+-	1.3; 6.3	44.9	+-	2.4; 12.2*	21.5	+- 3.2
13	141	3.2	27.7	+-	0.8; 4.2	20.2	+-	1.7; 9.1	21.1	+- 3.3
14	126	5.6	39.0	+-	1.2; 5.9	39.4	+-	2.2; 11.4*	19.0	+- 2.7
15	159	2.7	27.1	+-	0.8; 4.1	19.1	+-	1.7; 8.9	20.3	+- 3.6
16	167	4.9	29.1	+-	0.9; 4.4	22.5	+-	1.8; 9.3	21.3	+- 3.6
17	205	0.3	27.4	+-	0.8; 4.1	19.6	+-	1.7; 9.0	20.6	+- 3.0
18	186	4.7	27.3	+-	0.8; 4.1	19.5	+-	1.7; 9.0	21.7	+- 3.6
19	213	3.0	27.6	+-	0.8; 4.1	20.0	+-	1.7; 9.0	20.7	+- 3.3
20	195	4.9	27.4	+-	0.8; 4.1	19.6	+-	1.7; 9.0	21.7	+- 3.3
21	222	2.0	26.8	+-	0.8; 4.0	18.6	+-	1.7; 8.9	19.6	+- 3.2
22	215	5.7	28.0	+-	0.8; 4.2	20.7	+-	1.8; 9.1	21.8	+- 3.6
23	256	1.5	28.3	+-	0.9; 4.3	21.2	+-	1.8; 9.2	21.3	+- 3.5
24	238	5.2	27.7	+-	0.8; 4.2	20.1	+-	1.7; 9.0	21.6	+- 3.8
25	276	2.2	26.5	+-	0.8; 4.0	18.1	+-	1.7; 8.8	22.0	+- 3.1
26	260	3.8	27.6	+-	0.8; 4.1	19.9	+-	1.7; 9.0	21.8	+- 3.1
27	301	1.8	27.4	+-	0.8; 4.1	19.7	+-	1.7; 9.0	21.5	+- 3.1
28	286	4.3	27.0	+-	0.8; 4.1	19.0	+-	1.7; 8.9	21.2	+- 3.5
29	324	2.8	27.5	+-	0.8; 4.1	19.8	+-	1.7; 9.0	20.7	+- 3.7
30	333	3.7	27.9	+-	0.8; 4.2	20.5	+-	1.8; 9.1	21.3	+- 3.5
31	343	2.6	28.2	+-	0.8; 4.2	20.9	+-	1.8; 9.1	21.4	+- 3.1
32	333	3.7	26.9	+-	0.8; 4.0	18.8	+-	1.7; 8.9	20.9	+- 3.4
33	215	1.0	27.8	+-	0.8; 4.2	20.4	+-	1.8; 9.1	21.5	+- 3.7
34	175	18.0	27.2	+-	0.8; 4.1	19.3	+-	1.7; 9.0	22.1	+- 3.7
35	333	23.0	26.2	+-	0.8; 3.9	17.7	+-	1.7; 8.8	20.1	+- 3.4
36	210	19.0	27.9	+-	0.8; 4.2	20.4	+-	1.8; 9.1	21.2	+- 3.5
37	64	7.0	30.2	+-	0.9; 4.5	24.4	+-	1.9; 9.6	24.4	+- 4.3
38	329	9.0	27.2	+-	0.8; 4.1	19.4	+-	1.7; 9.0	23.0	+- 3.2
39	273	10.0	27.5	+-	0.8; 4.1	19.8	+-	1.7; 9.0	20.5	+- 3.8
40	300	2.5	28.2	+-	0.8; 4.2	20.9	+-	1.8; 9.1	23.6	+- 3.3
42	93	3.5	28.0	+-	0.8; 4.2	20.7	+-	1.8; 9.1	20.4	+- 3.4
43	270	2.2	27.0	+-	0.8; 4.1	19.0	+-	1.7; 8.9	21.3	+- 3.5

Transit Dose = 15.8 +- 0.6; 3.3

* Station numbers 2, 10, 11, 12, and 14 represent monitoring results covering the second and third quarters of 1993. Flood conditions made it impossible to recover these TLDs at the end of the second quarter.

COOPER

For the period 930607-931021

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	39.3 +- 0.0	1
11.26 - 33.75 NNE	21.0 +- 2.9	2
33.76 - 56.25 NE	18.5 +- 1.7	3
56.26 - 78.75 ENE	21.1 +- 4.6	2
78.76 - 101.25 E	27.3 +- 10.5	3
101.26 - 123.75 ESE	43.2 +- 2.5	2
123.76 - 146.25 SE	29.8 +- 13.6	2
146.26 - 168.75 SSE	20.8 +- 2.4	2
168.76 - 191.25 S	19.5 +- 0.0	1
191.26 - 213.75 SSW	19.7 +- 0.3	3
213.76 - 236.25 SW	19.9 +- 1.2	3
236.26 - 258.75 WSW	20.7 +- 0.8	2
258.76 - 281.25 W	19.2 +- 0.9	4
281.26 - 303.75 WNW	19.9 +- 1.0	3
303.76 - 326.25 NW	19.8 +- 0.0	1
326.26 - 348.75 NNW	19.9 +- 1.0	4

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	20.0 +- 0.9	6
2 - 5	22.9 +- 8.0	27
> 5	24.0 +- 7.8	6
Upwind Control	19.1 +- 1.4	3

NRC TLD DOSES FOR COOPER AREA

Miles

Legend

Water
Highways

Railroads
Roads

Plant site

CRYSTAL RIVER
 TLD Direct Radiation Environmental Monitoring
 For the period 930609-931021 135 Days
 Field Time: 98 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
6	61 4.2	14.2 +- 0.4; 2.1	12.5 +- 0.5; 3.3	12.9 +- 4.8
7	50 3.8	14.6 +- 0.4; 2.2	12.9 +- 0.5; 3.3	12.8 +- 4.7
8	20 5.2	15.1 +- 0.5; 2.3	13.3 +- 0.5; 3.4	13.5 +- 4.5
9	6 5.4	16.3 +- 0.5; 2.4	14.4 +- 0.5; 3.5	15.5 +- 5.1
10	348 5.0	16.6 +- 0.5; 2.5	14.7 +- 0.5; 3.5	14.6 +- 4.7
11	334 4.8	14.7 +- 0.4; 2.2	13.0 +- 0.5; 3.4	14.2 +- 4.7
12	318 4.8	15.4 +- 0.5; 2.3	13.6 +- 0.5; 3.4	13.7 +- 5.2
13	79 3.8	16.0 +- 0.5; 2.4	14.2 +- 0.5; 3.5	14.1 +- 4.9
14	95 4.1	14.7 +- 0.4; 2.2	12.9 +- 0.5; 3.3	13.8 +- 5.0
15	89 1.8	19.1 +- 0.6; 2.9	17.0 +- 0.6; 3.7	15.9 +- 4.9
16	113 5.0	14.3 +- 0.4; 2.2	12.6 +- 0.5; 3.3	13.2 +- 5.1
17	133 5.5	Damaged Dosimeter		
18	74 8.1	15.1 +- 0.5; 2.3	No Net Data	14.5 +- 5.2
19	127 7.6	15.1 +- 0.5; 2.3	13.3 +- 0.5; 3.4	13.1 +- 4.9
20	150 12.0	13.8 +- 0.4; 2.1	12.1 +- 0.4; 3.3	13.7 +- 4.8
21	159 13.0	15.1 +- 0.5; 2.3	13.3 +- 0.5; 3.3	12.8 +- 4.8
22	150 13.0	15.7 +- 0.5; 2.4	13.8 +- 0.5; 3.4	14.1 +- 5.1
23	150 21.0	17.9 +- 0.5; 2.7	15.9 +- 0.5; 3.6	13.4 +- 5.2
24	150 21.0	13.9 +- 0.4; 2.1	12.2 +- 0.5; 3.3	14.2 +- 5.4
25	56 6.1	16.2 +- 0.5; 2.4	14.3 +- 0.5; 3.5	12.7 +- 5.0
26	357 5.2	15.1 +- 0.5; 2.3	13.3 +- 0.5; 3.4	15.6 +- 5.5
27	90 13.0	16.3 +- 0.5; 2.4	14.4 +- 0.5; 3.5	14.5 +- 4.7
28	140 4.8	14.8 +- 0.4; 2.2	13.1 +- 0.5; 3.4	13.8 +- 5.1

Transit Dose = 0.6 +- 0.3; 2.9

CRYSTAL RIVER
For the period 930609-931021

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	13.9 +- 0.8	2
11.26 - 33.75 NNE	13.3 +- 0.0	1
33.76 - 56.25 NE	13.6 +- 1.0	2
56.26 - 78.75 ENE	12.9 +- 0.6	2
78.76 - 101.25 E	14.6 +- 1.7	4
101.26 - 123.75 ESE	12.6 +- 0.0	1
123.76 - 146.25 SE	13.2 +- 0.2	2
146.26 - 168.75 SSE	12.7 +- 0.8	2
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	13.6 +- 0.0	1
326.26 - 348.75 NNW	13.9 +- 1.2	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	17.0 +- 0.0	1
2 - 5	13.3 +- 0.7	9
> 5	13.5 +- 0.7	9
Upwind Control	14.0 +- 1.9	3

NRC TLD DOSES FOR CRYSTAL RIVER AREA

Miles

Legend

Water

Highways

Railroads

Roads

Plant site

DAVIS BESSE
 TLD Direct Radiation Environmental Monitoring
 For the period 930610-931019 132 Days
 Field Time: 70 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	50	0.6 +- 0.5; 2.3	12.4 +- 0.7; 4.4	12.4 +- 1.8
2	86	0.9 +- 0.5; 2.6	15.0 +- 0.8; 4.6	13.7 +- 2.2
3	116	1.4 +- 0.5; 2.4	13.3 +- 0.8; 4.5	13.0 +- 2.0
4	172	0.8 +- 0.5; 2.7	16.2 +- 0.8; 4.8	16.2 +- 2.6
5	200	1.5 +- 0.7; 3.4	22.2 +- 1.0; 5.5	19.2 +- 2.3
6	226	1.0 +- 0.6; 2.9	17.6 +- 0.9; 4.9	16.4 +- 2.1
7	249	1.5 +- 0.6; 2.9	17.5 +- 0.9; 4.9	17.1 +- 2.1
8	267	1.8 +- 0.5; 2.7	16.3 +- 0.8; 4.8	17.6 +- 2.4
9	285	1.8 +- 0.6; 2.9	17.9 +- 0.9; 5.0	17.5 +- 2.2
10	306	1.5 +- 0.5; 2.6	14.9 +- 0.8; 4.6	15.1 +- 2.1
11	344	0.9 +- 0.5; 2.6	15.3 +- 0.8; 4.7	14.4 +- 1.6
12	142	4.5 +- 0.6; 3.2	19.9 +- 0.9; 5.2	18.0 +- 2.1
13	158	4.0 +- 0.7; 3.3	20.9 +- 0.9; 5.3	19.2 +- 2.2
14	180	3.8 +- 0.6; 2.8	17.2 +- 0.9; 4.9	16.1 +- 1.9
15	207	4.8	Damaged Dosimeter	17.2 +- 2.3
16	225	4.5	20.0 +- 0.6; 3.0	18.6 +- 0.9; 5.0
17	254	2.7	23.6 +- 0.7; 3.5	23.2 +- 1.0; 5.6
18	269	3.0	20.8 +- 0.6; 3.1	19.6 +- 0.9; 5.2
19	295	5.3	21.9 +- 0.7; 3.3	21.0 +- 1.0; 5.3
20	25	0.5	15.0 +- 0.6; 2.3	12.1 +- 0.7; 4.3
21	132	9.7	18.3 +- 0.6; 2.8	16.4 +- 0.8; 4.8
22	210	6.5	18.2 +- 0.5; 2.7	16.2 +- 0.8; 4.8

Transit Dose = 5.6 +- 0.3; 2.5

DAVIS BESSE
For the period 930610-931019

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	No Data +- No Data	0
11.26 - 33.75 NNE	12.1 +- 0.0	1
33.76 - 56.25 NE	12.4 +- 0.0	1
56.26 - 78.75 ENE	No Data +- No Data	0
78.76 - 101.25 E	15.0 +- 0.0	1
101.26 - 123.75 ESE	13.3 +- 0.0	1
123.76 - 146.25 SE	19.9 +- 0.0	1
146.26 - 168.75 SSE	20.9 +- 0.0	1
168.76 - 191.25 S	16.7 +- 0.7	2
191.26 - 213.75 SSW	22.2 +- 0.0	1
213.76 - 236.25 SW	18.1 +- 0.7	2
236.26 - 258.75 WSW	20.3 +- 4.0	2
258.76 - 281.25 W	17.9 +- 2.4	2
281.26 - 303.75 WNW	19.4 +- 2.2	2
303.76 - 326.25 NW	14.9 +- 0.0	1
326.26 - 348.75 NNW	15.3 +- 0.0	1

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	15.9 +- 2.8	12
2 - 5	19.9 +- 2.1	6
> 5	21.0 +- 0.0	1
Upwind Control	16.3 +- 0.1	2

NRC TLD DOSES FOR DAVIS-BESSE AREA

Miles

Legend

Water
Highways

Railroads
Roads

Plant site

DC COOK
 TLD Direct Radiation Environmental Monitoring
 For the period 930610-931021 134 Days
 Field Time: 88 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	54 1.7	17.9 +- 0.5; 2.7	13.8 +- 0.7; 4.1	14.6 +- 2.3
2	67 1.3	18.3 +- 0.5; 2.7	14.2 +- 0.7; 4.1	16.9 +- 2.5
3	89 1.1	17.1 +- 0.5; 2.6	13.0 +- 0.6; 4.0	13.7 +- 2.6
4	58 0.7	16.5 +- 0.5; 2.5	12.3 +- 0.6; 3.9	13.8 +- 2.6
5	19 2.3	17.6 +- 0.5; 2.6	13.4 +- 0.6; 4.0	14.5 +- 2.4
6	111 1.6	17.0 +- 0.5; 2.5	12.8 +- 0.6; 4.0	14.4 +- 2.4
7	135 1.5	17.1 +- 0.5; 2.6	12.9 +- 0.6; 4.0	14.2 +- 2.6
8	158 1.4	17.8 +- 0.5; 2.7	13.6 +- 0.7; 4.0	16.3 +- 2.6
9	171 1.9	16.9 +- 0.5; 2.5	12.8 +- 0.6; 4.0	13.7 +- 2.2
10	199 1.5	17.3 +- 0.5; 2.6	13.1 +- 0.6; 4.0	14.1 +- 2.3
11	195 3.9	17.2 +- 0.5; 2.6	13.1 +- 0.6; 4.0	14.1 +- 2.6
12	200 6.6	17.3 +- 0.5; 2.6	13.2 +- 0.6; 4.0	14.9 +- 2.5
13	179 3.9	19.5 +- 0.6; 2.9	15.4 +- 0.7; 4.2	17.2 +- 2.6
14	151 4.4	23.1 +- 0.7; 3.5	19.1 +- 0.8; 4.6	18.0 +- 2.6
15	130 4.6	21.1 +- 0.6; 3.2	17.0 +- 0.7; 4.4	18.2 +- 2.3
16	110 3.7	18.4 +- 0.6; 2.8	14.2 +- 0.7; 4.1	15.6 +- 2.2
17	88 3.6	18.0 +- 0.5; 2.7	13.9 +- 0.7; 4.1	15.1 +- 2.2
18	67 3.8	17.0 +- 0.5; 2.5	12.8 +- 0.6; 4.0	15.4 +- 2.6
19	24 3.8	16.9 +- 0.5; 2.5	12.8 +- 0.6; 4.0	14.7 +- 2.4
20	43 3.3	18.8 +- 0.6; 2.8	14.7 +- 0.7; 4.2	16.7 +- 3.1
21	26 9.9	19.8 +- 0.6; 3.0	15.8 +- 0.7; 4.3	18.1 +- 4.4
22	121 18.0	18.2 +- 0.5; 2.7	14.1 +- 0.7; 4.1	14.9 +- 2.3
23	121 18.0	18.9 +- 0.6; 2.8	14.8 +- 0.7; 4.2	15.2 +- 2.7
24	121 18.0	20.7 +- 0.6; 3.1	16.6 +- 0.7; 4.4	17.2 +- 2.7

Transit Dose = 4.4 +- 0.4; 2.9

DC COOK

For the period 930610-931021

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	No Data +- No Data	0
11.26 - 33.75 NNE	14.0 +- 1.6	3
33.76 - 56.25 NE	14.3 +- 0.7	2
56.26 - 78.75 ENE	13.1 +- 1.0	3
78.76 - 101.25 E	13.4 +- 0.7	2
101.26 - 123.75 ESE	13.5 +- 1.0	2
123.76 - 146.25 SE	15.0 +- 2.9	2
146.26 - 168.75 SSE	16.4 +- 3.8	2
168.76 - 191.25 S	14.1 +- 1.9	2
191.26 - 213.75 SSW	13.1 +- 0.1	3
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	13.2 +- 0.6	9
2 - 5	14.6 +- 2.0	10
> 5	14.5 +- 1.8	2
Upwind Control	15.2 +- 1.3	3

NRC TLD DOSES FOR D.C. COOK AREA

DIABLO CANYON
 TLD Direct Radiation Environmental Monitoring
 For the period 930610-931019 132 Days
 Field Time: 87 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	132 0.9	28.5 +- 0.9; 4.3	23.9 +- 1.0; 5.4	23.2 +- 1.7
2	119 3.9	25.7 +- 0.8; 3.8	21.0 +- 0.9; 5.0	21.1 +- 1.6
3	107 7.2	24.3 +- 0.7; 3.7	19.6 +- 0.9; 4.9	19.6 +- 1.6
4	111 10.3	22.6 +- 0.7; 3.4	17.8 +- 0.8; 4.7	18.8 +- 1.7
5	115 13.9	23.4 +- 0.7; 3.5	18.6 +- 0.8; 4.8	20.0 +- 1.8
6	68 9.4	22.3 +- 0.7; 3.4	17.5 +- 0.8; 4.6	18.2 +- 1.8
7	359 11.1	18.6 +- 0.6; 2.8	13.7 +- 0.7; 4.2	16.3 +- 2.4
8	359 6.6	25.1 +- 0.8; 3.8	20.4 +- 0.9; 5.0	14.6 +- 1.5
9	339 4.8	17.6 +- 0.5; 2.6	12.6 +- 0.7; 4.1	13.6 +- 1.4
10	327 3.6	17.8 +- 0.5; 2.7	12.8 +- 0.7; 4.1	14.8 +- 2.6
11	325 1.2	18.1 +- 0.5; 2.7	13.1 +- 0.7; 4.2	14.6 +- 1.8
12	36 20.7	26.0 +- 0.8; 3.9	21.3 +- 0.9; 5.1	20.9 +- 1.4
13	36 20.7	25.0 +- 0.8; 3.8	20.3 +- 0.9; 5.0	20.8 +- 2.0
14	36 20.7	25.6 +- 0.8; 3.8	20.9 +- 0.9; 5.0	21.2 +- 1.6

Transit Dose =

5.4 +- 0.4; 3.0

DIABLO CANYON
For the period 930610-931019

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	17.0 +- 4.7	2
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	17.5 +- 0.0	1
78.76 - 101.25 E	No Data +- No Data	0
101.26 - 123.75 ESE	19.2 +- 1.4	4
123.76 - 146.25 SE	23.9 +- 0.0	1
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	13.1 +- 0.0	1
326.26 - 348.75 NNW	12.7 +- 0.2	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	18.5 +- 7.6	2
2 - 5	15.4 +- 4.8	3
> 5	17.9 +- 2.3	6
Upwind Control	20.8 +- 0.5	3

NRC TLD DOSES FOR DIABLO CANYON AREA

54

DRESDEN
 TLD Direct Radiation Environmental Monitoring
 For the period 930607-931020 136 Days
 Field Time: 90 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	70	22.5 +- 0.7; 3.4	17.6 +- 0.8; 4.5	17.1 +- 2.8
2	76	18.9 +- 0.6; 2.8	14.0 +- 0.7; 4.1	16.6 +- 3.3
3	108	21.0 +- 0.6; 3.1	16.1 +- 0.7; 4.4	17.4 +- 2.7
4	142	20.0 +- 0.6; 3.0	15.1 +- 0.7; 4.3	14.3 +- 2.9
5	115	17.5 +- 0.5; 2.6	12.6 +- 0.6; 4.0	14.4 +- 2.5
6	180	21.2 +- 0.6; 3.2	16.3 +- 0.7; 4.4	17.5 +- 3.2
7	179	21.0 +- 0.6; 3.1	16.1 +- 0.7; 4.4	16.6 +- 2.6
8	180	18.4 +- 0.6; 2.8	13.5 +- 0.7; 4.1	14.5 +- 2.5
9	253	23.1 +- 0.7; 3.5	18.2 +- 0.8; 4.6	17.9 +- 2.9
10	254	26.8 +- 0.8; 4.0	21.9 +- 0.9; 5.0	23.5 +- 4.3
11	250	19.2 +- 0.6; 2.9	14.3 +- 0.7; 4.2	15.0 +- 3.0
12	263	21.5 +- 0.6; 3.2	16.6 +- 0.7; 4.4	17.9 +- 2.6
13	180	18.5 +- 0.6; 2.8	13.6 +- 0.7; 4.1	13.8 +- 2.5
14	158	18.6 +- 0.6; 2.8	13.7 +- 0.7; 4.1	15.1 +- 2.4
15	137	19.6 +- 0.6; 2.9	14.7 +- 0.7; 4.2	15.3 +- 2.8
16	134	19.2 +- 0.6; 2.9	14.3 +- 0.7; 4.2	14.9 +- 2.6
17	189	19.4 +- 0.6; 2.9	14.5 +- 0.7; 4.2	15.8 +- 2.6
18	203	Missing Dosimeter	No Net Data	13.7 +- 3.1
19	231	21.1 +- 0.6; 3.2	16.2 +- 0.7; 4.4	18.7 +- 3.3
20	244	20.7 +- 0.6; 3.1	15.8 +- 0.7; 4.3	16.1 +- 3.2
21	258	22.1 +- 0.7; 3.3	17.2 +- 0.8; 4.5	16.9 +- 2.6
22	269	19.7 +- 0.6; 3.0	14.8 +- 0.7; 4.2	14.6 +- 2.7
23	301	21.0 +- 0.6; 3.1	16.1 +- 0.7; 4.4	15.1 +- 1.6
24	311	21.2 +- 0.6; 3.2	16.3 +- 0.7; 4.4	16.0 +- 3.0
25	340	22.1 +- 0.7; 3.3	17.2 +- 0.8; 4.5	18.8 +- 3.1
26	7	19.7 +- 0.6; 3.0	14.8 +- 0.7; 4.2	15.6 +- 2.8
27	355	Missing Dosimeter	No Net Data	20.4 +- 3.1
28	327	25.0 +- 0.8; 3.8	20.1 +- 0.8; 4.8	20.9 +- 2.8
29	318	22.5 +- 0.7; 3.4	17.6 +- 0.8; 4.5	18.1 +- 3.3
30	295	18.6 +- 0.6; 2.8	13.7 +- 0.7; 4.1	15.5 +- 3.3
31	30	23.5 +- 0.7; 3.5	18.6 +- 0.8; 4.6	19.4 +- 3.1
32	48	25.3 +- 0.8; 3.8	20.4 +- 0.8; 4.8	20.7 +- 3.1
33	76	Missing Dosimeter	No Net Data	19.1 +- 3.1
34	90	21.7 +- 0.6; 3.2	16.8 +- 0.7; 4.4	17.8 +- 3.6
35	26	21.3 +- 0.6; 3.2	16.4 +- 0.7; 4.4	17.6 +- 3.6
36	42	19.8 +- 0.6; 3.0	14.9 +- 0.7; 4.2	16.0 +- 3.0
37	52	20.1 +- 0.6; 3.0	15.2 +- 0.7; 4.3	17.0 +- 3.3
38	274	21.5 +- 0.6; 3.2	16.6 +- 0.7; 4.4	17.8 +- 3.4
39	274	21.9 +- 0.7; 3.3	17.0 +- 0.8; 4.5	17.7 +- 3.1
40	275	23.8 +- 0.7; 3.6	18.9 +- 0.8; 4.7	19.1 +- 3.6

Transit Dose = 4.9 +- 0.4; 3.0

DRESDEN

For the period 930607-931020

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	14.8 +- 0.0	1
11.26 - 33.75 NNE	17.5 +- 1.5	2
33.76 - 56.25 NE	16.8 +- 3.1	3
56.26 - 78.75 ENE	15.8 +- 2.5	2
78.76 - 101.25 E	16.8 +- 0.0	1
101.26 - 123.75 ESE	14.3 +- 2.5	2
123.76 - 146.25 SE	14.7 +- 0.4	3
146.26 - 168.75 SSE	13.7 +- 0.0	1
168.76 - 191.25 S	14.8 +- 1.3	5
191.26 - 213.75 SSW	No Data +- No Data	0
213.76 - 236.25 SW	16.2 +- 0.0	1
236.26 - 258.75 WSW	17.5 +- 2.9	5
258.76 - 281.25 W	15.7 +- 1.2	2
281.26 - 303.75 WNW	14.9 +- 1.6	2
303.76 - 326.25 NW	16.9 +- 0.9	2
326.26 - 348.75 NNW	18.7 +- 2.1	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	16.8 +- 2.8	14
2 - 5	15.5 +- 1.3	15
> 5	15.4 +- 1.2	5
Upwind Control	17.5 +- 1.3	3

NRC TLD DOSES FOR DRESDEN AREA

Miles

0 2 4

Legend

Water

Railroads

Plant site

Highways

Roads

DUANE ARNOLD
 TLD Direct Radiation Environmental Monitoring
 For the period 930607-931019 135 Days
 Field Time: 92 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	163	Missing Dosimeter	No Net Data	16.5 +- 2.1
2	170	22.1 +- 0.7; 3.3	18.9 +- 0.7; 4.3	18.7 +- 1.9
3	180	17.1 +- 0.5; 2.6	14.0 +- 0.6; 3.8	15.4 +- 1.4
4	216	22.3 +- 0.7; 3.4	19.1 +- 0.7; 4.3	18.7 +- 2.4
5	201	18.8 +- 0.6; 2.8	15.7 +- 0.6; 4.0	15.2 +- 1.8
6	213	20.3 +- 0.6; 3.0	17.2 +- 0.7; 4.1	17.0 +- 1.9
7	248	23.0 +- 0.7; 3.5	19.8 +- 0.7; 4.4	18.8 +- 2.1
8	279	21.4 +- 0.6; 3.2	18.2 +- 0.7; 4.2	18.5 +- 2.0
9	298	22.9 +- 0.7; 3.4	19.7 +- 0.7; 4.4	19.5 +- 2.4
10	320	22.8 +- 0.7; 3.4	19.6 +- 0.7; 4.4	18.6 +- 2.2
11	343	23.1 +- 0.7; 3.5	19.9 +- 0.7; 4.4	19.4 +- 2.2
12	359	20.8 +- 0.6; 3.1	17.7 +- 0.7; 4.2	18.3 +- 2.0
13	237	19.4 +- 0.6; 2.9	16.3 +- 0.6; 4.0	17.5 +- 2.1
14	259	21.7 +- 0.7; 3.3	18.5 +- 0.7; 4.3	18.0 +- 2.2
15	272	Missing Dosimeter	No Net Data	15.2 +- 1.8
16	285	20.6 +- 0.6; 3.1	17.4 +- 0.7; 4.1	16.8 +- 1.9
17	308	21.6 +- 0.6; 3.2	18.4 +- 0.7; 4.3	18.8 +- 2.2
18	340	Missing Dosimeter	No Net Data	15.6 +- 1.6
19	291	20.0 +- 0.6; 3.0	16.9 +- 0.7; 4.1	17.1 +- 1.7
20	291	20.3 +- 0.6; 3.0	17.1 +- 0.7; 4.1	17.9 +- 2.1
21	291	19.2 +- 0.6; 2.9	16.0 +- 0.6; 4.0	16.5 +- 1.9
22	358	18.9 +- 0.6; 2.8	15.8 +- 0.6; 4.0	15.8 +- 1.6
23	7	18.6 +- 0.6; 2.8	15.5 +- 0.6; 3.9	15.3 +- 1.9
24	28	21.3 +- 0.6; 3.2	18.1 +- 0.7; 4.2	18.6 +- 2.1
25	39	20.8 +- 0.6; 3.1	17.7 +- 0.7; 4.2	17.2 +- 1.8
26	64	20.5 +- 0.6; 3.1	17.3 +- 0.7; 4.1	17.7 +- 1.8
27	50	19.1 +- 0.6; 2.9	16.0 +- 0.6; 4.0	15.6 +- 1.8
28	72	21.4 +- 0.6; 3.2	18.2 +- 0.7; 4.2	17.3 +- 1.6
29	91	18.6 +- 0.6; 2.8	15.4 +- 0.6; 3.9	15.5 +- 1.8
30	93	22.6 +- 0.7; 3.4	19.4 +- 0.7; 4.4	19.0 +- 1.8
31	113	22.9 +- 0.7; 3.4	19.7 +- 0.7; 4.4	19.2 +- 1.8
32	141	18.2 +- 0.5; 2.7	15.1 +- 0.6; 3.9	15.5 +- 1.8
33	153	21.8 +- 0.7; 3.3	18.6 +- 0.7; 4.3	17.6 +- 2.0
34	177	Missing Dosimeter	No Net Data	15.8 +- 2.6
35	153	Missing Dosimeter	No Net Data	15.1 +- 1.8
36	135	20.7 +- 0.6; 3.1	17.6 +- 0.7; 4.2	16.5 +- 1.8
37	111	23.3 +- 0.7; 3.5	20.1 +- 0.7; 4.4	18.7 +- 1.8
38	123	22.5 +- 0.7; 3.4	19.2 +- 0.7; 4.3	18.7 +- 1.9
39	132	19.4 +- 0.6; 2.9	16.3 +- 0.6; 4.0	15.8 +- 1.7
40	139	21.5 +- 0.6; 3.2	18.3 +- 0.7; 4.2	16.6 +- 1.6

Transit Dose = 2.8 +- 0.3; 2.9

DUANE ARNOLD
For the period 930607-931019

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	16.3 +- 1.2	3
11.26 - 33.75 NNE	18.1 +- 0.0	1
33.76 - 56.25 NE	16.8 +- 1.2	2
56.26 - 78.75 ENE	17.7 +- 0.6	2
78.76 - 101.25 E	17.4 +- 2.8	2
101.26 - 123.75 ESE	19.7 +- 0.4	3
123.76 - 146.25 SE	16.8 +- 1.4	4
146.26 - 168.75 SSE	18.6 +- 0.0	1
168.76 - 191.25 S	16.5 +- 3.5	2
191.26 - 213.75 SSW	16.4 +- 1.1	2
213.76 - 236.25 SW	19.1 +- 0.0	1
236.26 - 258.75 WSW	18.0 +- 2.5	2
258.76 - 281.25 W	18.4 +- 0.2	2
281.26 - 303.75 WNW	18.6 +- 1.6	2
303.76 - 326.25 NW	19.0 +- 0.8	2
326.26 - 348.75 NNW	19.9 +- 0.0	1

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	18.2 +- 1.7	13
2 - 5	17.3 +- 1.7	14
> 5	17.7 +- 1.6	5
Upwind Control	16.7 +- 0.6	3

NRC TLD DOSES FOR DUANE ARNOLD AREA

FARLEY
 TLD Direct Radiation Environmental Monitoring
 For the period 930608-931028 143 Days
 Field Time: 93 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	268 15.0	18.1 +- 0.5; 2.7	10.1 +- 0.7; 4.2	14.5 +- 2.5
2	252 7.8	18.7 +- 0.6; 2.8	10.6 +- 0.7; 4.2	14.7 +- 2.6
3	217 6.1	20.8 +- 0.6; 3.1	12.7 +- 0.8; 4.4	15.8 +- 2.1
4	155 5.7	25.4 +- 0.8; 3.8	17.1 +- 0.9; 4.9	18.7 +- 2.2
5	170 5.1	20.8 +- 0.6; 3.1	12.7 +- 0.8; 4.4	15.7 +- 2.2
6	197 4.5	18.5 +- 0.6; 2.8	10.4 +- 0.7; 4.2	14.7 +- 2.2
7	191 2.4	19.6 +- 0.6; 2.9	11.6 +- 0.7; 4.3	18.5 +- 2.5
8	200 1.8	20.2 +- 0.6; 3.0	12.1 +- 0.7; 4.4	15.8 +- 2.3
9	220 1.2	18.8 +- 0.6; 2.8	10.8 +- 0.7; 4.3	14.2 +- 2.3
10	254 0.9	21.4 +- 0.6; 3.2	13.2 +- 0.8; 4.5	16.2 +- 2.1
11	300 0.9	22.2 +- 0.7; 3.3	14.0 +- 0.8; 4.6	16.1 +- 2.1
12	319 1.1	22.8 +- 0.7; 3.4	14.6 +- 0.8; 4.6	16.4 +- 2.4
13	338 1.3	19.5 +- 0.6; 2.9	11.4 +- 0.7; 4.3	15.1 +- 2.1
14	256 1.2	19.4 +- 0.6; 2.9	11.3 +- 0.7; 4.3	14.7 +- 2.1
15	16 1.3	25.0 +- 0.7; 3.7	16.7 +- 0.9; 4.9	20.5 +- 2.2
16	264 1.6	18.8 +- 0.6; 2.8	10.7 +- 0.7; 4.3	15.2 +- 2.1
17	253 3.5	21.9 +- 0.7; 3.3	13.8 +- 0.8; 4.6	17.3 +- 2.2
18	233 3.2	19.8 +- 0.6; 3.0	11.7 +- 0.7; 4.4	15.4 +- 2.2
19	267 4.5	21.8 +- 0.7; 3.3	13.6 +- 0.8; 4.5	16.3 +- 2.2
20	295 3.8	19.7 +- 0.6; 3.0	11.6 +- 0.7; 4.3	16.5 +- 2.6
21	315 4.6	18.8 +- 0.6; 2.8	10.7 +- 0.7; 4.3	14.7 +- 2.4
22	332 4.3	19.5 +- 0.6; 2.9	11.4 +- 0.7; 4.3	14.5 +- 2.1
23	251 4.8	18.0 +- 0.5; 2.7	9.9 +- 0.7; 4.2	14.2 +- 2.1
24	32 5.3	20.4 +- 0.6; 3.1	12.3 +- 0.7; 4.4	16.7 +- 2.1
25	54 6.2	18.8 +- 0.6; 2.8	10.8 +- 0.7; 4.3	14.4 +- 2.2
26	64 5.5	20.8 +- 0.6; 3.1	12.6 +- 0.7; 4.4	16.1 +- 2.1
27	88 4.7	20.3 +- 0.6; 3.1	12.2 +- 0.7; 4.4	15.8 +- 2.1
28	124 5.1	22.1 +- 0.7; 3.3	13.9 +- 0.8; 4.6	16.5 +- 2.1
29	153 4.1	20.6 +- 0.6; 3.1	12.5 +- 0.7; 4.4	15.7 +- 2.1
30	142 3.6	18.7 +- 0.6; 2.8	10.7 +- 0.7; 4.2	14.4 +- 2.0
31	130 3.0	18.4 +- 0.6; 2.8	10.3 +- 0.7; 4.2	13.6 +- 2.3
32	110 2.8	18.9 +- 0.6; 2.8	10.9 +- 0.7; 4.3	14.6 +- 2.4
33	78 2.6	17.8 +- 0.6; 2.8	9.3 +- 0.7; 4.3	13.3 +- 2.5
34	58 2.2	17.3 +- 0.5; 2.6	9.3 +- 0.7; 4.1	13.3 +- 2.3
35	34 2.4	24.4 +- 0.7; 3.7	16.2 +- 0.8; 4.8	19.4 +- 2.3
36	19 2.7	21.4 +- 0.6; 3.2	13.3 +- 0.8; 4.5	16.9 +- 2.1
37	284 10.0	20.2 +- 0.6; 3.0	12.1 +- 0.7; 4.4	15.8 +- 2.2
38	289 15.0	16.6 +- 0.5; 2.5	8.6 +- 0.7; 4.1	15.1 +- 3.3
39	293 15.0	21.6 +- 0.6; 3.2	13.4 +- 0.8; 4.5	16.8 +- 1.9

Transit Dose = 7.7 +- 0.5; 3.4

FARLEY

For the period 930608-931028

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	No Data +- No Data	0
11.26 - 33.75 NNE	14.1 +- 2.3	3
33.76 - 56.25 NE	13.5 +- 3.8	2
56.26 - 78.75 ENE	10.9 +- 1.7	3
78.76 - 101.25 E	12.2 +- 0.0	1
101.26 - 123.75 ESE	10.9 +- 0.0	1
123.76 - 146.25 SE	11.6 +- 2.0	3
146.26 - 168.75 SSE	14.8 +- 3.3	2
168.76 - 191.25 S	12.1 +- 0.8	2
191.26 - 213.75 SSW	11.3 +- 1.2	2
213.76 - 236.25 SW	11.7 +- 1.0	3
236.26 - 258.75 WSW	11.8 +- 1.7	5
258.76 - 281.25 W	11.5 +- 1.9	3
281.26 - 303.75 WNW	12.8 +- 1.7	2
303.76 - 326.25 NW	12.6 +- 2.7	2
326.26 - 348.75 NNW	11.4 +- 0.0	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	12.8 +- 2.0	9
2 - 5	11.7 +- 1.7	18
> 5	12.5 +- 2.1	9
Upwind Control	11.4 +- 2.5	3

NRC TLD DOSES FOR FARLEY AREA

Miles

0 2 4

Legend

— Highways

- - - Railroads

- - - Roads

★ Plant site

FERMI
 TLD Direct Radiation Environmental Monitoring
 For the period 930607-931019 135 Days
 Field Time: 82 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	38	2.1	16.7 +- 0.5; 2.5	14.1 +- 3.4
2	22	2.3	19.2 +- 0.6; 2.9	15.5 +- 3.2
3	350	1.8	24.6 +- 0.7; 3.7	20.2 +- 2.2
4	345	1.9	21.1 +- 0.6; 3.2	16.2 +- 2.5
5	346	1.4	22.0 +- 0.7; 3.3	17.4 +- 2.4
6	310	1.3	21.2 +- 0.6; 3.2	17.4 +- 2.7
7	298	1.4	21.4 +- 0.6; 3.2	17.1 +- 2.3
8	277	1.6	20.5 +- 0.6; 3.1	17.3 +- 2.1
9	238	1.0	18.1 +- 0.5; 2.7	15.8 +- 3.1
10	225	1.5	18.6 +- 0.6; 2.8	14.4 +- 2.4
11	193	0.8	21.0 +- 0.6; 3.1	17.0 +- 2.2
12	183	0.9	21.5 +- 0.6; 3.2	16.8 +- 2.3
13	175	0.8	21.2 +- 0.6; 3.2	16.5 +- 2.2
14	260	1.7	24.7 +- 0.7; 3.7	18.5 +- 2.2
15	245	2.5	20.3 +- 0.6; 3.1	15.8 +- 2.4
16	236	5.0	24.7 +- 0.7; 3.7	19.2 +- 2.1
17	225	6.8	19.5 +- 0.6; 2.9	13.7 +- 2.5
18	250	7.8	18.1 +- 0.5; 2.7	13.9 +- 2.9
19	277	6.0	17.8 +- 0.5; 2.7	14.4 +- 2.2
20	297	6.0	19.4 +- 0.6; 2.9	16.5 +- 2.8
21	320	3.8	20.9 +- 0.6; 3.1	16.1 +- 1.3
22	340	4.7	22.6 +- 0.7; 3.4	17.8 +- 2.2
23	358	4.3	24.9 +- 0.7; 3.7	18.1 +- 2.7
24	23	5.0	24.0 +- 0.7; 3.6	19.3 +- 2.3
25	25	7.0	19.6 +- 0.6; 2.9	14.3 +- 2.5
26	0	7.0	19.1 +- 0.6; 2.9	15.1 +- 2.5
27	342	8.0	22.1 +- 0.7; 3.3	16.2 +- 2.4
28	320	9.5	20.6 +- 0.6; 3.1	15.3 +- 2.1
29	290	11.0	21.3 +- 0.6; 3.2	17.7 +- 2.2
30	270	11.0	22.3 +- 0.7; 3.3	18.5 +- 2.3
31	245	10.0	19.1 +- 0.6; 2.9	15.6 +- 2.2
32	220	11.0	21.2 +- 0.6; 3.2	16.5 +- 2.4
33	270	15.0	19.8 +- 0.6; 3.0	14.9 +- 2.3
34	270	15.0	19.9 +- 0.6; 3.0	15.1 +- 2.1
35	290	16.0	21.7 +- 0.7; 3.3	16.1 +- 2.1
36	350	0.8	19.4 +- 0.6; 2.9	15.5 +- 3.3
37	330	0.7	21.1 +- 0.6; 3.2	16.2 +- 2.7
38	310	0.7	23.0 +- 0.7; 3.5	15.8 +- 3.2
39	23	10.0	21.1 +- 0.6; 3.2	17.3 +- 2.2
40	0	9.0	21.7 +- 0.6; 3.2	18.2 +- 2.1
41	348	9.0	Missing Dosimeter No Net Data	14.3 +- 2.5

Transit Dose =

6.8 +- 0.4; 3.0

FERMI

For the period 930607-931019

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	16.6 +- 3.0	5
11.26 - 33.75 NNE	15.5 +- 2.4	4
33.76 - 56.25 NE	10.8 +- 0.0	1
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	16.0 +- 0.2	2
191.26 - 213.75 SSW	15.5 +- 0.0	1
213.76 - 236.25 SW	15.5 +- 2.9	4
236.26 - 258.75 WSW	13.2 +- 1.2	4
258.76 - 281.25 W	15.9 +- 3.2	4
281.26 - 303.75 WNW	15.2 +- 1.2	3
303.76 - 326.25 NW	16.0 +- 1.2	4
326.26 - 348.75 NNW	16.4 +- 0.7	5

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	15.9 +- 2.0	15
2 - 5	16.3 +- 3.2	8
> 5	14.7 +- 1.6	14
Upwind Control	15.0 +- 1.2	3

NRC TLD DOSES FOR FERMI AREA

Miles

Legend

Water

— Highways

--- Railroads

--- Roads

Plant..site

FITZ/NMP
 TLD Direct Radiation Environmental Monitoring
 For the period 930608-931028 143 Days
 Field Time: 107 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	230 6.9	20.7 +- 0.6; 3.1	14.9 +- 0.6; 3.8	14.7 +- 1.4
2	184 14.0	21.4 +- 0.6; 3.2	15.5 +- 0.6; 3.9	15.7 +- 1.4
3	122 8.4	18.7 +- 0.6; 2.8	13.2 +- 0.6; 3.7	14.4 +- 1.6
4	76 11.0	20.7 +- 0.6; 3.1	14.9 +- 0.6; 3.8	14.9 +- 1.0
5	91 6.8	22.1 +- 0.7; 3.3	16.1 +- 0.6; 4.0	15.3 +- 1.7
6	112 4.3	20.8 +- 0.6; 3.1	14.9 +- 0.6; 3.8	15.1 +- 1.2
7	138 4.3	Damaged Dosimeter	No Net Data	15.1 +- 1.3
8	152 3.6	20.8 +- 0.6; 3.1	14.9 +- 0.6; 3.8	15.0 +- 1.4
9	183 3.9	21.8 +- 0.7; 3.3	15.8 +- 0.6; 3.9	15.4 +- 1.0
10	205 4.5	19.4 +- 0.6; 2.9	13.8 +- 0.6; 3.7	14.3 +- 1.5
11	220 4.4	22.3 +- 0.7; 3.3	16.2 +- 0.6; 4.0	15.3 +- 1.3
12	230 6.1	21.2 +- 0.6; 3.2	15.3 +- 0.6; 3.9	15.5 +- 1.3
13	245 1.8	20.6 +- 0.6; 3.1	14.8 +- 0.6; 3.8	15.2 +- 1.3
14	223 1.8	20.3 +- 0.6; 3.1	14.6 +- 0.6; 3.8	14.7 +- 1.4
15	204 2.0	20.2 +- 0.6; 3.0	14.5 +- 0.6; 3.8	14.7 +- 1.6
16	181 1.8	19.8 +- 0.6; 3.0	14.1 +- 0.6; 3.8	14.9 +- 1.2
17	157 1.9	Damaged Dosimeter	No Net Data	15.1 +- 1.1
18	137 1.6	19.3 +- 0.6; 2.9	13.7 +- 0.6; 3.7	14.7 +- 1.2
19	115 1.2	20.1 +- 0.6; 3.0	14.4 +- 0.6; 3.8	14.8 +- 1.6
20	92 1.1	20.2 +- 0.6; 3.0	14.5 +- 0.6; 3.8	15.5 +- 1.4
21	229 20.0	21.4 +- 0.6; 3.2	15.5 +- 0.6; 3.9	14.8 +- 1.4
22	229 20.0	20.3 +- 0.6; 3.0	14.6 +- 0.6; 3.8	14.5 +- 1.2
23	229 20.0	20.7 +- 0.6; 3.1	14.9 +- 0.6; 3.8	14.7 +- 1.2
24	196 8.0	20.3 +- 0.6; 3.0	14.6 +- 0.6; 3.8	14.5 +- 1.6
25	168 7.2	20.7 +- 0.6; 3.1	14.9 +- 0.6; 3.8	14.3 +- 1.2
26	152 0.6	21.6 +- 0.6; 3.2	15.6 +- 0.6; 3.9	16.1 +- 1.3

Transit Dose = 3.0 +- 0.4; 3.3

FITZ/NMP

For the period 930608-931028

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	No Data +- No Data	0
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	14.9 +- 0.0	1
78.76 - 101.25 E	15.3 +- 1.1	2
101.26 - 123.75 ESE	14.2 +- 0.9	3
123.76 - 146.25 SE	13.7 +- 0.0	1
146.26 - 168.75 SSE	15.1 +- 0.4	3
168.76 - 191.25 S	15.1 +- 0.9	3
191.26 - 213.75 SSW	14.3 +- 0.4	3
213.76 - 236.25 SW	15.2 +- 0.7	4
236.26 - 258.75 WSW	14.8 +- 0.0	1
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	14.5 +- 0.5	8
2 - 5	15.1 +- 0.9	5
> 5	14.9 +- 0.8	8
Upwind Control	15.0 +- 0.5	3

NRC TLD DOSES FOR FITZPATRICK & NINE MILE PT AREA

Miles

Legend

Water

Railroads

Plant site

Highways

Roads

FORT CALHOUN
 TLD Direct Radiation Environmental Monitoring
 For the period 930610-931027 140 Days
 Field Time: 99 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	358	2.0	27.1 +- 0.8; 4.1	19.9 +- 0.8; 4.8
2	351	4.6	26.1 +- 0.8; 3.9	19.0 +- 0.8; 4.7
3	30	2.5	25.2 +- 0.8; 3.8	18.2 +- 0.8; 4.6
4	27	4.6	27.6 +- 0.7; 4.1	20.3 +- 0.8; 4.8
5	53	1.9	24.5 +- 0.7; 3.7	17.5 +- 0.8; 4.5
6	37	3.9	27.5 +- 0.8; 4.1	20.3 +- 0.8; 4.8
7	76	2.3	27.0 +- 0.8; 4.0	19.8 +- 0.8; 4.7
8	59	5.2	25.4 +- 0.8; 3.8	18.4 +- 0.8; 4.6
9	100	2.3	24.0 +- 0.7; 3.6	17.1 +- 0.7; 4.4
10	88	5.6	25.5 +- 0.8; 3.8	18.5 +- 0.8; 4.6
11	122	2.3	25.7 +- 0.8; 3.9	18.6 +- 0.8; 4.6
12	105	5.7	26.0 +- 0.8; 3.9	18.9 +- 0.8; 4.6
13	145	1.9	25.9 +- 0.8; 3.9	18.8 +- 0.8; 4.6
14	128	5.5	26.4 +- 0.8; 4.0	19.3 +- 0.8; 4.7
15	157	1.9	27.6 +- 0.8; 4.1	20.4 +- 0.8; 4.8
16	150	4.9	26.7 +- 0.8; 4.0	19.6 +- 0.8; 4.7
17	173	0.5	24.3 +- 0.7; 3.6	17.4 +- 0.8; 4.5
18	173	5.3	Missing Dosimeter	No Net Data
19	212	2.5	31.3 +- 0.9; 4.7	23.7 +- 0.9; 5.2
20	204	5.3	29.3 +- 0.9; 4.4	21.9 +- 0.9; 5.0
21	233	2.0	27.9 +- 0.8; 4.2	20.6 +- 0.8; 4.8
22	224	4.6	29.7 +- 0.9; 4.5	22.3 +- 0.9; 5.0
23	239	0.6	28.5 +- 0.9; 4.3	21.2 +- 0.9; 4.9
24	243	6.9	25.1 +- 0.8; 3.8	18.1 +- 0.8; 4.5
25	269	3.3	30.0 +- 0.9; 4.5	22.5 +- 0.9; 5.1
26	262	5.9	30.8 +- 0.9; 4.6	23.2 +- 0.9; 5.2
27	350	3.0	25.8 +- 0.8; 3.9	18.7 +- 0.8; 4.6
28	292	5.0	26.9 +- 0.8; 4.0	19.7 +- 0.8; 4.7
29	311	2.4	29.1 +- 0.9; 4.4	21.7 +- 0.9; 5.0
30	310	5.5	28.7 +- 0.9; 4.3	21.3 +- 0.9; 4.9
31	340	2.3	25.5 +- 0.8; 3.8	18.4 +- 0.8; 4.6
32	338	5.3	27.4 +- 0.8; 4.1	20.1 +- 0.8; 4.8
33	182	0.5	28.6 +- 0.9; 4.3	21.3 +- 0.9; 4.9
35	127	2.2	26.0 +- 0.8; 3.9	18.9 +- 0.8; 4.6
39	150	5.0	25.4 +- 0.8; 3.8	18.3 +- 0.8; 4.6
40	73	9.5	27.3 +- 0.8; 4.1	20.0 +- 0.8; 4.8
43	29	8.0	24.0 +- 0.7; 3.7	17.9 +- 0.7; 4.4
44	65	3.5	24.0 +- 0.7; 3.6	17.1 +- 0.7; 4.4
45	182	4.2	27.5 +- 0.8; 4.1	20.2 +- 0.8; 4.8
47	298	4.5	26.0 +- 0.8; 3.9	18.9 +- 0.8; 4.6
48	13	14.0	26.9 +- 0.8; 4.0	19.7 +- 0.8; 4.7
49	207	18.0	27.1 +- 0.8; 4.1	19.9 +- 0.8; 4.8

Transit Dose = 5.2 +- 0.4; 3.3

FORT CALHOUN
For the period 930610-931027

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	19.2 +- 0.7	3
11.26 - 33.75 NNE	18.8 +- 1.3	3
33.76 - 56.25 NE	18.9 +- 1.9	2
56.26 - 78.75 ENE	18.8 +- 1.4	4
78.76 - 101.25 E	17.8 +- 1.0	2
101.26 - 123.75 ESE	18.8 +- 0.2	2
123.76 - 146.25 SE	19.0 +- 0.2	3
146.26 - 168.75 SSE	19.4 +- 1.0	3
168.76 - 191.25 S	19.6 +- 2.0	3
191.26 - 213.75 SSW	22.8 +- 1.3	2
213.76 - 236.25 SW	21.5 +- 1.1	2
236.26 - 258.75 WSW	19.6 +- 2.2	2
258.76 - 281.25 W	22.9 +- 0.5	2
281.26 - 303.75 WNW	19.3 +- 0.6	2
303.76 - 326.25 NW	21.5 +- 0.2	2
326.26 - 348.75 NNW	19.3 +- 1.2	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	19.6 +- 1.6	8
2 - 5	19.7 +- 1.8	20
> 5	19.8 +- 1.8	11
Upwind Control	19.8 +- 0.1	2

NRC TLD DOSES FOR FORT CALHOUN AREA

Miles

Legend

Water
Highways

Railroads
Roads

Plant..site

FORT ST. VRAIN
 TLD Direct Radiation Environmental Monitoring
 For the period 930607-931028 144 Days
 Field Time: 100 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	8	0.8	43.2 +- 1.3; 6.5	30.1 +- 3.2
2	2	3.3	44.1 +- 1.3; 6.6	29.5 +- 3.4
3	29	2.6	40.8 +- 1.2; 6.1	30.0 +- 3.5
4	17	5.4	42.1 +- 1.3; 6.3	30.2 +- 3.6
5	54	2.1	41.4 +- 1.2; 6.2	28.8 +- 3.6
6	48	4.8	44.0 +- 1.3; 6.6	30.9 +- 3.2
7	76	2.6	44.4 +- 1.3; 6.7	31.9 +- 3.5
8	58	4.2	43.5 +- 1.3; 6.5	30.5 +- 3.3
9	100	1.5	45.9 +- 1.4; 6.9	30.8 +- 3.3
10	87	4.5	41.9 +- 1.3; 6.3	29.4 +- 3.2
11	118	1.6	47.3 +- 1.4; 7.1	33.1 +- 3.5
12	104	3.0	45.0 +- 1.4; 6.8	32.5 +- 3.1
13	143	1.6	48.0 +- 1.4; 7.2	30.9 +- 3.3
14	128	4.5	43.5 +- 1.3; 6.5	30.8 +- 3.0
15	168	2.3	42.5 +- 1.3; 6.4	28.6 +- 3.1
16	148	4.6	40.6 +- 1.2; 6.1	28.8 +- 3.2
17	182	0.8	42.0 +- 1.3; 6.3	30.4 +- 3.2
18	175	4.8	43.4 +- 1.3; 6.5	31.0 +- 3.4
19	210	0.9	42.3 +- 1.3; 6.3	31.2 +- 3.2
20	200	2.9	44.3 +- 1.3; 6.6	30.8 +- 3.6
21	234	1.3	44.8 +- 1.3; 6.7	31.6 +- 3.2
22	216	3.3	42.5 +- 1.3; 6.4	28.8 +- 3.2
23	254	2.5	42.2 +- 1.3; 6.3	29.3 +- 3.2
24	244	3.8	42.2 +- 1.3; 6.3	29.5 +- 3.2
25	278	1.5	41.0 +- 1.2; 6.1	28.6 +- 2.9
26	263	5.4	43.6 +- 1.3; 6.5	29.8 +- 3.5
27	297	1.7	40.6 +- 1.2; 6.1	28.5 +- 3.4
28	284	5.6	41.9 +- 1.3; 6.3	29.4 +- 2.9
29	317	0.9	41.6 +- 1.2; 6.2	28.8 +- 3.2
30	305	4.2	38.9 +- 1.2; 5.8	27.3 +- 3.1
31	338	1.4	40.2 +- 1.2; 6.0	29.0 +- 3.3
32	330	5.0	39.4 +- 1.2; 5.9	26.4 +- 3.3
33	267	6.5	38.5 +- 1.2; 5.8	29.8 +- 3.8
34	130	3.7	37.6 +- 1.1; 5.6	29.4 +- 3.4
35	270	0.1	42.3 +- 1.3; 6.3	28.8 +- 3.5
38	345	6.7	42.0 +- 1.3; 6.3	30.7 +- 3.4
39	10	6.0	39.7 +- 1.2; 5.9	29.1 +- 3.6
40	63	6.0	40.2 +- 1.2; 6.0	28.9 +- 3.6
41	165	12.0	43.1 +- 1.3; 6.5	32.1 +- 3.0
42	248	13.0	46.6 +- 1.4; 7.0	33.6 +- 3.8
45	198	11.0	43.2 +- 1.3; 6.5	30.3 +- 3.2
46	39	16.0	38.2 +- 1.1; 5.7	28.2 +- 3.4
47	357	17.0	37.3 +- 1.1; 5.6	27.1 +- 3.4
48	171	18.0	45.0 +- 1.4; 6.8	30.6 +- 3.2
49	360	0.5	46.0 +- 1.4; 6.9	32.3 +- 3.2

Transit Dose =

9.0 +- 0.5; 3.7

FORT ST. VRAIN
For the period 930607-931028

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	30.0 +- 2.1	3
11.26 - 33.75 NNE	29.2 +- 0.8	2
33.76 - 56.25 NE	29.0 +- 2.6	3
56.26 - 78.75 ENE	30.4 +- 2.0	3
78.76 - 101.25 E	31.4 +- 2.5	2
101.26 - 123.75 ESE	33.4 +- 1.4	2
123.76 - 146.25 SE	30.6 +- 4.7	3
146.26 - 168.75 SSE	29.8 +- 1.2	3
168.76 - 191.25 S	30.3 +- 0.9	2
191.26 - 213.75 SSW	30.9 +- 0.9	3
213.76 - 236.25 SW	31.2 +- 1.4	2
236.26 - 258.75 WSW	31.2 +- 2.3	3
258.76 - 281.25 W	29.1 +- 1.9	4
281.26 - 303.75 WNW	29.0 +- 0.8	2
303.76 - 326.25 NW	28.1 +- 1.8	2
326.26 - 348.75 NNW	28.4 +- 1.2	3

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	30.8 +- 2.3	12
2 - 5	29.9 +- 1.8	19
> 5	29.5 +- 2.2	11
Upwind Control	30.4 +- 4.3	3

NRC TLD DOSES FOR FORT ST. VRAIN AREA

75

GINNA
 TLD Direct Radiation Environmental Monitoring
 For the period 930608-931028 143 Days
 Field Time: 108 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	95	1.7	20.8 +- 0.6; 3.1	15.0 +- 1.3
2	108	1.1	Missing Dosimeter	14.8 +- 1.5
3	142	1.7	20.7 +- 0.6; 3.1	14.6 +- 1.7
4	154	1.5	20.7 +- 0.6; 3.1	15.4 +- 1.9
5	174	1.4	21.2 +- 0.6; 3.2	15.5 +- 1.9
6	212	1.6	19.4 +- 0.6; 2.9	14.4 +- 1.7
7	244	0.9	18.9 +- 0.6; 3.0	14.3 +- 1.7
8	230	0.6	18.9 +- 0.6; 2.8	15.3 +- 2.1
10	266	1.5	19.8 +- 0.6; 3.0	14.8 +- 1.7
11	264	4.6	20.2 +- 0.6; 3.0	16.2 +- 1.1
12	245	3.8	20.6 +- 0.6; 3.1	14.7 +- 1.8
13	235	4.2	18.3 +- 0.5; 2.7	14.1 +- 1.5
14	200	3.8	18.3 +- 0.5; 2.7	14.0 +- 1.9
15	178	3.4	21.7 +- 0.7; 3.3	14.9 +- 1.4
16	160	3.7	18.0 +- 0.5; 2.7	13.9 +- 1.8
17	134	3.8	18.0 +- 0.5; 2.7	14.1 +- 1.7
18	115	4.3	19.9 +- 0.6; 3.0	14.9 +- 1.6
19	88	4.0	19.4 +- 0.6; 2.9	14.1 +- 1.7
20	90	6.2	18.4 +- 0.6; 2.8	13.5 +- 1.5
21	123	7.6	17.5 +- 0.5; 2.6	13.6 +- 1.8
22	151	11.0	17.7 +- 0.5; 2.7	13.9 +- 1.6
23	105	12.0	19.3 +- 0.6; 2.9	14.7 +- 2.1
24	212	14.0	24.0 +- 0.7; 3.6	18.3 +- 1.3
25	223	13.0	18.9 +- 0.6; 2.8	14.3 +- 2.1
26	242	16.0	23.5 +- 0.7; 3.5	15.9 +- 1.4
27	254	14.0	20.1 +- 0.6; 3.0	15.9 +- 1.8
28	234	6.9	19.8 +- 0.6; 3.0	14.4 +- 1.6
29	185	0.3	21.9 +- 0.7; 3.3	15.7 +- 1.3
30	264	15.0	17.9 +- 0.5; 2.7	14.0 +- 1.8

Transit Dose =

2.5 +- 0.3; 3.3

GINNA

For the period 930608-931028

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	No Data +- No Data	0
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	14.2 +- 1.0	3
101.26 - 123.75 ESE	13.7 +- 1.0	3
123.76 - 146.25 SE	14.1 +- 1.6	2
146.26 - 168.75 SSE	13.6 +- 1.4	3
168.76 - 191.25 S	15.9 +- 0.3	3
191.26 - 213.75 SSW	15.0 +- 2.5	3
213.76 - 236.25 SW	13.7 +- 0.5	4
236.26 - 258.75 WSW	14.8 +- 0.4	2
258.76 - 281.25 W	14.6 +- 0.2	2
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	14.9 +- 0.8	9
2 - 5	14.1 +- 1.1	9
> 5	14.1 +- 1.8	7
Upwind Control	15.0 +- 2.4	3

NRC TLD DOSES FOR GINNA AREA

Miles

0 2 4

Legend

Water

Highways

Railroads

Roads

Plant site

GRAND GULF
 TLD Direct Radiation Environmental Monitoring
 For the period 930609-931020 134 Days
 Field Time: 93 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	337	2.0	19.3 +- 0.6; 2.9	15.1 +- 0.6; 4.0
2	351	1.6	20.0 +- 0.6; 3.0	15.7 +- 0.7; 4.1
3	20	1.5	23.0 +- 0.7; 3.4	18.7 +- 0.7; 4.4
4	51	2.3	21.7 +- 0.7; 3.3	17.4 +- 0.7; 4.3
5	68	2.7	22.6 +- 0.7; 3.4	18.3 +- 0.7; 4.4
6	47	4.1	20.3 +- 0.6; 3.0	16.1 +- 0.7; 4.1
7	68	4.9	23.2 +- 0.7; 3.5	18.9 +- 0.8; 4.4
8	91	3.2	24.5 +- 0.7; 3.7	20.1 +- 0.8; 4.6
9	81	1.0	22.8 +- 0.7; 3.4	18.5 +- 0.7; 4.4
10	109	0.6	25.2 +- 0.8; 3.8	20.8 +- 0.8; 4.7
11	139	0.8	24.9 +- 0.7; 3.7	20.5 +- 0.8; 4.6
12	185	1.6	22.7 +- 0.7; 3.4	18.6 +- 0.7; 4.4
13	207	1.9	24.7 +- 0.7; 3.7	20.3 +- 0.8; 4.6
14	247	1.5	19.2 +- 0.6; 2.9	15.0 +- 0.6; 4.0
15	130	4.2	22.3 +- 0.7; 3.3	18.0 +- 0.7; 4.3
16	122	4.8	23.0 +- 0.7; 3.4	18.6 +- 0.7; 4.4
17	135	5.3	21.5 +- 0.6; 3.2	17.3 +- 0.7; 4.3
18	147	4.3	19.0 +- 0.6; 2.9	14.8 +- 0.6; 4.0
19	224	6.8	22.9 +- 0.7; 3.4	18.6 +- 0.7; 4.4
20	172	3.6	20.9 +- 0.6; 3.1	16.6 +- 0.7; 4.2
21	291	12.0	21.8 +- 0.7; 3.3	17.5 +- 0.7; 4.3
22	332	8.0	23.8 +- 0.7; 3.6	19.5 +- 0.8; 4.5
23	310	7.9	18.2 +- 0.5; 2.7	14.0 +- 0.6; 3.9
24	281	7.0	21.6 +- 0.6; 3.2	17.3 +- 0.7; 4.3
25	291	4.8	22.7 +- 0.7; 3.4	18.3 +- 0.7; 4.4
26	248	9.5	20.9 +- 0.6; 3.1	16.7 +- 0.7; 4.2
27	239	13.0	21.6 +- 0.6; 3.2	17.3 +- 0.7; 4.3
29	90	0.9	22.9 +- 0.7; 3.4	18.6 +- 0.7; 4.4
30	67	51.0	17.4 +- 0.5; 2.6	13.3 +- 0.6; 3.8
31	67	51.0	19.3 +- 0.6; 2.9	15.1 +- 0.6; 4.0
32	67	51.0	17.0 +- 0.5; 2.6	12.9 +- 0.6; 3.8
33	206	4.8	22.4 +- 0.7; 3.4	18.1 +- 0.7; 4.4

Transit Dose = 3.7 +- 0.3; 3.0

GRAND GULF
For the period 930609-931020

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	15.7 +- 0.0	1
11.26 - 33.75 NNE	18.7 +- 0.0	1
33.76 - 56.25 NE	16.7 +- 1.0	2
56.26 - 78.75 ENE	18.6 +- 0.4	2
78.76 - 101.25 E	19.1 +- 0.9	3
101.26 - 123.75 ESE	19.7 +- 1.5	2
123.76 - 146.25 SE	18.6 +- 1.7	3
146.26 - 168.75 SSE	14.8 +- 0.0	1
168.76 - 191.25 S	17.6 +- 1.3	2
191.26 - 213.75 SSW	19.2 +- 1.6	2
213.76 - 236.25 SW	18.6 +- 0.0	1
236.26 - 258.75 WSW	16.3 +- 1.2	3
258.76 - 281.25 W	17.3 +- 0.0	1
281.26 - 303.75 WNW	17.9 +- 0.6	2
303.76 - 326.25 NW	14.0 +- 0.0	1
326.26 - 348.75 NNW	17.3 +- 3.1	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	18.2 +- 2.2	10
2 - 5	17.8 +- 1.5	11
> 5	17.3 +- 1.6	8
Upwind Control	13.7 +- 1.2	3

NRC TLD DOSES FOR GRAND GULF AREA

Miles

Legend

Water

Railroads

Plant..site

Highways

Roads

HADDAM NECK
 TLD Direct Radiation Environmental Monitoring
 For the period 930608-931020 135 Days
 Field Time: 91 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
2	17	25.0 +- 0.8; 3.8	22.6 +- 0.8; 4.6	18.7 +- 1.8
3	45	23.8 +- 0.7; 3.6	21.4 +- 0.8; 4.5	18.4 +- 2.6
4	67	23.5 +- 0.7; 3.5	21.1 +- 0.8; 4.5	17.6 +- 1.6
5	93	21.4 +- 0.6; 3.2	19.0 +- 0.7; 4.2	16.0 +- 1.6
6	115	21.1 +- 0.6; 3.2	18.7 +- 0.7; 4.2	15.6 +- 1.8
7	143	23.2 +- 0.7; 3.5	20.8 +- 0.7; 4.4	17.5 +- 1.9
8	165	21.6 +- 0.6; 3.2	19.2 +- 0.7; 4.2	16.7 +- 1.3
9	174	24.5 +- 0.7; 3.7	22.0 +- 0.8; 4.6	18.1 +- 1.9
10	195	21.2 +- 0.6; 3.2	18.8 +- 0.7; 4.2	16.0 +- 1.7
12	241	23.1 +- 0.7; 3.5	20.7 +- 0.7; 4.4	17.1 +- 1.5
13	263	21.0 +- 0.6; 3.2	18.6 +- 0.7; 4.2	15.9 +- 1.7
14	290	22.9 +- 0.7; 3.4	20.5 +- 0.7; 4.4	17.6 +- 1.7
15	311	20.1 +- 0.6; 3.0	17.7 +- 0.7; 4.1	15.3 +- 1.6
16	341	Missing Dosimeter	No Net Data	16.7 +- 1.6
17	360	24.8 +- 0.7; 3.7	22.3 +- 0.8; 4.6	19.4 +- 1.8
18	222	20.9 +- 0.6; 3.1	18.5 +- 0.7; 4.2	16.0 +- 1.6
19	269	21.8 +- 0.7; 3.3	19.4 +- 0.7; 4.3	16.0 +- 1.8
20	66	21.4 +- 0.6; 3.2	19.0 +- 0.7; 4.2	16.4 +- 1.6
21	91	23.2 +- 0.7; 3.5	20.8 +- 0.7; 4.4	18.0 +- 1.9
22	112	22.6 +- 0.7; 3.4	20.2 +- 0.7; 4.4	16.7 +- 1.9
23	137	22.5 +- 0.7; 3.4	20.1 +- 0.7; 4.3	16.4 +- 2.0
24	155	19.5 +- 0.6; 2.9	17.1 +- 0.6; 4.0	15.7 +- 1.5
25	175	22.1 +- 0.7; 3.3	19.7 +- 0.7; 4.3	16.0 +- 1.7
26	196	20.6 +- 0.6; 3.1	18.2 +- 0.7; 4.1	15.3 +- 1.5
27	225	23.1 +- 0.7; 3.5	20.7 +- 0.7; 4.4	17.3 +- 1.9
28	250	23.7 +- 0.7; 3.6	21.3 +- 0.8; 4.5	16.9 +- 2.6
29	340	23.7 +- 0.7; 3.5	21.2 +- 0.8; 4.5	20.6 +- 4.1
30	286	21.5 +- 0.6; 3.2	19.1 +- 0.7; 4.2	16.0 +- 1.6
31	322	23.2 +- 0.7; 3.5	20.7 +- 0.7; 4.4	17.1 +- 1.7
32	327	22.9 +- 0.7; 3.5	20.9 +- 0.7; 4.4	19.0 +- 1.7
33	359	20.9 +- 0.6; 3.1	18.5 +- 0.7; 4.2	15.9 +- 1.4
35	54	21.4 +- 0.6; 3.2	19.0 +- 0.7; 4.2	16.7 +- 1.6
36	72	24.0 +- 0.7; 3.6	21.6 +- 0.8; 4.5	18.9 +- 1.7
37	149	20.4 +- 0.6; 3.1	18.0 +- 0.7; 4.1	15.3 +- 1.6
38	158	20.1 +- 0.6; 3.0	17.7 +- 0.7; 4.1	15.0 +- 1.6
39	267	20.0 +- 0.6; 3.0	17.6 +- 0.7; 4.1	16.5 +- 1.8
40	303	21.8 +- 0.7; 3.3	19.4 +- 0.7; 4.3	18.0 +- 1.4
41	313	22.3 +- 0.7; 3.4	19.9 +- 0.7; 4.3	16.2 +- 1.5
42	320	23.4 +- 0.7; 3.5	21.0 +- 0.8; 4.5	18.2 +- 1.7
43	324	20.4 +- 0.6; 3.1	18.0 +- 0.7; 4.1	15.9 +- 1.4
44	328	23.5 +- 0.7; 3.5	21.0 +- 0.8; 4.5	17.5 +- 1.8
45	343	24.4 +- 0.7; 3.7	21.9 +- 0.8; 4.6	18.3 +- 1.8
46	144	22.9 +- 0.7; 3.4	20.5 +- 0.7; 4.4	17.3 +- 2.1
49	340	22.9 +- 0.7; 3.4	20.5 +- 0.7; 4.4	17.9 +- 1.8

Transit Dose = 2.2 +- 0.3; 2.8

HADDAM NECK
For the period 930608-931020

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	20.4 +- 2.7	2
11.26 - 33.75 NNE	22.6 +- 0.0	1
33.76 - 56.25 NE	20.2 +- 1.7	2
56.26 - 78.75 ENE	20.6 +- 1.4	3
78.76 - 101.25 E	19.9 +- 1.3	2
101.26 - 123.75 ESE	19.4 +- 1.1	2
123.76 - 146.25 SE	20.5 +- 0.4	3
146.26 - 168.75 SSE	18.0 +- 0.9	4
168.76 - 191.25 S	20.9 +- 1.6	2
191.26 - 213.75 SSW	18.5 +- 0.4	2
213.76 - 236.25 SW	19.6 +- 1.6	2
236.26 - 258.75 WSW	21.0 +- 0.4	2
258.76 - 281.25 W	18.6 +- 0.9	3
281.26 - 303.75 WNW	19.7 +- 0.7	3
303.76 - 326.25 NW	19.5 +- 1.5	5
326.26 - 348.75 NNW	21.3 +- 0.5	4

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	19.9 +- 1.4	11
2 - 5	20.2 +- 1.3	16
> 5	19.5 +- 1.6	15
Upwind Control	20.5 +- 0.0	1

NRC TLD DOSES FOR HADDAM NECK AREA

Miles

Legend

Water
Highways

Railroads
Roads

Plant..site

HARRIS

TLD Direct Radiation Environmental Monitoring

For the period 930609-931021 135 Days

Field Time: 92 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	36 2.6	18.2 +- 0.5; 2.7	13.6 +- 0.6; 4.0	17.2 +- 2.2
2	25 3.2	18.3 +- 0.5; 2.7	13.7 +- 0.6; 4.0	14.9 +- 3.7
3	5 2.5	Missing Dosimeter	No Net Data	17.3 +- 1.8
4	27 1.5	20.0 +- 0.6; 3.0	15.4 +- 0.7; 4.2	18.1 +- 2.4
5	36 0.9	17.2 +- 0.5; 2.6	12.6 +- 0.6; 3.9	14.8 +- 1.9
6	68 0.8	16.0 +- 0.5; 2.4	11.4 +- 0.6; 3.8	12.9 +- 3.5
7	98 0.7	18.3 +- 0.5; 2.7	13.6 +- 0.6; 4.0	15.9 +- 1.8
8	232 0.7	17.8 +- 0.5; 2.7	13.2 +- 0.6; 3.9	14.1 +- 3.5
9	190 0.8	15.7 +- 0.5; 2.4	11.1 +- 0.6; 3.7	12.6 +- 3.6
10	158 0.7	17.4 +- 0.5; 2.6	12.8 +- 0.6; 3.9	14.0 +- 3.8
11	42 4.7	21.0 +- 0.6; 3.1	16.3 +- 0.7; 4.3	19.9 +- 2.4
12	40 8.6	20.6 +- 0.6; 3.1	15.9 +- 0.7; 4.2	16.5 +- 3.5
13	298 13.0	17.5 +- 0.5; 2.6	12.9 +- 0.6; 3.9	13.6 +- 3.7
14	298 12.0	17.0 +- 0.5; 2.6	12.4 +- 0.6; 3.9	14.4 +- 3.8
15	298 11.0	15.3 +- 0.5; 2.3	10.8 +- 0.6; 3.7	13.0 +- 3.8
16	332 4.8	16.3 +- 0.5; 2.4	11.7 +- 0.6; 3.8	14.5 +- 3.9
17	291 4.5	13.7 +- 0.4; 2.0	9.1 +- 0.5; 3.6	13.2 +- 3.3
18	270 5.1	16.3 +- 0.5; 2.4	11.7 +- 0.6; 3.8	14.5 +- 3.5
19	240 5.1	19.9 +- 0.6; 3.0	15.2 +- 0.7; 4.2	16.9 +- 3.8
20	227 4.8	17.1 +- 0.5; 2.6	12.5 +- 0.6; 3.9	12.5 +- 3.6
21	208 4.8	15.4 +- 0.5; 2.3	10.8 +- 0.6; 3.7	12.4 +- 3.7
22	190 4.6	16.9 +- 0.5; 2.5	12.3 +- 0.6; 3.9	14.3 +- 3.4
23	151 4.8	15.4 +- 0.5; 2.3	10.8 +- 0.6; 3.7	14.0 +- 3.9
24	132 4.7	17.0 +- 0.5; 2.5	12.4 +- 0.6; 3.9	13.8 +- 3.9
25	112 5.0	18.3 +- 0.5; 2.7	13.7 +- 0.6; 4.0	15.8 +- 3.6
26	92 4.6	15.8 +- 0.5; 2.4	11.3 +- 0.6; 3.8	12.9 +- 2.8
27	115 2.8	17.5 +- 0.5; 2.6	12.9 +- 0.6; 3.9	14.5 +- 2.4
28	135 2.3	14.8 +- 0.4; 2.2	10.3 +- 0.6; 3.7	11.6 +- 3.8
29	164 2.2	17.2 +- 0.5; 2.6	12.6 +- 0.6; 3.9	14.9 +- 3.9
30	49 2.2	16.9 +- 0.5; 2.5	12.4 +- 0.6; 3.9	14.2 +- 3.4
31	276 1.8	17.3 +- 0.5; 2.6	12.7 +- 0.6; 3.9	14.0 +- 3.7
32	292 1.7	21.0 +- 0.6; 3.2	16.3 +- 0.7; 4.3	17.8 +- 2.2
33	314 1.4	18.8 +- 0.6; 2.8	14.2 +- 0.7; 4.0	16.3 +- 3.6
34	329 1.3	18.3 +- 0.5; 2.7	13.7 +- 0.6; 4.0	16.3 +- 3.7
35	350 4.5	18.7 +- 0.6; 2.8	14.0 +- 0.6; 4.0	16.6 +- 1.9
36	338 4.4	16.7 +- 0.5; 2.5	12.2 +- 0.6; 3.8	17.1 +- 4.0
37	16 4.9	16.1 +- 0.5; 2.4	11.5 +- 0.6; 3.8	16.3 +- 2.5
38	68 4.8	15.0 +- 0.5; 2.3	10.4 +- 0.6; 3.7	13.0 +- 1.9
39	80 6.9	18.5 +- 0.6; 2.8	13.8 +- 0.6; 4.0	15.1 +- 1.8
40	80 6.9	15.2 +- 0.5; 2.3	10.7 +- 0.6; 3.7	14.4 +- 2.2
41	118 9.7	21.5 +- 0.6; 3.2	16.8 +- 0.7; 4.3	19.1 +- 3.9
42	260 1.1	16.8 +- 0.5; 2.5	12.2 +- 0.6; 3.9	14.1 +- 3.6
43	333 1.7	18.3 +- 0.5; 2.7	13.7 +- 0.6; 4.0	16.0 +- 4.4
44	50 24.0	21.7 +- 0.7; 3.3	17.0 +- 0.7; 4.3	20.5 +- 4.0

Transit Dose = 4.3 +- 0.4; 3.0

HARRIS

For the period 930609-931021

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	14.0 +- 0.0	1
11.26 - 33.75 NNE	13.5 +- 1.9	3
33.76 - 56.25 NE	14.6 +- 2.0	6
56.26 - 78.75 ENE	10.9 +- 0.7	2
78.76 - 101.25 E	12.4 +- 1.6	4
101.26 - 123.75 ESE	14.5 +- 2.0	3
123.76 - 146.25 SE	11.3 +- 1.5	2
146.26 - 168.75 SSE	12.1 +- 1.1	3
168.76 - 191.25 S	11.7 +- 0.8	2
191.26 - 213.75 SSW	10.8 +- 0.0	1
213.76 - 236.25 SW	12.8 +- 0.5	2
236.26 - 258.75 WSW	15.2 +- 0.0	1
258.76 - 281.25 W	12.2 +- 0.5	3
281.26 - 303.75 WNW	12.7 +- 5.1	2
303.76 - 326.25 NW	14.2 +- 0.0	1
326.26 - 348.75 NNW	12.8 +- 1.0	4

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	13.3 +- 1.4	13
2 - 5	12.2 +- 1.6	20
> 5	14.4 +- 2.5	7
Upwind Control	12.0 +- 1.1	3

NRC TLD DOSES FOR HARRIS AREA

Miles

0 2 4

Legend

Water

Highways

Railroads

Roads

Plant..site

HATCH
 TLD Direct Radiation Environmental Monitoring
 For the period 930609-931026 140 Days
 Field Time: 91 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	342 23.0	20.2 +- 0.6; 3.0	18.6 +- 0.7; 4.1	16.2 +- 2.5
2	359 7.7	18.4 +- 0.6; 2.8	16.8 +- 0.6; 3.9	14.3 +- 2.5
3	354 4.5	19.5 +- 0.6; 2.9	17.9 +- 0.6; 4.0	14.2 +- 2.5
4	336 2.9	15.8 +- 0.5; 2.4	14.2 +- 0.5; 3.6	13.2 +- 2.4
5	309 4.6	17.8 +- 0.5; 2.7	16.2 +- 0.6; 3.8	13.6 +- 2.4
6	297 5.6	19.8 +- 0.6; 3.0	18.1 +- 0.6; 4.0	15.7 +- 2.7
7	24 2.8	18.1 +- 0.5; 2.7	16.5 +- 0.6; 3.8	14.0 +- 2.7
8	49 2.0	18.1 +- 0.5; 2.7	16.5 +- 0.6; 3.8	13.9 +- 2.5
9	49 10.0	17.5 +- 0.5; 2.6	15.8 +- 0.6; 3.8	13.7 +- 2.4
10	28 4.8	19.0 +- 0.6; 2.9	17.4 +- 0.6; 3.9	14.4 +- 2.4
11	67 5.0	17.6 +- 0.5; 2.6	16.0 +- 0.6; 3.8	14.3 +- 2.4
12	50 5.1	22.3 +- 0.7; 3.3	20.6 +- 0.7; 4.3	18.3 +- 2.9
13	353 2.0	15.8 +- 0.5; 2.4	14.2 +- 0.5; 3.6	12.7 +- 2.4
14	341 1.6	20.6 +- 0.6; 3.1	19.0 +- 0.7; 4.1	14.7 +- 2.6
15	147 10.0	17.1 +- 0.5; 2.6	15.5 +- 0.6; 3.7	13.0 +- 2.2
16	232 0.9	17.0 +- 0.5; 2.5	15.4 +- 0.6; 3.7	13.2 +- 2.3
17	205 1.6	18.6 +- 0.6; 2.8	17.0 +- 0.6; 3.9	14.4 +- 2.4
18	192 4.2	14.0 +- 0.4; 2.1	12.4 +- 0.5; 3.4	11.7 +- 2.2
19	184 4.2	15.2 +- 0.5; 2.3	13.6 +- 0.5; 3.5	11.5 +- 2.4
20	165 4.6	16.0 +- 0.5; 2.4	14.4 +- 0.5; 3.6	12.3 +- 2.5
21	135 4.4	16.3 +- 0.5; 2.4	14.7 +- 0.6; 3.6	12.9 +- 2.3
22	120 4.1	16.7 +- 0.5; 2.5	15.0 +- 0.6; 3.7	14.6 +- 2.7
23	107 3.7	15.9 +- 0.5; 2.4	14.3 +- 0.5; 3.6	13.6 +- 2.4
24	123 14.0	15.9 +- 0.5; 2.4	14.3 +- 0.5; 3.6	12.3 +- 2.3
25	114 12.0	17.3 +- 0.5; 2.6	15.7 +- 0.6; 3.7	13.5 +- 2.3
26	142 1.8	17.4 +- 0.5; 2.6	15.8 +- 0.6; 3.8	14.4 +- 2.5
27	157 2.2	18.0 +- 0.5; 2.7	16.3 +- 0.6; 3.8	13.4 +- 2.3
28	171 0.9	18.8 +- 0.6; 2.8	17.2 +- 0.6; 3.9	14.6 +- 2.3
29	253 1.0	16.8 +- 0.5; 2.5	15.2 +- 0.6; 3.7	13.8 +- 3.4
30	270 1.0	19.1 +- 0.6; 2.9	17.5 +- 0.6; 3.9	15.3 +- 3.1
31	292 1.1	17.7 +- 0.5; 2.7	16.1 +- 0.6; 3.8	13.8 +- 2.4
32	268 4.2	16.4 +- 0.5; 2.5	14.8 +- 0.6; 3.7	13.7 +- 2.2
33	248 4.3	15.5 +- 0.5; 2.3	13.9 +- 0.5; 3.6	12.3 +- 2.5
34	216 4.1	15.5 +- 0.5; 2.3	13.9 +- 0.5; 3.6	11.6 +- 2.4
35	234 12.0	18.7 +- 0.6; 2.8	17.1 +- 0.6; 3.9	13.7 +- 2.4
36	182 10.0	Missing Dosimeter	No Net Data	13.0 +- 2.9
37	177 10.0	16.6 +- 0.5; 2.5	15.0 +- 0.6; 3.7	12.5 +- 2.3
38	323 12.0	18.8 +- 0.6; 2.8	17.2 +- 0.6; 3.9	15.1 +- 2.5
39	321 13.0	20.1 +- 0.6; 3.0	18.5 +- 0.7; 4.0	15.3 +- 2.4
40	323 12.0	18.3 +- 0.5; 2.7	16.7 +- 0.6; 3.9	15.3 +- 2.5

Transit Dose = 1.4 +- 0.3; 2.8

HATCH

For the period 930609-931026

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	16.3 +- 1.9	3
11.26 - 33.75 NNE	16.9 +- 0.7	2
33.76 - 56.25 NE	17.6 +- 2.6	3
56.26 - 78.75 ENE	16.0 +- 0.0	1
78.76 - 101.25 E	No Data +- No Data	0
101.26 - 123.75 ESE	14.8 +- 0.7	4
123.76 - 146.25 SE	15.2 +- 0.8	2
146.26 - 168.75 SSE	15.4 +- 1.0	3
168.76 - 191.25 S	15.2 +- 1.8	3
191.26 - 213.75 SSW	14.7 +- 3.3	2
213.76 - 236.25 SW	15.4 +- 1.6	3
236.26 - 258.75 WSW	14.5 +- 0.9	2
258.76 - 281.25 W	16.2 +- 1.9	2
281.26 - 303.75 WNW	17.1 +- 1.5	2
303.76 - 326.25 NW	16.2 +- 0.0	1
326.26 - 348.75 NNW	17.3 +- 2.6	3

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	16.4 +- 1.4	10
2 - 5	15.1 +- 1.5	16
> 5	16.7 +- 1.9	10
Upwind Control	17.4 +- 0.9	3

NRC TLD DOSES FOR HATCH AREA

Miles

0 2 4

Legend

Water

Highways

Railroads

Roads

Plant..site

INDIAN POINT

TLD Direct Radiation Environmental Monitoring

For the period 930608-931027 142 Days

Field Time: 106 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	52 1.4	17.2 +- 0.5; 2.6	11.7 +- 0.5; 3.6	13.0 +- 2.0
2	53 1.0	19.0 +- 0.6; 2.8	13.2 +- 0.6; 3.7	15.2 +- 2.3
3	61 1.5	21.6 +- 0.6; 3.2	15.4 +- 0.6; 4.0	14.9 +- 1.6
4	89 1.2	20.6 +- 0.6; 3.1	14.6 +- 0.6; 3.9	15.5 +- 1.8
5	107 0.9	20.5 +- 0.6; 3.1	14.5 +- 0.6; 3.9	15.7 +- 1.6
6	90 0.5	21.8 +- 0.7; 3.3	15.6 +- 0.6; 4.0	16.0 +- 1.7
7	133 0.8	20.8 +- 0.6; 3.1	14.7 +- 0.6; 3.9	15.2 +- 2.0
8	158 0.8	22.8 +- 0.7; 3.4	16.5 +- 0.7; 4.1	15.9 +- 1.5
9	188 1.2	22.9 +- 0.7; 3.4	16.5 +- 0.7; 4.1	17.0 +- 1.8
10	206 0.9	21.0 +- 0.6; 3.2	15.0 +- 0.6; 3.9	15.5 +- 1.9
11	170 1.1	18.2 +- 0.5; 2.7	12.6 +- 0.6; 3.7	13.7 +- 1.5
12	155 2.3	19.9 +- 0.6; 3.0	14.0 +- 0.6; 3.8	15.0 +- 1.8
13	136 3.2	21.1 +- 0.6; 3.2	15.0 +- 0.6; 3.9	15.0 +- 1.8
14	107 3.1	19.5 +- 0.6; 2.9	13.6 +- 0.6; 3.8	14.0 +- 1.8
15	94 3.8	19.4 +- 0.6; 2.9	13.6 +- 0.6; 3.8	14.9 +- 1.4
16	142 5.7	21.1 +- 0.6; 3.2	15.0 +- 0.6; 3.9	16.5 +- 1.6
18	147 9.1	22.0 +- 0.7; 3.3	15.8 +- 0.6; 4.0	16.3 +- 1.7
19	137 12.0	19.5 +- 0.6; 2.9	13.7 +- 0.6; 3.8	15.3 +- 2.5
20	129 12.0	19.0 +- 0.6; 2.8	13.2 +- 0.6; 3.7	15.3 +- 1.8
22	74 7.5	22.2 +- 0.7; 3.3	16.0 +- 0.6; 4.0	15.7 +- 1.8
23	5 100.0	24.1 +- 0.7; 3.6	17.6 +- 0.7; 4.2	16.8 +- 1.5
24	5 100.0	24.0 +- 0.7; 3.6	17.5 +- 0.7; 4.2	16.8 +- 1.7
25	65 4.1	20.6 +- 0.6; 3.1	14.6 +- 0.6; 3.9	15.1 +- 1.8
26	40 4.0	24.9 +- 0.7; 3.7	18.3 +- 0.7; 4.3	18.0 +- 1.4
27	25 5.3	22.9 +- 0.7; 3.4	16.5 +- 0.7; 4.1	16.4 +- 1.9
28	24 2.9	21.6 +- 0.6; 3.2	15.4 +- 0.6; 4.0	15.8 +- 1.6
29	22 2.1	22.7 +- 0.7; 3.4	16.4 +- 0.7; 4.1	15.7 +- 1.7
30	8 1.9	22.6 +- 0.7; 3.4	16.3 +- 0.7; 4.0	16.9 +- 1.9
31	356 5.0	23.0 +- 0.7; 3.5	16.7 +- 0.7; 4.1	16.0 +- 1.9
32	330 3.7	19.6 +- 0.6; 2.9	13.7 +- 0.6; 3.8	17.3 +- 1.7
33	338 4.7	22.2 +- 0.7; 3.3	15.9 +- 0.6; 4.0	17.7 +- 1.6
34	354 7.0	23.2 +- 0.7; 3.5	16.8 +- 0.7; 4.1	19.5 +- 3.0
35	297 4.4	22.2 +- 0.7; 3.3	16.0 +- 0.6; 4.0	16.7 +- 1.9
36	309 3.6	27.6 +- 0.8; 4.1	20.5 +- 0.8; 4.5	23.1 +- 6.6
37	350 1.1	22.5 +- 0.7; 3.4	16.2 +- 0.7; 4.0	17.1 +- 1.4
38	337 0.9	23.2 +- 0.7; 3.5	16.8 +- 0.7; 4.1	16.9 +- 1.7
39	315 1.0	21.7 +- 0.7; 3.3	15.6 +- 0.6; 4.0	15.5 +- 1.6
40	294 1.1	22.8 +- 0.7; 3.4	16.5 +- 0.7; 4.1	17.1 +- 2.0
41	274 1.1	29.0 +- 0.9; 4.4	21.8 +- 0.8; 4.7	18.6 +- 1.9
42	248 1.5	22.4 +- 0.7; 3.4	16.1 +- 0.6; 4.0	17.5 +- 2.0
44	5 100.0	23.9 +- 0.7; 3.6	17.4 +- 0.7; 4.2	16.7 +- 1.8
45	227 2.4	21.8 +- 0.7; 3.3	15.6 +- 0.6; 4.0	16.9 +- 2.3
46	209 3.2	19.2 +- 0.6; 2.9	13.4 +- 0.6; 3.8	15.5 +- 2.2
47	218 5.3	19.6 +- 0.6; 2.9	13.8 +- 0.6; 3.8	15.5 +- 1.7
48	201 4.6	Damaged Dosimeter	No Net Data	16.3 +- 1.5
49	187 5.2	Damaged Dosimeter	No Net Data	14.2 +- 1.8
50	171 7.1	19.3 +- 0.6; 2.9	13.5 +- 0.6; 3.8	14.5 +- 1.6

Transit Dose = 3.4 +- 0.4; 3.3

INDIAN POINT
For the period 930608-931027

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	16.5 +- 0.3	4
11.26 - 33.75 NNE	16.1 +- 0.6	3
33.76 - 56.25 NE	14.4 +- 3.4	3
56.26 - 78.75 ENE	15.3 +- 0.7	3
78.76 - 101.25 E	14.6 +- 1.0	3
101.26 - 123.75 ESE	14.1 +- 0.6	2
123.76 - 146.25 SE	14.3 +- 0.8	5
146.26 - 168.75 SSE	15.4 +- 1.3	3
168.76 - 191.25 S	14.2 +- 2.1	3
191.26 - 213.75 SSW	14.2 +- 1.1	2
213.76 - 236.25 SW	14.7 +- 1.3	2
236.26 - 258.75 WSW	16.1 +- 0.0	1
258.76 - 281.25 W	21.8 +- 0.0	1
281.26 - 303.75 WNW	16.2 +- 0.4	2
303.76 - 326.25 NW	18.0 +- 3.5	2
326.26 - 348.75 NNW	15.5 +- 1.6	3

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	15.5 +- 2.1	18
2 - 5	15.5 +- 2.0	15
> 5	14.9 +- 1.4	9
Upwind Control	17.5 +- 0.1	3

NRC TLD DOSES FOR INDIAN POINT AREA

Miles

Legend

Water

Railroads

Plant..site

Highways

Roads

KEWAUNEE/PT. BEACH

TLD Direct Radiation Environmental Monitoring

For the period 930607-931021 137 Days

Field Time: 92 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	189 8.1	17.0 +- 0.5; 2.6	13.4 +- 0.6; 3.8	12.5 +- 1.8
2	195 7.0	23.1 +- 0.7; 3.5	19.3 +- 0.8; 4.4	17.3 +- 2.1
3	163 4.9	17.8 +- 0.5; 2.7	14.1 +- 0.6; 3.9	13.1 +- 2.0
4	183 3.3	21.4 +- 0.6; 3.2	17.7 +- 0.7; 4.3	16.3 +- 2.2
5	210 3.2	17.3 +- 0.5; 2.6	13.7 +- 0.6; 3.8	12.2 +- 2.3
6	223 3.7	22.2 +- 0.7; 3.3	18.5 +- 0.7; 4.3	16.4 +- 2.3
7	242 5.7	18.5 +- 0.6; 2.8	14.8 +- 0.6; 4.0	13.9 +- 1.7
8	202 1.8	22.2 +- 0.7; 3.3	18.5 +- 0.7; 4.3	17.0 +- 1.9
9	180 1.8	19.7 +- 0.6; 3.0	16.0 +- 0.7; 4.1	15.7 +- 2.1
10	158 1.9	17.9 +- 0.5; 2.7	14.2 +- 0.6; 3.9	12.9 +- 2.0
11	235 1.2	21.7 +- 0.7; 3.3	18.0 +- 0.7; 4.3	16.8 +- 2.2
12	258 1.4	21.3 +- 0.6; 3.2	17.5 +- 0.7; 4.2	15.3 +- 2.2
13	273 1.4	21.5 +- 0.6; 3.2	17.7 +- 0.7; 4.3	15.6 +- 2.1
14	290 0.9	21.0 +- 0.6; 3.1	17.2 +- 0.7; 4.2	16.6 +- 1.9
15	333 0.8	20.0 +- 0.6; 3.0	16.3 +- 0.7; 4.1	15.4 +- 2.1
16	342 1.9	20.5 +- 0.6; 3.1	16.7 +- 0.7; 4.2	15.3 +- 2.0
17	317 2.0	18.8 +- 0.6; 2.8	15.1 +- 0.6; 4.0	13.7 +- 2.7
18	310 3.4	22.5 +- 0.7; 3.4	18.7 +- 0.7; 4.4	17.6 +- 1.9
19	293 4.0	19.5 +- 0.6; 2.9	15.8 +- 0.7; 4.1	14.7 +- 2.4
20	273 4.0	20.0 +- 0.6; 3.0	16.3 +- 0.7; 4.1	14.4 +- 2.5
21	300 5.6	19.7 +- 0.6; 3.0	16.0 +- 0.7; 4.1	14.5 +- 1.8
22	316 5.9	21.3 +- 0.6; 3.2	17.6 +- 0.7; 4.2	15.2 +- 2.0
23	345 2.7	21.9 +- 0.7; 3.3	18.2 +- 0.7; 4.3	16.6 +- 2.3
24	219 1.3	20.0 +- 0.6; 3.0	16.3 +- 0.7; 4.1	14.8 +- 2.1
25	247 1.4	21.7 +- 0.7; 3.3	18.0 +- 0.7; 4.3	16.4 +- 1.8
26	263 1.3	21.0 +- 0.6; 3.1	17.2 +- 0.7; 4.2	16.1 +- 2.0
27	290 1.4	22.1 +- 0.7; 3.3	18.4 +- 0.7; 4.3	16.6 +- 2.0
28	320 1.3	22.9 +- 0.7; 3.4	19.1 +- 0.7; 4.4	16.7 +- 2.3
29	342 1.1	21.7 +- 0.7; 3.3	17.9 +- 0.7; 4.3	15.6 +- 2.8
30	329 0.6	21.1 +- 0.6; 3.2	17.3 +- 0.7; 4.2	16.3 +- 2.0
31	13 1.0	Missing Dosimeter	No Net Data	14.6 +- 1.9
32	353 2.1	20.8 +- 0.6; 3.1	17.1 +- 0.7; 4.2	16.1 +- 2.0
33	301 3.9	18.2 +- 0.5; 2.7	14.5 +- 0.6; 3.9	15.2 +- 2.0
34	299 8.4	20.6 +- 0.6; 3.1	16.9 +- 0.7; 4.2	15.9 +- 1.9
35	323 3.8	19.2 +- 0.6; 2.9	15.5 +- 0.6; 4.0	14.0 +- 2.2
36	336 3.3	22.6 +- 0.7; 3.4	18.9 +- 0.7; 4.4	16.3 +- 2.2
37	6 3.1	19.8 +- 0.6; 3.0	16.1 +- 0.7; 4.1	14.5 +- 1.9
38	14 3.7	20.3 +- 0.6; 3.0	16.6 +- 0.7; 4.1	15.2 +- 2.0
39	13 7.6	17.4 +- 0.5; 2.6	13.8 +- 0.6; 3.8	13.0 +- 1.7
40	247 4.3	20.9 +- 0.6; 3.1	17.1 +- 0.7; 4.2	17.9 +- 2.1
41	8 23.0	17.6 +- 0.5; 2.6	14.0 +- 0.6; 3.9	13.2 +- 2.6
42	8 23.0	17.9 +- 0.5; 2.7	14.2 +- 0.6; 3.9	13.5 +- 2.0
43	8 23.0	17.8 +- 0.5; 2.7	14.1 +- 0.6; 3.9	12.8 +- 2.1

Transit Dose = 3.3 +- 0.3; 2.9

KEWAUNEE/PT. BEACH
For the period 930607-931021

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	16.6 +- 0.7	2
11.26 - 33.75 NNE	15.2 +- 2.0	2
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	14.2 +- 0.1	2
168.76 - 191.25 S	15.7 +- 2.1	3
191.26 - 213.75 SSW	17.2 +- 3.0	3
213.76 - 236.25 SW	17.6 +- 1.1	3
236.26 - 258.75 WSW	16.9 +- 1.4	4
258.76 - 281.25 W	17.1 +- 0.7	3
281.26 - 303.75 WNW	16.5 +- 1.3	6
303.76 - 326.25 NW	17.2 +- 1.8	5
326.26 - 348.75 NNW	17.6 +- 0.9	6

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	17.2 +- 1.3	17
2 - 5	16.6 +- 1.7	15
> 5	16.0 +- 2.1	7
Upwind Control	14.1 +- 0.1	3

NRC TLD DOSES FOR KEWAUNEE/PT. BEACH AREA

LACROSSE
 TLD Direct Radiation Environmental Monitoring
 For the period 930610-931027 140 Days
 Field Time: 92 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	5 20.0	21.6 +- 0.6; 3.2	16.3 +- 0.7; 4.4	14.9 +- 1.9
2	5 20.0	21.6 +- 0.6; 3.2	16.4 +- 0.7; 4.4	15.2 +- 1.6
3	3 20.0	21.9 +- 0.7; 3.3	16.6 +- 0.7; 4.4	15.7 +- 1.5
4	343 3.8	20.3 +- 0.6; 3.1	15.1 +- 0.7; 4.2	15.1 +- 1.6
5	313 3.8	20.7 +- 0.6; 3.1	15.4 +- 0.7; 4.3	17.5 +- 2.8
6	291 3.0	21.2 +- 0.6; 3.2	16.0 +- 0.7; 4.3	16.2 +- 1.5
7	261 4.8	24.5 +- 0.7; 3.7	19.2 +- 0.8; 4.7	17.7 +- 1.7
8	249 3.2	22.6 +- 0.7; 3.4	17.3 +- 0.8; 4.5	17.5 +- 1.9
9	214 5.0	20.0 +- 0.6; 3.0	14.7 +- 0.7; 4.2	15.8 +- 1.7
10	171 9.8	22.2 +- 0.7; 3.3	16.9 +- 0.7; 4.4	14.3 +- 1.3
11	176 5.1	20.4 +- 0.6; 3.1	15.2 +- 0.7; 4.2	14.8 +- 1.1
12	165 4.9	21.8 +- 0.7; 3.3	16.5 +- 0.7; 4.4	16.3 +- 1.4
13	138 3.5	23.3 +- 0.7; 3.5	17.9 +- 0.8; 4.6	16.5 +- 1.7
14	114 4.2	21.4 +- 0.6; 3.2	16.1 +- 0.7; 4.3	15.4 +- 1.6
15	97 3.9	20.9 +- 0.6; 3.1	15.6 +- 0.7; 4.3	14.8 +- 1.1
16	94 3.0	22.7 +- 0.7; 3.4	17.4 +- 0.8; 4.5	16.7 +- 1.8
17	105 2.0	19.8 +- 0.6; 3.0	14.5 +- 0.7; 4.2	17.0 +- 2.0
18	52 1.5	21.0 +- 0.6; 3.1	15.7 +- 0.7; 4.3	14.3 +- 1.5
19	16 1.5	19.4 +- 0.6; 2.9	14.2 +- 0.7; 4.1	14.7 +- 1.3
20	1 1.0	18.0 +- 0.5; 2.7	12.8 +- 0.6; 4.0	13.9 +- 1.3
21	358 0.5	23.2 +- 0.7; 3.5	17.9 +- 0.8; 4.5	17.3 +- 1.4
22	180 0.6	22.2 +- 0.7; 3.3	17.0 +- 0.7; 4.4	16.3 +- 1.4
23	134 1.7	21.0 +- 0.6; 3.1	15.7 +- 0.7; 4.3	16.9 +- 1.5
24	58 0.6	23.9 +- 0.7; 3.6	18.6 +- 0.8; 4.6	17.4 +- 1.8
25	59 3.1	23.3 +- 0.7; 3.5	18.0 +- 0.8; 4.6	17.5 +- 1.6
26	16 1.5	23.6 +- 0.7; 3.5	18.2 +- 0.8; 4.6	16.5 +- 1.8
27	26 5.1	21.2 +- 0.6; 3.2	15.9 +- 0.7; 4.3	15.5 +- 1.4
28	25 7.0	Missing Dosimeter	No Net Data	14.1 +- 1.7
29	4 4.8	22.6 +- 0.7; 3.4	17.3 +- 0.8; 4.5	16.1 +- 1.7

Transit Dose = 4.9 +- 0.4; 3.1

LACROSSE
For the period 930610-931027

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	16.0 +- 2.8	3
11.26 - 33.75 NNE	16.1 +- 2.0	3
33.76 - 56.25 NE	15.7 +- 0.0	1
56.26 - 78.75 ENE	18.3 +- 0.4	2
78.76 - 101.25 E	16.5 +- 1.2	2
101.26 - 123.75 ESE	15.3 +- 1.1	2
123.76 - 146.25 SE	16.8 +- 1.6	2
146.26 - 168.75 SSE	16.5 +- 0.0	1
168.76 - 191.25 S	16.3 +- 1.0	3
191.26 - 213.75 SSW	No Data +- No Data	0
213.76 - 236.25 SW	14.7 +- 0.0	1
236.26 - 258.75 WSW	17.3 +- 0.0	1
258.76 - 281.25 W	19.2 +- 0.0	1
281.26 - 303.75 WNW	16.0 +- 0.0	1
303.76 - 326.25 NW	15.4 +- 0.0	1
326.26 - 348.75 NNW	15.1 +- 0.0	1

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	16.1 +- 2.0	9
2 - 5	16.7 +- 1.3	13
> 5	16.0 +- 0.9	3
Upwind Control	16.4 +- 0.1	3

NRC TLD DOSES FOR LACROSSE AREA

Miles

Legend

Water

— Highways

--- Railroads

--- Roads

★ Plant..site

LASALLE

TLD Direct Radiation Environmental Monitoring

For the period 930607-931020 136 Days

Field Time: 81 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	302 10.0	Damaged Dosimeter	No Net Data	17.2 +- 1.2
2	335 5.3	23.2 +- 0.7; 3.5	19.1 +- 0.9; 5.0	19.7 +- 1.6
3	343 5.8	19.3 +- 0.6; 2.9	14.7 +- 0.8; 4.5	15.6 +- 1.3
4	38 5.5	21.5 +- 0.6; 3.2	17.2 +- 0.8; 4.8	18.8 +- 2.5
5	39 4.3	19.5 +- 0.6; 2.9	14.9 +- 0.8; 4.5	14.6 +- 1.2
6	27 3.8	20.5 +- 0.6; 3.1	16.1 +- 0.8; 4.7	17.3 +- 1.3
7	2 4.1	22.4 +- 0.7; 3.4	18.2 +- 0.9; 4.9	19.5 +- 1.4
8	304 4.6	21.7 +- 0.7; 3.3	17.4 +- 0.8; 4.8	19.1 +- 1.5
9	292 3.9	26.0 +- 0.8; 3.9	22.1 +- 1.0; 5.4	19.3 +- 2.7
10	281 3.7	21.6 +- 0.6; 3.2	17.3 +- 0.8; 4.8	19.0 +- 1.8
11	248 4.0	21.7 +- 0.7; 3.3	17.4 +- 0.8; 4.8	18.3 +- 1.3
12	222 12.0	22.1 +- 0.7; 3.3	17.9 +- 0.9; 4.9	17.5 +- 1.2
13	212 18.0	21.2 +- 0.6; 3.2	16.9 +- 0.8; 4.8	18.3 +- 1.2
14	212 18.0	22.7 +- 0.7; 3.4	18.5 +- 0.9; 4.9	18.9 +- 1.3
15	212 18.0	22.0 +- 0.7; 3.3	17.8 +- 0.8; 4.9	18.6 +- 1.5
16	215 4.4	23.3 +- 0.7; 3.5	19.2 +- 0.9; 5.0	19.7 +- 1.2
17	204 4.0	22.9 +- 0.7; 3.4	18.7 +- 0.9; 5.0	19.0 +- 1.3
18	173 4.6	22.7 +- 0.7; 3.4	18.6 +- 0.9; 5.0	19.4 +- 1.3
19	174 6.4	21.0 +- 0.6; 3.1	16.6 +- 0.8; 4.7	17.2 +- 1.1
20	158 3.6	22.9 +- 0.7; 3.4	18.8 +- 0.9; 5.0	18.6 +- 1.4
21	124 4.2	21.1 +- 0.6; 3.2	16.8 +- 0.8; 4.8	19.4 +- 1.7
22	114 3.8	23.1 +- 0.7; 3.5	18.9 +- 0.9; 5.0	18.6 +- 1.3
23	97 4.5	21.0 +- 0.6; 3.1	16.6 +- 0.8; 4.7	18.0 +- 1.4
24	72 4.7	22.4 +- 0.7; 3.4	18.2 +- 0.9; 4.9	19.8 +- 1.5
25	41 2.0	22.3 +- 0.7; 3.3	18.1 +- 0.9; 4.9	18.8 +- 1.4
26	11 1.6	22.7 +- 0.7; 3.4	18.5 +- 0.9; 4.9	18.5 +- 1.3
27	358 1.5	23.9 +- 0.7; 3.6	19.9 +- 0.9; 5.1	19.3 +- 1.3
28	336 1.6	22.3 +- 0.7; 3.3	18.0 +- 0.9; 4.9	18.2 +- 1.3
29	310 2.3	20.7 +- 0.6; 3.1	16.3 +- 0.8; 4.7	17.5 +- 1.6
30	301 2.0	24.3 +- 0.7; 3.6	20.3 +- 0.9; 5.2	20.8 +- 1.4
31	271 1.7	21.0 +- 0.6; 3.2	16.7 +- 0.8; 4.7	18.3 +- 1.3
32	256 1.8	22.3 +- 0.7; 3.3	18.0 +- 0.9; 4.9	19.1 +- 1.4
33	227 2.4	23.7 +- 0.7; 3.5	19.6 +- 0.9; 5.1	20.3 +- 1.5
34	204 1.7	23.0 +- 0.7; 3.4	18.8 +- 0.9; 5.0	18.6 +- 1.3
35	165 1.6	22.2 +- 0.7; 3.3	18.0 +- 0.9; 4.9	19.3 +- 2.0
36	149 1.8	23.2 +- 0.7; 3.5	19.1 +- 0.9; 5.0	19.5 +- 1.4
37	139 2.1	21.9 +- 0.7; 3.3	17.7 +- 0.8; 4.9	18.8 +- 1.2
38	111 1.5	20.8 +- 0.6; 3.1	16.4 +- 0.8; 4.7	16.8 +- 1.2
39	265 0.6	22.3 +- 0.7; 3.3	18.1 +- 0.9; 4.9	19.7 +- 1.6

Transit Dose = 6.0 +- 0.4; 2.9

LASALLE

For the period 930607-931020

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	18.9 +- 0.9	3
11.26 - 33.75 NNE	16.1 +- 0.0	1
33.76 - 56.25 NE	16.7 +- 1.6	3
56.26 - 78.75 ENE	18.2 +- 0.0	1
78.76 - 101.25 E	16.6 +- 0.0	1
101.26 - 123.75 ESE	17.7 +- 1.8	2
123.76 - 146.25 SE	17.2 +- 0.6	2
146.26 - 168.75 SSE	18.6 +- 0.6	3
168.76 - 191.25 S	17.6 +- 1.4	2
191.26 - 213.75 SSW	18.8 +- 0.0	2
213.76 - 236.25 SW	18.9 +- 0.9	3
236.26 - 258.75 WSW	17.7 +- 0.4	2
258.76 - 281.25 W	17.4 +- 0.7	3
281.26 - 303.75 WNW	21.2 +- 1.3	2
303.76 - 326.25 NW	16.8 +- 0.8	2
326.26 - 348.75 NNW	17.3 +- 2.3	3

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	18.3 +- 1.1	12
2 - 5	17.9 +- 1.6	18
> 5	17.1 +- 1.6	5
Upwind Control	17.7 +- 0.8	3

NRC TLD DOSES FOR LASALLE AREA

LIMERICK

TLD Direct Radiation Environmental Monitoring

For the period 930606-931019 136 Days

Field Time: 92 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	115 8.5	28.7 +- 0.9; 4.3	24.9 +- 0.9; 5.1	23.0 +- 1.8
3	85 3.7	24.4 +- 0.7; 3.7	20.7 +- 0.8; 4.6	19.1 +- 1.4
4	46 3.3	24.5 +- 0.7; 3.7	20.8 +- 0.8; 4.6	19.7 +- 1.6
5	20 3.7	24.0 +- 0.7; 3.6	20.3 +- 0.8; 4.5	19.6 +- 1.6
6	7 4.6	23.1 +- 0.7; 3.5	19.3 +- 0.7; 4.4	20.6 +- 1.5
7	340 7.2	22.5 +- 0.7; 3.4	18.8 +- 0.7; 4.4	18.2 +- 1.9
8	332 4.0	23.8 +- 0.7; 3.6	20.1 +- 0.8; 4.5	19.2 +- 1.5
9	313 3.4	24.0 +- 0.7; 3.6	20.3 +- 0.8; 4.5	19.4 +- 1.7
10	291 4.9	25.6 +- 0.8; 3.8	21.8 +- 0.8; 4.7	20.8 +- 1.8
11	304 3.0	29.2 +- 0.9; 4.4	25.3 +- 0.9; 5.2	24.6 +- 1.7
12	316 1.9	24.3 +- 0.7; 3.6	20.6 +- 0.8; 4.6	18.3 +- 1.6
13	347 1.9	26.4 +- 0.8; 4.0	22.6 +- 0.8; 4.8	20.6 +- 1.6
14	339 1.5	23.0 +- 0.7; 3.5	19.3 +- 0.7; 4.4	17.4 +- 1.3
15	41 1.7	22.4 +- 0.7; 3.4	18.7 +- 0.7; 4.4	18.6 +- 1.6
16	66 2.6	23.1 +- 0.7; 3.5	19.3 +- 0.7; 4.4	19.6 +- 1.6
17	5 0.6	22.5 +- 0.7; 3.4	18.8 +- 0.7; 4.4	18.8 +- 1.8
18	300 0.7	22.6 +- 0.7; 3.4	18.9 +- 0.7; 4.4	18.9 +- 2.0
19	291 0.7	23.8 +- 0.7; 3.6	20.1 +- 0.8; 4.5	18.5 +- 1.7
20	260 0.7	23.7 +- 0.7; 3.6	19.9 +- 0.8; 4.5	18.2 +- 1.5
21	234 0.9	23.9 +- 0.7; 3.6	20.1 +- 0.8; 4.5	18.5 +- 1.7
22	210 1.1	23.8 +- 0.7; 3.6	20.1 +- 0.8; 4.5	19.2 +- 1.4
23	174 1.7	22.6 +- 0.7; 3.4	18.9 +- 0.7; 4.4	17.1 +- 1.4
24	149 1.5	22.3 +- 0.7; 3.3	18.6 +- 0.7; 4.4	17.5 +- 1.7
25	124 1.0	24.7 +- 0.7; 3.7	21.0 +- 0.8; 4.6	19.9 +- 1.6
26	114 1.1	24.1 +- 0.7; 3.6	20.3 +- 0.8; 4.6	20.2 +- 1.7
27	160 1.0	24.2 +- 0.7; 3.6	20.5 +- 0.8; 4.6	19.1 +- 1.5
28	81 1.0	22.9 +- 0.7; 3.4	19.2 +- 0.7; 4.4	18.6 +- 1.9
29	51 0.7	24.8 +- 0.7; 3.7	21.0 +- 0.8; 4.6	19.0 +- 1.6
30	144 3.2	28.8 +- 0.9; 4.3	24.9 +- 0.9; 5.1	22.5 +- 1.7
31	158 2.6	24.3 +- 0.7; 3.6	20.5 +- 0.8; 4.6	19.3 +- 2.3
32	153 7.3	22.0 +- 0.7; 3.3	18.3 +- 0.7; 4.3	17.9 +- 1.6
33	186 4.2	22.3 +- 0.7; 3.3	18.6 +- 0.7; 4.4	17.1 +- 1.7
34	194 3.8	21.8 +- 0.7; 3.3	18.1 +- 0.7; 4.3	17.1 +- 1.6
35	229 5.1	24.8 +- 0.7; 3.7	21.1 +- 0.8; 4.6	18.8 +- 1.6
36	251 4.1	26.4 +- 0.8; 4.0	22.6 +- 0.8; 4.8	19.0 +- 1.8
37	270 3.0	21.1 +- 0.6; 3.2	17.4 +- 0.7; 4.2	15.8 +- 1.6
38	293 11.9	25.4 +- 0.8; 3.8	21.6 +- 0.8; 4.7	20.5 +- 2.0
39	293 11.9	26.2 +- 0.8; 3.9	22.4 +- 0.8; 4.8	20.4 +- 1.8
40	293 11.9	26.0 +- 0.8; 3.9	22.2 +- 0.8; 4.8	21.0 +- 1.7
41	126 2.9	20.2 +- 0.6; 3.0	16.5 +- 0.7; 4.1	16.2 +- 1.8
42	111 4.3	24.7 +- 0.7; 3.7	20.9 +- 0.8; 4.6	19.0 +- 1.8

Transit Dose = 3.3 +- 0.3; 2.9

LIMERICK

For the period 930606-931019

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	19.1 +- 0.4	2
11.26 - 33.75 NNE	20.3 +- 0.0	1
33.76 - 56.25 NE	20.1 +- 1.3	3
56.26 - 78.75 ENE	19.3 +- 0.0	1
78.76 - 101.25 E	19.9 +- 1.1	2
101.26 - 123.75 ESE	22.0 +- 2.5	3
123.76 - 146.25 SE	20.8 +- 4.2	3
146.26 - 168.75 SSE	19.5 +- 1.2	4
168.76 - 191.25 S	18.8 +- 0.2	2
191.26 - 213.75 SSW	19.1 +- 1.4	2
213.76 - 236.25 SW	20.6 +- 0.6	2
236.26 - 258.75 WSW	22.6 +- 0.0	1
258.76 - 281.25 W	18.7 +- 1.8	2
281.26 - 303.75 WNW	20.3 +- 1.5	3
303.76 - 326.25 NW	22.1 +- 2.9	3
326.26 - 348.75 NNW	20.2 +- 1.7	4

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	19.9 +- 1.1	17
2 - 5	20.4 +- 2.3	17
> 5	20.7 +- 3.0	4
Upwind Control	22.1 +- 0.4	3

NRC TLD DOSES FOR LIMERICK AREA

Miles

Legend

Water

Railroads

Plant..site

Highways

Roads

MAINE YANKEE

TLD Direct Radiation Environmental Monitoring

For the period 930606-931026 143 Days

Field Time: 91 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	340 1.0	26.5 +- 0.8; 4.0	20.7 +- 0.9; 5.0	18.8 +- 2.2
2	6 1.4	23.9 +- 0.7; 3.6	18.2 +- 0.8; 4.7	17.8 +- 2.5
3	23 1.5	24.5 +- 0.7; 3.7	18.7 +- 0.8; 4.8	17.3 +- 2.0
4	44 1.8	24.9 +- 0.7; 3.7	19.2 +- 0.8; 4.8	17.2 +- 2.6
5	116 0.5	23.7 +- 0.7; 3.6	18.0 +- 0.8; 4.7	17.3 +- 2.4
6	168 1.0	25.0 +- 0.7; 3.7	19.2 +- 0.8; 4.8	18.0 +- 2.2
7	185 1.6	23.9 +- 0.7; 3.6	18.2 +- 0.8; 4.7	16.8 +- 1.8
8	195 2.3	25.0 +- 0.7; 3.7	19.2 +- 0.8; 4.8	17.7 +- 2.4
9	205 3.8	23.9 +- 0.7; 3.6	18.2 +- 0.8; 4.7	17.2 +- 2.1
10	310 1.7	24.1 +- 0.7; 3.6	18.4 +- 0.8; 4.7	17.3 +- 2.6
11	290 1.8	25.4 +- 0.8; 3.8	19.6 +- 0.8; 4.9	19.8 +- 2.9
12	275 1.7	25.5 +- 0.8; 3.8	19.8 +- 0.9; 4.9	18.9 +- 2.3
13	256 1.9	23.8 +- 0.7; 3.6	18.0 +- 0.8; 4.7	17.5 +- 2.5
14	232 2.5	26.3 +- 0.8; 3.9	20.5 +- 0.9; 5.0	18.5 +- 1.6
15	227 5.3	25.0 +- 0.8; 3.8	19.3 +- 0.8; 4.8	18.3 +- 2.5
16	246 4.4	24.8 +- 0.7; 3.7	19.0 +- 0.8; 4.8	19.5 +- 2.5
17	250 6.6	30.2 +- 0.9; 4.5	24.4 +- 1.0; 5.4	23.6 +- 2.2
18	268 4.7	25.6 +- 0.8; 3.8	19.8 +- 0.9; 4.9	18.4 +- 2.3
19	283 4.4	24.7 +- 0.7; 3.7	19.0 +- 0.8; 4.8	17.9 +- 1.6
20	305 4.7	23.4 +- 0.7; 3.5	17.7 +- 0.8; 4.6	17.7 +- 2.9
21	300 2.9	25.6 +- 0.8; 3.8	19.8 +- 0.9; 4.9	18.3 +- 2.5
22	332 2.7	24.4 +- 0.7; 3.7	18.6 +- 0.8; 4.7	19.2 +- 2.9
23	20 3.9	24.9 +- 0.7; 3.7	19.2 +- 0.8; 4.8	18.8 +- 2.6
24	23 3.0	26.8 +- 0.8; 4.0	21.0 +- 0.9; 5.0	19.2 +- 2.6
25	42 4.7	27.1 +- 0.8; 4.1	21.3 +- 0.9; 5.1	18.7 +- 2.3
26	60 15.0	24.2 +- 0.7; 3.6	18.4 +- 0.8; 4.7	17.2 +- 2.5
27	62 16.0	23.3 +- 0.7; 3.5	17.6 +- 0.8; 4.6	16.1 +- 2.1
28	63 16.0	23.8 +- 0.7; 3.6	18.1 +- 0.8; 4.7	17.4 +- 2.2
29	64 2.1	26.9 +- 0.8; 4.0	21.1 +- 0.9; 5.0	20.1 +- 2.8
30	84 1.5	23.1 +- 0.7; 3.5	17.3 +- 0.8; 4.6	16.9 +- 2.0
31	115 1.6	24.4 +- 0.7; 3.7	18.7 +- 0.8; 4.7	17.2 +- 2.4
32	135 2.0	23.3 +- 0.7; 3.5	17.5 +- 0.8; 4.6	16.4 +- 2.1
33	66 3.5	25.0 +- 0.7; 3.7	19.2 +- 0.8; 4.8	17.7 +- 2.4
34	97 4.9	26.0 +- 0.8; 3.9	20.3 +- 0.9; 4.9	18.4 +- 2.0
35	123 4.8	25.7 +- 0.8; 3.8	19.9 +- 0.9; 4.9	18.6 +- 1.9
36	140 4.9	23.5 +- 0.7; 3.5	17.7 +- 0.8; 4.6	17.7 +- 3.0
37	151 6.0	24.7 +- 0.7; 3.7	19.0 +- 0.8; 4.8	18.6 +- 2.5
38	152 4.2	25.8 +- 0.8; 3.9	20.0 +- 0.9; 4.9	19.3 +- 2.3
39	172 4.9	23.4 +- 0.7; 3.5	17.7 +- 0.8; 4.6	17.5 +- 1.9
40	156 7.4	24.8 +- 0.7; 3.7	19.0 +- 0.8; 4.8	18.1 +- 2.1

Transit Dose = 5.6 +- 0.4; 3.1

MAINE YANKEE

For the period 930606-931026

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	18.2 +- 0.0	1
11.26 - 33.75 NNE	19.6 +- 1.2	3
33.76 - 56.25 NE	20.2 +- 1.5	2
56.26 - 78.75 ENE	20.2 +- 1.4	2
78.76 - 101.25 E	18.8 +- 2.1	2
101.26 - 123.75 ESE	18.8 +- 1.0	3
123.76 - 146.25 SE	17.6 +- 0.1	2
146.26 - 168.75 SSE	19.3 +- 0.5	4
168.76 - 191.25 S	17.9 +- 0.4	2
191.26 - 213.75 SSW	18.7 +- 0.7	2
213.76 - 236.25 SW	19.9 +- 0.8	2
236.26 - 258.75 WSW	20.5 +- 3.4	3
258.76 - 281.25 W	19.8 +- 0.0	2
281.26 - 303.75 WNW	19.5 +- 0.4	3
303.76 - 326.25 NW	18.0 +- 0.5	2
326.26 - 348.75 NNW	19.7 +- 1.5	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	18.7 +- 0.9	14
2 - 5	19.4 +- 1.1	19
> 5	20.4 +- 2.6	4
Upwind Control	18.0 +- 0.4	3

Country	Percentage
USA	2.8
Canada	2.5
Mexico	2.2
South Africa	2.0

Legend

- ✱ Plant..site

MCGUIRE

TLD Direct Radiation Environmental Monitoring

For the period 930609-931020 134 Days

Field Time: 92 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	97 0.5	15.9 +- 0.5; 2.4	9.9 +- 0.6; 3.9	14.7 +- 2.7
2	323 1.6	20.4 +- 0.6; 3.1	14.3 +- 0.7; 4.3	17.0 +- 2.5
3	336 1.7	20.6 +- 0.6; 3.1	14.5 +- 0.7; 4.3	18.2 +- 2.8
4	303 2.9	19.6 +- 0.6; 2.9	13.5 +- 0.7; 4.2	16.6 +- 3.5
5	321 3.9	20.6 +- 0.6; 3.1	14.5 +- 0.7; 4.3	16.6 +- 2.7
6	334 3.7	19.3 +- 0.6; 2.9	13.2 +- 0.7; 4.2	16.5 +- 2.9
7	352 3.5	18.1 +- 0.5; 2.7	12.0 +- 0.7; 4.1	14.9 +- 2.5
8	287 2.0	26.8 +- 0.8; 4.0	20.5 +- 0.9; 5.0	17.5 +- 3.4
9	273 1.9	21.5 +- 0.6; 3.2	15.4 +- 0.7; 4.4	16.2 +- 3.5
10	244 1.7	18.3 +- 0.6; 2.8	12.2 +- 0.7; 4.1	15.1 +- 2.6
11	225 2.1	17.2 +- 0.5; 2.6	11.1 +- 0.6; 4.0	14.8 +- 2.4
12	212 3.6	19.5 +- 0.6; 2.9	13.4 +- 0.7; 4.2	16.5 +- 2.6
13	232 4.4	25.2 +- 0.8; 3.8	18.9 +- 0.8; 4.8	22.1 +- 2.6
14	253 3.7	21.5 +- 0.6; 3.2	15.3 +- 0.7; 4.4	19.3 +- 3.0
15	261 4.2	19.6 +- 0.6; 2.9	13.5 +- 0.7; 4.2	15.0 +- 2.6
16	288 4.3	26.4 +- 0.8; 4.0	20.2 +- 0.9; 5.0	22.2 +- 2.7
17	288 17.0	28.6 +- 0.9; 4.3	22.2 +- 0.9; 5.2	23.9 +- 6.4
18	287 2.0	23.5 +- 0.7; 3.5	17.3 +- 0.8; 4.6	21.2 +- 3.0
19	286 17.0	25.4 +- 0.8; 3.8	19.1 +- 0.8; 4.8	22.4 +- 3.5
20	233 18.0	25.8 +- 0.8; 3.9	19.5 +- 0.9; 4.9	21.7 +- 2.8
21	204 10.0	18.0 +- 0.5; 2.7	11.9 +- 0.7; 4.1	16.2 +- 2.7
22	239 9.5	22.0 +- 0.7; 3.3	15.8 +- 0.8; 4.5	17.5 +- 2.9
23	115 4.9	Missing Dosimeter	No Net Data	13.7 +- 2.7
24	132 4.9	16.6 +- 0.5; 2.5	10.6 +- 0.6; 3.9	14.1 +- 2.5
25	156 4.0	13.0 +- 0.4; 1.9	7.0 +- 0.5; 3.6	12.0 +- 2.4
26	175 3.7	16.9 +- 0.5; 2.5	10.8 +- 0.6; 4.0	14.1 +- 2.5
27	198 4.3	21.2 +- 0.6; 3.2	15.0 +- 0.7; 4.4	19.4 +- 3.1
28	169 13.0	16.7 +- 0.5; 2.5	10.6 +- 0.6; 3.9	14.8 +- 2.7
29	155 13.0	16.0 +- 0.5; 2.4	10.0 +- 0.6; 3.9	14.4 +- 2.3
30	146 14.0	16.1 +- 0.5; 2.4	10.1 +- 0.6; 3.9	13.5 +- 2.4
31	143 1.9	15.1 +- 0.5; 2.3	9.1 +- 0.6; 3.8	14.3 +- 2.8
32	155 1.3	18.0 +- 0.5; 2.7	11.9 +- 0.7; 4.1	14.7 +- 2.4
33	178 1.6	16.5 +- 0.5; 2.5	10.4 +- 0.6; 3.9	13.3 +- 2.3
34	108 2.0	18.3 +- 0.5; 2.7	12.2 +- 0.7; 4.1	15.0 +- 2.6
35	93 2.2	15.9 +- 0.5; 2.4	9.9 +- 0.6; 3.9	14.7 +- 2.8
36	68 2.5	17.8 +- 0.5; 2.7	11.7 +- 0.7; 4.0	14.9 +- 2.6
37	82 4.7	16.7 +- 0.5; 2.5	10.6 +- 0.6; 3.9	14.6 +- 2.4
38	64 4.9	17.7 +- 0.5; 2.7	11.6 +- 0.7; 4.0	14.9 +- 2.3
39	42 5.0	21.5 +- 0.6; 3.2	15.3 +- 0.7; 4.4	18.4 +- 2.5
40	26 4.3	19.3 +- 0.6; 2.9	13.2 +- 0.7; 4.2	15.2 +- 2.8
41	42 2.0	15.8 +- 0.5; 2.4	9.8 +- 0.6; 3.9	12.9 +- 2.4
42	21 1.6	21.9 +- 0.7; 3.3	15.8 +- 0.8; 4.5	17.0 +- 2.9
43	8 2.6	21.1 +- 0.6; 3.2	14.9 +- 0.7; 4.4	18.2 +- 2.5
44	37 13.0	24.1 +- 0.7; 3.6	17.9 +- 0.8; 4.7	21.8 +- 2.9
45	78 19.0	27.3 +- 0.8; 4.1	21.0 +- 0.9; 5.1	24.1 +- 3.1
46	94 19.0	21.4 +- 0.6; 3.2	15.2 +- 0.7; 4.4	18.2 +- 2.2

Transit Dose = 5.8 +- 0.4; 3.2

MCGUIRE

For the period 930609-931020

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	13.5 +- 2.1	2
11.26 - 33.75 NNE	14.5 +- 1.8	2
33.76 - 56.25 NE	14.3 +- 4.2	3
56.26 - 78.75 ENE	14.8 +- 5.4	3
78.76 - 101.25 E	11.4 +- 2.6	4
101.26 - 123.75 ESE	12.2 +- 0.0	1
123.76 - 146.25 SE	9.9 +- 0.8	3
146.26 - 168.75 SSE	9.6 +- 2.5	3
168.76 - 191.25 S	10.6 +- 0.2	3
191.26 - 213.75 SSW	13.4 +- 1.5	3
213.76 - 236.25 SW	16.5 +- 4.7	3
236.26 - 258.75 WSW	14.4 +- 1.9	3
258.76 - 281.25 W	14.4 +- 1.3	2
281.26 - 303.75 WNW	18.0 +- 4.0	3
303.76 - 326.25 NW	14.4 +- 0.1	2
326.26 - 348.75 NNW	13.8 +- 0.9	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	13.0 +- 3.3	12
2 - 5	13.1 +- 3.0	21
> 5	14.7 +- 4.2	9
Upwind Control	19.6 +- 2.5	3

NRC TLD DOSES FOR McGUIRE AREA

Miles

0 2 4

Legend

Water

Highways

Railroads

Roads

Plant..site

MILLSTONE
 TLD Direct Radiation Environmental Monitoring
 For the period 930608-931021 136 Days
 Field Time: 92 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	25.1 +- 0.8; 3.8	22.0 +- 0.8; 4.6	19.6 +- 1.8
2	24	18.7 +- 0.6; 2.8	15.7 +- 0.6; 3.9	15.1 +- 1.7
3	47	24.2 +- 0.7; 3.6	21.1 +- 0.8; 4.5	19.4 +- 1.7
4	60	24.6 +- 0.7; 3.7	21.5 +- 0.8; 4.6	17.5 +- 1.7
5	85	24.1 +- 0.7; 3.6	21.0 +- 0.8; 4.5	18.7 +- 1.6
6	110	23.6 +- 0.7; 3.5	20.5 +- 0.8; 4.5	18.3 +- 1.7
7	67	25.0 +- 0.8; 3.8	21.9 +- 0.8; 4.6	19.4 +- 2.3
8	49	24.4 +- 0.7; 3.7	21.3 +- 0.8; 4.6	19.4 +- 1.9
9	84	23.2 +- 0.7; 3.5	20.2 +- 0.7; 4.4	17.8 +- 1.6
11	232	22.4 +- 0.7; 3.4	19.3 +- 0.7; 4.3	17.2 +- 1.8
12	256	26.1 +- 0.8; 3.9	23.0 +- 0.8; 4.8	19.5 +- 1.6
13	274	26.0 +- 0.8; 3.9	22.9 +- 0.8; 4.7	19.3 +- 1.7
14	295	27.7 +- 0.8; 4.2	24.5 +- 0.9; 4.9	20.3 +- 2.2
15	315	19.1 +- 0.6; 2.9	16.1 +- 0.6; 4.0	15.7 +- 1.8
16	339	23.3 +- 0.7; 3.5	20.3 +- 0.7; 4.4	19.6 +- 1.7
17	353	23.8 +- 0.7; 3.6	20.8 +- 0.8; 4.5	18.4 +- 1.9
18	24	24.0 +- 0.7; 3.6	20.9 +- 0.8; 4.5	19.0 +- 2.0
19	33	26.6 +- 0.8; 4.0	23.5 +- 0.8; 4.8	20.4 +- 2.1
20	82	23.2 +- 0.7; 3.5	20.1 +- 0.7; 4.4	17.8 +- 1.2
22	59	25.7 +- 0.8; 3.9	22.6 +- 0.8; 4.7	20.1 +- 2.0
28	257	31.2 +- 0.9; 4.7	28.0 +- 1.0; 5.4	21.4 +- 3.0
29	272	28.5 +- 0.9; 4.3	25.3 +- 0.9; 5.0	21.0 +- 2.1
30	295	27.4 +- 0.8; 4.1	24.2 +- 0.9; 4.9	20.8 +- 2.0
31	317	24.3 +- 0.7; 3.6	21.2 +- 0.8; 4.5	18.1 +- 1.8
32	327	27.2 +- 0.8; 4.1	24.1 +- 0.9; 4.9	21.1 +- 1.9
33	41	24.1 +- 0.7; 3.6	21.0 +- 0.8; 4.5	19.5 +- 1.9
34	54	26.8 +- 0.8; 4.0	23.7 +- 0.8; 4.8	20.6 +- 2.0
37	354	24.7 +- 0.7; 3.7	21.6 +- 0.8; 4.6	18.9 +- 1.7
39	1	22.5 +- 0.7; 3.4	19.5 +- 0.8; 4.3	18.5 +- 1.6
40	278	22.5 +- 0.9; 3.4	19.5 +- 0.9; 5.2	16.5 +- 1.8
41	34	25.0 +- 0.8; 3.8	21.9 +- 0.8; 4.6	18.8 +- 1.9
42	84	24.9 +- 0.7; 3.7	21.8 +- 0.8; 4.6	18.2 +- 1.9
46	41	29.1 +- 0.9; 4.4	25.9 +- 0.9; 5.1	23.7 +- 2.5
48	4	30.7 +- 0.9; 4.6	27.5 +- 1.0; 5.3	23.8 +- 2.5
49	4			

Transit Dose = 2.6 +- 0.3; 2.9

MILLSTONE

For the period 930608-931021

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	21.4 +- 0.5	4
11.26 - 33.75 NNE	20.0 +- 4.0	3
33.76 - 56.25 NE	22.5 +- 2.1	6
56.26 - 78.75 ENE	22.0 +- 0.5	3
78.76 - 101.25 E	20.8 +- 0.8	4
101.26 - 123.75 ESE	20.5 +- 0.0	1
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	19.3 +- 0.0	1
236.26 - 258.75 WSW	25.5 +- 3.5	2
258.76 - 281.25 W	22.5 +- 2.9	3
281.26 - 303.75 WNW	24.4 +- 0.2	2
303.76 - 326.25 NW	18.7 +- 3.6	2
326.26 - 348.75 NNW	22.2 +- 2.7	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	20.5 +- 2.7	10
2 - 5	22.2 +- 1.8	13
> 5	22.6 +- 2.7	10
Upwind Control	26.7 +- 1.1	2

NRC TLD DOSES FOR MILLSTONE AREA

Miles

Legend

Water
Highways

Railroads
Roads

temp
Plant..site

MONTICELLO

TLD Direct Radiation Environmental Monitoring

For the period 930607-931026 142 Days

Field Time: 90 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	133	3.6	22.0	+-	0.7; 3.3	17.1	+-	0.8; 4.5	16.9	+- 1.3
2	163	4.6	22.2	+-	0.7; 3.3	17.4	+-	0.8; 4.5	17.5	+- 1.3
3	183	4.1	23.2	+-	0.7; 3.5	18.4	+-	0.8; 4.6	17.8	+- 1.3
4	206	4.3	23.0	+-	0.7; 3.5	18.1	+-	0.8; 4.6	17.6	+- 1.4
5	230	4.2	23.5	+-	0.7; 3.5	18.7	+-	0.8; 4.6	19.1	+- 1.7
6	253	4.6	22.8	+-	0.7; 3.4	17.9	+-	0.8; 4.6	17.9	+- 1.5
7	269	4.4	20.7	+-	0.6; 3.1	15.8	+-	0.7; 4.3	17.3	+- 1.4
8	286	4.0	21.8	+-	0.7; 3.3	17.0	+-	0.8; 4.4	18.2	+- 1.5
9	274	1.9	21.6	+-	0.6; 3.2	16.8	+-	0.7; 4.4	17.1	+- 1.2
10	244	1.3	20.7	+-	0.6; 3.1	15.8	+-	0.7; 4.3	15.5	+- 1.4
11	226	0.9	21.3	+-	0.6; 3.2	16.5	+-	0.7; 4.4	16.8	+- 1.4
12	181	1.8	21.5	+-	0.6; 3.2	16.6	+-	0.7; 4.4	17.1	+- 1.4
13	137	1.7	20.8	+-	0.6; 3.1	16.0	+-	0.7; 4.3	17.2	+- 1.3
14	155	1.0	22.2	+-	0.7; 3.3	17.4	+-	0.8; 4.5	17.1	+- 1.2
15	208	0.6	22.2	+-	0.7; 3.3	17.3	+-	0.8; 4.5	16.6	+- 1.3
16	284	2.0	21.5	+-	0.6; 3.2	16.7	+-	0.7; 4.4	16.7	+- 1.2
17	113	1.6	21.8	+-	0.7; 3.3	17.0	+-	0.8; 4.5	16.8	+- 1.7
18	85	1.1	21.2	+-	0.6; 3.2	16.3	+-	0.7; 4.4	16.7	+- 1.3
19	63	1.2	22.2	+-	0.7; 3.3	17.3	+-	0.8; 4.5	16.9	+- 1.4
20	37	1.7	21.6	+-	0.6; 3.2	16.8	+-	0.7; 4.4	16.9	+- 1.1
21	23	0.8	22.8	+-	0.7; 3.4	17.9	+-	0.8; 4.6	17.0	+- 1.2
22	354	0.7	22.1	+-	0.7; 3.3	17.3	+-	0.8; 4.5	17.3	+- 1.4
23	338	0.8	22.1	+-	0.7; 3.3	17.2	+-	0.8; 4.5	17.1	+- 1.3
24	307	1.8	21.6	+-	0.6; 3.2	16.8	+-	0.7; 4.4	17.1	+- 1.4
25	339	4.1	21.7	+-	0.6; 3.2	16.8	+-	0.7; 4.4	16.6	+- 1.4
26	320	6.0	20.8	+-	0.6; 3.1	15.9	+-	0.7; 4.3	16.6	+- 1.6
27	354	4.5	22.0	+-	0.7; 3.3	17.2	+-	0.8; 4.5	16.9	+- 1.5
28	17	3.7	20.7	+-	0.6; 3.1	15.9	+-	0.7; 4.3	15.9	+- 1.3
29	50	4.0	21.2	+-	0.6; 3.2	16.3	+-	0.7; 4.4	15.9	+- 1.5
30	77	3.6	22.3	+-	0.7; 3.3	17.4	+-	0.8; 4.5	16.9	+- 1.4
31	115	3.3	21.8	+-	0.7; 3.3	16.9	+-	0.7; 4.4	16.8	+- 1.4
32	90	4.6	19.2	+-	0.6; 2.9	14.4	+-	0.7; 4.2	16.2	+- 2.1
33	323	16.0	21.0	+-	0.6; 3.2	16.1	+-	0.7; 4.4	16.6	+- 1.5
34	323	16.0	21.6	+-	0.6; 3.2	16.7	+-	0.7; 4.4	16.5	+- 1.4
35	323	16.0	22.0	+-	0.7; 3.3	17.1	+-	0.8; 4.5	17.3	+- 1.5

Transit Dose = 4.9 +- 0.4; 3.0

MONTICELLO

For the period 930607-931026

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	17.2 +- 0.1	2
11.26 - 33.75 NNE	16.9 +- 1.4	2
33.76 - 56.25 NE	16.5 +- 0.3	2
56.26 - 78.75 ENE	17.4 +- 0.1	2
78.76 - 101.25 E	15.4 +- 1.4	2
101.26 - 123.75 ESE	16.9 +- 0.1	2
123.76 - 146.25 SE	16.6 +- 0.8	2
146.26 - 168.75 SSE	17.4 +- 0.0	2
168.76 - 191.25 S	17.5 +- 1.3	2
191.26 - 213.75 SSW	17.7 +- 0.6	2
213.76 - 236.25 SW	17.6 +- 1.5	2
236.26 - 258.75 WSW	16.9 +- 1.5	2
258.76 - 281.25 W	16.3 +- 0.7	2
281.26 - 303.75 WNW	16.8 +- 0.2	2
303.76 - 326.25 NW	16.3 +- 0.6	2
326.26 - 348.75 NNW	17.0 +- 0.3	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	16.8 +- 0.5	16
2 - 5	17.0 +- 1.1	15
> 5	15.9 +- 0.0	1
Upwind Control	16.7 +- 0.5	3

NRC TLD DOSES FOR MONTICELLO AREA

Miles

Legend

Water

Highways

Railroads

Roads

Plant site

NORTH ANNA

TLD Direct Radiation Environmental Monitoring

For the period 930609-931026 140 Days

Field Time: 98 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	243 1.8	28.5 +- 0.9; 4.3	21.9 +- 0.9; 4.9	21.1 +- 1.6
2	263 1.6	23.2 +- 0.7; 3.5	17.0 +- 0.7; 4.4	17.9 +- 1.4
3	296 1.0	24.0 +- 0.7; 3.6	17.7 +- 0.7; 4.4	18.1 +- 1.5
4	311 1.3	28.4 +- 0.9; 4.3	21.8 +- 0.9; 4.9	22.3 +- 1.5
5	329 1.3	24.7 +- 0.7; 3.7	18.4 +- 0.8; 4.5	19.0 +- 1.3
6	231 3.9	27.6 +- 0.8; 4.1	21.0 +- 0.8; 4.8	20.5 +- 1.4
7	224 1.7	26.2 +- 0.8; 3.9	19.8 +- 0.8; 4.7	19.9 +- 1.4
8	210 1.6	25.1 +- 0.8; 3.8	18.7 +- 0.8; 4.6	18.3 +- 1.4
9	181 1.4	21.7 +- 0.7; 3.3	15.6 +- 0.7; 4.2	16.1 +- 1.4
10	155 1.0	29.2 +- 0.9; 4.4	22.5 +- 0.9; 5.0	24.0 +- 1.6
11	136 1.6	24.0 +- 0.7; 3.6	17.7 +- 0.7; 4.4	18.2 +- 1.7
12	163 3.5	25.1 +- 0.8; 3.8	18.7 +- 0.8; 4.6	19.3 +- 1.5
13	190 3.3	23.8 +- 0.7; 3.6	17.6 +- 0.7; 4.4	17.7 +- 1.4
14	205 4.9	Missing Dosimeter	No Net Data	17.0 +- 1.2
15	140 4.2	25.7 +- 0.8; 3.9	19.3 +- 0.8; 4.6	19.1 +- 1.3
16	113 4.9	29.9 +- 0.9; 4.5	23.2 +- 0.9; 5.1	23.0 +- 1.7
17	93 3.3	22.4 +- 0.7; 3.4	16.3 +- 0.7; 4.3	16.2 +- 1.3
18	64 4.1	25.8 +- 0.8; 3.9	19.0 +- 0.8; 4.6	19.2 +- 1.5
19	78 2.7	36.6 +- 1.1; 5.5	29.0 +- 1.1; 5.8	28.3 +- 1.5
20	97 1.9	26.9 +- 0.8; 4.0	20.4 +- 0.8; 4.7	20.3 +- 1.9
21	105 1.7	22.2 +- 0.7; 3.3	16.1 +- 0.7; 4.3	16.8 +- 1.3
22	60 2.4	22.3 +- 0.7; 3.4	16.2 +- 0.7; 4.3	17.3 +- 1.4
23	37 1.4	23.9 +- 0.7; 3.6	17.6 +- 0.7; 4.4	19.1 +- 1.4
24	16 1.6	30.6 +- 0.9; 4.6	23.8 +- 0.9; 5.2	23.9 +- 1.6
25	48 3.5	21.5 +- 0.6; 3.2	15.5 +- 0.7; 4.2	16.1 +- 2.0
26	17 3.7	25.4 +- 0.8; 3.8	19.0 +- 0.8; 4.6	19.4 +- 1.5
27	3 4.8	23.2 +- 0.7; 3.5	17.0 +- 0.7; 4.4	17.4 +- 1.8
28	348 4.0	24.2 +- 0.7; 3.6	17.9 +- 0.8; 4.5	17.3 +- 1.4
29	2 1.9	23.1 +- 0.7; 3.5	16.9 +- 0.7; 4.3	16.8 +- 1.2
30	284 5.0	22.8 +- 0.7; 3.4	16.7 +- 0.7; 4.3	17.4 +- 1.5
31	310 4.7	27.9 +- 0.8; 4.2	21.4 +- 0.8; 4.9	20.2 +- 1.8
32	273 4.9	20.0 +- 0.6; 3.0	14.0 +- 0.7; 4.0	14.1 +- 1.8
33	257 5.1	Missing Dosimeter	No Net Data	18.4 +- 1.7
34	242 7.1	Missing Dosimeter	No Net Data	19.5 +- 1.6
35	255 11.0	23.2 +- 0.7; 3.5	17.0 +- 0.7; 4.4	18.4 +- 1.9
36	248 15.0	24.3 +- 0.7; 3.6	18.0 +- 0.8; 4.5	18.3 +- 1.5
37	247 17.0	24.4 +- 0.7; 3.7	18.1 +- 0.8; 4.5	17.6 +- 1.3
38	244 19.0	22.5 +- 0.7; 3.4	16.4 +- 0.7; 4.3	16.8 +- 1.7

Transit Dose = 4.7 +- 0.4; 3.2

NORTH ANNA

For the period 930609-931026

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	17.0 +- 0.1	2
11.26 - 33.75 NNE	21.4 +- 3.4	2
33.76 - 56.25 NE	16.5 +- 1.5	2
56.26 - 78.75 ENE	21.6 +- 6.8	3
78.76 - 101.25 E	18.3 +- 2.9	2
101.26 - 123.75 ESE	19.6 +- 5.0	2
123.76 - 146.25 SE	18.5 +- 1.1	2
146.26 - 168.75 SSE	20.6 +- 2.7	2
168.76 - 191.25 S	16.6 +- 1.4	2
191.26 - 213.75 SSW	18.7 +- 0.0	1
213.76 - 236.25 SW	20.4 +- 0.9	2
236.26 - 258.75 WSW	19.4 +- 3.5	2
258.76 - 281.25 W	15.5 +- 2.1	2
281.26 - 303.75 WNW	17.2 +- 0.7	2
303.76 - 326.25 NW	21.6 +- 0.3	2
326.26 - 348.75 NNW	18.2 +- 0.4	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	19.1 +- 2.5	15
2 - 5	18.9 +- 3.6	16
> 5	17.0 +- 0.0	1
Upwind Control	17.5 +- 1.0	3

NRC TLD DOSES FOR NORTH ANNA AREA

Mile

0 2 4

Legend

Water
Highways

Railroads
Roads

Plant..site

OCONEE

TLD Direct Radiation Environmental Monitoring

For the period 930609-931019 133 Days

Field Time: 92 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	158	7.5	26.6 +- 0.8; 4.0	22.8 +- 0.8; 4.8	22.8 +- 2.3
2	133	4.9	29.7 +- 0.9; 4.4	25.8 +- 0.9; 5.2	25.7 +- 2.3
3	119	4.3	29.5 +- 0.9; 4.4	25.7 +- 0.9; 5.2	24.5 +- 2.1
4	84	4.7	29.8 +- 0.9; 4.5	25.9 +- 0.9; 5.2	24.7 +- 1.7
5	65	4.0	28.7 +- 0.9; 4.3	24.9 +- 0.9; 5.1	23.7 +- 2.8
6	52	1.8	29.5 +- 0.9; 4.4	25.7 +- 0.9; 5.2	25.0 +- 2.3
7	22	3.5	29.5 +- 0.9; 4.4	25.7 +- 0.9; 5.2	25.3 +- 2.2
8	33	1.4	30.3 +- 0.9; 4.5	26.5 +- 0.9; 5.3	24.9 +- 2.8
9	52	1.8	24.9 +- 0.7; 3.7	21.1 +- 0.8; 4.6	19.9 +- 1.9
10	67	1.1	23.8 +- 0.7; 3.6	20.1 +- 0.8; 4.5	17.1 +- 2.4
11	107	1.9	25.3 +- 0.8; 3.8	21.5 +- 0.8; 4.7	19.4 +- 1.9
12	87	1.0	26.7 +- 0.8; 4.0	23.0 +- 0.8; 4.9	22.2 +- 2.3
13	142	0.7	26.6 +- 0.8; 4.0	22.9 +- 0.8; 4.8	22.8 +- 1.8
14	166	0.7	21.7 +- 0.6; 3.2	18.0 +- 0.7; 4.3	19.6 +- 2.1
15	226	1.7	27.0 +- 0.8; 4.1	23.2 +- 0.9; 4.9	22.0 +- 2.0
16	207	1.4	28.0 +- 0.8; 4.2	24.2 +- 0.9; 5.0	21.5 +- 1.7
17	182	2.2	22.8 +- 0.7; 3.4	19.1 +- 0.7; 4.4	18.4 +- 1.7
18	186	3.8	25.7 +- 0.8; 3.8	21.9 +- 0.8; 4.7	19.5 +- 1.9
19	155	4.1	28.1 +- 0.8; 4.2	24.3 +- 0.9; 5.0	23.6 +- 0.9
20	203	8.4	21.6 +- 0.6; 3.2	17.9 +- 0.7; 4.3	18.3 +- 2.4
21	210	4.6	22.9 +- 0.7; 3.4	19.2 +- 0.7; 4.4	19.6 +- 2.2
22	227	4.8	26.6 +- 0.8; 4.0	22.8 +- 0.8; 4.8	21.6 +- 2.9
23	240	3.6	25.6 +- 0.8; 3.8	21.9 +- 0.8; 4.7	20.4 +- 2.6
24	268	3.6	27.8 +- 0.8; 4.2	24.0 +- 0.9; 5.0	24.1 +- 1.9
25	257	1.9	22.9 +- 0.7; 3.4	19.2 +- 0.7; 4.4	19.3 +- 2.2
26	293	3.6	25.9 +- 0.8; 3.9	22.1 +- 0.8; 4.8	21.1 +- 2.3
27	311	3.5	22.6 +- 0.7; 3.4	18.9 +- 0.7; 4.4	18.2 +- 1.6
28	288	2.0	23.1 +- 0.7; 3.5	19.4 +- 0.8; 4.4	20.3 +- 2.1
29	275	1.8	24.5 +- 0.7; 3.7	20.7 +- 0.8; 4.6	19.3 +- 1.7
30	321	1.8	26.1 +- 0.8; 3.9	22.3 +- 0.8; 4.8	21.6 +- 2.1
31	344	2.0	22.0 +- 0.7; 3.3	18.3 +- 0.7; 4.3	17.5 +- 2.0
32	336	3.7	29.9 +- 0.9; 4.5	26.0 +- 0.9; 5.2	26.0 +- 2.3
33	358	4.5	25.6 +- 0.8; 3.8	21.9 +- 0.8; 4.7	21.7 +- 2.5
34	256	9.4	33.5 +- 1.0; 5.0	29.6 +- 1.0; 5.7	27.6 +- 2.2
35	149	21.0	28.6 +- 0.9; 4.3	24.7 +- 0.9; 5.1	22.8 +- 2.6
36	126	8.2	30.4 +- 0.9; 4.6	26.6 +- 0.9; 5.3	24.5 +- 2.2
37	96	9.7	28.7 +- 0.9; 4.3	24.9 +- 0.9; 5.1	24.2 +- 1.8
38	32	16.0	35.5 +- 1.1; 5.3	31.5 +- 1.1; 5.9	30.2 +- 3.3
39	31	16.0	29.8 +- 0.9; 4.5	25.9 +- 0.9; 5.2	25.4 +- 3.2
40	29	16.0	32.9 +- 1.0; 4.9	29.0 +- 1.0; 5.6	27.0 +- 1.8

Transit Dose = 3.3 +- 0.3; 2.9

OCONEE

For the period 930609-931019

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	21.9 +- 0.0	1
11.26 - 33.75 NNE	26.1 +- 0.6	2
33.76 - 56.25 NE	23.4 +- 3.2	2
56.26 - 78.75 ENE	22.5 +- 3.4	2
78.76 - 101.25 E	24.6 +- 1.5	3
101.26 - 123.75 ESE	23.6 +- 2.9	2
123.76 - 146.25 SE	25.1 +- 2.0	3
146.26 - 168.75 SSE	22.4 +- 3.1	4
168.76 - 191.25 S	20.5 +- 2.0	2
191.26 - 213.75 SSW	20.4 +- 3.3	3
213.76 - 236.25 SW	23.0 +- 0.3	2
236.26 - 258.75 WSW	23.6 +- 5.4	3
258.76 - 281.25 W	22.4 +- 2.3	2
281.26 - 303.75 WNW	20.8 +- 1.9	2
303.76 - 326.25 NW	20.6 +- 2.4	2
326.26 - 348.75 NNW	22.1 +- 5.5	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	21.7 +- 2.5	15
2 - 5	23.1 +- 2.5	16
> 5	24.4 +- 3.9	6
Upwind Control	28.8 +- 2.8	3

NRC TLD DOSES FOR OCONEE AREA

Miles

Legend

Water

--- Railroads

Plant site

— Highways

--- Roads

OYSTER CREEK
 TLD Direct Radiation Environmental Monitoring
 For the period 930606-931027 144 Days
 Field Time: 92 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	141	0.5	13.8 +- 0.4; 2.1	10.7 +- 0.5; 3.5	11.4 +- 1.2		
2	120	0.9	14.0 +- 0.4; 2.1	10.9 +- 0.5; 3.5	11.4 +- 1.5		
3	105	1.5	15.3 +- 0.5; 2.3	12.2 +- 0.5; 3.6	12.5 +- 1.4		
4	127	1.5	13.4 +- 0.4; 2.0	10.4 +- 0.5; 3.5	11.4 +- 3.0		
5	137	1.3	15.1 +- 0.5; 2.3	12.1 +- 0.5; 3.6	11.6 +- 3.2		
6	158	1.2	14.5 +- 0.4; 2.2	11.4 +- 0.5; 3.5	11.3 +- 2.8		
7	176	2.2	Damaged Dosimeter	No Net Data	11.9 +- 3.1		
8	179	1.6	15.5 +- 0.5; 2.3	12.4 +- 0.5; 3.6	11.7 +- 3.1		
9	159	2.8	13.8 +- 0.4; 2.1	10.7 +- 0.5; 3.5	10.5 +- 2.8		
10	187	8.4	14.0 +- 0.4; 2.1	11.0 +- 0.5; 3.5	11.5 +- 3.0		
11	173	4.4	15.2 +- 0.5; 2.3	12.1 +- 0.5; 3.6	11.8 +- 3.2		
12	196	4.2	14.3 +- 0.4; 2.1	11.3 +- 0.5; 3.5	12.4 +- 1.7		
13	198	8.6	13.9 +- 0.4; 2.1	10.9 +- 0.5; 3.5	10.7 +- 2.7		
14	185	10.0	15.5 +- 0.5; 2.3	12.4 +- 0.5; 3.6	13.9 +- 1.7		
15	171	11.0	14.3 +- 0.4; 2.1	11.2 +- 0.5; 3.5	11.0 +- 2.9		
16	154	8.2	14.5 +- 0.4; 2.2	11.4 +- 0.5; 3.5	11.7 +- 3.0		
17	126	6.3	16.7 +- 0.5; 2.5	13.6 +- 0.6; 3.7	12.7 +- 1.8		
18	220	4.6	16.5 +- 0.5; 2.5	13.4 +- 0.6; 3.7	10.8 +- 2.9		
19	231	2.3	14.0 +- 0.4; 2.1	11.0 +- 0.5; 3.5	11.1 +- 2.7		
20	211	1.6	14.4 +- 0.4; 2.2	11.4 +- 0.5; 3.5	10.7 +- 2.6		
22	258	1.5	13.6 +- 0.4; 2.0	10.5 +- 0.5; 3.5	11.3 +- 2.8		
23	271	1.2	Missing Dosimeter	No Net Data	11.2 +- 3.1		
24	297	1.3	Missing Dosimeter	No Net Data	11.9 +- 3.3		
25	318	1.5	Missing Dosimeter	No Net Data	10.9 +- 3.0		
26	341	3.2	15.0 +- 0.5; 2.3	11.9 +- 0.5; 3.6	13.2 +- 1.8		
27	330	4.6	14.3 +- 0.4; 2.1	11.2 +- 0.5; 3.5	11.9 +- 3.1		
28	358	3.2	14.5 +- 0.4; 2.2	11.5 +- 0.5; 3.5	11.1 +- 3.0		
29	4	1.8	13.7 +- 0.4; 2.0	10.6 +- 0.5; 3.5	11.6 +- 3.0		
30	19	0.8	14.3 +- 0.4; 2.1	11.2 +- 0.5; 3.5	11.6 +- 1.3		
31	69	1.4	14.4 +- 0.4; 2.2	11.3 +- 0.5; 3.5	11.9 +- 3.2		
32	78	2.5	14.8 +- 0.4; 2.2	11.7 +- 0.5; 3.6	10.9 +- 1.7		
33	85	2.2	13.9 +- 0.4; 2.1	10.9 +- 0.5; 3.5	10.7 +- 2.8		
34	38	1.7	15.2 +- 0.5; 2.3	12.1 +- 0.5; 3.6	11.6 +- 1.5		
35	24	1.9	13.9 +- 0.4; 2.1	10.8 +- 0.5; 3.5	12.5 +- 3.6		
36	50	3.0	14.0 +- 0.4; 2.1	11.0 +- 0.5; 3.5	12.7 +- 2.0		
37	46	4.8	13.1 +- 0.4; 2.0	10.1 +- 0.5; 3.4	11.3 +- 1.4		
38	27	4.0	16.4 +- 0.5; 2.5	13.3 +- 0.6; 3.7	12.3 +- 3.3		
39	12	8.9	15.8 +- 0.5; 2.4	12.7 +- 0.6; 3.7	11.9 +- 2.9		
40	10	8.7	14.7 +- 0.4; 2.2	11.6 +- 0.5; 3.6	11.0 +- 2.8		
41	3	9.9	15.0 +- 0.5; 2.3	11.9 +- 0.5; 3.6	11.8 +- 3.3		
42	38	10.0	16.0 +- 0.5; 2.4	12.9 +- 0.6; 3.7	12.4 +- 1.7		
43	46	9.1	18.0 +- 0.5; 2.7	14.8 +- 0.6; 3.9	14.1 +- 3.6		
44	73	6.5	14.5 +- 0.4; 2.2	11.5 +- 0.5; 3.5	10.8 +- 2.8		
45	79	6.0	15.9 +- 0.5; 2.4	12.8 +- 0.6; 3.7	12.3 +- 3.1		
46	278	20.0	15.9 +- 0.5; 2.4	12.8 +- 0.6; 3.7	12.3 +- 3.0		
47	278	20.0	16.6 +- 0.5; 2.5	13.4 +- 0.6; 3.7	12.4 +- 2.9		

Transit Dose = 2.8 +- 0.3; 2.9

OYSTER CREEK
For the period 930606-931027

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	11.4 +- 0.6	4
11.26 - 33.75 NNE	12.0 +- 1.2	4
33.76 - 56.25 NE	12.2 +- 1.8	5
56.26 - 78.75 ENE	11.5 +- 0.2	3
78.76 - 101.25 E	11.8 +- 1.3	2
101.26 - 123.75 ESE	11.6 +- 0.9	2
123.76 - 146.25 SE	11.7 +- 1.5	4
146.26 - 168.75 SSE	11.2 +- 0.4	3
168.76 - 191.25 S	11.8 +- 0.7	5
191.26 - 213.75 SSW	11.2 +- 0.3	3
213.76 - 236.25 SW	12.2 +- 1.7	2
236.26 - 258.75 WSW	10.5 +- 0.0	1
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	11.6 +- 0.5	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	11.3 +- 0.7	14
2 - 5	11.5 +- 1.0	13
> 5	12.2 +- 1.1	13
Upwind Control	13.1 +- 0.5	2

NRC TLD DOSES FOR OYSTER CREEK AREA

Miles

0 2 4

Legend

Water

Highways

Railroads

Roads

Plant site

PALISADES
 TLD Direct Radiation Environmental Monitoring
 For the period 930609-931026 140 Days
 Field Time: 87 Days

NRC Sta	Location Azimuth/Dist (Deg)/(Ml)	Gross Exposure (mR) +-Rdm; Tot.	Net Exposure Rate (mR/Std. Qtr.) +-Rdm; Tot.	Hist. Range Net Exp Rate +-1 Std Dev	
1	195	4.9	18.3 +- 0.6; 2.8	13.4 +- 0.7; 4.2	13.6 +- 2.0
2	173	4.6	18.1 +- 0.5; 2.7	13.2 +- 0.7; 4.2	14.2 +- 2.3
3	156	3.9	18.5 +- 0.6; 2.8	13.6 +- 0.7; 4.2	15.3 +- 1.9
4	132	4.6	17.6 +- 0.5; 2.6	12.7 +- 0.7; 4.1	14.2 +- 2.0
5	118	3.3	18.9 +- 0.6; 2.8	14.1 +- 0.7; 4.3	15.1 +- 2.3
6	152	1.8	17.8 +- 0.5; 2.7	12.9 +- 0.7; 4.1	14.0 +- 2.1
7	196	2.2	17.7 +- 0.5; 2.7	12.8 +- 0.7; 4.1	13.6 +- 2.1
8	178	1.6	20.5 +- 0.6; 3.1	15.7 +- 0.7; 4.4	14.6 +- 2.2
9	200	0.9	17.4 +- 0.5; 2.6	12.5 +- 0.7; 4.1	14.1 +- 2.1
10	124	1.8	19.1 +- 0.6; 2.9	14.2 +- 0.7; 4.3	14.5 +- 2.8
11	107	1.6	17.9 +- 0.5; 2.7	13.0 +- 0.7; 4.1	14.7 +- 2.0
12	90	1.5	18.7 +- 0.6; 2.8	13.9 +- 0.7; 4.2	13.7 +- 2.2
13	65	1.7	17.3 +- 0.5; 2.6	12.3 +- 0.7; 4.1	14.2 +- 2.0
14	51	1.9	17.6 +- 0.5; 2.6	12.7 +- 0.7; 4.1	14.0 +- 1.9
15	74	3.7	17.3 +- 0.5; 2.6	12.3 +- 0.7; 4.1	13.3 +- 2.5
16	90	3.6	16.9 +- 0.5; 2.5	11.9 +- 0.7; 4.0	13.3 +- 2.4
17	98	10.0	19.1 +- 0.6; 2.9	14.2 +- 0.7; 4.3	15.3 +- 2.0
18	47	4.5	20.3 +- 0.6; 3.0	15.5 +- 0.7; 4.4	16.0 +- 2.0
19	23	1.5	19.1 +- 0.6; 2.9	14.3 +- 0.7; 4.3	13.2 +- 2.6
20	32	4.8	18.7 +- 0.6; 2.8	13.8 +- 0.7; 4.2	15.8 +- 2.4
21	29	7.0	18.1 +- 0.5; 2.7	13.2 +- 0.7; 4.2	15.1 +- 1.8
22	99	15.0	19.2 +- 0.6; 2.9	14.4 +- 0.7; 4.3	15.4 +- 2.2
23	98	18.0	19.3 +- 0.6; 2.9	14.4 +- 0.7; 4.3	15.3 +- 2.0
24	98	18.0	19.2 +- 0.6; 2.9	14.3 +- 0.7; 4.3	15.2 +- 2.2

Transit Dose = 5.3 +- 0.4; 3.0

PALISADES

For the period 930609-931026

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	No Data +- No Data	0
11.26 - 33.75 NNE	13.8 +- 0.5	3
33.76 - 56.25 NE	14.1 +- 2.0	2
56.26 - 78.75 ENE	12.3 +- 0.0	2
78.76 - 101.25 E	13.3 +- 1.2	3
101.26 - 123.75 ESE	13.5 +- 0.7	2
123.76 - 146.25 SE	13.5 +- 1.0	2
146.26 - 168.75 SSE	13.2 +- 0.5	2
168.76 - 191.25 S	14.5 +- 1.8	2
191.26 - 213.75 SSW	12.9 +- 0.5	3
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	13.5 +- 1.1	9
2 - 5	13.3 +- 1.0	10
> 5	13.7 +- 0.7	2
Upwind Control	14.4 +- 0.1	3

NRC TLD DOSES FOR PALISADES AREA

Miles

Legend

Water

Railroads

Plant..site

Highways

Roads

PALO VERDE
 TLD Direct Radiation Environmental Monitoring
 For the period 930610-931021 134 Days
 Field Time: 92 Days

NRC Sta	Location Azimuth/Dist (Deg)/(Mi)	Gross Exposure (mR) +-Rdm; Tot.	Net Exposure (mR/Std. Qtr.) +-Rdm; Tot.	Hist. Range Net Exp Rate +-1 Std Dev
1	74	24.5 +- 0.7; 3.7	21.1 +- 0.8; 4.6	20.1 +- 1.6
2	92	22.3 +- 0.7; 3.3	18.9 +- 0.7; 4.3	21.0 +- 2.0
3	89	23.8 +- 0.7; 3.6	20.3 +- 0.8; 4.5	20.3 +- 1.9
4	103	22.4 +- 0.7; 3.4	19.0 +- 0.7; 4.3	20.6 +- 1.9
5	140	25.7 +- 0.8; 3.9	22.3 +- 0.8; 4.7	21.6 +- 1.9
6	142	24.6 +- 0.7; 3.7	21.2 +- 0.8; 4.6	20.7 +- 1.7
7	162	23.4 +- 0.7; 3.5	20.0 +- 0.8; 4.5	20.8 +- 1.8
8	168	25.6 +- 0.8; 3.8	22.1 +- 0.8; 4.7	20.9 +- 1.9
9	193	24.9 +- 0.7; 3.7	21.4 +- 0.8; 4.6	22.4 +- 1.8
10	215	25.2 +- 0.8; 3.8	21.7 +- 0.8; 4.7	22.3 +- 1.9
11	200	26.8 +- 0.8; 4.0	23.3 +- 0.8; 4.8	22.4 +- 1.9
12	214	25.8 +- 0.8; 3.9	22.3 +- 0.8; 4.7	21.6 +- 1.7
13	242	29.1 +- 0.9; 4.4	25.5 +- 0.9; 5.1	23.7 +- 2.0
14	263	Missing Dosimeter	No Net Data	22.2 +- 1.9
15	295	25.7 +- 0.8; 3.8	22.2 +- 0.8; 4.7	21.6 +- 1.9
16	325	24.1 +- 0.7; 3.6	20.7 +- 0.8; 4.5	21.7 +- 1.7
17	347	25.0 +- 0.7; 3.7	21.5 +- 0.8; 4.6	22.4 +- 1.9
18	0	25.3 +- 0.8; 3.8	21.8 +- 0.8; 4.7	23.0 +- 1.8
19	18	22.7 +- 0.7; 3.4	19.3 +- 0.7; 4.4	20.5 +- 1.7
20	37	23.9 +- 0.7; 3.6	20.5 +- 0.8; 4.5	21.5 +- 1.6
21	58	24.8 +- 0.7; 3.7	21.4 +- 0.8; 4.6	22.7 +- 2.0
22	75	25.4 +- 0.8; 3.8	21.9 +- 0.8; 4.7	23.0 +- 1.6
23	93	25.2 +- 0.8; 3.8	21.8 +- 0.8; 4.7	22.1 +- 1.9
24	101	26.3 +- 0.8; 3.9	22.8 +- 0.8; 4.8	21.9 +- 2.4
25	346	25.4 +- 0.8; 3.8	22.0 +- 0.8; 4.7	21.8 +- 1.8
26	334	28.5 +- 0.9; 4.3	25.0 +- 0.9; 5.1	24.4 +- 1.9
27	333	Missing Dosimeter	No Net Data	24.7 +- 2.4
28	0	25.4 +- 0.8; 3.8	21.9 +- 0.8; 4.7	22.7 +- 1.9
29	9	Missing Dosimeter	No Net Data	23.7 +- 1.9
30	27	25.7 +- 0.8; 3.9	22.3 +- 0.8; 4.7	23.3 +- 2.0
31	49	25.8 +- 0.8; 3.9	22.3 +- 0.8; 4.7	23.6 +- 1.8
32	120	28.6 +- 0.9; 4.3	25.0 +- 0.9; 5.1	24.3 +- 2.0

Transit Dose = 3.0 +- 0.3; 2.9

PALO VERDE

For the period 930610-931021

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	21.9 +- 0.1	2
11.26 - 33.75 NNE	20.8 +- 2.1	2
33.76 - 56.25 NE	21.4 +- 1.3	2
56.26 - 78.75 ENE	21.6 +- 0.4	2
78.76 - 101.25 E	22.3 +- 0.7	2
101.26 - 123.75 ESE	22.0 +- 4.3	2
123.76 - 146.25 SE	21.7 +- 0.8	2
146.26 - 168.75 SSE	21.0 +- 1.5	2
168.76 - 191.25 S	No Data +- No Data	0
191.26 - 213.75 SSW	22.3 +- 1.3	2
213.76 - 236.25 SW	22.0 +- 0.4	2
236.26 - 258.75 WSW	25.5 +- 0.0	1
258.76 - 281.25 W	No Data +- No Data	0
281.26 - 303.75 WNW	22.2 +- 0.0	1
303.76 - 326.25 NW	20.7 +- 0.0	1
326.26 - 348.75 NNW	22.8 +- 1.9	3

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	21.9 +- 1.9	8
2 - 5	22.2 +- 1.3	15
> 5	21.1 +- 1.8	3
Upwind Control	20.1 +- 1.1	3

NRC TLD DOSES FOR PALO VERDE AREA

Miles

Legend

— Highways

- - - Railroads

- - - Roads

★ Plant site

PEACH BOTTOM
 TLD Direct Radiation Environmental Monitoring
 For the period 930606-931019 136 Days
 Field Time: 95 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	330 10.3	23.2 +- 0.7; 3.5	18.3 +- 0.7; 4.4	15.6 +- 1.4
2	33 10.5	22.3 +- 0.7; 3.3	17.4 +- 0.7; 4.3	16.9 +- 1.3
3	21 4.8	22.1 +- 0.7; 3.3	17.2 +- 0.7; 4.3	17.9 +- 1.5
4	3 5.0	21.3 +- 0.6; 3.2	16.5 +- 0.7; 4.2	17.1 +- 1.5
5	344 4.1	22.6 +- 0.7; 3.4	17.7 +- 0.7; 4.3	17.3 +- 1.5
6	1 2.2	23.8 +- 0.7; 3.6	18.9 +- 0.8; 4.5	19.0 +- 1.5
7	26 2.4	23.6 +- 0.7; 3.5	18.7 +- 0.7; 4.4	18.0 +- 1.4
8	55 2.8	22.0 +- 0.7; 3.3	17.1 +- 0.7; 4.3	18.6 +- 1.6
9	42 2.0	22.2 +- 0.7; 3.3	17.4 +- 0.7; 4.3	17.1 +- 1.3
10	62 1.7	23.7 +- 0.7; 3.6	18.8 +- 0.8; 4.4	18.6 +- 2.6
11	96 1.9	24.1 +- 0.7; 3.6	19.1 +- 0.8; 4.5	19.2 +- 1.5
12	105 2.3	19.1 +- 0.6; 2.9	14.4 +- 0.6; 4.0	14.0 +- 1.0
13	72 5.0	22.3 +- 0.7; 3.4	17.5 +- 0.7; 4.3	16.8 +- 1.6
14	85 4.6	23.3 +- 0.7; 3.5	18.4 +- 0.7; 4.4	18.6 +- 1.7
15	109 4.3	24.3 +- 0.7; 3.6	19.3 +- 0.8; 4.5	19.2 +- 1.6
16	130 4.6	17.8 +- 0.5; 2.7	13.2 +- 0.6; 3.9	13.3 +- 1.5
17	157 8.9	20.3 +- 0.6; 3.0	15.5 +- 0.7; 4.1	15.3 +- 1.5
18	163 4.6	20.5 +- 0.6; 3.1	15.7 +- 0.7; 4.1	16.6 +- 1.3
19	183 3.9	23.2 +- 0.7; 3.5	18.3 +- 0.7; 4.4	18.9 +- 1.3
20	201 4.8	24.2 +- 0.7; 3.6	19.3 +- 0.8; 4.5	18.7 +- 1.8
21	196 2.3	24.6 +- 0.7; 3.7	19.6 +- 0.8; 4.5	19.2 +- 1.6
22	182 1.7	23.2 +- 0.7; 3.5	18.3 +- 0.7; 4.4	18.7 +- 1.3
23	157 1.8	27.3 +- 0.8; 4.1	22.2 +- 0.8; 4.8	21.5 +- 1.9
24	219 1.8	26.3 +- 0.8; 3.9	21.3 +- 0.8; 4.7	20.6 +- 1.6
25	249 1.7	26.3 +- 0.8; 3.9	21.3 +- 0.8; 4.7	19.6 +- 1.6
26	269 1.8	26.1 +- 0.8; 3.9	21.0 +- 0.8; 4.7	20.2 +- 1.7
27	286 1.8	22.4 +- 0.7; 3.4	17.5 +- 0.7; 4.3	17.5 +- 1.1
28	323 1.8	20.7 +- 0.6; 3.1	16.0 +- 0.7; 4.1	16.1 +- 1.5
29	286 3.6	26.5 +- 0.8; 4.0	21.5 +- 0.8; 4.8	21.2 +- 1.4
30	262 4.0	26.1 +- 0.8; 3.9	21.0 +- 0.8; 4.7	20.6 +- 1.7
31	261 9.9	24.9 +- 0.7; 3.7	20.0 +- 0.8; 4.6	21.2 +- 1.5
32	247 3.2	23.3 +- 0.7; 3.5	18.4 +- 0.7; 4.4	18.5 +- 1.3
33	235 3.6	17.6 +- 0.5; 2.6	13.0 +- 0.6; 3.8	13.9 +- 1.5
34	319 4.9	24.0 +- 0.7; 3.6	19.1 +- 0.8; 4.5	19.6 +- 1.5
35	149 0.7	21.0 +- 0.6; 3.1	16.2 +- 0.7; 4.2	17.7 +- 1.4
36	147 17.9	19.1 +- 0.6; 2.9	14.4 +- 0.6; 4.0	13.9 +- 1.2
37	147 17.9	18.9 +- 0.6; 2.8	14.2 +- 0.6; 4.0	14.7 +- 1.4
38	147 17.9	18.6 +- 0.6; 2.8	14.0 +- 0.6; 3.9	14.4 +- 1.2

Transit Dose = 3.9 +- 0.4; 3.1

PEACH BOTTOM
For the period 930606-931019

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	17.7 +- 1.7	2
11.26 - 33.75 NNE	17.8 +- 0.8	3
33.76 - 56.25 NE	17.2 +- 0.2	2
56.26 - 78.75 ENE	18.1 +- 0.9	2
78.76 - 101.25 E	18.8 +- 0.5	2
101.26 - 123.75 ESE	16.9 +- 3.5	2
123.76 - 146.25 SE	13.2 +- 0.0	1
146.26 - 168.75 SSE	17.4 +- 3.2	4
168.76 - 191.25 S	18.3 +- 0.0	2
191.26 - 213.75 SSW	19.5 +- 0.2	2
213.76 - 236.25 SW	17.1 +- 5.9	2
236.26 - 258.75 WSW	19.8 +- 2.0	2
258.76 - 281.25 W	20.7 +- 0.6	3
281.26 - 303.75 WNW	19.5 +- 2.8	2
303.76 - 326.25 NW	17.5 +- 2.2	2
326.26 - 348.75 NNW	18.0 +- 0.4	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	19.0 +- 2.2	11
2 - 5	17.7 +- 2.3	20
> 5	17.8 +- 1.8	4
Upwind Control	14.2 +- 0.2	3

NRC TLD DOSES FOR PEACH BOTTOM AREA

Miles

0 2 4

Legend

Water

--- Railroads

Plant..site

— Highways

--- Roads

PERRY
 TLD Direct Radiation Environmental Monitoring
 For the period 930609-931019 133 Days
 Field Time: 67 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	72	5.0	18.3 +- 0.5; 2.7	16.4 +- 0.9; 5.0	16.2 +- 2.1
3	88	5.5	18.3 +- 0.5; 2.7	16.3 +- 0.9; 5.0	16.2 +- 2.1
4	112	6.0	18.8 +- 0.6; 2.8	17.0 +- 0.9; 5.1	17.1 +- 2.2
5	130	4.0	18.5 +- 0.6; 2.8	16.6 +- 0.9; 5.0	16.9 +- 2.4
6	155	5.0	21.6 +- 0.6; 3.2	20.8 +- 1.0; 5.5	19.9 +- 1.6
7	178	5.2	19.6 +- 0.6; 2.9	18.2 +- 0.9; 5.2	17.7 +- 1.9
8	205	4.6	17.3 +- 0.5; 2.6	15.0 +- 0.8; 4.8	17.5 +- 3.5
9	220	5.2	18.2 +- 0.5; 2.7	16.3 +- 0.9; 5.0	16.2 +- 2.1
10	225	7.4	19.4 +- 0.6; 2.9	17.8 +- 0.9; 5.1	17.6 +- 2.1
11	240	5.8	21.8 +- 0.7; 3.3	21.1 +- 1.0; 5.5	18.8 +- 2.2
12	225	19.0	17.7 +- 0.5; 2.7	15.5 +- 0.9; 4.9	16.6 +- 2.4
13	225	19.0	17.6 +- 0.5; 2.6	15.4 +- 0.8; 4.9	16.0 +- 2.3
14	212	12.0	24.0 +- 0.7; 3.6	24.1 +- 1.1; 5.9	21.9 +- 2.3
15	248	1.4	18.2 +- 0.5; 2.7	16.2 +- 0.9; 5.0	16.1 +- 2.2
16	225	0.8	18.3 +- 0.5; 2.7	16.4 +- 0.9; 5.0	16.2 +- 3.3
17	205	0.7	16.8 +- 0.5; 2.5	14.4 +- 0.8; 4.8	14.2 +- 2.0
18	180	0.8	19.1 +- 0.6; 2.9	17.4 +- 0.9; 5.1	15.6 +- 2.3
19	152	1.8	18.9 +- 0.6; 2.8	17.1 +- 0.9; 5.1	16.4 +- 2.3
20	123	1.6	16.8 +- 0.5; 2.5	14.3 +- 0.8; 4.8	14.5 +- 2.2
21	105	1.4	18.9 +- 0.6; 2.8	17.2 +- 0.9; 5.1	14.8 +- 2.1
22	85	1.2	18.3 +- 0.5; 2.7	16.3 +- 0.9; 5.0	16.6 +- 3.3
23	65	1.4	18.8 +- 0.6; 2.8	17.0 +- 0.9; 5.1	16.4 +- 2.3
24	40	0.6	18.0 +- 0.5; 2.7	15.9 +- 0.9; 4.9	15.6 +- 3.8
25	40	0.6	17.5 +- 0.5; 2.6	15.3 +- 0.8; 4.9	18.0 +- 3.3
26	182	2.8	17.6 +- 0.5; 2.6	15.4 +- 0.8; 4.9	16.9 +- 3.3
27	175	2.8	19.9 +- 0.6; 3.0	18.5 +- 0.9; 5.2	16.9 +- 3.4

Transit Dose = 6.1 +- 0.3; 2.5

PERRY

For the period 930609-931019

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	No Data +- No Data	0
11.26 - 33.75 NNE	No Data +- No Data	0
33.76 - 56.25 NE	15.6 +- 0.5	2
56.26 - 78.75 ENE	16.7 +- 0.4	2
78.76 - 101.25 E	16.3 +- 0.0	2
101.26 - 123.75 ESE	16.2 +- 1.6	3
123.76 - 146.25 SE	16.6 +- 0.0	1
146.26 - 168.75 SSE	19.0 +- 2.6	2
168.76 - 191.25 S	17.4 +- 1.4	4
191.26 - 213.75 SSW	14.7 +- 0.4	2
213.76 - 236.25 SW	16.8 +- 0.8	3
236.26 - 258.75 WSW	18.7 +- 3.4	2
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	16.1 +- 1.1	11
2 - 5	17.1 +- 2.2	6
> 5	17.8 +- 1.8	6
Upwind Control	18.3 +- 5.0	3

NRC TLD DOSES FOR PERRY AREA

Miles

Legend

Water
Highways

Railroads
Roads

Plant site

PILGRIM
 TLD Direct Radiation Environmental Monitoring
 For the period 930608-931028 143 Days
 Field Time: 106 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	288	0.1	129.4 +- 3.9; 19.4	100.8 +- 3.3; 16.8	43.0 +- 27.8
2	310	0.2	32.6 +- 1.0; 4.9	18.7 +- 1.0; 5.4	16.7 +- 2.8
5	289	0.7	29.0 +- 0.9; 4.4	15.6 +- 0.9; 5.0	16.3 +- 2.2
6	261	1.7	29.1 +- 0.9; 4.4	15.7 +- 0.9; 5.1	14.4 +- 1.8
7	270	0.5	32.1 +- 1.0; 4.8	18.2 +- 1.0; 5.3	18.4 +- 2.5
8	247	0.3	31.0 +- 0.9; 4.7	17.3 +- 0.9; 5.2	16.5 +- 1.7
9	224	0.3	31.7 +- 1.0; 4.8	17.9 +- 0.9; 5.3	14.9 +- 2.2
10	205	0.3	34.8 +- 1.0; 5.2	20.5 +- 1.0; 5.6	16.3 +- 3.4
11	184	0.3	35.1 +- 1.1; 5.3	20.8 +- 1.0; 5.6	17.8 +- 3.5
12	159	0.4	29.4 +- 0.9; 4.4	15.9 +- 0.9; 5.1	16.0 +- 2.4
13	146	0.7	26.6 +- 0.8; 4.0	13.5 +- 0.8; 4.8	13.5 +- 1.7
14	155	1.0	26.3 +- 0.8; 3.9	13.3 +- 0.8; 4.8	15.1 +- 2.6
16	136	1.3	27.4 +- 0.8; 4.1	14.3 +- 0.9; 4.9	13.7 +- 1.6
18	212	0.8	25.6 +- 0.8; 3.8	12.7 +- 0.8; 4.7	14.2 +- 4.4
19	232	1.0	27.3 +- 0.8; 4.1	14.1 +- 0.9; 4.9	13.6 +- 1.7
21	256	1.6	25.1 +- 0.8; 3.8	12.3 +- 0.8; 4.7	13.4 +- 2.6
22	130	2.5	27.7 +- 0.8; 4.2	14.5 +- 0.9; 4.9	13.8 +- 2.0
23	146	3.4	25.6 +- 0.8; 3.8	12.7 +- 0.8; 4.7	13.3 +- 2.1
25	168	1.5	28.1 +- 0.8; 4.2	14.8 +- 0.9; 5.0	14.1 +- 1.8
26	180	1.3	26.3 +- 0.8; 3.9	13.3 +- 0.8; 4.8	12.1 +- 1.8
27	231	1.8	26.9 +- 0.8; 4.0	13.9 +- 0.8; 4.9	13.5 +- 1.8
30	153	2.2	29.7 +- 0.9; 4.5	16.2 +- 0.9; 5.1	16.1 +- 1.7
31	179	2.5	23.4 +- 0.7; 3.5	10.8 +- 0.8; 4.5	13.0 +- 1.8
32	217	2.6	25.5 +- 0.8; 3.8	12.6 +- 0.8; 4.7	12.2 +- 2.0
33	234	2.5	25.0 +- 0.8; 3.8	12.2 +- 0.8; 4.7	13.8 +- 2.2
37	264	4.2	29.4 +- 0.9; 4.4	15.9 +- 0.9; 5.1	14.3 +- 1.8
38	152	3.5	24.2 +- 0.7; 3.6	11.6 +- 0.8; 4.6	13.1 +- 2.3
39	155	5.3	23.9 +- 0.7; 3.6	11.3 +- 0.8; 4.6	11.8 +- 1.5
40	272	4.6	29.2 +- 0.9; 4.4	15.8 +- 0.9; 5.1	15.0 +- 1.8
42	281	4.6	26.0 +- 0.8; 3.9	13.1 +- 0.8; 4.8	13.2 +- 2.0
43	291	5.8	30.5 +- 0.9; 4.6	16.9 +- 0.9; 5.2	15.7 +- 1.8
45	197	6.0	24.7 +- 0.7; 3.7	11.9 +- 0.8; 4.7	12.7 +- 2.6
47	301	26.0	31.0 +- 0.9; 4.7	17.3 +- 0.9; 5.2	15.0 +- 1.8
48	301	26.0	29.5 +- 0.9; 4.4	16.0 +- 0.9; 5.1	15.8 +- 2.1
49	301	26.0	27.0 +- 0.8; 4.1	13.9 +- 0.8; 4.9	14.6 +- 1.8

Transit Dose = 10.6 +- 0.6; 4.0

PILGRIM

For the period 930608-931028

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	No Data +- No Data	0
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	13.7 +- 0.8	4
146.26 - 168.75 SSE	13.9 +- 2.1	6
168.76 - 191.25 S	15.0 +- 5.2	3
191.26 - 213.75 SSW	15.0 +- 4.7	3
213.76 - 236.25 SW	14.1 +- 2.2	5
236.26 - 258.75 WSW	14.8 +- 3.6	2
258.76 - 281.25 W	15.8 +- 1.8	5
281.26 - 303.75 WNW	44.4 +- 48.8	3
303.76 - 326.25 NW	18.7 +- 0.0	1
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	20.2 +- 19.7	19
2 - 5	13.5 +- 1.9	10
> 5	13.4 +- 3.1	3
Upwind Control	15.8 +- 1.7	3

NRC TLD DOSES FOR PILGRIM AREA

Miles

Legend

Water

--- Railroads

Plant site

— Highways

--- Roads

PRAIRIE ISLAND
 TLD Direct Radiation Environmental Monitoring
 For the period 930607-931021 137 Days
 Field Time: 78 Days

NRC Sta	Location Azimuth/Dist (Deg)/(Mi)	Gross		Net Exposure Rate		Hist. Range	
		Exposure +-Rdm; Tot.	(mR)	(mR/Std. Qtr.) +-Rdm; Tot.		Net Exp Rate +-1 Std Dev	
1	312	20.7	+- 0.6; 3.1	14.9	+- 0.9; 5.0	17.8	+- 2.2
2	310	21.0	+- 0.6; 3.2	15.3	+- 0.9; 5.0	17.0	+- 2.2
3	310	21.2	+- 0.6; 3.2	15.5	+- 0.9; 5.0	17.0	+- 2.3
4	308	23.1	+- 0.7; 3.5	17.7	+- 0.9; 5.3	17.5	+- 1.9
5	297	20.9	+- 0.6; 3.1	15.1	+- 0.9; 5.0	16.1	+- 1.9
6	287	20.1	+- 0.6; 3.0	14.3	+- 0.9; 4.9	16.8	+- 2.1
7	313	18.2	+- 0.5; 2.7	12.1	+- 0.8; 4.7	15.2	+- 1.7
8	244	20.6	+- 0.6; 3.1	14.8	+- 0.9; 4.9	16.4	+- 1.6
9	194	20.5	+- 0.6; 3.1	14.7	+- 0.9; 4.9	16.8	+- 1.6
10	155	21.1	+- 0.6; 3.2	15.4	+- 0.9; 5.0	17.4	+- 1.8
11	129	20.3	+- 0.6; 3.0	14.4	+- 0.9; 4.9	15.6	+- 1.7
12	153	20.9	+- 0.6; 3.1	15.1	+- 0.9; 5.0	16.4	+- 1.6
13	217	21.6	+- 0.6; 3.2	16.0	+- 0.9; 5.1	16.8	+- 1.8
14	178	21.5	+- 0.6; 3.2	15.9	+- 0.9; 5.1	16.7	+- 1.8
15	272	20.3	+- 0.6; 3.0	14.5	+- 0.9; 4.9	15.8	+- 1.9
16	262	21.9	+- 0.7; 3.3	16.3	+- 0.9; 5.1	18.0	+- 2.4
17	250	22.4	+- 0.7; 3.4	16.9	+- 0.9; 5.2	17.5	+- 2.0
18	225	21.0	+- 0.6; 3.1	15.2	+- 0.9; 5.0	17.8	+- 3.1
19	233	18.9	+- 0.6; 2.8	12.9	+- 0.8; 4.7	15.6	+- 2.0
20	200	23.3	+- 0.7; 3.5	17.9	+- 0.9; 5.3	18.7	+- 2.2
21	187	23.8	+- 0.7; 3.6	18.6	+- 1.0; 5.4	19.1	+- 2.2
22	160	21.0	+- 0.6; 3.1	15.3	+- 0.9; 5.0	17.5	+- 2.1
23	140	22.4	+- 0.7; 3.4	16.9	+- 0.9; 5.2	18.1	+- 2.0
24	131	21.1	+- 0.6; 3.2	15.4	+- 0.9; 5.0	17.5	+- 2.0
25	117	20.6	+- 0.6; 3.1	14.8	+- 0.9; 4.9	16.4	+- 1.9
26	88	20.0	+- 0.6; 3.0	14.1	+- 0.8; 4.9	16.8	+- 1.8
27	69	20.2	+- 0.6; 3.0	14.3	+- 0.9; 4.9	16.8	+- 2.2
28	47	20.8	+- 0.6; 3.1	15.1	+- 0.9; 5.0	17.1	+- 2.2
29	19	19.8	+- 0.6; 3.0	13.8	+- 0.8; 4.8	15.9	+- 2.0
30	356	19.3	+- 0.6; 2.9	13.4	+- 0.8; 4.8	16.3	+- 2.2
31	346	22.7	+- 0.7; 3.4	17.2	+- 0.9; 5.2	18.3	+- 2.1
32	340	22.4	+- 0.7; 3.4	16.9	+- 0.9; 5.2	19.2	+- 2.1
33	8	23.8	+- 0.7; 3.6	18.5	+- 1.0; 5.4	19.9	+- 2.0
34	17	24.0	+- 0.7; 3.6	18.8	+- 1.0; 5.4	18.9	+- 2.2
35	45	21.0	+- 0.6; 3.1	15.3	+- 0.9; 5.0	17.0	+- 1.8
36	48	23.0	+- 0.7; 3.4	17.5	+- 0.9; 5.2	18.7	+- 2.1
37	61	23.6	+- 0.7; 3.5	18.3	+- 1.0; 5.3	19.0	+- 1.9
38	86	22.2	+- 0.7; 3.3	16.7	+- 0.9; 5.1	18.7	+- 2.1
39	107	20.5	+- 0.6; 3.1	14.7	+- 0.9; 4.9	16.6	+- 1.9
40	111	20.6	+- 0.6; 3.1	14.8	+- 0.9; 4.9	16.5	+- 1.8

Transit Dose = 7.8 +- 0.4; 3.0

PRAIRIE ISLAND
For the period 930607-931021

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	15.9 +- 3.6	2
11.26 - 33.75 NNE	16.3 +- 3.5	2
33.76 - 56.25 NE	16.0 +- 1.4	3
56.26 - 78.75 ENE	16.3 +- 2.8	2
78.76 - 101.25 E	15.4 +- 1.8	2
101.26 - 123.75 ESE	14.7 +- 0.1	3
123.76 - 146.25 SE	15.6 +- 1.2	3
146.26 - 168.75 SSE	15.3 +- 0.1	3
168.76 - 191.25 S	17.2 +- 1.9	2
191.26 - 213.75 SSW	16.3 +- 2.3	2
213.76 - 236.25 SW	14.7 +- 1.7	3
236.26 - 258.75 WSW	15.8 +- 1.5	2
258.76 - 281.25 W	15.4 +- 1.3	2
281.26 - 303.75 WNW	14.7 +- 0.6	2
303.76 - 326.25 NW	14.9 +- 4.0	2
326.26 - 348.75 NNW	17.1 +- 0.3	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	14.5 +- 1.0	15
2 - 5	16.8 +- 1.4	17
> 5	15.2 +- 1.8	5
Upwind Control	15.2 +- 0.3	3

NRC TLD DOSES FOR PRAIRIE ISLAND AREA

Miles

Legend

Water
Highways

Railroads
Roads

Plant..site

QUAD CITIES
 TLD Direct Radiation Environmental Monitoring
 For the period 930607-931020 136 Days
 Field Time: 84 Days

NRC Sta	Location Azimuth/Dist (Deg)/(Mi)	Gross Exposure (mR) +-Rdm; Tot.	Net Exposure (mR/Std. Qtr.) +-Rdm; Tot.	Hist. Range Net Exp Rate +-1 Std Dev
1	3	0.7	18.2 +- 0.5; 2.7	15.0 +- 1.7
2	16	1.2	20.7 +- 0.6; 3.1	17.4 +- 2.2
3	35	1.7	18.7 +- 0.6; 2.8	15.1 +- 1.7
4	45	1.1	19.0 +- 0.6; 2.9	15.9 +- 1.6
5	90	0.8	18.2 +- 0.5; 2.7	15.6 +- 1.7
6	138	1.1	17.9 +- 0.5; 2.7	16.3 +- 1.7
7	175	1.8	18.6 +- 0.6; 2.8	16.3 +- 1.8
8	165	2.0	19.8 +- 0.6; 3.0	16.4 +- 1.6
9	186	3.1	19.3 +- 0.6; 2.9	15.9 +- 1.5
10	188	7.7	15.5 +- 0.5; 2.3	16.4 +- 4.6
11	156	4.2	19.0 +- 0.6; 2.9	16.8 +- 1.7
12	142	4.8	18.9 +- 0.6; 2.8	16.6 +- 1.9
13	123	3.3	19.5 +- 0.6; 2.9	16.2 +- 1.7
14	122	2.0	17.8 +- 0.5; 2.7	15.0 +- 1.9
15	86	2.8	20.0 +- 0.6; 3.0	17.3 +- 1.7
16	57	4.4	21.5 +- 0.6; 3.2	19.0 +- 1.7
17	48	6.1	19.5 +- 0.6; 2.9	16.5 +- 1.6
18	39	9.4	18.9 +- 0.6; 2.8	15.8 +- 1.4
19	34	4.7	19.0 +- 0.6; 2.8	15.5 +- 1.7
20	16	4.3	19.0 +- 0.6; 2.9	16.6 +- 1.8
21	352	4.2	21.5 +- 0.6; 3.2	18.7 +- 2.9
22	328	4.1	20.7 +- 0.6; 3.1	18.6 +- 1.8
23	337	5.7	19.6 +- 0.6; 2.9	17.0 +- 1.7
24	310	4.4	20.9 +- 0.6; 3.1	18.4 +- 1.9
25	295	4.1	18.5 +- 0.6; 2.8	16.3 +- 1.8
26	278	6.9	17.0 +- 0.5; 2.6	14.4 +- 1.7
27	260	4.3	19.7 +- 0.6; 3.0	16.2 +- 1.9
28	253	4.0	19.7 +- 0.6; 3.0	16.7 +- 1.8
29	352	2.8	20.6 +- 0.6; 3.1	17.5 +- 1.9
30	335	1.9	31.9 +- 1.0; 4.8	17.1 +- 1.7
31	305	2.6	20.0 +- 0.6; 3.0	17.3 +- 2.2
32	285	2.5	15.6 +- 0.5; 2.3	15.2 +- 2.3
33	257	2.0	20.4 +- 0.6; 3.1	16.7 +- 2.3
34	248	2.2	20.0 +- 0.6; 3.0	16.7 +- 1.6
35	229	2.6	19.4 +- 0.6; 2.9	15.8 +- 1.8
36	204	3.4	19.0 +- 0.6; 2.8	16.4 +- 2.5
37	194	9.3	19.6 +- 0.6; 2.9	16.7 +- 3.3
38	224	4.9	21.0 +- 0.6; 3.1	17.4 +- 2.0
39	301	14.0	18.8 +- 0.6; 2.8	15.6 +- 1.7
40	301	14.0	18.8 +- 0.6; 2.8	15.5 +- 1.9
41	301	14.0	18.1 +- 0.5; 2.7	15.0 +- 1.8

Transit Dose = 4.7 +- 0.3; 2.8

QUAD CITIES

For the period 930607-931020

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	16.5 +- 1.8	3
11.26 - 33.75 NNE	16.2 +- 1.3	2
33.76 - 56.25 NE	15.3 +- 0.3	5
56.26 - 78.75 ENE	18.0 +- 0.0	1
78.76 - 101.25 E	15.4 +- 1.3	2
101.26 - 123.75 ESE	14.9 +- 1.3	2
123.76 - 146.25 SE	14.6 +- 0.8	2
146.26 - 168.75 SSE	15.8 +- 0.6	2
168.76 - 191.25 S	14.0 +- 2.2	3
191.26 - 213.75 SSW	15.6 +- 0.4	2
213.76 - 236.25 SW	16.6 +- 1.2	2
236.26 - 258.75 WSW	16.4 +- 0.4	3
258.76 - 281.25 W	14.6 +- 2.1	2
281.26 - 303.75 WNW	13.2 +- 2.2	2
303.76 - 326.25 NW	16.9 +- 0.7	2
326.26 - 348.75 NNW	20.7 +- 7.3	3

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	16.5 +- 4.3	11
2 - 5	16.0 +- 1.4	21
> 5	14.6 +- 1.8	6
Upwind Control	14.8 +- 0.4	3

NRC TLD DOSES FOR QUAD CITIES AREA

Miles

0 2 4

Legend

Water

— Highways

--- Railroads

--- Roads

Plant site

RANCHO SECO
 TLD Direct Radiation Environmental Monitoring
 For the period 930606-931027 144 Days
 Field Time: 93 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	288 16.0	22.4 +- 0.7; 3.4	17.9 +- 0.7; 4.4	16.3 +- 3.0
2	239 12.0	23.2 +- 0.7; 3.5	18.6 +- 0.8; 4.5	17.7 +- 1.9
3	213 16.0	Missing Dosimeter	No Net Data	18.9 +- 1.8
4	149 9.9	22.7 +- 0.7; 3.4	18.1 +- 0.7; 4.4	16.8 +- 2.6
5	108 8.2	29.9 +- 0.9; 4.5	25.1 +- 0.9; 5.2	22.7 +- 2.1
6	86 10.0	19.7 +- 0.6; 2.9	15.2 +- 0.7; 4.1	14.8 +- 2.1
7	83 9.7	20.9 +- 0.6; 3.1	16.4 +- 0.7; 4.2	14.6 +- 1.6
8	37 7.1	20.7 +- 0.6; 3.1	16.1 +- 0.7; 4.2	15.0 +- 1.9
9	65 0.8	22.1 +- 0.7; 3.3	17.6 +- 0.7; 4.3	15.9 +- 2.0
10	43 0.7	Damaged Dosimeter	No Net Data	17.0 +- 2.4
11	92 0.2	Missing Dosimeter	No Net Data	15.5 +- 2.0
12	131 1.6	20.7 +- 0.6; 3.1	16.1 +- 0.7; 4.2	14.5 +- 1.7
13	358 0.6	23.2 +- 0.7; 3.5	18.6 +- 0.8; 4.5	17.4 +- 1.9
14	323 0.7	21.7 +- 0.6; 3.2	17.1 +- 0.7; 4.3	16.3 +- 1.8
15	151 0.7	20.6 +- 0.6; 3.1	16.1 +- 0.7; 4.2	15.5 +- 1.9
16	219 0.9	23.5 +- 0.7; 3.5	18.9 +- 0.8; 4.5	16.3 +- 1.8
17	245 1.5	22.4 +- 0.7; 3.4	17.9 +- 0.7; 4.4	15.4 +- 1.7
18	254 2.3	21.2 +- 0.6; 3.2	16.7 +- 0.7; 4.2	15.0 +- 1.5
19	323 7.0	22.8 +- 0.7; 3.4	18.2 +- 0.7; 4.4	16.8 +- 2.0
20	309 6.3	24.0 +- 0.7; 3.6	19.4 +- 0.8; 4.6	17.2 +- 2.1
21	279 5.7	22.6 +- 0.7; 3.4	18.0 +- 0.7; 4.4	16.1 +- 1.9
22	244 6.4	23.4 +- 0.7; 3.5	18.8 +- 0.8; 4.5	17.4 +- 1.7
23	217 4.6	22.7 +- 0.7; 3.4	17.3 +- 0.7; 4.4	16.4 +- 1.7
24	350 11.0	21.9 +- 0.7; 3.3	18.3 +- 0.7; 4.3	16.5 +- 1.8
25	318 17.0	21.1 +- 0.6; 3.2	16.6 +- 0.7; 4.2	17.1 +- 1.9
26	311 22.0	Missing Dosimeter	No Net Data	17.4 +- 1.8
27	306 27.0	21.0 +- 0.6; 3.1	16.4 +- 0.7; 4.2	15.7 +- 1.8
28	306 27.0	21.6 +- 0.6; 3.2	17.0 +- 0.7; 4.3	15.7 +- 1.5
29	306 27.0	22.7 +- 0.7; 3.4	18.1 +- 0.7; 4.4	15.9 +- 2.6
30	306 27.0	22.6 +- 0.7; 3.4	18.0 +- 0.7; 4.4	15.3 +- 1.9

Transit Dose = 4.0 +- 0.3; 3.0

RANCHO SECO
For the period 930606-931027

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	17.9 +- 0.9	2
11.26 - 33.75 NNE	No Data +- No Data	0
33.76 - 56.25 NE	16.1 +- 0.0	1
56.26 - 78.75 ENE	17.6 +- 0.0	1
78.76 - 101.25 E	15.8 +- 0.8	2
101.26 - 123.75 ESE	25.1 +- 0.0	1
123.76 - 146.25 SE	16.1 +- 0.0	1
146.26 - 168.75 SSE	17.1 +- 1.4	2
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	18.5 +- 0.5	2
236.26 - 258.75 WSW	18.0 +- 1.0	4
258.76 - 281.25 W	18.0 +- 0.0	1
281.26 - 303.75 WNW	17.9 +- 0.0	1
303.76 - 326.25 NW	17.9 +- 1.0	6
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	17.5 +- 1.1	7
2 - 5	17.4 +- 1.0	2
> 5	18.1 +- 2.2	15
Upwind Control	16.7 +- 0.4	2

NRC TLD DOSES FOR RANCHO SECO AREA

RIVER BEND

TLD Direct Radiation Environmental Monitoring

For the period 930607-931028 144 Days

Field Time: 93 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	348	1.3	21.8 +- 0.7; 3.3	17.5 +- 0.7; 4.3	18.1 +- 2.2
2	42	1.1	23.4 +- 0.7; 3.5	19.1 +- 0.8; 4.5	18.2 +- 2.3
3	61	1.1	24.7 +- 0.7; 3.7	20.3 +- 0.8; 4.6	19.2 +- 2.2
4	90	0.8	23.3 +- 0.7; 3.5	19.0 +- 0.8; 4.5	18.2 +- 2.1
5	107	0.6	23.3 +- 0.7; 3.5	19.0 +- 0.8; 4.5	19.0 +- 1.8
6	136	0.8	25.0 +- 0.8; 3.8	20.6 +- 0.8; 4.6	19.3 +- 2.4
7	166	1.0	21.1 +- 0.6; 3.2	16.9 +- 0.7; 4.2	16.2 +- 1.7
8	182	0.9	22.5 +- 0.7; 3.4	18.2 +- 0.7; 4.4	17.3 +- 2.3
9	195	0.6	22.1 +- 0.7; 3.3	17.8 +- 0.7; 4.3	17.1 +- 2.1
10	225	0.7	23.5 +- 0.7; 3.5	19.2 +- 0.8; 4.5	17.7 +- 2.2
11	254	0.4	23.1 +- 0.7; 3.5	18.8 +- 0.7; 4.4	17.5 +- 2.3
12	276	0.6	22.7 +- 0.7; 3.4	18.4 +- 0.7; 4.4	18.6 +- 1.9
13	295	0.6	24.4 +- 0.7; 3.7	20.1 +- 0.8; 4.6	19.3 +- 2.0
14	320	0.9	24.0 +- 0.7; 3.6	19.7 +- 0.8; 4.5	18.1 +- 2.2
15	332	2.1	24.6 +- 0.7; 3.7	20.2 +- 0.8; 4.6	19.0 +- 2.0
16	312	2.7	23.6 +- 0.7; 3.5	19.3 +- 0.8; 4.5	17.9 +- 2.9
17	302	3.1	Missing Dosimeter	No Net Data	16.2 +- 2.2
18	278	3.8	21.9 +- 0.7; 3.3	17.6 +- 0.7; 4.3	15.4 +- 2.6
19	242	2.8	25.6 +- 0.8; 3.8	21.3 +- 0.8; 4.7	19.7 +- 2.4
20	195	5.4	22.1 +- 0.7; 3.3	17.8 +- 0.7; 4.3	18.0 +- 2.7
21	215	3.0	22.9 +- 0.7; 3.4	18.6 +- 0.7; 4.4	18.5 +- 2.3
22	233	7.1	22.0 +- 0.7; 3.3	17.7 +- 0.7; 4.3	15.2 +- 2.5
23	246	9.7	24.5 +- 0.7; 3.7	20.2 +- 0.8; 4.6	18.0 +- 2.1
24	234	7.3	22.5 +- 0.7; 3.4	18.2 +- 0.7; 4.4	15.9 +- 2.5
25	185	7.6	22.8 +- 0.7; 3.4	18.5 +- 0.7; 4.4	18.4 +- 2.5
26	322	7.7	19.2 +- 0.6; 2.9	15.0 +- 0.6; 4.0	17.6 +- 2.5
27	328	10.0	24.7 +- 0.7; 3.7	20.4 +- 0.8; 4.6	18.9 +- 2.1
28	340	7.2	24.2 +- 0.7; 3.6	19.9 +- 0.8; 4.6	18.5 +- 2.0
29	354	9.5	21.9 +- 0.7; 3.3	17.7 +- 0.7; 4.3	17.5 +- 2.2
30	360	5.1	25.0 +- 0.8; 3.8	20.7 +- 0.8; 4.6	18.9 +- 2.2
31	221	6.9	24.0 +- 0.7; 3.6	19.7 +- 0.8; 4.5	18.8 +- 2.0
32	40	4.9	23.3 +- 0.7; 3.5	19.0 +- 0.8; 4.5	18.0 +- 2.3
33	52	8.7	19.6 +- 0.6; 2.9	15.5 +- 0.7; 4.1	15.6 +- 1.8
34	65	8.4	21.8 +- 0.7; 3.3	17.5 +- 0.7; 4.3	17.3 +- 2.2
35	87	6.6	21.1 +- 0.6; 3.2	16.9 +- 0.7; 4.2	15.9 +- 2.1
36	326	5.8	24.3 +- 0.7; 3.6	20.0 +- 0.8; 4.6	18.4 +- 2.5
37	329	22.0	22.2 +- 0.7; 3.3	17.9 +- 0.7; 4.3	17.8 +- 2.0
38	111	3.8	20.1 +- 0.6; 3.0	15.9 +- 0.7; 4.1	17.2 +- 2.3
39	131	5.6	23.5 +- 0.7; 3.5	19.1 +- 0.8; 4.5	17.7 +- 2.3
40	155	6.2	23.5 +- 0.7; 3.5	19.2 +- 0.8; 4.5	18.5 +- 2.4
41	120	9.0	20.8 +- 0.6; 3.1	16.6 +- 0.7; 4.2	17.5 +- 1.7
42	121	11.0	20.0 +- 0.6; 3.0	15.8 +- 0.7; 4.1	15.6 +- 2.0
43	180	1.1	24.2 +- 0.7; 3.6	19.9 +- 0.8; 4.6	19.7 +- 2.4
44	150	28.0	20.4 +- 0.6; 3.1	16.2 +- 0.7; 4.1	15.2 +- 2.3

Transit Dose = 3.7 +- 0.3; 3.0

RIVER BEND

For the period 930607-931028

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	19.2 +- 2.1	2
11.26 - 33.75 NNE	No Data +- No Data	0
33.76 - 56.25 NE	17.9 +- 2.1	3
56.26 - 78.75 ENE	18.9 +- 2.0	2
78.76 - 101.25 E	17.9 +- 1.5	2
101.26 - 123.75 ESE	16.8 +- 1.5	4
123.76 - 146.25 SE	19.9 +- 1.1	2
146.26 - 168.75 SSE	18.0 +- 1.6	2
168.76 - 191.25 S	18.9 +- 0.9	3
191.26 - 213.75 SSW	17.8 +- 0.0	2
213.76 - 236.25 SW	18.7 +- 0.8	5
236.26 - 258.75 WSW	20.1 +- 1.2	3
258.76 - 281.25 W	18.0 +- 0.5	2
281.26 - 303.75 WNW	20.1 +- 0.0	1
303.76 - 326.25 NW	18.5 +- 2.3	4
326.26 - 348.75 NNW	19.2 +- 1.4	5

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	19.0 +- 1.1	15
2 - 5	18.8 +- 1.7	7
> 5	18.2 +- 1.7	20
Upwind Control	16.2 +- 0.0	1

NRC TLD DOSES FOR RIVER BEND AREA

Miles

Legend

Water

Highways

Railroads

Roads

Plant..site

ROBINSON

TLD Direct Radiation Environmental Monitoring

For the period 930609-931019 133 Days

Field Time: 92 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	191 0.2	17.7 +- 0.5; 2.7	12.7 +- 0.6; 4.0	14.5 +- 1.1
2	151 1.9	28.9 +- 0.9; 4.3	23.6 +- 0.9; 5.2	21.4 +- 2.2
3	134 2.0	22.4 +- 0.7; 3.4	17.3 +- 0.8; 4.4	17.8 +- 1.4
4	119 1.9	19.8 +- 0.6; 3.0	14.7 +- 0.7; 4.2	14.3 +- 1.0
5	89 2.1	Missing Dosimeter	No Net Data	18.0 +- 1.1
6	65 1.0	19.3 +- 0.6; 2.9	14.2 +- 0.7; 4.1	16.2 +- 1.2
7	46 1.8	19.0 +- 0.6; 2.8	14.0 +- 0.7; 4.1	17.1 +- 1.7
8	27 1.9	23.1 +- 0.7; 3.5	18.0 +- 0.8; 4.5	17.0 +- 1.3
9	22 3.5	21.0 +- 0.6; 3.2	16.0 +- 0.7; 4.3	16.5 +- 1.9
10	0 5.0	22.9 +- 0.7; 3.4	17.8 +- 0.8; 4.5	17.9 +- 1.5
11	51 4.8	24.6 +- 0.7; 3.7	19.5 +- 0.8; 4.7	19.3 +- 1.1
12	67 4.1	18.1 +- 0.5; 2.7	13.1 +- 0.6; 4.0	14.6 +- 1.6
13	87 4.5	18.5 +- 0.6; 2.8	13.5 +- 0.7; 4.0	15.3 +- 1.0
14	109 5.0	21.3 +- 0.6; 3.2	16.2 +- 0.7; 4.3	15.8 +- 1.3
15	118 4.8	21.7 +- 0.6; 3.2	16.6 +- 0.7; 4.4	16.3 +- 2.1
16	138 5.3	21.1 +- 0.6; 3.2	16.0 +- 0.7; 4.3	16.8 +- 1.5
17	115 17.1	21.6 +- 0.6; 3.2	16.5 +- 0.7; 4.4	15.1 +- 1.9
18	199 12.6	21.0 +- 0.6; 3.1	15.9 +- 0.7; 4.3	16.4 +- 1.1
19	208 4.8	26.4 +- 0.8; 4.0	21.2 +- 0.9; 4.9	21.6 +- 2.4
20	225 4.0	Missing Dosimeter	No Net Data	19.6 +- 1.3
21	178 4.6	17.6 +- 0.5; 2.6	12.6 +- 0.6; 4.0	12.7 +- 1.3
22	167 3.7	21.3 +- 0.6; 3.2	16.2 +- 0.7; 4.3	16.0 +- 1.1
23	181 2.3	Missing Dosimeter	No Net Data	15.5 +- 1.2
24	194 2.0	24.0 +- 0.7; 3.6	18.9 +- 0.8; 4.6	19.1 +- 1.2
25	228 2.1	22.0 +- 0.7; 3.3	16.9 +- 0.7; 4.4	18.0 +- 1.3
26	245 1.5	17.6 +- 0.5; 2.6	12.6 +- 0.6; 3.9	14.2 +- 1.6
27	273 1.8	17.5 +- 0.5; 2.6	12.5 +- 0.6; 3.9	13.8 +- 1.1
28	287 2.0	18.6 +- 0.6; 2.8	13.6 +- 0.7; 4.1	13.4 +- 1.2
29	311 1.6	Missing Dosimeter	No Net Data	17.3 +- 1.0
30	334 1.9	21.0 +- 0.6; 3.1	15.9 +- 0.7; 4.3	16.3 +- 1.7
31	351 2.1	Missing Dosimeter	No Net Data	15.1 +- 2.1
32	333 4.0	20.9 +- 0.6; 3.1	15.8 +- 0.7; 4.3	16.4 +- 1.2
33	318 4.7	23.3 +- 0.7; 3.5	18.2 +- 0.8; 4.5	17.8 +- 1.3
34	310 6.9	20.3 +- 0.6; 3.1	15.3 +- 0.7; 4.2	15.6 +- 2.1
35	295 4.0	26.1 +- 0.8; 3.9	20.9 +- 0.8; 4.9	20.6 +- 1.5
36	269 4.8	22.3 +- 0.7; 3.3	17.2 +- 0.7; 4.4	18.5 +- 1.8
37	252 4.6	22.9 +- 0.7; 3.4	17.8 +- 0.8; 4.5	17.2 +- 1.5
38	274 10.7	26.1 +- 0.8; 3.9	21.0 +- 0.8; 4.9	18.3 +- 3.2
39	286 15.3	19.8 +- 0.6; 3.0	14.7 +- 0.7; 4.2	15.1 +- 1.2
40	289 16.5	19.6 +- 0.6; 2.9	14.6 +- 0.7; 4.1	14.2 +- 1.1
41	291 17.5	20.3 +- 0.6; 3.1	15.3 +- 0.7; 4.2	15.4 +- 1.4

Transit Dose = 4.7 +- 0.4; 3.1

ROBINSON

For the period 930609-931019

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	17.8 +- 0.0	1
11.26 - 33.75 NNE	17.0 +- 1.4	2
33.76 - 56.25 NE	16.7 +- 3.9	2
56.26 - 78.75 ENE	13.7 +- 0.8	2
78.76 - 101.25 E	13.5 +- 0.0	1
101.26 - 123.75 ESE	16.0 +- 0.9	4
123.76 - 146.25 SE	16.7 +- 0.9	2
146.26 - 168.75 SSE	19.9 +- 5.3	2
168.76 - 191.25 S	12.7 +- 0.1	2
191.26 - 213.75 SSW	18.7 +- 2.6	3
213.76 - 236.25 SW	16.9 +- 0.0	1
236.26 - 258.75 WSW	15.2 +- 3.7	2
258.76 - 281.25 W	16.9 +- 4.3	3
281.26 - 303.75 WNW	17.3 +- 5.1	2
303.76 - 326.25 NW	16.8 +- 2.1	2
326.26 - 348.75 NNW	15.9 +- 0.1	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	15.7 +- 3.3	12
2 - 5	16.8 +- 2.5	16
> 5	17.0 +- 2.3	5
Upwind Control	14.9 +- 0.4	3

NRC TLD DOSES FOR ROBINSON AREA

Miles

0 2 4

Legend

Water

— Highways

Railroads

Roads

Plant..site

SALEM (DE)
 TLD Direct Radiation Environmental Monitoring
 For the period 930608-931026 141 Days
 Field Time: 92 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
17	331 4.2	20.7 +- 0.6; 3.1	16.0 +- 0.7; 4.2	17.3 +- 2.4
18	320 3.8	Missing Dosimeter	No Net Data	14.3 +- 1.3
19	299 3.4	22.1 +- 0.7; 3.3	17.4 +- 0.7; 4.4	16.2 +- 1.6
20	330 9.5	25.0 +- 0.7; 3.7	20.1 +- 0.8; 4.7	19.6 +- 1.6
21	276 3.6	23.0 +- 0.7; 3.5	18.2 +- 0.8; 4.5	18.3 +- 1.7
22	266 4.7	23.0 +- 0.7; 3.4	18.2 +- 0.8; 4.5	17.9 +- 1.2
23	257 4.4	21.3 +- 0.6; 3.2	16.5 +- 0.7; 4.3	17.6 +- 1.5
24	240 4.4	22.5 +- 0.7; 3.4	17.7 +- 0.7; 4.4	18.1 +- 1.4
25	217 4.9	22.5 +- 0.7; 3.4	17.7 +- 0.7; 4.4	18.0 +- 1.7
26	204 3.9	20.7 +- 0.6; 3.1	16.0 +- 0.7; 4.2	16.6 +- 1.4
27	188 4.2	23.0 +- 0.7; 3.5	18.2 +- 0.8; 4.5	19.4 +- 2.6
28	319 18.1	24.4 +- 0.7; 3.7	19.6 +- 0.8; 4.7	19.7 +- 2.0
29	265 6.7	20.5 +- 0.6; 3.1	15.8 +- 0.7; 4.2	14.9 +- 1.3
30	340 12.2	18.4 +- 0.6; 2.8	13.7 +- 0.6; 4.0	14.7 +- 1.9
31	0 18.2	20.7 +- 0.6; 3.1	16.0 +- 0.7; 4.2	17.3 +- 1.4
32	338 8.1	20.4 +- 0.6; 3.1	15.6 +- 0.7; 4.2	15.5 +- 1.5
33	265 9.8	22.5 +- 0.7; 3.4	17.7 +- 0.7; 4.4	17.8 +- 1.4
34	207 11.6	22.1 +- 0.7; 3.3	17.4 +- 0.7; 4.4	17.0 +- 1.6

Transit Dose = 4.4 +- 0.4; 3.0

SALEM (DE)

For the period 930608-931026

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	No Data +- No Data	0
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	18.2 +- 0.0	1
191.26 - 213.75 SSW	16.7 +- 1.0	2
213.76 - 236.25 SW	17.7 +- 0.0	1
236.26 - 258.75 WSW	17.1 +- 0.9	2
258.76 - 281.25 W	17.5 +- 1.2	4
281.26 - 303.75 WNW	17.4 +- 0.0	1
303.76 - 326.25 NW	No Data +- No Data	0
326.26 - 348.75 NNW	17.2 +- 2.5	3

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	No Data +- No Data	0
2 - 5	17.3 +- 0.9	9
> 5	17.3 +- 1.8	5
Upwind Control	16.4 +- 3.0	3

NRC TLD DOSES FOR SALEM – HOPE CREEK AREA

Miles

0 2 4

Legend

Water

Railroads

Plant..site

Highways

Roads

SALEM (NJ)

TLD Direct Radiation Environmental Monitoring

For the period 930608-931026 141 Days

Field Time: 92 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	87 3.3	Damaged Dosimeter	No Net Data	14.3 +- 1.0
2	79 3.4	18.3 +- 0.5; 2.7	15.3 +- 0.6; 3.9	14.2 +- 1.1
3	72 3.6	22.2 +- 0.7; 3.3	19.1 +- 0.7; 4.3	17.0 +- 2.4
4	58 4.2	17.2 +- 0.5; 2.6	14.3 +- 0.6; 3.8	15.6 +- 1.7
5	54 4.9	16.4 +- 0.5; 2.5	13.4 +- 0.6; 3.7	13.6 +- 1.6
6	68 8.6	15.5 +- 0.5; 2.3	12.6 +- 0.5; 3.6	12.3 +- 1.4
7	40 5.7	18.0 +- 0.5; 2.7	15.0 +- 0.6; 3.9	13.9 +- 1.2
8	116 12.0	Missing Dosimeter	No Net Data	13.9 +- 1.3
10	8 5.8	17.6 +- 0.5; 2.6	14.6 +- 0.6; 3.8	14.2 +- 1.6
11	15 8.1	16.6 +- 0.5; 2.5	13.7 +- 0.6; 3.7	13.3 +- 1.2
12	24 8.6	16.7 +- 0.5; 2.5	13.7 +- 0.6; 3.7	13.4 +- 1.2
13	49 8.6	15.7 +- 0.5; 2.4	12.8 +- 0.6; 3.6	12.9 +- 1.4
14	90 6.7	14.3 +- 0.4; 2.1	11.4 +- 0.5; 3.5	12.5 +- 1.2
15	105 6.4	15.2 +- 0.5; 2.3	12.3 +- 0.5; 3.6	12.5 +- 1.6

Transit Dose = 2.7 +- 0.3; 2.9

SALEM (NJ)

For the period 930608-931026

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	14.6 +- 0.0	1
11.26 - 33.75 NNE	13.7 +- 0.0	2
33.76 - 56.25 NE	13.7 +- 1.1	3
56.26 - 78.75 ENE	15.3 +- 3.4	3
78.76 - 101.25 E	13.3 +- 2.7	2
101.26 - 123.75 ESE	12.3 +- 0.0	1
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	No Data +- No Data	0
2 - 5	15.5 +- 2.5	4
> 5	13.3 +- 1.2	8
Upwind Control	No Data +- No Data	0

NRC TLD DOSES FOR SALEM - HOPE CREEK AREA

162

Water
 Highways
 Roads
 Railroads
 Plant site

Legend

Miles
0 2 4

SAN ONOFRE

TLD Direct Radiation Environmental Monitoring

For the period 930609-931021 135 Days

Field Time: 86 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	346 35.0	29.0 +- 0.9; 4.3	23.8 +- 1.0; 5.5	24.4 +- 3.2
2	346 35.0	27.0 +- 0.8; 4.0	21.7 +- 0.9; 5.3	24.1 +- 2.9
3	346 35.0	27.8 +- 0.8; 4.2	22.6 +- 1.0; 5.4	24.3 +- 3.1
4	327 11.0	21.8 +- 0.7; 3.3	16.3 +- 0.8; 4.7	17.7 +- 3.2
5	308 14.0	25.0 +- 0.7; 3.7	19.6 +- 0.9; 5.0	20.5 +- 3.0
6	307 10.0	22.0 +- 0.7; 3.3	16.5 +- 0.8; 4.7	17.9 +- 2.9
7	318 6.3	21.2 +- 0.6; 3.2	15.6 +- 0.8; 4.6	18.8 +- 3.3
8	322 5.1	24.2 +- 0.7; 3.6	18.8 +- 0.9; 5.0	20.3 +- 2.9
9	311 3.3	21.3 +- 0.6; 3.2	15.8 +- 0.8; 4.6	18.3 +- 2.8
10	331 3.3	23.4 +- 0.7; 3.5	18.0 +- 0.8; 4.9	20.8 +- 4.3
11	300 2.6	24.5 +- 0.7; 3.7	19.1 +- 0.9; 5.0	19.8 +- 2.5
12	285 0.5	21.6 +- 0.6; 3.2	16.1 +- 0.8; 4.7	21.2 +- 3.9
13	320 2.4	22.1 +- 0.7; 3.3	16.6 +- 0.8; 4.7	18.8 +- 3.1
14	320 1.7	23.4 +- 0.7; 3.5	17.9 +- 0.8; 4.9	18.8 +- 3.1
15	333 1.2	23.3 +- 0.7; 3.5	17.8 +- 0.8; 4.8	19.3 +- 2.6
16	30 1.9	26.1 +- 0.8; 3.9	20.8 +- 0.9; 5.2	21.5 +- 3.2
17	8 1.3	20.5 +- 0.6; 3.1	14.8 +- 0.8; 4.5	16.6 +- 2.9
18	39 2.0	27.6 +- 0.8; 4.1	22.3 +- 1.0; 5.4	22.8 +- 3.2
19	55 2.9	23.4 +- 0.7; 3.5	17.9 +- 0.8; 4.9	19.3 +- 3.1
20	77 4.1	25.6 +- 0.8; 3.8	20.3 +- 0.9; 5.1	21.2 +- 3.0
21	87 4.7	25.9 +- 0.8; 3.9	20.6 +- 0.9; 5.2	21.1 +- 2.9
22	25 3.4	25.1 +- 0.8; 3.8	19.7 +- 0.9; 5.1	23.0 +- 3.2
23	357 3.5	25.2 +- 0.8; 3.8	19.8 +- 0.9; 5.1	21.6 +- 3.7
24	25 0.4	22.9 +- 0.7; 3.4	17.5 +- 0.8; 4.8	19.1 +- 2.9
25	81 0.4	22.5 +- 0.7; 3.4	17.0 +- 0.8; 4.7	18.3 +- 3.1
26	126 2.1	19.4 +- 0.6; 2.9	13.8 +- 0.7; 4.4	16.4 +- 3.2
27	130 8.6	19.6 +- 0.6; 2.9	13.9 +- 0.7; 4.4	16.7 +- 3.3
28	99 8.9	18.4 +- 0.6; 2.8	12.7 +- 0.7; 4.3	17.0 +- 3.4
29	135 11.0	20.1 +- 0.6; 3.0	14.4 +- 0.8; 4.5	17.2 +- 3.5
30	126 2.0	17.1 +- 0.5; 2.6	11.4 +- 0.7; 4.2	13.5 +- 3.1
31	128 3.7	19.4 +- 0.6; 2.9	13.7 +- 0.7; 4.4	15.1 +- 2.5
32	140 22.0	23.3 +- 0.7; 3.5	17.8 +- 0.8; 4.8	19.6 +- 3.2
33	120 26.0	19.3 +- 0.6; 2.9	13.7 +- 0.7; 4.4	16.1 +- 2.8

Transit Dose = 6.3 +- 0.4; 3.0

SAN ONOFRE

For the period 930609-931021

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	17.3 +- 3.5	2
11.26 - 33.75 NNE	19.3 +- 1.7	3
33.76 - 56.25 NE	20.1 +- 3.1	2
56.26 - 78.75 ENE	20.3 +- 0.0	1
78.76 - 101.25 E	16.7 +- 4.0	3
101.26 - 123.75 ESE	13.7 +- 0.0	1
123.76 - 146.25 SE	14.2 +- 2.1	6
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	17.6 +- 2.1	2
303.76 - 326.25 NW	17.2 +- 1.5	7
326.26 - 348.75 NNW	17.4 +- 0.9	3

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	17.3 +- 3.2	9
2 - 5	17.7 +- 2.5	11
> 5	15.9 +- 2.3	10
Upwind Control	22.7 +- 1.0	3

NRC TLD DOSES FOR SAN ONOFRE AREA

Miles

Legend

Water

Highways

Railroads

Roads

Plant..site

SEABROOK
 TLD Direct Radiation Environmental Monitoring
 For the period 930608-931019 134 Days
 Field Time: 92 Days

NRC Sta	Location Azimuth/Dist (Deg)/(Mi)	Gross Exposure (mR) +-Rdm; Tot.	Net Exposure (mR/Std. Qtr.) +-Rdm; Tot.	Hist. Range Net Exp Rate +-1 Std Dev
1	154	0.6	21.7 +- 0.7; 3.3	17.5 +- 2.6
2	178	0.7	21.5 +- 0.6; 3.2	16.9 +- 2.4
3	207	0.7	21.5 +- 0.6; 3.2	16.2 +- 2.7
4	224	0.9	22.6 +- 0.7; 3.4	17.8 +- 2.8
5	243	1.2	20.1 +- 0.6; 3.0	16.2 +- 2.8
6	294	1.0	21.8 +- 0.7; 3.3	17.1 +- 2.5
7	267	0.7	20.7 +- 0.6; 3.1	16.6 +- 2.5
8	320	1.1	22.6 +- 0.7; 3.4	17.6 +- 2.9
9	329	1.6	24.7 +- 0.7; 3.7	19.1 +- 3.0
10	357	1.9	20.3 +- 0.6; 3.0	16.7 +- 2.6
11	18	2.5	20.9 +- 0.6; 3.1	17.3 +- 2.7
12	46	1.9	21.2 +- 0.6; 3.2	16.3 +- 3.6
13	83	1.7	20.2 +- 0.6; 3.0	17.0 +- 2.6
14	43	4.1	21.8 +- 0.7; 3.3	17.6 +- 2.5
15	358	4.2	22.3 +- 0.7; 3.3	17.7 +- 2.7
16	18	11.8	22.6 +- 0.7; 3.4	17.9 +- 2.6
17	321	7.4	23.5 +- 0.7; 3.5	18.8 +- 3.0
18	291	3.9	22.1 +- 0.7; 3.3	17.7 +- 2.4
19	267	3.7	21.7 +- 0.6; 3.2	17.4 +- 3.6
20	251	4.2	24.0 +- 0.7; 3.6	18.9 +- 2.9
21	228	4.7	19.4 +- 0.6; 2.9	17.0 +- 2.8
22	209	6.2	23.3 +- 0.7; 3.5	19.3 +- 2.7
23	187	6.5	24.2 +- 0.7; 3.6	19.1 +- 2.8
24	163	7.1	19.1 +- 0.6; 2.9	15.6 +- 2.5
25	174	4.0	19.8 +- 0.6; 3.0	16.2 +- 3.0
26	157	4.0	20.2 +- 0.6; 3.0	16.5 +- 2.5
27	136	2.4	19.9 +- 0.6; 3.0	17.2 +- 2.8
28	118	1.6	20.0 +- 0.6; 3.0	16.1 +- 2.4
30	67	2.1	22.3 +- 0.7; 3.3	18.1 +- 2.6
31	335	5.5	23.8 +- 0.7; 3.6	17.8 +- 2.5
32	318	3.2	23.2 +- 0.7; 3.5	18.6 +- 2.9
33	230	19.3	20.0 +- 0.6; 3.0	17.5 +- 3.4
34	230	19.3	20.8 +- 0.6; 3.1	17.9 +- 3.0
35	230	19.3	22.5 +- 0.7; 3.4	19.3 +- 3.7

Transit Dose = 5.5 +- 0.4; 3.1

SEABROOK

For the period 930608-931019

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	15.5 +- 1.4	2
11.26 - 33.75 NNE	15.9 +- 1.2	2
33.76 - 56.25 NE	15.7 +- 0.4	2
56.26 - 78.75 ENE	16.5 +- 0.0	1
78.76 - 101.25 E	14.4 +- 0.0	1
101.26 - 123.75 ESE	14.2 +- 0.0	1
123.76 - 146.25 SE	14.1 +- 0.0	1
146.26 - 168.75 SSE	14.5 +- 1.3	3
168.76 - 191.25 S	16.0 +- 2.2	3
191.26 - 213.75 SSW	16.6 +- 1.2	2
213.76 - 236.25 SW	15.7 +- 1.8	3
236.26 - 258.75 WSW	16.3 +- 2.7	2
258.76 - 281.25 W	15.4 +- 0.7	2
281.26 - 303.75 WNW	16.1 +- 0.2	2
303.76 - 326.25 NW	17.2 +- 0.7	2
326.26 - 348.75 NNW	18.4 +- 0.7	2
Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	15.6 +- 1.3	13
2 - 5	15.5 +- 1.4	11
> 5	16.9 +- 1.7	7
Upwind Control	15.5 +- 1.6	3

NRC TLD DOSES FOR SEABROOK AREA

Miles

Legend

Water
Highways

Railroads
Roads

Plant..site

SEQUOYAH

TLD Direct Radiation Environmental Monitoring

For the period 930609-931021 135 Days

Field Time: 84 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	218 12.0	20.8 +- 0.6; 3.1	17.4 +- 0.8; 4.5	16.8 +- 1.3
2	206 13.0	19.2 +- 0.6; 2.9	15.8 +- 0.7; 4.3	14.3 +- 1.2
3	203 3.9	24.0 +- 0.7; 3.6	20.9 +- 0.9; 4.9	20.0 +- 1.4
4	199 2.0	20.6 +- 0.6; 3.1	17.3 +- 0.8; 4.5	16.5 +- 1.3
5	181 1.4	24.7 +- 0.7; 3.7	21.7 +- 0.9; 5.0	21.0 +- 1.4
6	153 1.5	19.8 +- 0.6; 3.0	16.4 +- 0.7; 4.4	15.4 +- 1.1
7	139 1.9	18.2 +- 0.5; 2.7	14.8 +- 0.7; 4.2	14.6 +- 1.1
8	115 1.8	19.6 +- 0.6; 2.9	16.2 +- 0.7; 4.4	16.0 +- 1.9
9	84 1.6	18.2 +- 0.5; 2.7	14.7 +- 0.7; 4.2	13.7 +- 1.4
10	66 1.3	17.4 +- 0.5; 2.6	13.8 +- 0.7; 4.1	15.7 +- 1.2
11	45 1.5	19.4 +- 0.6; 2.9	15.9 +- 0.7; 4.3	16.6 +- 1.3
12	14 2.0	22.3 +- 0.7; 3.3	19.1 +- 0.8; 4.7	18.6 +- 1.1
13	2 2.1	23.4 +- 0.7; 3.5	20.2 +- 0.8; 4.8	18.7 +- 1.4
14	19 3.9	19.3 +- 0.6; 2.9	15.9 +- 0.7; 4.3	15.9 +- 1.1
15	48 4.0	17.2 +- 0.5; 2.6	13.6 +- 0.7; 4.1	13.7 +- 1.2
16	65 4.9	19.3 +- 0.6; 2.9	15.9 +- 0.7; 4.3	15.7 +- 1.1
17	90 3.9	Missing Dosimeter	No Net Data	17.5 +- 1.5
18	111 3.4	19.1 +- 0.6; 2.9	15.7 +- 0.7; 4.3	16.2 +- 1.5
19	135 3.4	Missing Dosimeter	No Net Data	15.9 +- 1.1
20	158 3.4	16.4 +- 0.5; 2.5	12.8 +- 0.6; 4.0	14.2 +- 2.0
21	184 4.6	19.3 +- 0.6; 2.9	15.9 +- 0.7; 4.3	18.6 +- 2.3
22	233 11.0	18.3 +- 0.5; 2.7	14.8 +- 0.7; 4.2	14.2 +- 1.5
23	219 4.9	21.5 +- 0.6; 3.2	18.3 +- 0.8; 4.6	17.7 +- 1.5
24	241 4.3	19.1 +- 0.6; 2.9	15.7 +- 0.7; 4.3	15.6 +- 1.3
25	235 2.0	17.0 +- 0.5; 2.5	13.4 +- 0.7; 4.1	13.2 +- 1.1
26	248 1.5	17.3 +- 0.5; 2.6	13.8 +- 0.7; 4.1	15.5 +- 2.0
27	266 1.2	18.7 +- 0.6; 2.8	15.3 +- 0.7; 4.3	14.6 +- 1.0
28	291 1.2	19.3 +- 0.6; 2.9	15.9 +- 0.7; 4.3	15.7 +- 1.4
29	309 1.2	19.3 +- 0.6; 2.9	15.8 +- 0.7; 4.3	15.9 +- 1.4
30	330 0.5	21.2 +- 0.6; 3.2	17.9 +- 0.8; 4.5	16.7 +- 1.3
31	339 1.8	19.8 +- 0.6; 3.0	16.4 +- 0.7; 4.4	16.9 +- 1.2
32	355 4.9	18.7 +- 0.6; 2.8	15.2 +- 0.7; 4.3	14.7 +- 1.2
33	334 3.6	19.0 +- 0.6; 2.8	15.5 +- 0.7; 4.3	14.6 +- 1.4
34	317 4.4	18.3 +- 0.6; 2.8	14.9 +- 0.7; 4.2	15.2 +- 1.7
35	277 5.6	19.6 +- 0.6; 2.9	16.3 +- 0.7; 4.4	16.3 +- 1.2
36	283 3.6	17.3 +- 0.5; 2.6	13.7 +- 0.7; 4.1	14.3 +- 1.1
37	273 4.4	18.6 +- 0.6; 2.8	15.2 +- 0.7; 4.2	15.1 +- 1.4
38	302 19.0	18.8 +- 0.6; 2.8	15.3 +- 0.7; 4.3	15.2 +- 1.2
39	290 18.0	19.1 +- 0.6; 2.9	15.6 +- 0.7; 4.3	16.3 +- 1.1
40	289 18.0	17.1 +- 0.5; 2.6	13.5 +- 0.7; 4.1	15.0 +- 1.1
41	318 6.1	19.2 +- 0.6; 2.9	15.8 +- 0.7; 4.3	15.8 +- 1.1

Transit Dose = 4.5 +- 0.3; 2.8

SEQUOYAH

For the period 930609-931021

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	17.7 +- 3.5	2
11.26 - 33.75 NNE	17.5 +- 2.3	2
33.76 - 56.25 NE	14.8 +- 1.7	2
56.26 - 78.75 ENE	14.9 +- 1.5	2
78.76 - 101.25 E	14.7 +- 0.0	1
101.26 - 123.75 ESE	15.9 +- 0.3	2
123.76 - 146.25 SE	14.8 +- 0.0	1
146.26 - 168.75 SSE	14.6 +- 2.5	2
168.76 - 191.25 S	18.8 +- 4.1	2
191.26 - 213.75 SSW	18.0 +- 2.6	3
213.76 - 236.25 SW	16.0 +- 2.3	4
236.26 - 258.75 WSW	14.7 +- 1.4	2
258.76 - 281.25 W	15.6 +- 0.6	3
281.26 - 303.75 WNW	14.8 +- 1.6	2
303.76 - 326.25 NW	15.5 +- 0.6	3
326.26 - 348.75 NNW	16.6 +- 1.2	3

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	16.2 +- 2.1	16
2 - 5	16.0 +- 2.3	15
> 5	16.0 +- 1.0	5
Upwind Control	14.8 +- 1.2	3

NRC TLD DOSES FOR SEQUOYAH AREA

Miles

0 2 4

Legend

Water

Highways

Railroads

Roads

Plant..site

SHOREHAM
 TLD Direct Radiation Environmental Monitoring
 For the period 930608-931026 141 Days
 Field Time: 106 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	262 10.0	17.2 +- 0.5; 2.6	12.7 +- 0.5; 3.5	13.6 +- 1.6
2	268 4.4	Missing Dosimeter	No Net Data	14.6 +- 1.6
3	256 3.2	Missing Dosimeter	No Net Data	13.9 +- 1.6
4	268 2.1	19.3 +- 0.6; 2.9	14.4 +- 0.6; 3.7	15.0 +- 1.1
5	243 1.7	19.2 +- 0.6; 2.9	14.3 +- 0.6; 3.7	14.7 +- 1.2
7	136 1.5	18.1 +- 0.5; 2.7	13.4 +- 0.5; 3.6	15.5 +- 3.1
8	116 0.9	22.4 +- 0.7; 3.4	17.0 +- 0.6; 4.0	17.2 +- 1.4
9	91 0.8	18.9 +- 0.6; 2.8	14.1 +- 0.6; 3.7	13.9 +- 1.5
10	73 0.7	17.2 +- 0.5; 2.6	12.6 +- 0.5; 3.5	13.3 +- 1.2
11	62 0.7	16.6 +- 0.5; 2.5	12.1 +- 0.5; 3.5	12.7 +- 1.5
12	75 1.6	18.7 +- 0.6; 2.8	13.9 +- 0.6; 3.7	13.8 +- 1.4
13	88 2.1	20.0 +- 0.6; 3.0	15.0 +- 0.6; 3.8	14.5 +- 1.5
14	119 4.6	17.9 +- 0.5; 2.7	13.2 +- 0.5; 3.6	13.4 +- 1.5
15	110 10.0	17.8 +- 0.5; 2.7	13.1 +- 0.5; 3.6	14.5 +- 1.7
16	138 14.0	16.8 +- 0.5; 2.5	12.3 +- 0.5; 3.5	13.6 +- 1.6
17	162 12.0	17.2 +- 0.5; 2.6	12.6 +- 0.5; 3.5	13.9 +- 2.4
18	174 11.0	18.9 +- 0.6; 2.8	14.1 +- 0.6; 3.7	13.9 +- 1.8
19	189 5.1	19.2 +- 0.6; 2.9	14.3 +- 0.6; 3.7	13.7 +- 1.4
21	163 2.5	19.5 +- 0.6; 2.9	14.5 +- 0.6; 3.7	13.6 +- 1.7
22	149 1.5	19.0 +- 0.6; 2.9	14.2 +- 0.6; 3.7	15.0 +- 1.6
23	177 1.3	18.4 +- 0.6; 2.8	13.7 +- 0.5; 3.6	14.5 +- 1.4
24	196 1.2	18.3 +- 0.5; 2.7	13.6 +- 0.5; 3.6	13.7 +- 1.3
25	217 1.5	Missing Dosimeter	No Net Data	13.1 +- 1.6
26	215 4.6	16.8 +- 0.5; 2.5	12.3 +- 0.5; 3.5	12.4 +- 1.6
27	205 4.2	18.7 +- 0.6; 2.8	13.9 +- 0.6; 3.7	13.9 +- 1.5
28	233 11.0	18.3 +- 0.5; 2.7	13.5 +- 0.5; 3.6	13.4 +- 1.3
29	224 13.0	17.5 +- 0.5; 2.6	12.9 +- 0.5; 3.6	13.0 +- 1.3
30	202 14.0	17.4 +- 0.5; 2.6	12.8 +- 0.5; 3.5	13.9 +- 1.3
31	210 15.0	16.8 +- 0.5; 2.5	12.3 +- 0.5; 3.5	13.1 +- 1.2
32	210 15.0	16.6 +- 0.5; 2.5	12.1 +- 0.5; 3.5	13.7 +- 1.7
33	210 15.0	16.8 +- 0.5; 2.5	12.3 +- 0.5; 3.5	12.9 +- 1.5
34	27 0.2	15.0 +- 0.5; 2.3	10.8 +- 0.5; 3.4	13.0 +- 2.4
35	50 0.3	18.1 +- 0.5; 2.7	13.4 +- 0.5; 3.6	15.3 +- 1.6
36	133 3.9	20.5 +- 0.6; 3.1	15.4 +- 0.6; 3.8	14.6 +- 1.6

Transit Dose = 2.3 +- 0.3; 3.3

SHOREHAM

For the period 930608-931026

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	No Data +- No Data	0
11.26 - 33.75 NNE	10.8 +- 0.0	1
33.76 - 56.25 NE	13.4 +- 0.0	1
56.26 - 78.75 ENE	12.9 +- 1.0	3
78.76 - 101.25 E	14.5 +- 0.6	2
101.26 - 123.75 ESE	14.5 +- 2.2	3
123.76 - 146.25 SE	13.7 +- 1.6	3
146.26 - 168.75 SSE	13.8 +- 1.0	3
168.76 - 191.25 S	14.0 +- 0.3	3
191.26 - 213.75 SSW	13.4 +- 0.6	3
213.76 - 236.25 SW	12.9 +- 0.6	3
236.26 - 258.75 WSW	14.3 +- 0.0	1
258.76 - 281.25 W	13.5 +- 1.2	2
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	13.6 +- 1.5	12
2 - 5	14.1 +- 1.1	7
> 5	13.1 +- 0.7	9
Upwind Control	12.2 +- 0.1	3

NRC TLD DOSES FOR SHOREHAM AREA

Miles

Legend

Water
Highways

Railroads
Roads

Plant..site

SOUTH TEXAS

TLD Direct Radiation Environmental Monitoring

For the period 930607-931026 142 Days

Field Time: 91 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	90 1.0	20.3 +- 0.6; 3.1	15.2 +- 0.7; 4.3	16.6 +- 2.8
2	63 1.0	20.3 +- 0.6; 3.0	15.1 +- 0.7; 4.3	17.8 +- 2.3
3	40 1.0	20.8 +- 0.6; 3.1	15.6 +- 0.7; 4.3	18.3 +- 2.3
4	19 1.0	20.0 +- 0.6; 3.0	14.8 +- 0.7; 4.2	17.1 +- 2.3
5	4 0.9	20.8 +- 0.6; 3.1	15.7 +- 0.7; 4.3	17.0 +- 2.1
6	339 0.9	20.2 +- 0.6; 3.0	15.0 +- 0.7; 4.3	17.3 +- 2.3
7	318 1.0	20.6 +- 0.6; 3.1	15.4 +- 0.7; 4.3	16.7 +- 2.2
8	294 1.1	22.4 +- 0.7; 3.4	17.3 +- 0.8; 4.5	19.7 +- 2.5
9	267 1.3	22.8 +- 0.7; 3.4	17.6 +- 0.8; 4.5	19.7 +- 2.2
10	126 0.3	19.2 +- 0.6; 2.9	14.1 +- 0.7; 4.2	15.7 +- 2.3
11	180 0.1	19.7 +- 0.6; 3.0	14.5 +- 0.7; 4.2	16.2 +- 2.8
12	257 0.5	18.6 +- 0.6; 2.8	13.5 +- 0.7; 4.1	15.3 +- 2.5
13	262 0.9	18.4 +- 0.6; 2.8	13.3 +- 0.7; 4.1	15.5 +- 2.4
14	250 1.3	18.8 +- 0.6; 2.8	13.6 +- 0.7; 4.1	15.9 +- 2.3
15	227 2.4	18.4 +- 0.6; 2.8	13.3 +- 0.7; 4.1	14.7 +- 2.4
16	210 3.7	17.3 +- 0.5; 2.6	12.1 +- 0.6; 4.0	14.3 +- 2.5
17	175 3.6	17.6 +- 0.5; 2.6	12.5 +- 0.6; 4.0	14.6 +- 2.3
18	158 3.7	17.7 +- 0.5; 2.7	12.6 +- 0.6; 4.0	14.7 +- 2.3
19	143 3.3	17.6 +- 0.5; 2.6	12.5 +- 0.6; 4.0	14.5 +- 2.7
20	122 2.3	19.9 +- 0.6; 3.0	14.7 +- 0.7; 4.2	15.7 +- 2.6
21	121 1.1	20.3 +- 0.6; 3.1	15.2 +- 0.7; 4.3	15.2 +- 2.3
22	257 2.5	21.7 +- 0.6; 3.2	16.5 +- 0.7; 4.4	16.5 +- 2.1
23	262 4.5	23.2 +- 0.7; 3.5	18.0 +- 0.8; 4.6	19.0 +- 2.4
24	282 4.7	22.3 +- 0.7; 3.3	17.1 +- 0.8; 4.5	17.1 +- 2.7
25	304 5.8	19.1 +- 0.6; 2.9	13.9 +- 0.7; 4.1	15.8 +- 2.6
26	242 5.4	20.9 +- 0.6; 3.1	15.8 +- 0.7; 4.3	16.8 +- 2.4
27	223 5.0	20.1 +- 0.6; 3.0	14.9 +- 0.7; 4.2	16.8 +- 2.6
28	236 9.6	19.0 +- 0.6; 2.9	13.9 +- 0.7; 4.1	14.8 +- 2.5
29	259 10.0	19.5 +- 0.6; 2.9	14.3 +- 0.7; 4.2	16.1 +- 2.4
30	291 6.2	20.5 +- 0.6; 3.1	15.3 +- 0.7; 4.3	17.4 +- 2.6
31	323 7.8	20.9 +- 0.6; 3.1	15.7 +- 0.7; 4.3	18.4 +- 5.4
32	335 7.4	24.4 +- 0.7; 3.7	19.2 +- 0.8; 4.7	21.4 +- 2.4
33	351 5.5	19.4 +- 0.6; 2.9	14.3 +- 0.7; 4.2	15.1 +- 2.4
34	88 4.4	19.1 +- 0.6; 2.9	14.0 +- 0.7; 4.1	15.8 +- 2.7
35	89 6.7	18.4 +- 0.6; 2.8	13.3 +- 0.7; 4.1	15.0 +- 2.5
36	121 3.9	Missing Dosimeter	No Net Data	16.5 +- 2.8
37	145 8.8	17.9 +- 0.5; 2.7	12.7 +- 0.6; 4.0	15.0 +- 2.2
38	297 12.0	18.8 +- 0.6; 2.8	13.7 +- 0.7; 4.1	15.3 +- 2.5
39	321 9.3	21.5 +- 0.6; 3.2	16.4 +- 0.7; 4.4	17.9 +- 2.3
40	353 12.0	19.6 +- 0.6; 2.9	14.5 +- 0.7; 4.2	14.7 +- 2.3
41	13 18.0	19.7 +- 0.6; 3.0	14.6 +- 0.7; 4.2	16.3 +- 2.4
42	21 5.7	19.7 +- 0.6; 3.0	14.5 +- 0.7; 4.2	17.0 +- 2.6
43	39 5.8	20.9 +- 0.6; 3.1	15.7 +- 0.7; 4.3	17.3 +- 2.2
44	53 5.1	19.6 +- 0.6; 2.9	14.4 +- 0.7; 4.2	19.0 +- 2.7
45	69 7.3	18.4 +- 0.6; 2.8	13.2 +- 0.7; 4.1	15.4 +- 2.5
46	66 17.0	24.3 +- 0.7; 3.6	19.1 +- 0.8; 4.7	19.5 +- 2.3

Transit Dose = 5.0 +- 0.4; 3.1

SOUTH TEXAS

For the period 930607-931026

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	15.0 +- 1.0	2
11.26 - 33.75 NNE	14.7 +- 0.2	2
33.76 - 56.25 NE	15.2 +- 0.7	3
56.26 - 78.75 ENE	15.8 +- 3.0	3
78.76 - 101.25 E	14.1 +- 1.0	3
101.26 - 123.75 ESE	15.0 +- 0.3	2
123.76 - 146.25 SE	13.1 +- 0.8	3
146.26 - 168.75 SSE	12.6 +- 0.0	1
168.76 - 191.25 S	13.5 +- 1.4	2
191.26 - 213.75 SSW	12.1 +- 0.0	1
213.76 - 236.25 SW	14.0 +- 0.8	3
236.26 - 258.75 WSW	14.8 +- 1.5	4
258.76 - 281.25 W	15.8 +- 2.4	4
281.26 - 303.75 WNW	16.6 +- 1.1	3
303.76 - 326.25 NW	15.4 +- 1.0	4
326.26 - 348.75 NNW	17.1 +- 2.9	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	15.1 +- 1.2	15
2 - 5	14.4 +- 2.1	11
> 5	15.1 +- 1.9	16
Upwind Control	14.2 +- 0.5	3

NRC TLD DOSES FOR SOUTH TEXAS AREA

Miles

0 2 4

Legend

Water

Railroads

Plant..site

Highways

Roads

ST. LUCIE

TLD Direct Radiation Environmental Monitoring

For the period 930609-931021 135 Days

Field Time: 99 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	20	0.3	15.4	+- 0.5; 2.3	13.4	+- 0.5; 3.4	+- 3.6
2	45	0.2	16.1	+- 0.5; 2.4	14.1	+- 0.5; 3.5	15.4 +- 3.7
3	67	0.2	19.3	+- 0.6; 2.9	17.0	+- 0.6; 3.7	16.4 +- 4.4
4	92	0.3	14.4	+- 0.4; 2.2	12.6	+- 0.5; 3.3	13.9 +- 3.7
5	115	0.4	14.2	+- 0.4; 2.1	12.4	+- 0.5; 3.3	13.5 +- 3.6
6	143	1.1	13.4	+- 0.4; 2.0	11.6	+- 0.4; 3.2	12.4 +- 3.5
7	150	2.0	14.4	+- 0.4; 2.2	12.6	+- 0.5; 3.3	12.0 +- 3.5
8	154	4.7	13.0	+- 0.4; 1.9	11.3	+- 0.4; 3.2	13.1 +- 3.8
9	152	23.0	15.0	+- 0.5; 2.3	13.1	+- 0.5; 3.4	13.4 +- 3.8
10	152	23.0	15.0	+- 0.4; 2.2	13.1	+- 0.5; 3.4	13.9 +- 5.0
11	152	23.0	15.4	+- 0.5; 2.3	13.5	+- 0.5; 3.4	15.1 +- 4.8
12	168	14.0	14.5	+- 0.4; 2.2	12.7	+- 0.5; 3.3	13.3 +- 3.5
13	185	10.0	13.5	+- 0.4; 2.0	11.7	+- 0.4; 3.2	13.7 +- 3.5
14	183	11.0	15.4	+- 0.5; 2.3	13.5	+- 0.5; 3.4	15.9 +- 3.6
15	170	8.0	14.6	+- 0.4; 2.2	12.8	+- 0.5; 3.3	13.2 +- 3.7
16	196	7.0	14.0	+- 0.4; 2.1	12.2	+- 0.5; 3.3	13.6 +- 3.7
17	229	7.9	18.9	+- 0.6; 2.8	16.7	+- 0.6; 3.7	15.6 +- 4.5
18	250	6.6	13.2	+- 0.4; 2.0	11.5	+- 0.4; 3.2	12.7 +- 3.6
19	247	4.8	Missing Dosimeter		No Net Data		13.2 +- 3.7
20	229	5.0	14.0	+- 0.4; 2.1	12.2	+- 0.5; 3.3	13.6 +- 3.5
21	208	3.8	14.1	+- 0.4; 2.1	12.3	+- 0.5; 3.3	13.0 +- 4.0
22	187	3.8	13.7	+- 0.4; 2.0	11.9	+- 0.4; 3.3	13.3 +- 3.7
23	203	2.6	14.0	+- 0.4; 2.1	12.2	+- 0.4; 3.3	13.4 +- 3.5
24	245	1.9	14.7	+- 0.4; 2.2	12.8	+- 0.5; 3.3	13.1 +- 3.7
25	280	2.2	14.5	+- 0.4; 2.2	12.7	+- 0.5; 3.3	13.8 +- 3.7
26	299	3.1	15.0	+- 0.4; 2.2	13.1	+- 0.5; 3.4	13.8 +- 3.6
27	305	3.8	14.8	+- 0.4; 2.2	13.0	+- 0.5; 3.3	13.4 +- 3.6
28	276	4.0	13.9	+- 0.4; 2.1	12.1	+- 0.4; 3.3	13.0 +- 3.5
29	293	5.8	14.3	+- 0.4; 2.1	12.4	+- 0.5; 3.3	13.2 +- 3.6
30	316	7.7	13.7	+- 0.4; 2.0	11.9	+- 0.4; 3.3	13.3 +- 3.8
32	300	11.0	15.0	+- 0.4; 2.2	13.1	+- 0.5; 3.4	14.1 +- 3.6
33	322	8.7	16.0	+- 0.5; 2.4	14.0	+- 0.5; 3.4	14.6 +- 3.6
34	339	8.8	Missing Dosimeter		No Net Data		14.0 +- 3.7
35	342	2.9	13.5	+- 0.4; 2.0	11.7	+- 0.4; 3.2	12.9 +- 3.6
36	346	1.9	15.1	+- 0.5; 2.3	13.2	+- 0.5; 3.4	14.1 +- 3.6
37	353	1.0	13.5	+- 0.4; 2.0	11.8	+- 0.4; 3.2	13.4 +- 4.0
38	226	2.0	14.5	+- 0.4; 2.2	12.6	+- 0.5; 3.3	13.5 +- 3.6

Transit Dose = 0.6 +- 0.3; 2.9

ST. LUCIE

For the period 930609-931021

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	11.8 +- 0.0	1
11.26 - 33.75 NNE	13.4 +- 0.0	1
33.76 - 56.25 NE	14.1 +- 0.0	1
56.26 - 78.75 ENE	17.0 +- 0.0	1
78.76 - 101.25 E	12.6 +- 0.0	1
101.26 - 123.75 ESE	12.4 +- 0.0	1
123.76 - 146.25 SE	11.6 +- 0.0	1
146.26 - 168.75 SSE	12.2 +- 0.8	3
168.76 - 191.25 S	12.5 +- 0.8	4
191.26 - 213.75 SSW	12.2 +- 0.1	3
213.76 - 236.25 SW	13.8 +- 2.5	3
236.26 - 258.75 WSW	12.1 +- 1.0	2
258.76 - 281.25 W	12.4 +- 0.4	2
281.26 - 303.75 WNW	12.9 +- 0.4	3
303.76 - 326.25 NW	12.9 +- 1.1	3
326.26 - 348.75 NNW	12.5 +- 1.0	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	13.1 +- 1.5	11
2 - 5	12.2 +- 0.6	10
> 5	12.9 +- 1.5	11
Upwind Control	13.2 +- 0.2	3

NRC TLD DOSES FOR ST. LUCIE AREA

SUMMER

TLD Direct Radiation Environmental Monitoring

For the period 930609-931019 133 Days

Field Time: 92 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	199 3.7	25.4 +- 0.8; 3.8	20.2 +- 0.8; 4.8	21.7 +- 2.9
2	111 1.0	26.4 +- 0.8; 4.0	21.2 +- 0.9; 4.9	19.9 +- 2.7
3	340 4.1	27.8 +- 0.8; 4.2	22.5 +- 0.9; 5.1	23.1 +- 3.2
4	192 9.3	27.2 +- 0.8; 4.1	22.0 +- 0.9; 5.0	21.2 +- 1.7
5	72 1.8	28.8 +- 0.9; 4.3	23.5 +- 0.9; 5.2	22.7 +- 2.7
6	54 1.5	27.6 +- 0.8; 4.1	22.3 +- 0.9; 5.0	22.1 +- 1.9
7	46 3.0	Missing Dosimeter	No Net Data	27.1 +- 2.8
8	31 3.0	35.7 +- 1.1; 5.4	30.3 +- 1.1; 6.0	28.2 +- 3.0
9	13 3.9	31.0 +- 0.9; 4.6	25.7 +- 1.0; 5.4	27.3 +- 2.2
10	7 4.0	31.3 +- 0.9; 4.7	26.0 +- 1.0; 5.5	26.1 +- 1.8
11	349 4.3	28.7 +- 0.9; 4.3	23.4 +- 0.9; 5.2	22.4 +- 3.2
12	323 5.0	30.0 +- 0.9; 4.5	24.6 +- 1.0; 5.3	24.4 +- 2.3
13	333 3.0	27.9 +- 0.8; 4.2	22.6 +- 0.9; 5.1	24.8 +- 1.9
14	255 2.8	25.9 +- 0.8; 3.9	20.7 +- 0.8; 4.8	19.2 +- 3.5
15	308 5.6	30.6 +- 0.9; 4.6	25.3 +- 1.0; 5.4	26.0 +- 2.1
16	64 3.5	35.1 +- 1.1; 5.3	29.7 +- 1.1; 6.0	26.6 +- 3.1
17	98 3.1	28.3 +- 0.8; 4.2	23.0 +- 0.9; 5.1	23.3 +- 2.0
18	114 3.5	26.9 +- 0.8; 4.0	21.7 +- 0.9; 5.0	23.0 +- 1.9
19	132 2.0	27.0 +- 0.8; 4.1	21.8 +- 0.9; 5.0	20.9 +- 2.1
20	152 4.5	20.7 +- 0.6; 3.1	15.6 +- 0.7; 4.3	14.3 +- 2.9
21	133 4.1	21.1 +- 0.6; 3.2	15.9 +- 0.7; 4.3	16.0 +- 1.8
22	157 2.4	23.4 +- 0.7; 3.5	18.2 +- 0.8; 4.6	17.9 +- 2.2
23	173 2.4	23.8 +- 0.7; 3.6	18.6 +- 0.8; 4.6	20.2 +- 2.2
24	185 3.9	22.4 +- 0.7; 3.4	17.3 +- 0.8; 4.4	19.4 +- 2.2
25	210 3.3	23.8 +- 0.7; 3.6	18.7 +- 0.8; 4.6	19.3 +- 1.8
26	217 3.3	21.6 +- 0.6; 3.2	16.5 +- 0.7; 4.4	17.6 +- 2.1
27	231 3.1	19.8 +- 0.6; 3.0	14.7 +- 0.7; 4.2	15.3 +- 2.3
28	267 2.7	27.8 +- 0.8; 4.2	22.6 +- 0.9; 5.1	22.3 +- 2.1
29	276 3.4	29.3 +- 0.9; 4.4	24.0 +- 0.9; 5.2	23.7 +- 1.9
30	293 3.8	31.4 +- 0.9; 4.7	26.1 +- 1.0; 5.5	25.2 +- 4.3
31	244 3.6	29.2 +- 0.9; 4.4	23.9 +- 0.9; 5.2	20.7 +- 3.6
32	247 6.2	30.5 +- 0.9; 4.6	25.2 +- 1.0; 5.4	23.4 +- 2.2
33	218 9.0	25.8 +- 0.8; 3.9	20.5 +- 0.8; 4.8	20.4 +- 2.0
34	192 9.3	25.5 +- 0.8; 3.8	20.3 +- 0.8; 4.8	20.5 +- 1.9
35	184 14.1	21.8 +- 0.7; 3.3	16.6 +- 0.7; 4.4	16.3 +- 1.9
36	183 14.6	19.0 +- 0.6; 2.9	14.0 +- 0.7; 4.1	15.1 +- 2.9
37	182 14.8	18.9 +- 0.6; 2.8	13.8 +- 0.7; 4.1	14.2 +- 3.1
38	148 20.8	27.4 +- 0.8; 4.1	22.1 +- 0.9; 5.0	21.3 +- 2.7
39	140 25.0	30.0 +- 0.9; 4.5	24.7 +- 1.0; 5.3	22.7 +- 2.4
40	135 23.1	26.6 +- 0.8; 4.0	21.4 +- 0.9; 4.9	20.1 +- 3.5

Transit Dose = 4.8 +- 0.4; 3.1

SUMMER

For the period 930609-931019

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	24.7 +- 1.8	2
11.26 - 33.75 NNE	28.0 +- 3.3	2
33.76 - 56.25 NE	22.3 +- 0.0	1
56.26 - 78.75 ENE	26.6 +- 4.4	2
78.76 - 101.25 E	23.0 +- 0.0	1
101.26 - 123.75 ESE	21.4 +- 0.3	2
123.76 - 146.25 SE	20.9 +- 3.7	4
146.26 - 168.75 SSE	18.7 +- 3.3	3
168.76 - 191.25 S	17.9 +- 1.0	2
191.26 - 213.75 SSW	20.3 +- 1.3	4
213.76 - 236.25 SW	17.2 +- 3.0	3
236.26 - 258.75 WSW	23.2 +- 2.3	3
258.76 - 281.25 W	23.3 +- 1.0	2
281.26 - 303.75 WNW	26.1 +- 0.0	1
303.76 - 326.25 NW	25.0 +- 0.5	2
326.26 - 348.75 NNW	22.6 +- 0.1	2
Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	22.2 +- 1.0	4
2 - 5	21.8 +- 4.3	24
> 5	22.7 +- 2.1	8
Upwind Control	14.8 +- 1.6	3

NRC TLD DOSES FOR SUMMER AREA

Miles

0 2 4

Legend

Water

Highways

Railroads

Roads

Plant site

SURRY
 TLD Direct Radiation Environmental Monitoring
 For the period 930607-931026 142 Days
 Field Time: 89 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	18 19.0	20.4 +- 0.6; 3.1	15.6 +- 0.7; 4.3	15.7 +- 1.2
2	129 17.0	21.3 +- 0.6; 3.2	16.5 +- 0.7; 4.4	17.2 +- 1.3
3	162 17.0	20.9 +- 0.6; 3.1	16.1 +- 0.7; 4.4	16.0 +- 1.4
4	162 17.0	18.2 +- 0.5; 2.7	13.3 +- 0.7; 4.1	13.2 +- 1.6
5	156 5.1	23.0 +- 0.7; 3.4	18.2 +- 0.8; 4.6	17.8 +- 1.4
6	189 4.1	19.7 +- 0.6; 2.9	14.9 +- 0.7; 4.3	14.7 +- 1.6
7	202 2.2	20.2 +- 0.6; 3.0	15.4 +- 0.7; 4.3	14.7 +- 1.5
8	183 1.6	22.5 +- 0.7; 3.4	17.7 +- 0.8; 4.6	17.3 +- 1.3
9	243 0.2	25.5 +- 0.8; 3.8	20.7 +- 0.9; 4.9	20.3 +- 1.5
10	269 0.1	26.3 +- 0.8; 3.9	21.5 +- 0.9; 5.0	23.2 +- 2.6
11	304 0.1	24.5 +- 0.7; 3.7	19.8 +- 0.8; 4.8	23.8 +- 3.6
12	334 0.2	26.5 +- 0.8; 4.0	21.8 +- 0.9; 5.0	23.5 +- 2.5
13	10 1.2	20.6 +- 0.6; 3.1	15.8 +- 0.7; 4.4	16.3 +- 1.5
14	21 2.0	20.9 +- 0.6; 3.1	16.1 +- 0.7; 4.4	16.8 +- 1.5
15	203 4.5	19.6 +- 0.6; 3.0	15.0 +- 0.7; 4.3	15.2 +- 1.5
16	224 3.7	19.6 +- 0.6; 2.9	14.8 +- 0.7; 4.2	14.0 +- 1.3
17	212 2.0	23.0 +- 0.7; 3.4	18.2 +- 0.8; 4.6	17.2 +- 1.5
18	248 5.1	19.8 +- 0.6; 3.0	15.0 +- 0.7; 4.3	14.7 +- 1.5
19	259 8.1	21.0 +- 0.6; 3.1	16.2 +- 0.7; 4.4	15.3 +- 2.3
20	285 5.0	14.4 +- 0.4; 2.2	9.5 +- 0.6; 3.7	10.8 +- 1.6
21	270 4.1	23.1 +- 0.7; 3.5	18.4 +- 0.8; 4.6	18.7 +- 1.6
22	123 12.0	23.4 +- 0.7; 3.5	18.7 +- 0.8; 4.7	20.7 +- 2.7
23	102 11.0	23.9 +- 0.7; 3.6	19.1 +- 0.8; 4.7	22.9 +- 2.1
24	106 4.9	22.3 +- 0.7; 3.3	17.5 +- 0.8; 4.5	17.8 +- 1.5
25	90 5.2	21.6 +- 0.6; 3.2	16.8 +- 0.8; 4.5	17.0 +- 1.5
26	69 5.1	25.3 +- 0.8; 3.4	20.5 +- 0.9; 4.9	21.3 +- 1.6
27	23 5.3	22.4 +- 0.7; 3.4	17.6 +- 0.8; 4.6	18.4 +- 1.6
28	49 5.0	23.2 +- 0.7; 3.5	18.4 +- 0.8; 4.6	18.7 +- 1.6
29	7 6.8	22.8 +- 0.7; 3.4	18.1 +- 0.8; 4.6	18.0 +- 1.5
30	359 6.5	Missing Dosimeter	No Net Data	15.7 +- 1.5
31	1 4.6	18.1 +- 0.5; 2.7	13.3 +- 0.7; 4.1	13.3 +- 2.6
32	332 3.8	20.9 +- 0.6; 3.1	16.1 +- 0.7; 4.4	16.5 +- 1.8
33	314 5.4	21.9 +- 0.7; 3.3	17.1 +- 0.8; 4.5	17.6 +- 1.3
34	308 6.4	21.2 +- 0.6; 3.2	16.4 +- 0.7; 4.4	16.4 +- 1.6
35	348 5.3	20.1 +- 0.6; 3.0	15.3 +- 0.7; 4.3	15.5 +- 1.4
36	43 15.0	20.3 +- 0.6; 3.0	15.5 +- 0.7; 4.3	16.2 +- 1.5
37	340 15.0	19.0 +- 0.6; 2.9	14.2 +- 0.7; 4.2	14.4 +- 1.4
38	39 16.0	22.4 +- 0.7; 3.4	17.7 +- 0.8; 4.6	15.9 +- 2.4
39	153 1.9	Missing Dosimeter	No Net Data	18.6 +- 1.6
40	144 2.1	Missing Dosimeter	No Net Data	16.0 +- 1.7

Transit Dose = 5.0 +- 0.4; 3.0

SURRY

For the period 930607-931026

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	15.7 +- 2.4	3
11.26 - 33.75 NNE	16.5 +- 1.0	3
33.76 - 56.25 NE	18.4 +- 0.0	1
56.26 - 78.75 ENE	20.5 +- 0.0	1
78.76 - 101.25 E	16.8 +- 0.0	1
101.26 - 123.75 ESE	18.4 +- 0.8	3
123.76 - 146.25 SE	16.5 +- 0.0	1
146.26 - 168.75 SSE	15.9 +- 2.4	3
168.76 - 191.25 S	16.3 +- 2.0	2
191.26 - 213.75 SSW	16.2 +- 1.7	3
213.76 - 236.25 SW	14.8 +- 0.0	1
236.26 - 258.75 WSW	17.9 +- 4.1	2
258.76 - 281.25 W	18.7 +- 2.7	3
281.26 - 303.75 WNW	9.5 +- 0.0	1
303.76 - 326.25 NW	17.7 +- 1.8	3
326.26 - 348.75 NNW	17.7 +- 3.6	3

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	19.0 +- 2.3	8
2 - 5	15.3 +- 2.6	10
> 5	16.9 +- 1.8	16
Upwind Control	15.8 +- 1.7	3

NRC TLD DOSES FOR SURRY AREA

Miles

Legend

Water
Highways

Railroads
Roads

Plant..site

SUSQUEHANNA

TLD Direct Radiation Environmental Monitoring

For the period 930606-931019 136 Days

Field Time: 92 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	19 1.4	23.2 +- 0.7; 3.5	19.5 +- 0.8; 4.5	18.8 +- 2.4
2	358 1.4	24.6 +- 0.7; 3.7	20.9 +- 0.8; 4.6	19.0 +- 1.9
3	332 1.6	22.3 +- 0.7; 3.3	18.6 +- 0.7; 4.4	17.7 +- 1.7
4	315 1.8	23.3 +- 0.7; 3.5	19.6 +- 0.8; 4.5	17.4 +- 1.9
5	287 1.7	23.1 +- 0.7; 3.5	19.4 +- 0.8; 4.4	19.0 +- 1.9
6	270 1.3	23.6 +- 0.7; 3.5	19.8 +- 0.8; 4.5	18.8 +- 1.7
7	239 1.8	23.8 +- 0.7; 3.6	20.0 +- 0.8; 4.5	17.8 +- 1.7
8	217 2.0	26.8 +- 0.8; 4.0	23.0 +- 0.8; 4.9	21.2 +- 2.0
9	201 1.5	24.1 +- 0.7; 3.6	20.3 +- 0.8; 4.6	18.9 +- 1.8
10	185 1.3	22.9 +- 0.7; 3.4	19.1 +- 0.7; 4.4	17.3 +- 1.4
11	243 5.1	24.7 +- 0.7; 3.7	20.9 +- 0.8; 4.6	18.9 +- 1.9
12	252 4.6	23.6 +- 0.7; 3.5	19.8 +- 0.8; 4.5	18.2 +- 1.6
13	274 3.4	27.1 +- 0.8; 4.1	23.3 +- 0.9; 4.9	21.0 +- 1.7
14	286 3.6	24.8 +- 0.7; 3.7	21.0 +- 0.8; 4.6	19.5 +- 1.8
15	1 3.9	26.0 +- 0.8; 3.9	22.2 +- 0.8; 4.8	20.0 +- 1.8
16	334 4.1	25.1 +- 0.8; 3.8	21.3 +- 0.8; 4.7	19.5 +- 2.0
17	312 4.4	23.9 +- 0.7; 3.6	20.1 +- 0.8; 4.5	18.5 +- 1.9
18	33 5.0	23.9 +- 0.7; 3.6	20.2 +- 0.8; 4.5	19.4 +- 1.6
19	45 9.9	24.3 +- 0.7; 3.6	20.5 +- 0.8; 4.6	19.6 +- 1.6
20	65 4.7	26.0 +- 0.8; 3.9	22.2 +- 0.8; 4.8	20.8 +- 1.8
21	43 3.3	28.8 +- 0.9; 4.3	24.9 +- 0.9; 5.1	21.4 +- 1.7
22	33 0.9	25.1 +- 0.8; 3.8	21.3 +- 0.8; 4.7	18.2 +- 2.4
23	57 1.2	23.2 +- 0.7; 3.5	19.5 +- 0.8; 4.5	17.5 +- 1.5
24	87 1.4	23.4 +- 0.7; 3.5	19.7 +- 0.8; 4.5	19.1 +- 1.7
25	111 1.4	23.5 +- 0.7; 3.5	19.7 +- 0.8; 4.5	18.6 +- 1.9
26	137 1.5	23.4 +- 0.7; 3.5	19.6 +- 0.8; 4.5	18.9 +- 1.7
27	152 1.5	24.3 +- 0.7; 3.6	20.5 +- 0.8; 4.6	19.6 +- 1.7
28	107 3.6	25.0 +- 0.8; 3.8	21.2 +- 0.8; 4.7	21.3 +- 5.2
29	99 4.3	25.3 +- 0.8; 3.8	21.5 +- 0.8; 4.7	20.2 +- 1.8
30	138 3.6	25.4 +- 0.8; 3.8	21.6 +- 0.8; 4.7	20.4 +- 1.9
31	162 3.4	27.0 +- 0.8; 4.0	23.2 +- 0.9; 4.9	21.5 +- 2.3
32	176 3.5	25.7 +- 0.8; 3.9	21.9 +- 0.8; 4.7	20.2 +- 2.1
33	192 3.2	26.0 +- 0.8; 3.9	22.2 +- 0.8; 4.8	21.0 +- 2.0
34	231 4.4	23.8 +- 0.7; 3.6	20.0 +- 0.8; 4.5	19.4 +- 2.2
35	134 12.3	24.2 +- 0.7; 3.6	20.4 +- 0.8; 4.6	19.6 +- 2.1
36	114 13.5	26.7 +- 0.8; 4.0	22.9 +- 0.8; 4.9	21.9 +- 2.2
37	150 15.6	Missing Dosimeter	No Net Data	19.1 +- 1.9

Transit Dose = 3.3 +- 0.3; 2.9

SUSQUEHANNA

For the period 930606-931019

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	21.5 +- 1.0	2
11.26 - 33.75 NNE	20.3 +- 0.9	3
33.76 - 56.25 NE	22.7 +- 3.2	2
56.26 - 78.75 ENE	20.8 +- 1.9	2
78.76 - 101.25 E	20.6 +- 1.3	2
101.26 - 123.75 ESE	20.5 +- 1.0	2
123.76 - 146.25 SE	20.6 +- 1.4	2
146.26 - 168.75 SSE	21.8 +- 1.9	2
168.76 - 191.25 S	20.5 +- 2.0	2
191.26 - 213.75 SSW	21.3 +- 1.3	2
213.76 - 236.25 SW	21.5 +- 2.1	2
236.26 - 258.75 WSW	20.2 +- 0.6	3
258.76 - 281.25 W	21.6 +- 2.5	2
281.26 - 303.75 WNW	20.2 +- 1.2	2
303.76 - 326.25 NW	19.8 +- 0.4	2
326.26 - 348.75 NNW	19.9 +- 1.9	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	20.0 +- 1.0	16
2 - 5	21.7 +- 1.4	16
> 5	20.7 +- 0.3	2
Upwind Control	21.7 +- 1.7	2

NRC TLD DOSES FOR SUSQUEHANNA AREA

Miles

0 2 4

Legend

— Highways

++++ Railroads

----- Roads

★ Plant..site

THREE MILE ISLAND

TLD Direct Radiation Environmental Monitoring

For the period 930606-931019 136 Days

Field Time: 97 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	95 5.9	21.0 +- 0.6; 3.1	No Net Data	16.0 +- 2.4
2	102 3.9	24.1 +- 0.7; 3.6	No Net Data	18.4 +- 2.2
3	110 2.7	16.9 +- 0.5; 2.5	No Net Data	14.3 +- 2.8
4	162 1.8	20.4 +- 0.6; 3.1	No Net Data	15.5 +- 2.4
5	161 2.3	20.0 +- 0.6; 3.0	No Net Data	15.7 +- 2.0
6	152 1.1	21.3 +- 0.6; 3.2	No Net Data	16.2 +- 2.3
7	123 0.5	18.9 +- 0.6; 2.8	No Net Data	14.5 +- 2.0
8	87 0.4	18.8 +- 0.6; 2.8	No Net Data	15.5 +- 2.7
9	61 0.5	19.8 +- 0.6; 3.0	No Net Data	15.0 +- 1.9
10	1 1.7	20.8 +- 0.6; 3.1	No Net Data	15.1 +- 2.5
11	27 0.8	19.4 +- 0.6; 2.9	No Net Data	15.2 +- 2.1
12	48 1.0	19.7 +- 0.6; 3.0	No Net Data	15.5 +- 2.5
13	19 2.0	20.3 +- 0.6; 3.0	No Net Data	15.8 +- 2.2
14	358 2.4	19.7 +- 0.6; 3.0	No Net Data	14.4 +- 2.5
15	132 9.0	23.3 +- 0.7; 3.5	No Net Data	18.2 +- 2.6
16	0 3.0	18.2 +- 0.5; 2.7	No Net Data	14.4 +- 2.4
18	347 3.5	22.3 +- 0.7; 3.3	No Net Data	18.1 +- 2.9
19	343 3.1	21.9 +- 0.7; 3.3	No Net Data	16.5 +- 2.2
20	318 5.0	21.1 +- 0.6; 3.2	No Net Data	15.2 +- 2.2
21	348 2.7	17.0 +- 0.5; 2.6	No Net Data	12.5 +- 2.1
22	17 3.1	21.1 +- 0.6; 3.2	No Net Data	15.9 +- 2.3
23	64 3.7	18.0 +- 0.5; 2.7	No Net Data	12.9 +- 2.1
24	44 3.6	21.7 +- 0.6; 3.2	No Net Data	16.8 +- 2.4
25	327 0.4	15.9 +- 0.5; 2.4	No Net Data	12.9 +- 3.0
27	7 7.1	25.9 +- 0.8; 3.9	No Net Data	20.3 +- 2.4
29	293 0.4	18.6 +- 0.6; 2.8	No Net Data	16.0 +- 2.6
30	314 1.1	20.7 +- 0.6; 3.1	No Net Data	17.2 +- 2.1
31	303 8.6	18.0 +- 0.5; 2.7	No Net Data	13.9 +- 1.9
32	297 7.6	22.8 +- 0.7; 3.4	No Net Data	17.2 +- 2.0
33	302 5.8	18.8 +- 0.6; 2.8	No Net Data	13.8 +- 2.1
34	296 2.3	22.0 +- 0.7; 3.3	No Net Data	16.3 +- 2.3
35	308 1.0	20.6 +- 0.6; 3.1	No Net Data	16.3 +- 2.0
36	265 1.2	18.0 +- 0.5; 2.7	No Net Data	12.8 +- 2.5
37	256 1.4	18.7 +- 0.6; 2.8	No Net Data	13.6 +- 2.1
38	225 1.9	21.0 +- 0.6; 3.2	No Net Data	16.9 +- 1.9
39	204 2.0	17.8 +- 0.5; 2.7	No Net Data	13.1 +- 2.1
40	202 2.5	19.1 +- 0.6; 2.9	No Net Data	14.6 +- 2.2
41	184 12.6	21.5 +- 0.6; 3.2	No Net Data	16.3 +- 2.5
42	259 7.4	21.1 +- 0.6; 3.2	No Net Data	16.0 +- 2.1
43	268 6.2	20.6 +- 0.6; 3.1	No Net Data	17.0 +- 2.9
44	249 4.3	19.7 +- 0.6; 3.0	No Net Data	14.9 +- 2.2
45	221 0.5	18.3 +- 0.5; 2.7	No Net Data	13.7 +- 2.3
46	171 3.0	21.2 +- 0.6; 3.2	No Net Data	15.0 +- 2.9
47	177 5.7	20.1 +- 0.6; 3.0	No Net Data	15.4 +- 2.2
48	181 9.1	26.8 +- 0.8; 4.0	No Net Data	22.1 +- 2.9
49	199 1.0	20.6 +- 0.6; 3.1	No Net Data	15.2 +- 2.1
50	145 4.9	23.2 +- 0.7; 3.5	No Net Data	17.0 +- 3.1

No Transit Dose Calculated. (TLD Control Is Damaged.)

THREE MILE ISLAND

For the period 930606-931019

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	14.0 +- 2.2	4
11.26 - 33.75 NNE	13.4 +- 0.6	3
33.76 - 56.25 NE	13.7 +- 0.9	2
56.26 - 78.75 ENE	12.5 +- 0.8	2
78.76 - 101.25 E	13.2 +- 1.0	2
101.26 - 123.75 ESE	13.2 +- 2.5	3
123.76 - 146.25 SE	15.4 +- 0.1	2
146.26 - 168.75 SSE	13.6 +- 0.4	3
168.76 - 191.25 S	14.8 +- 2.0	4
191.26 - 213.75 SSW	12.7 +- 0.9	3
213.76 - 236.25 SW	13.0 +- 1.3	2
236.26 - 258.75 WSW	13.1 +- 0.0	1
258.76 - 281.25 W	13.8 +- 0.3	2
281.26 - 303.75 WNW	13.3 +- 1.4	5
303.76 - 326.25 NW	13.9 +- 0.2	2
326.26 - 348.75 NNW	12.8 +- 2.2	4

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	12.9 +- 0.9	16
2 - 5	13.5 +- 1.4	17
> 5	14.4 +- 1.8	11
Upwind Control	12.6 +- 0.9	3

NRC TLD DOSES FOR THREE MILE ISLAND AREA

Miles

Legend

Water
Highways

Railroads
Roads

Plant site

TROJAN

TLD Direct Radiation Environmental Monitoring

For the period 930609-931026 140 Days

Field Time: 98 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	340 0.6	Damaged Dosimeter	No Net Data	12.2 +- 1.1
2	334 1.5	20.6 +- 0.6; 3.1	15.6 +- 0.7; 4.0	14.7 +- 0.9
3	340 1.7	17.0 +- 0.5; 2.5	12.3 +- 0.6; 3.7	11.8 +- 0.8
4	328 3.9	16.8 +- 0.5; 2.5	12.2 +- 0.6; 3.7	12.7 +- 1.1
5	308 4.6	Missing Dosimeter	No Net Data	14.3 +- 1.2
6	312 4.5	20.6 +- 0.6; 3.1	15.6 +- 0.7; 4.0	15.1 +- 1.8
7	267 4.6	20.1 +- 0.6; 3.0	15.1 +- 0.6; 4.0	14.7 +- 0.9
8	274 3.8	20.4 +- 0.6; 3.1	15.4 +- 0.6; 4.0	15.4 +- 1.1
9	279 1.7	20.9 +- 0.6; 3.1	15.9 +- 0.7; 4.1	14.5 +- 1.3
10	263 2.0	21.6 +- 0.6; 3.2	16.5 +- 0.7; 4.1	15.2 +- 0.8
11	245 1.6	21.1 +- 0.6; 3.2	16.0 +- 0.7; 4.1	16.2 +- 1.7
12	223 1.2	23.4 +- 0.7; 3.5	18.1 +- 0.7; 4.3	16.5 +- 1.5
13	196 1.1	20.9 +- 0.6; 3.1	15.9 +- 0.7; 4.1	15.3 +- 1.0
14	180 1.2	20.2 +- 0.6; 3.0	15.2 +- 0.6; 4.0	14.4 +- 1.1
15	165 1.7	19.5 +- 0.6; 2.9	14.6 +- 0.6; 3.9	13.4 +- 1.4
16	212 3.9	23.3 +- 0.7; 3.5	18.1 +- 0.7; 4.3	16.0 +- 2.2
17	230 3.5	21.5 +- 0.6; 3.2	16.4 +- 0.7; 4.1	15.8 +- 1.3
18	162 9.3	21.1 +- 0.6; 3.2	16.0 +- 0.7; 4.1	15.8 +- 1.3
19	172 5.0	21.1 +- 0.6; 3.2	16.1 +- 0.7; 4.1	16.1 +- 1.5
20	334 5.8	18.7 +- 0.6; 2.8	13.9 +- 0.6; 3.9	12.9 +- 1.3
21	345 5.5	18.1 +- 0.5; 2.7	13.3 +- 0.6; 3.8	13.5 +- 1.2
22	356 5.5	17.3 +- 0.5; 2.6	12.5 +- 0.6; 3.7	12.5 +- 1.4
23	8 3.9	16.1 +- 0.5; 2.4	11.5 +- 0.5; 3.6	12.1 +- 1.4
24	15 3.7	19.1 +- 0.6; 2.9	14.2 +- 0.6; 3.9	13.3 +- 1.3
25	27 1.9	17.2 +- 0.5; 2.6	12.5 +- 0.6; 3.7	12.2 +- 1.3
26	37 2.1	21.3 +- 0.6; 3.2	16.2 +- 0.7; 4.1	14.9 +- 1.5
27	60 2.9	19.9 +- 0.6; 3.0	15.0 +- 0.6; 4.0	15.1 +- 1.3
28	55 4.5	18.8 +- 0.6; 2.8	14.0 +- 0.6; 3.9	13.7 +- 1.7
29	69 1.6	16.3 +- 0.5; 2.4	11.6 +- 0.6; 3.6	13.1 +- 2.0
30	83 3.9	17.8 +- 0.5; 2.7	13.0 +- 0.6; 3.8	12.7 +- 1.3
31	93 2.7	21.6 +- 0.6; 3.2	16.5 +- 0.7; 4.1	15.4 +- 1.4
32	119 2.2	21.5 +- 0.6; 3.2	16.4 +- 0.7; 4.1	15.5 +- 1.4
33	106 5.3	22.6 +- 0.7; 3.4	17.5 +- 0.7; 4.2	14.8 +- 2.8
34	134 2.5	17.9 +- 0.5; 2.7	13.1 +- 0.6; 3.8	12.5 +- 1.3
35	145 4.7	19.2 +- 0.6; 2.9	14.3 +- 0.6; 3.9	13.0 +- 1.3
36	270 17.0	19.8 +- 0.6; 3.0	14.9 +- 0.6; 4.0	15.5 +- 2.4
37	270 17.0	23.1 +- 0.7; 3.5	17.9 +- 0.7; 4.3	16.6 +- 2.3
38	270 17.0	22.2 +- 0.7; 3.3	17.1 +- 0.7; 4.2	16.4 +- 1.5

Transit Dose = 3.6 +- 0.4; 3.1

TROJAN

For the period 930609-931026

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	12.0 +- 0.8	2
11.26 - 33.75 NNE	13.3 +- 1.2	2
33.76 - 56.25 NE	15.1 +- 1.6	2
56.26 - 78.75 ENE	13.3 +- 2.4	2
78.76 - 101.25 E	14.8 +- 2.5	2
101.26 - 123.75 ESE	16.9 +- 0.7	2
123.76 - 146.25 SE	13.7 +- 0.8	2
146.26 - 168.75 SSE	15.3 +- 1.0	2
168.76 - 191.25 S	15.7 +- 0.6	2
191.26 - 213.75 SSW	17.0 +- 1.5	2
213.76 - 236.25 SW	17.3 +- 1.2	2
236.26 - 258.75 WSW	16.0 +- 0.0	1
258.76 - 281.25 W	15.7 +- 0.6	4
281.26 - 303.75 WNW	No Data +- No Data	0
303.76 - 326.25 NW	15.6 +- 0.0	1
326.26 - 348.75 NNW	13.4 +- 1.4	5

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	14.9 +- 2.0	11
2 - 5	14.9 +- 1.8	17
> 5	14.7 +- 2.0	5
Upwind Control	16.6 +- 1.6	3

NRC TLD DOSES FOR TROJAN AREA

Miles

Legend

Water

--- Railroads

Plant..site

— Highways

--- Roads

TURKEY POINT
 TLD Direct Radiation Environmental Monitoring
 For the period 930610-931021 134 Days
 Field Time: 100 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	310 1.3	12.8 +- 0.4; 1.9	11.2 +- 0.4; 3.2	11.9 +- 3.6
2	292 2.4	13.0 +- 0.4; 2.0	11.4 +- 0.4; 3.2	12.1 +- 3.7
3	340 1.9	14.5 +- 0.4; 2.2	12.7 +- 0.5; 3.3	12.4 +- 4.0
4	354 2.0	17.2 +- 0.5; 2.6	15.1 +- 0.5; 3.5	12.3 +- 4.0
5	314 3.8	13.1 +- 0.4; 2.0	11.4 +- 0.4; 3.2	12.0 +- 3.6
6	331 4.2	Missing Dosimeter	No Net Data	11.4 +- 3.6
7	291 5.4	14.6 +- 0.4; 2.2	12.7 +- 0.5; 3.3	12.3 +- 4.0
8	263 5.1	Missing Dosimeter	No Net Data	11.0 +- 3.2
9	242 5.7	14.9 +- 0.4; 2.2	13.0 +- 0.5; 3.3	11.8 +- 4.2
10	234 6.2	14.9 +- 0.4; 2.2	13.0 +- 0.5; 3.3	12.4 +- 3.9
11	220 6.2	14.1 +- 0.4; 2.1	12.4 +- 0.4; 3.3	12.0 +- 4.3
12	213 6.9	13.1 +- 0.4; 2.0	11.4 +- 0.4; 3.2	11.6 +- 3.6
13	199 10.0	15.1 +- 0.5; 2.3	13.2 +- 0.5; 3.3	12.3 +- 3.8
14	90 10.0	13.1 +- 0.4; 2.0	11.4 +- 0.4; 3.2	11.8 +- 3.7
15	180 10.0	15.8 +- 0.5; 2.4	13.8 +- 0.5; 3.4	13.9 +- 3.8
16	171 10.0	16.1 +- 0.5; 2.4	14.2 +- 0.5; 3.4	13.8 +- 3.9
17	165 9.0	15.3 +- 0.5; 2.3	13.4 +- 0.5; 3.4	13.4 +- 3.9
18	203 16.0	Missing Dosimeter	No Net Data	12.7 +- 3.7
19	203 16.0	14.4 +- 0.4; 2.2	12.6 +- 0.5; 3.3	12.7 +- 3.9
20	203 16.0	Missing Dosimeter	No Net Data	13.9 +- 3.5
21	268 8.7	13.2 +- 0.4; 2.0	11.5 +- 0.4; 3.2	11.0 +- 3.8
22	256 8.0	14.0 +- 0.4; 2.1	12.2 +- 0.4; 3.3	12.7 +- 3.8
23	275 9.0	12.8 +- 0.4; 1.9	11.2 +- 0.4; 3.2	12.0 +- 3.9
24	285 9.0	Missing Dosimeter	No Net Data	14.2 +- 4.0
25	293 8.7	17.8 +- 0.5; 2.7	15.7 +- 0.5; 3.6	14.6 +- 3.7
26	301 8.4	15.9 +- 0.5; 2.4	14.0 +- 0.5; 3.4	13.9 +- 3.6
27	311 8.3	14.2 +- 0.4; 2.1	12.4 +- 0.5; 3.3	12.7 +- 3.6
28	327 8.2	16.4 +- 0.5; 2.5	14.4 +- 0.5; 3.5	14.2 +- 3.7
29	339 9.3	14.3 +- 0.4; 2.1	12.5 +- 0.5; 3.3	13.5 +- 3.9
30	350 8.7	15.6 +- 0.5; 2.3	13.7 +- 0.5; 3.4	12.7 +- 3.7
31	359 9.9	14.3 +- 0.4; 2.2	12.5 +- 0.5; 3.3	13.0 +- 3.6
32	2 18.0	14.2 +- 0.4; 2.1	12.4 +- 0.4; 3.3	13.5 +- 3.7
33	2 22.0	14.0 +- 0.4; 2.1	12.3 +- 0.4; 3.3	13.6 +- 3.7
34	18 24.0	14.3 +- 0.4; 2.2	12.5 +- 0.5; 3.3	13.8 +- 4.1
35	28 22.0	13.7 +- 0.4; 2.1	12.0 +- 0.4; 3.2	13.3 +- 4.4
36	15 0.3	13.7 +- 0.4; 2.1	12.0 +- 0.4; 3.2	11.8 +- 3.7
37	228 0.5	15.4 +- 0.5; 2.3	13.5 +- 0.5; 3.4	13.5 +- 4.0

Transit Dose = 0.4 +- 0.3; 3.0

TURKEY POINT

For the period 930610-931021

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	13.2 +- 1.2	5
11.26 - 33.75 NNE	12.2 +- 0.3	3
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	11.4 +- 0.0	1
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	13.4 +- 0.0	1
168.76 - 191.25 S	14.0 +- 0.2	2
191.26 - 213.75 SSW	12.3 +- 1.3	2
213.76 - 236.25 SW	13.0 +- 0.6	3
236.26 - 258.75 WSW	12.6 +- 0.6	2
258.76 - 281.25 W	11.3 +- 0.2	2
281.26 - 303.75 WNW	13.4 +- 1.8	4
303.76 - 326.25 NW	11.7 +- 0.6	3
326.26 - 348.75 NNW	13.2 +- 1.1	3

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	12.9 +- 1.5	5
2 - 5	11.4 +- 0.0	2
> 5	12.8 +- 1.1	24
Upwind Control	12.6 +- 0.0	1

NRC TLD DOSES FOR TURKEY POINT AREA

VERMONT YANKEE

TLD Direct Radiation Environmental Monitoring

For the period 930608-931028 143 Days

Field Time: 106 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	142 1.0	24.3 +- 0.7; 3.6	17.9 +- 0.7; 4.2	15.8 +- 2.1
2	158 1.0	24.8 +- 0.7; 3.7	18.3 +- 0.7; 4.2	16.8 +- 1.8
3	184 1.3	22.4 +- 0.7; 3.4	16.3 +- 0.6; 4.0	16.3 +- 1.6
4	201 1.4	24.8 +- 0.7; 3.7	18.4 +- 0.7; 4.2	16.8 +- 1.9
5	220 1.6	25.3 +- 0.8; 3.8	18.8 +- 0.7; 4.3	16.8 +- 2.0
6	157 3.4	24.6 +- 0.7; 3.7	18.2 +- 0.7; 4.2	16.8 +- 2.3
7	189 4.9	24.2 +- 0.7; 3.6	17.9 +- 0.7; 4.2	16.7 +- 1.8
8	201 13.0	23.3 +- 0.7; 3.5	17.1 +- 0.7; 4.1	16.3 +- 1.6
9	208 5.8	24.3 +- 0.7; 3.6	17.9 +- 0.7; 4.2	16.4 +- 1.7
10	232 3.7	26.8 +- 0.8; 4.0	20.1 +- 0.7; 4.4	18.9 +- 2.1
11	277 2.9	25.4 +- 0.8; 3.8	18.9 +- 0.7; 4.3	17.5 +- 2.0
12	292 1.4	24.9 +- 0.7; 3.7	18.4 +- 0.7; 4.2	17.3 +- 2.1
13	314 1.4	24.8 +- 0.7; 3.7	18.4 +- 0.7; 4.2	16.6 +- 1.9
14	310 4.2	23.7 +- 0.7; 3.6	17.5 +- 0.7; 4.1	16.5 +- 1.5
15	299 4.3	23.2 +- 0.7; 3.5	17.0 +- 0.7; 4.1	16.1 +- 3.1
16	270 4.5	20.6 +- 0.6; 3.1	14.8 +- 0.6; 3.9	15.0 +- 1.8
17	331 5.0	24.3 +- 0.7; 3.6	17.9 +- 0.7; 4.2	17.3 +- 1.6
18	290 19.0	28.4 +- 0.9; 4.3	21.4 +- 0.8; 4.6	18.8 +- 1.8
19	290 19.0	25.6 +- 0.8; 3.8	19.1 +- 0.7; 4.3	18.4 +- 2.0
20	290 19.0	25.3 +- 0.8; 3.8	18.8 +- 0.7; 4.3	18.5 +- 2.0
21	359 3.2	25.1 +- 0.8; 3.8	18.6 +- 0.7; 4.3	17.0 +- 1.7
23	334 2.2	22.7 +- 0.7; 3.4	16.6 +- 0.7; 4.0	16.4 +- 1.8
24	4 0.9	25.2 +- 0.8; 3.8	18.7 +- 0.7; 4.3	17.1 +- 1.7
25	30 1.0	22.8 +- 0.7; 3.4	16.7 +- 0.7; 4.1	16.0 +- 1.8
26	72 1.5	24.5 +- 0.7; 3.7	18.1 +- 0.7; 4.2	17.5 +- 1.6
27	44 0.7	23.5 +- 0.7; 3.5	17.3 +- 0.7; 4.1	16.7 +- 1.8
28	39 2.8	25.3 +- 0.8; 3.8	18.7 +- 0.7; 4.3	18.2 +- 2.4
29	25 3.8	29.3 +- 0.9; 4.4	22.2 +- 0.8; 4.7	19.6 +- 2.1
30	72 2.7	27.6 +- 0.8; 4.1	20.7 +- 0.8; 4.5	19.1 +- 2.7
31	85 2.0	24.7 +- 0.7; 3.7	18.3 +- 0.7; 4.2	17.1 +- 1.9
32	111 1.8	24.5 +- 0.7; 3.7	18.1 +- 0.7; 4.2	16.8 +- 1.8
33	134 4.0	23.6 +- 0.7; 3.5	17.3 +- 0.7; 4.1	16.7 +- 1.7
34	151 6.0	21.5 +- 0.6; 3.2	15.5 +- 0.6; 3.9	14.9 +- 1.6
35	111 4.3	26.4 +- 0.8; 4.0	19.7 +- 0.7; 4.4	18.9 +- 1.8
36	92 4.7	27.1 +- 0.8; 4.1	20.3 +- 0.8; 4.5	19.3 +- 1.9
37	50 15.0	28.3 +- 0.8; 4.2	21.3 +- 0.8; 4.6	20.8 +- 1.4
39	222 0.3	24.3 +- 0.7; 3.6	17.9 +- 0.7; 4.2	18.4 +- 1.7
40	250 3.0	25.1 +- 0.8; 3.8	18.6 +- 0.7; 4.3	17.2 +- 1.8

Transit Dose = 3.2 +- 0.4; 3.3

VERMONT YANKEE
For the period 930608-931028

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	18.7 +- 0.1	2
11.26 - 33.75 NNE	19.4 +- 3.9	2
33.76 - 56.25 NE	21.3 +- 0.0	1
56.26 - 78.75 ENE	20.7 +- 0.0	1
78.76 - 101.25 E	19.3 +- 1.4	2
101.26 - 123.75 ESE	18.9 +- 1.2	2
123.76 - 146.25 SE	17.6 +- 0.4	2
146.26 - 168.75 SSE	17.4 +- 1.6	3
168.76 - 191.25 S	17.1 +- 1.1	2
191.26 - 213.75 SSW	17.8 +- 0.6	3
213.76 - 236.25 SW	18.9 +- 1.1	3
236.26 - 258.75 WSW	18.6 +- 0.0	1
258.76 - 281.25 W	16.9 +- 2.9	2
281.26 - 303.75 WNW	18.9 +- 1.6	5
303.76 - 326.25 NW	17.9 +- 0.7	2
326.26 - 348.75 NNW	17.2 +- 1.0	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	18.0 +- 0.8	12
2 - 5	18.5 +- 1.8	16
> 5	18.7 +- 2.1	7
Upwind Control	18.0 +- 0.7	3

NRC TLD DOSES FOR VERMONT YANKEE AREA

Miles

Legend

Water

Highways

Railroads

Roads

Plant..site

VOGTLE (GA)
 TLD Direct Radiation Environmental Monitoring
 For the period 930610-931026 139 Days
 Field Time: 92 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	298 1.6	18.1 +- 0.5; 2.7	15.0 +- 0.6; 3.9	14.3 +- 1.8
2	309 1.6	18.7 +- 0.6; 2.8	15.6 +- 0.6; 3.9	14.1 +- 2.0
3	336 1.4	18.5 +- 0.6; 2.8	15.5 +- 0.6; 3.9	14.3 +- 2.7
4	270 1.3	19.3 +- 0.6; 2.9	16.2 +- 0.6; 4.0	14.0 +- 2.1
5	247 1.2	19.7 +- 0.6; 3.0	16.6 +- 0.7; 4.0	14.7 +- 1.8
6	215 1.2	21.5 +- 0.6; 3.2	18.4 +- 0.7; 4.2	18.1 +- 2.0
7	205 1.2	20.4 +- 0.6; 3.1	17.3 +- 0.7; 4.1	17.3 +- 1.7
8	180 1.1	19.8 +- 0.6; 3.0	16.7 +- 0.7; 4.1	17.3 +- 1.7
9	153 1.2	20.0 +- 0.6; 3.0	16.9 +- 0.7; 4.1	15.7 +- 2.1
10	134 3.2	20.9 +- 0.6; 3.1	17.8 +- 0.7; 4.2	17.2 +- 1.9
11	103 1.1	16.6 +- 0.5; 2.5	13.5 +- 0.6; 3.7	12.9 +- 3.1
12	134 3.3	19.6 +- 0.6; 2.9	16.5 +- 0.6; 4.0	14.9 +- 2.0
13	123 4.2	19.3 +- 0.6; 2.9	16.2 +- 0.6; 4.0	15.2 +- 1.7
14	141 4.6	20.9 +- 0.6; 3.1	17.8 +- 0.7; 4.2	14.3 +- 3.7
15	153 5.3	18.5 +- 0.6; 2.8	15.4 +- 0.6; 3.9	13.2 +- 1.8
16	162 6.3	19.9 +- 0.6; 3.0	16.8 +- 0.7; 4.1	15.3 +- 2.5
17	157 7.3	19.4 +- 0.6; 2.9	16.3 +- 0.6; 4.0	18.2 +- 2.5
18	191 4.8	17.9 +- 0.5; 2.7	14.8 +- 0.6; 3.9	13.6 +- 1.9
19	208 4.7	18.3 +- 0.6; 2.8	15.3 +- 0.6; 3.9	12.9 +- 2.0
20	232 4.9	17.8 +- 0.5; 2.7	14.7 +- 0.6; 3.8	13.6 +- 2.1
21	250 5.6	19.8 +- 0.6; 3.0	16.7 +- 0.7; 4.1	14.5 +- 2.0
22	264 4.3	19.9 +- 0.6; 3.0	16.7 +- 0.7; 4.1	14.2 +- 2.1
23	301 4.2	19.3 +- 0.6; 2.9	16.2 +- 0.6; 4.0	14.7 +- 2.0
24	308 4.6	18.3 +- 0.5; 2.7	15.2 +- 0.6; 3.9	14.7 +- 2.7
25	329 6.7	18.2 +- 0.5; 2.7	15.1 +- 0.6; 3.9	16.5 +- 3.2
26	258 15.0	22.7 +- 0.7; 3.4	19.5 +- 0.7; 4.4	17.3 +- 2.3
27	300 13.0	20.5 +- 0.6; 3.1	17.3 +- 0.7; 4.1	17.1 +- 1.5
28	330 30.0	17.9 +- 0.5; 2.7	14.9 +- 0.6; 3.9	14.4 +- 2.2

Transit Dose = 2.7 +- 0.3; 2.9

VOGTLE (GA)
For the period 930610-931026

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	No Data +- No Data	0
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	14.8 +- 1.9	2
123.76 - 146.25 SE	17.4 +- 0.8	3
146.26 - 168.75 SSE	16.4 +- 0.7	4
168.76 - 191.25 S	15.8 +- 1.3	2
191.26 - 213.75 SSW	16.3 +- 1.4	2
213.76 - 236.25 SW	16.6 +- 2.6	2
236.26 - 258.75 WSW	16.6 +- 0.0	2
258.76 - 281.25 W	16.5 +- 0.4	2
281.26 - 303.75 WNW	15.6 +- 0.9	2
303.76 - 326.25 NW	15.4 +- 0.3	2
326.26 - 348.75 NNW	15.3 +- 0.2	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	16.2 +- 1.4	10
2 - 5	16.1 +- 1.1	10
> 5	16.1 +- 0.8	5
Upwind Control	17.2 +- 2.3	3

NRC TLD DOSES FOR VOGTLE AREA

Miles

Legend

Water

Railroads

Roads

Plant site

VOGTLE (SC)

TLD Direct Radiation Environmental Monitoring

For the period 930610-931026 139 Days

Field Time: 92 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
===	=====	=====	=====	=====	=====
31	357	5.2	28.0 +- 0.8; 4.2	19.9 +- 0.9; 5.3	17.4 +- 4.0
32	26	4.9	20.5 +- 0.6; 3.1	12.6 +- 0.8; 4.5	12.2 +- 2.8
33	17	3.2	21.6 +- 0.6; 3.2	13.6 +- 0.8; 4.6	12.5 +- 2.6
34	36	3.9	24.1 +- 0.7; 3.6	16.0 +- 0.8; 4.8	13.8 +- 2.5
35	48	2.4	27.9 +- 0.8; 4.2	19.7 +- 0.9; 5.2	18.5 +- 3.0
36	69	2.8	21.6 +- 0.6; 3.2	13.6 +- 0.8; 4.6	14.4 +- 2.9
37	74	4.4	22.4 +- 0.7; 3.4	14.4 +- 0.8; 4.6	14.0 +- 4.5
38	94	4.5	22.1 +- 0.7; 3.3	14.1 +- 0.8; 4.6	13.5 +- 2.8

Transit Dose = 7.7 +- 0.5; 3.3

VOGTLE (SC)
For the period 930610-931026

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	19.9 +- 0.0	1
11.26 - 33.75 NNE	13.1 +- 0.8	2
33.76 - 56.25 NE	17.9 +- 2.6	2
56.26 - 78.75 ENE	14.0 +- 0.6	2
78.76 - 101.25 E	14.1 +- 0.0	1
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	No Data +- No Data	0
2 - 5	14.9 +- 2.4	7
> 5	19.9 +- 0.0	1
Upwind Control	No Data +- No Data	0

NRC TLD DOSES FOR VOGTLE AREA

Miles

Legend

Water

Railroads

Roads

Plant..site

WASHINGTON NUCLEAR 2
 TLD Direct Radiation Environmental Monitoring
 For the period 930609-931020 134 Days
 Field Time: 84 Days

NRC Sta	Location Azimuth/Dist (Deg)/(Mi)	Gross Exposure (mR)		Net Exposure Rate (mR/Std. Qtr.)		Hist. Range Net Exp Rate	
		+--Rdm; Tot.		+--Rdm; Tot.		+--1 Std Dev	
1	174	22.5	+-- 0.7; 3.4	18.5	+-- 0.8; 4.8	17.9	+-- 1.0
2	163	23.6	+-- 0.7; 3.5	19.7	+-- 0.9; 4.9	17.6	+-- 1.1
3	161	22.3	+-- 0.7; 3.3	18.3	+-- 0.8; 4.7	17.2	+-- 1.0
4	152	23.7	+-- 0.7; 3.6	19.8	+-- 0.9; 4.9	18.7	+-- 1.1
5	195	22.9	+-- 0.7; 3.4	18.9	+-- 0.8; 4.8	17.8	+-- 1.0
6	220	24.3	+-- 0.7; 3.7	20.5	+-- 0.9; 5.0	18.0	+-- 1.5
7	92	24.2	+-- 0.7; 3.6	20.3	+-- 0.9; 5.0	19.1	+-- 1.4
8	155	22.8	+-- 0.7; 3.4	18.9	+-- 0.8; 4.8	17.2	+-- 1.4
9	130	24.1	+-- 0.7; 3.6	20.2	+-- 0.9; 5.0	18.1	+-- 1.2
10	70	24.3	+-- 0.7; 3.6	20.4	+-- 0.9; 5.0	18.4	+-- 1.5
11	25	24.8	+-- 0.7; 3.7	20.9	+-- 0.9; 5.0	18.3	+-- 1.1
12	315	24.0	+-- 0.7; 3.6	20.1	+-- 0.9; 4.9	18.6	+-- 1.5
13	290	30.6	+-- 0.9; 4.6	27.2	+-- 1.1; 5.8	22.1	+-- 3.1
14	270	25.5	+-- 0.8; 3.8	21.7	+-- 0.9; 5.1	18.3	+-- 1.3
15	245	24.1	+-- 0.7; 3.6	20.2	+-- 0.9; 5.0	18.5	+-- 1.1
16	285	23.6	+-- 0.7; 3.5	19.7	+-- 0.8; 4.9	19.1	+-- 1.3
17	240	22.7	+-- 0.7; 3.4	18.7	+-- 0.8; 4.8	17.3	+-- 1.3
18	198	23.6	+-- 0.7; 3.5	19.7	+-- 0.9; 4.9	17.1	+-- 1.5
19	173	23.9	+-- 0.7; 3.6	20.0	+-- 0.9; 4.9	18.3	+-- 1.1
20	150	Missing	Dosimeter	No Net Data		18.4	+-- 1.1
21	114	23.5	+-- 0.7; 3.5	19.6	+-- 0.9; 4.9	18.8	+-- 1.6
22	120	22.5	+-- 0.7; 3.4	18.5	+-- 0.8; 4.8	17.8	+-- 1.1
23	134	25.9	+-- 0.8; 3.9	22.2	+-- 0.9; 5.2	20.0	+-- 1.4
24	110	28.8	+-- 0.9; 4.3	25.3	+-- 1.0; 5.6	21.9	+-- 1.3
25	85	24.6	+-- 0.7; 3.7	20.7	+-- 0.9; 5.0	18.7	+-- 1.4
26	65	26.4	+-- 0.8; 4.0	22.7	+-- 0.9; 5.2	20.3	+-- 1.5
27	53	24.7	+-- 0.7; 3.7	20.8	+-- 0.9; 5.0	19.9	+-- 1.6
28	44	25.7	+-- 0.8; 3.9	22.0	+-- 0.9; 5.2	19.9	+-- 1.6
29	33	25.2	+-- 0.8; 3.8	21.5	+-- 0.9; 5.1	18.3	+-- 1.9
30	8	25.1	+-- 0.8; 3.8	21.3	+-- 0.9; 5.1	19.6	+-- 1.6
31	215	23.0	+-- 0.7; 3.4	19.0	+-- 0.8; 4.8	17.5	+-- 1.3

Transit Dose = 5.2 +- 0.4; 2.9

WASHINGTON NUCLEAR 2
For the period 930609-931020

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	21.3 +- 0.0	1
11.26 - 33.75 NNE	21.2 +- 0.4	2
33.76 - 56.25 NE	21.4 +- 0.8	2
56.26 - 78.75 ENE	21.6 +- 1.6	2
78.76 - 101.25 E	20.5 +- 0.3	2
101.26 - 123.75 ESE	21.1 +- 3.6	3
123.76 - 146.25 SE	21.2 +- 1.4	2
146.26 - 168.75 SSE	19.2 +- 0.7	4
168.76 - 191.25 S	20.0 +- 0.0	1
191.26 - 213.75 SSW	19.3 +- 0.6	2
213.76 - 236.25 SW	20.5 +- 0.0	1
236.26 - 258.75 WSW	19.5 +- 1.1	2
258.76 - 281.25 W	21.7 +- 0.0	1
281.26 - 303.75 WNW	23.5 +- 5.3	2
303.76 - 326.25 NW	20.1 +- 0.0	1
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	20.9 +- 2.4	10
2 - 5	21.0 +- 2.1	8
> 5	20.3 +- 1.4	10
Upwind Control	18.8 +- 0.4	2

NRC TLD DOSES FOR WNP-2 AREA

Miles

Legend

Water
Highways

Railroads
Roads

Plant site

WATERFORD

TLD Direct Radiation Environmental Monitoring

For the period 930609-931028 142 Days

Field Time: 93 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	101	0.4	21.1	+- 0.6; 3.2	17.2	+- 0.7; 4.2	16.0	+- 2.5
2	116	1.1	16.5	+- 0.5; 2.5	12.8	+- 0.6; 3.7	15.9	+- 2.7
3	132	1.3	21.8	+- 0.7; 3.3	17.9	+- 0.7; 4.3	17.9	+- 2.7
4	160	1.8	20.4	+- 0.6; 3.1	16.5	+- 0.7; 4.1	15.8	+- 2.6
5	183	1.4	21.2	+- 0.6; 3.2	17.3	+- 0.7; 4.2	15.4	+- 2.4
6	202	1.2	19.5	+- 0.6; 2.9	15.7	+- 0.7; 4.0	16.1	+- 2.8
7	226	1.2	19.9	+- 0.6; 3.0	16.1	+- 0.7; 4.1	15.5	+- 2.4
8	248	1.3	20.7	+- 0.6; 3.1	16.8	+- 0.7; 4.2	17.4	+- 2.4
9	265	1.9	16.7	+- 0.5; 2.5	13.0	+- 0.6; 3.8	15.0	+- 2.8
10	186	4.2	20.8	+- 0.6; 3.1	17.0	+- 0.7; 4.2	17.2	+- 2.5
11	315	4.4	18.4	+- 0.6; 2.8	14.6	+- 0.6; 3.9	16.6	+- 2.6
12	328	4.1	21.0	+- 0.6; 3.2	17.1	+- 0.7; 4.2	17.3	+- 2.6
13	309	0.8	19.4	+- 0.6; 2.9	15.6	+- 0.6; 4.0	15.4	+- 2.4
14	273	0.9	20.0	+- 0.6; 3.0	16.1	+- 0.7; 4.1	17.7	+- 3.2
15	292	0.8	17.1	+- 0.5; 2.6	13.4	+- 0.6; 3.8	14.3	+- 2.7
16	335	0.5	18.6	+- 0.6; 2.8	14.8	+- 0.6; 3.9	13.9	+- 2.3
17	120	4.3	19.3	+- 0.6; 2.9	15.5	+- 0.6; 4.0	13.9	+- 2.6
18	145	3.5	20.6	+- 0.6; 3.1	16.8	+- 0.7; 4.1	14.5	+- 1.6
19	153	8.1	20.5	+- 0.6; 3.1	16.7	+- 0.7; 4.1	16.3	+- 2.8
20	133	8.1	20.2	+- 0.6; 3.0	16.3	+- 0.7; 4.1	16.5	+- 2.7
21	116	6.7	19.4	+- 0.6; 2.9	15.5	+- 0.6; 4.0	15.2	+- 2.8
22	95	4.3	19.8	+- 0.6; 3.0	16.0	+- 0.7; 4.1	15.7	+- 2.5
23	86	2.6	19.0	+- 0.6; 2.9	15.2	+- 0.6; 4.0	15.4	+- 2.6
24	66	4.2	23.0	+- 0.7; 3.4	19.0	+- 0.7; 4.4	18.5	+- 2.7
25	37	3.5	21.2	+- 0.6; 3.2	17.3	+- 0.7; 4.2	16.9	+- 2.6
26	23	3.8	19.8	+- 0.6; 3.0	16.0	+- 0.7; 4.1	14.5	+- 2.7
27	350	4.9	20.6	+- 0.6; 3.1	16.7	+- 0.7; 4.1	15.6	+- 2.6
28	335	5.0	19.8	+- 0.6; 3.0	15.9	+- 0.7; 4.1	16.0	+- 2.6
29	6	2.8	18.4	+- 0.6; 2.8	14.7	+- 0.6; 3.9	14.4	+- 2.8
30	356	1.1	22.2	+- 0.7; 3.3	18.3	+- 0.7; 4.3	15.4	+- 2.9
31	15	0.8	19.0	+- 0.6; 2.8	15.1	+- 0.6; 4.0	16.6	+- 2.9
32	40	0.8	17.2	+- 0.5; 2.6	13.5	+- 0.6; 3.8	14.6	+- 3.0
33	69	1.1	20.8	+- 0.6; 3.1	16.9	+- 0.7; 4.2	16.2	+- 3.8
34	292	15.0	21.5	+- 0.6; 3.2	17.6	+- 0.7; 4.2	16.0	+- 2.9
35	282	27.0	23.2	+- 0.7; 3.5	19.2	+- 0.7; 4.4	17.9	+- 2.9
36	268	21.0	20.3	+- 0.6; 3.0	16.5	+- 0.7; 4.1	14.8	+- 2.9

Transit Dose = 3.3 +- 0.3; 3.0

WATERFORD

For the period 930609-931028

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	16.6 +- 1.8	3
11.26 - 33.75 NNE	15.6 +- 0.6	2
33.76 - 56.25 NE	15.4 +- 2.7	2
56.26 - 78.75 ENE	18.0 +- 1.5	2
78.76 - 101.25 E	16.1 +- 1.0	3
101.26 - 123.75 ESE	14.6 +- 1.6	3
123.76 - 146.25 SE	17.0 +- 0.8	3
146.26 - 168.75 SSE	16.6 +- 0.1	2
168.76 - 191.25 S	17.1 +- 0.2	2
191.26 - 213.75 SSW	15.7 +- 0.0	1
213.76 - 236.25 SW	16.1 +- 0.0	1
236.26 - 258.75 WSW	16.8 +- 0.0	1
258.76 - 281.25 W	14.6 +- 2.2	2
281.26 - 303.75 WNW	13.4 +- 0.0	1
303.76 - 326.25 NW	15.1 +- 0.7	2
326.26 - 348.75 NNW	15.9 +- 1.2	3

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	15.7 +- 1.7	17
2 - 5	16.3 +- 1.2	13
> 5	16.2 +- 0.6	3
Upwind Control	17.8 +- 1.4	3

NRC TLD DOSES FOR WATERFORD AREA

Miles

0 2 4

Legend

Water

— Highways

--- Railroads

--- Roads

Plant..site

WATTS BAR

TLD Direct Radiation Environmental Monitoring

For the period 930610-931020 133 Days

Field Time: 84 Days

NRC Sta	Location		Gross		Net Exposure Rate		Hist. Range	
	Azimuth/Dist (Deg)/(Mi)		Exposure (mR) +-Rdm; Tot.		(mR/Std. Qtr.) +-Rdm; Tot.		Net Exp Rate +-1 Std Dev	
1	337	0.9	21.1 +- 0.6; 3.2		17.9 +- 0.8; 4.5		17.1 +- 2.4	
2	314	2.1	20.4 +- 0.6; 3.1		17.2 +- 0.7; 4.4		17.4 +- 2.5	
3	297	1.9	22.2 +- 0.7; 3.3		19.1 +- 0.8; 4.7		17.3 +- 2.6	
4	272	2.0	21.7 +- 0.7; 3.3		18.5 +- 0.8; 4.6		16.6 +- 2.6	
5	251	1.9	22.5 +- 0.7; 3.4		19.4 +- 0.8; 4.7		19.0 +- 2.5	
6	235	1.8	25.8 +- 0.8; 3.9		22.9 +- 0.9; 5.1		20.6 +- 2.9	
7	230	3.8	22.2 +- 0.7; 3.3		19.1 +- 0.8; 4.7		19.4 +- 2.8	
8	208	3.6	22.5 +- 0.7; 3.4		19.4 +- 0.8; 4.7		18.0 +- 2.6	
9	249	4.2	19.2 +- 0.6; 2.9		15.9 +- 0.7; 4.3		15.4 +- 2.4	
10	266	3.1	21.2 +- 0.6; 3.2		18.0 +- 0.8; 4.5		16.6 +- 2.4	
11	289	3.3	18.1 +- 0.5; 2.7		14.7 +- 0.7; 4.2		14.3 +- 2.3	
12	310	4.7	17.9 +- 0.5; 2.7		14.5 +- 0.7; 4.2		14.7 +- 2.5	
13	337	3.6	18.0 +- 0.5; 2.7		14.5 +- 0.7; 4.2		15.4 +- 2.8	
14	330	7.0	19.1 +- 0.6; 2.9		15.8 +- 0.7; 4.3		15.3 +- 2.4	
15	350	4.7	22.8 +- 0.7; 3.4		19.8 +- 0.8; 4.7		18.6 +- 2.7	
16	7	1.1	24.7 +- 0.7; 3.7		21.8 +- 0.9; 5.0		19.9 +- 2.7	
17	23	1.6	15.6 +- 0.5; 2.3		12.0 +- 0.6; 3.9		13.2 +- 2.2	
18	41	2.3	19.7 +- 0.6; 3.0		16.4 +- 0.7; 4.4		16.1 +- 2.6	
19	69	1.3	23.1 +- 0.7; 3.5		20.1 +- 0.8; 4.8		18.7 +- 2.2	
20	89	1.2	21.0 +- 0.6; 3.1		17.8 +- 0.8; 4.5		20.3 +- 2.7	
21	114	1.1	18.9 +- 0.6; 2.8		15.5 +- 0.7; 4.3		15.8 +- 2.4	
22	141	1.0	22.1 +- 0.7; 3.3		19.0 +- 0.8; 4.7		19.1 +- 2.4	
23	163	1.1	25.9 +- 0.8; 3.9		23.0 +- 0.9; 5.1		21.9 +- 2.6	
24	187	1.1	20.3 +- 0.6; 3.0		17.1 +- 0.7; 4.4		18.2 +- 2.6	
25	203	1.2	17.8 +- 0.5; 2.7		14.4 +- 0.7; 4.1		18.4 +- 2.8	
26	184	5.9	24.8 +- 0.7; 3.7		21.9 +- 0.9; 5.0		17.7 +- 3.0	
27	176	4.5	21.9 +- 0.7; 3.3		18.8 +- 0.8; 4.6		17.3 +- 2.6	
28	161	3.5	20.1 +- 0.6; 3.0		16.8 +- 0.7; 4.4		16.1 +- 2.3	
29	144	3.0	19.8 +- 0.6; 3.0		16.5 +- 0.7; 4.4		16.7 +- 2.6	
30	117	3.1	19.4 +- 0.6; 2.9		16.1 +- 0.7; 4.3		15.9 +- 2.7	
31	97	4.0	20.5 +- 0.6; 3.1		17.3 +- 0.8; 4.5		16.3 +- 2.6	
32	76	4.1	17.9 +- 0.5; 2.7		14.5 +- 0.7; 4.2		13.7 +- 2.3	
33	32	4.1	21.0 +- 0.6; 3.2		17.8 +- 0.8; 4.5		16.9 +- 2.5	
34	36	4.7	17.2 +- 0.5; 2.6		13.7 +- 0.7; 4.1		13.9 +- 2.4	
35	38	19.0	20.0 +- 0.6; 3.0		16.8 +- 0.7; 4.4		15.5 +- 2.5	
36	38	19.0	23.2 +- 0.7; 3.5		20.2 +- 0.8; 4.8		16.5 +- 4.0	
37	38	19.0	22.1 +- 0.7; 3.3		18.9 +- 0.8; 4.6		17.2 +- 2.4	

Transit Dose = 4.4 +- 0.3; 2.8

WATTS BAR

For the period 930610-931020

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	20.8 +- 1.4	2
11.26 - 33.75 NNE	14.9 +- 4.1	2
33.76 - 56.25 NE	15.1 +- 1.9	2
56.26 - 78.75 ENE	17.3 +- 4.0	2
78.76 - 101.25 E	17.5 +- 0.3	2
101.26 - 123.75 ESE	15.8 +- 0.4	2
123.76 - 146.25 SE	17.8 +- 1.8	2
146.26 - 168.75 SSE	19.9 +- 4.4	2
168.76 - 191.25 S	19.2 +- 2.4	3
191.26 - 213.75 SSW	16.9 +- 3.5	2
213.76 - 236.25 SW	21.0 +- 2.7	2
236.26 - 258.75 WSW	17.6 +- 2.5	2
258.76 - 281.25 W	18.2 +- 0.4	2
281.26 - 303.75 WNW	16.9 +- 3.1	2
303.76 - 326.25 NW	15.8 +- 1.9	2
326.26 - 348.75 NNW	16.1 +- 1.7	3

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	18.5 +- 3.1	14
2 - 5	16.7 +- 1.9	18
> 5	18.8 +- 4.3	2
Upwind Control	18.6 +- 1.7	3

NRC TLD DOSES FOR WATTS BAR AREA

Miles

0 2 4

Legend

Water
Highways

Railroads
Roads

Plant site

WOLF CREEK

TLD Direct Radiation Environmental Monitoring

For the period 930607-931026 142 Days

Field Time: 98 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	316 2.9	26.0 +- 0.8; 3.9	19.0 +- 0.8; 4.7	19.7 +- 1.9
2	330 1.8	24.8 +- 0.7; 3.7	17.9 +- 0.8; 4.6	18.5 +- 1.8
3	360 2.8	24.5 +- 0.7; 3.7	17.6 +- 0.8; 4.5	18.9 +- 1.9
4	355 1.6	27.7 +- 0.8; 4.2	20.6 +- 0.8; 4.9	19.5 +- 2.0
5	31 1.8	27.0 +- 0.8; 4.1	20.0 +- 0.8; 4.8	19.6 +- 2.2
6	47 2.0	23.9 +- 0.7; 3.6	17.1 +- 0.8; 4.5	17.4 +- 2.1
7	70 1.6	25.3 +- 0.8; 3.8	18.4 +- 0.8; 4.6	18.2 +- 2.0
8	90 1.7	27.0 +- 0.8; 4.1	20.0 +- 0.8; 4.8	20.2 +- 1.9
9	111 2.4	25.2 +- 0.8; 3.8	18.3 +- 0.8; 4.6	19.6 +- 1.9
10	137 2.5	26.1 +- 0.8; 3.9	19.1 +- 0.8; 4.7	19.2 +- 1.9
11	157 3.4	28.0 +- 0.8; 4.2	20.8 +- 0.9; 4.9	20.6 +- 1.9
12	184 3.3	26.6 +- 0.8; 4.0	19.6 +- 0.8; 4.7	20.1 +- 1.8
13	213 2.9	26.9 +- 0.8; 4.0	19.8 +- 0.8; 4.8	19.7 +- 2.0
14	233 2.4	25.8 +- 0.8; 3.9	18.9 +- 0.8; 4.7	19.9 +- 2.0
15	248 2.2	25.0 +- 0.7; 3.7	18.1 +- 0.8; 4.6	19.5 +- 1.9
16	278 2.1	26.8 +- 0.8; 4.0	19.8 +- 0.8; 4.8	19.7 +- 1.7
17	270 3.4	21.7 +- 0.7; 3.3	15.1 +- 0.7; 4.2	16.1 +- 1.7
18	263 4.2	27.1 +- 0.8; 4.1	20.0 +- 0.8; 4.8	21.5 +- 2.0
19	257 5.0	27.1 +- 0.8; 4.1	20.1 +- 0.8; 4.8	19.5 +- 2.0
20	280 3.9	23.6 +- 0.7; 3.5	16.8 +- 0.7; 4.4	18.3 +- 1.5
21	298 3.9	26.2 +- 0.8; 3.9	19.2 +- 0.8; 4.7	19.9 +- 1.8
22	319 4.8	24.7 +- 0.7; 3.7	17.8 +- 0.8; 4.5	18.1 +- 2.2
23	332 5.0	25.4 +- 0.8; 3.8	18.4 +- 0.8; 4.6	19.3 +- 1.9
24	19 3.9	27.2 +- 0.8; 4.1	20.1 +- 0.8; 4.8	19.6 +- 1.8
25	35 4.4	24.5 +- 0.7; 3.7	17.7 +- 0.8; 4.5	17.0 +- 1.7
26	67 4.3	23.1 +- 0.7; 3.5	16.3 +- 0.7; 4.4	18.3 +- 1.9
27	88 4.1	24.1 +- 0.7; 3.6	17.3 +- 0.8; 4.5	19.4 +- 2.1
28	110 4.5	27.1 +- 0.8; 4.1	20.0 +- 0.8; 4.8	19.8 +- 1.7
29	128 4.4	24.7 +- 0.7; 3.7	17.8 +- 0.8; 4.5	20.4 +- 2.1
30	112 16.0	23.4 +- 0.7; 3.5	16.6 +- 0.7; 4.4	17.4 +- 2.1
31	127 9.4	23.4 +- 0.7; 3.5	16.6 +- 0.7; 4.4	17.1 +- 1.9
32	62 11.0	24.1 +- 0.7; 3.6	17.2 +- 0.8; 4.5	17.5 +- 2.1
33	153 5.2	23.7 +- 0.7; 3.6	16.9 +- 0.7; 4.4	19.1 +- 2.0
34	174 4.7	25.4 +- 0.8; 3.8	18.5 +- 0.8; 4.6	20.3 +- 1.9
35	197 5.2	26.3 +- 0.8; 4.0	19.3 +- 0.8; 4.7	20.5 +- 2.1
36	224 4.8	25.5 +- 0.8; 3.8	18.6 +- 0.8; 4.6	18.3 +- 1.7
37	220 14.0	21.8 +- 0.7; 3.3	15.2 +- 0.7; 4.3	15.6 +- 1.6
38	253 6.5	27.0 +- 0.8; 4.1	20.0 +- 0.8; 4.8	19.9 +- 2.3
39	278 10.0	27.3 +- 0.8; 4.1	20.2 +- 0.8; 4.8	18.9 +- 2.0
40	285 15.0	23.4 +- 0.7; 3.5	16.6 +- 0.7; 4.4	16.9 +- 1.7
41	292 6.7	26.0 +- 0.8; 3.9	19.0 +- 0.8; 4.7	18.3 +- 2.1
42	345 13.0	25.7 +- 0.8; 3.9	18.8 +- 0.8; 4.7	20.4 +- 1.9
43	5 7.5	25.8 +- 0.8; 3.9	18.8 +- 0.8; 4.7	19.7 +- 1.9
44	20 8.3	Damaged Dosimeter	No Net Data	19.9 +- 1.7
45	315 7.5	26.7 +- 0.8; 4.0	19.6 +- 0.8; 4.8	21.1 +- 1.9
46	341 7.7	28.3 +- 0.8; 4.2	21.1 +- 0.9; 4.9	20.0 +- 1.3
47	355 1.0	24.4 +- 0.7; 3.7	17.5 +- 0.8; 4.5	18.3 +- 1.4

Transit Dose = 5.3 +- 0.4; 3.3

WOLF CREEK

For the period 930607-931026

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	18.6 +- 1.4	4
11.26 - 33.75 NNE	20.1 +- 0.1	2
33.76 - 56.25 NE	17.4 +- 0.4	2
56.26 - 78.75 ENE	17.3 +- 1.0	3
78.76 - 101.25 E	18.6 +- 1.9	2
101.26 - 123.75 ESE	18.3 +- 1.7	3
123.76 - 146.25 SE	17.8 +- 1.2	3
146.26 - 168.75 SSE	18.9 +- 2.8	2
168.76 - 191.25 S	19.0 +- 0.8	2
191.26 - 213.75 SSW	19.6 +- 0.4	2
213.76 - 236.25 SW	17.5 +- 2.0	3
236.26 - 258.75 WSW	19.4 +- 1.1	3
258.76 - 281.25 W	18.4 +- 2.3	5
281.26 - 303.75 WNW	18.3 +- 1.4	3
303.76 - 326.25 NW	18.8 +- 0.9	3
326.26 - 348.75 NNW	19.1 +- 1.4	4

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	18.8 +- 1.4	7
2 - 5	18.6 +- 1.4	25
> 5	18.3 +- 1.7	14
Upwind Control	No Data +- No Data	0

NRC TLD DOSES FOR WOLF CREEK AREA

Miles

0 2 4

Legend

Water

Railroads

Plant..site

Highways

Roads

YANKEE ROWE

TLD Direct Radiation Environmental Monitoring

For the period 930608-931027

142 Days

Field Time: 99 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	23.5 +- 0.7; 3.5	17.7 +- 0.7; 4.3	18.8 +- 2.2
2	265	23.3 +- 0.7; 3.5	17.5 +- 0.7; 4.3	16.3 +- 2.0
3	137	23.6 +- 0.7; 3.5	17.8 +- 0.7; 4.3	16.2 +- 1.8
5	85	24.3 +- 0.7; 3.6	18.4 +- 0.7; 4.4	15.3 +- 1.8
6	118	23.6 +- 0.7; 3.5	17.7 +- 0.7; 4.3	15.4 +- 1.8
7	137	24.7 +- 0.7; 3.7	18.7 +- 0.8; 4.5	17.3 +- 1.8
8	153	21.8 +- 0.7; 3.3	16.1 +- 0.7; 4.2	16.1 +- 1.4
9	176	23.2 +- 0.7; 3.5	17.3 +- 0.7; 4.3	15.9 +- 1.6
10	203	26.1 +- 0.8; 3.9	20.0 +- 0.8; 4.6	16.7 +- 2.1
11	219	24.3 +- 0.7; 3.6	18.4 +- 0.7; 4.4	16.8 +- 1.5
12	239	26.0 +- 0.8; 3.9	19.9 +- 0.8; 4.7	20.0 +- 2.4
13	272	26.8 +- 0.8; 4.0	20.6 +- 0.8; 4.7	17.7 +- 2.3
14	292	25.9 +- 0.8; 3.9	19.8 +- 0.8; 4.6	17.9 +- 2.1
15	315	25.9 +- 0.8; 3.9	19.9 +- 0.8; 4.6	18.3 +- 2.1
16	348	23.8 +- 0.7; 3.6	17.9 +- 0.7; 4.4	16.8 +- 2.1
17	358	25.0 +- 0.8; 3.8	19.0 +- 0.8; 4.5	15.5 +- 1.9
18	21	24.7 +- 0.7; 3.7	18.7 +- 0.8; 4.5	16.8 +- 1.5
19	43	26.8 +- 0.8; 4.0	20.6 +- 0.8; 4.7	17.7 +- 2.0
20	75	21.6 +- 0.6; 3.2	15.9 +- 0.7; 4.1	14.7 +- 1.7
21	98	19.3 +- 0.6; 2.9	13.8 +- 0.6; 3.9	13.7 +- 1.6
22	104	22.1 +- 0.7; 3.3	16.4 +- 0.7; 4.2	13.5 +- 1.6
23	133	21.9 +- 0.7; 3.3	16.2 +- 0.7; 4.2	14.4 +- 1.9
24	157	24.6 +- 0.7; 3.7	18.6 +- 0.7; 4.4	16.4 +- 1.9
25	184	24.6 +- 0.7; 3.7	18.6 +- 0.7; 4.4	17.3 +- 2.2
27	225	25.0 +- 0.8; 3.8	19.0 +- 0.8; 4.5	17.3 +- 2.1
29	269	24.2 +- 0.7; 3.6	18.2 +- 0.7; 4.4	17.1 +- 1.8
32	342	24.8 +- 0.7; 3.7	18.8 +- 0.8; 4.5	17.4 +- 1.8
34	48	19.5 +- 0.6; 2.9	14.0 +- 0.6; 3.9	14.6 +- 1.9
35	39	Missing Dosimeter	No Net Data	16.7 +- 1.6
47	260	26.7 +- 0.8; 4.0	20.5 +- 0.8; 4.7	18.6 +- 1.8
48	261			

Transit Dose =

4.1 +- 0.4; 3.2

YANKEE ROWE

For the period 930608-931027

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	17.8 +- 0.2	2
11.26 - 33.75 NNE	19.0 +- 0.0	1
33.76 - 56.25 NE	17.2 +- 2.8	3
56.26 - 78.75 ENE	20.6 +- 0.0	1
78.76 - 101.25 E	17.1 +- 1.7	2
101.26 - 123.75 ESE	15.8 +- 2.7	2
123.76 - 146.25 SE	17.6 +- 1.2	3
146.26 - 168.75 SSE	16.1 +- 0.1	2
168.76 - 191.25 S	18.0 +- 0.9	2
191.26 - 213.75 SSW	20.0 +- 0.0	1
213.76 - 236.25 SW	18.5 +- 0.2	2
236.26 - 258.75 WSW	18.6 +- 0.0	1
258.76 - 281.25 W	18.8 +- 1.3	3
281.26 - 303.75 WNW	20.6 +- 0.0	1
303.76 - 326.25 NW	19.8 +- 0.0	1
326.26 - 348.75 NNW	19.1 +- 1.2	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	18.8 +- 1.5	10
2 - 5	17.9 +- 1.7	8
> 5	17.5 +- 1.9	11
Upwind Control	20.5 +- 0.0	1

NRC TLD DOSES FOR YANKEE ROWE AREA

Miles

Legend

Water
Highways

Railroads
Roads

Plant site

ZION

TLD Direct Radiation Environmental Monitoring

For the period 930610-931019 132 Days

Field Time: 81 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	310	0.8	17.0 +- 0.5; 2.5	13.8 +- 0.7; 4.1	15.6 +- 1.8
2	192	1.0	Missing Dosimeter	No Net Data	12.9 +- 2.0
3	187	1.9	17.3 +- 0.5; 2.6	14.2 +- 0.7; 4.2	14.1 +- 2.0
4	219	2.4	20.6 +- 0.6; 3.1	17.8 +- 0.8; 4.6	16.9 +- 1.9
5	257	1.8	18.2 +- 0.5; 2.7	15.2 +- 0.7; 4.3	17.1 +- 2.2
6	250	1.2	19.5 +- 0.6; 2.9	16.6 +- 0.8; 4.4	15.9 +- 1.9
7	293	1.6	19.7 +- 0.6; 3.0	16.8 +- 0.8; 4.5	16.8 +- 1.8
8	310	1.8	18.5 +- 0.6; 2.8	15.5 +- 0.7; 4.3	14.7 +- 2.0
9	343	2.6	18.6 +- 0.6; 2.8	15.6 +- 0.7; 4.3	15.2 +- 2.0
10	356	4.5	18.1 +- 0.5; 2.7	15.1 +- 0.7; 4.3	14.4 +- 2.0
11	337	4.5	18.6 +- 0.6; 2.8	15.6 +- 0.7; 4.3	16.5 +- 2.5
12	310	4.0	20.4 +- 0.6; 3.1	17.6 +- 0.8; 4.6	18.7 +- 2.2
13	293	3.5	22.4 +- 0.7; 3.4	19.9 +- 0.8; 4.8	19.2 +- 2.1
14	280	4.5	21.6 +- 0.6; 3.2	18.9 +- 0.8; 4.7	18.5 +- 2.0
15	232	3.2	21.5 +- 0.6; 3.2	18.8 +- 0.8; 4.7	17.6 +- 2.2
16	220	3.5	21.8 +- 0.7; 3.3	19.1 +- 0.8; 4.7	17.8 +- 1.9
17	198	4.5	20.1 +- 0.6; 3.0	17.2 +- 0.8; 4.5	15.7 +- 1.9
18	206	2.8	18.8 +- 0.6; 2.8	15.9 +- 0.7; 4.4	15.3 +- 2.0
19	327	1.7	17.8 +- 0.5; 2.7	14.7 +- 0.7; 4.2	15.3 +- 2.2
20	197	15.0	20.6 +- 0.6; 3.1	17.8 +- 0.8; 4.6	18.8 +- 2.2
21	352	7.9	17.7 +- 0.5; 2.6	14.6 +- 0.7; 4.2	14.8 +- 2.3
22	348	9.3	17.2 +- 0.5; 2.6	14.0 +- 0.7; 4.2	15.1 +- 2.2
23	336	8.5	20.5 +- 0.6; 3.1	17.7 +- 0.8; 4.6	17.4 +- 2.8
24	314	5.8	20.1 +- 0.6; 3.0	17.3 +- 0.8; 4.5	17.2 +- 1.4
25	220	6.3	Missing Dosimeter	No Net Data	16.2 +- 2.1
26	195	8.0	19.0 +- 0.6; 2.9	16.1 +- 0.7; 4.4	15.2 +- 1.9
28	197	15.0	21.2 +- 0.6; 3.2	18.4 +- 0.8; 4.6	18.7 +- 1.9
30	320	9.8	21.6 +- 0.6; 3.2	19.0 +- 0.8; 4.7	17.8 +- 1.8
31	229	8.0	19.1 +- 0.6; 2.9	16.1 +- 0.7; 4.4	16.5 +- 1.8
32	193	15.0	20.5 +- 0.6; 3.1	17.7 +- 0.8; 4.6	19.1 +- 1.7

Transit Dose = 4.6 +- 0.3; 2.7

ZION

For the period 930610-931019

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	14.8 +- 0.4	2
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	14.2 +- 0.0	1
191.26 - 213.75 SSW	16.4 +- 0.7	3
213.76 - 236.25 SW	18.0 +- 1.3	4
236.26 - 258.75 WSW	15.9 +- 1.0	2
258.76 - 281.25 W	18.9 +- 0.0	1
281.26 - 303.75 WNW	18.4 +- 2.1	2
303.76 - 326.25 NW	16.7 +- 2.0	5
326.26 - 348.75 NNW	15.5 +- 1.4	5

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	15.3 +- 1.2	7
2 - 5	17.4 +- 1.7	11
> 5	16.4 +- 1.7	7
Upwind Control	18.0 +- 0.4	3

NRC TLD DOSES FOR ZION AREA

SUPPLEMENT

Data for COOPER (Second Quarter 1993)

The following pages contain the data and map for the Cooper site for the second quarter of 1993. Due to flooding in the Missouri River basin during that period, these TLDs were not collected until after NUREG-0837, Vol. 13, No. 2 was published.

COOPER

TLD Direct Radiation Environmental Monitoring

For the period 930322-930824 156 Days

Field Time: 111 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	363 2.4	26.7 +- 0.8; 4.0	16.6 +- 0.7; 4.4	19.1 +- 3.9
2	6 3.5	Missing Dosimeter	No Net Data	20.7 +- 3.5
3	18 2.7	Missing Dosimeter	No Net Data	21.2 +- 3.6
4	16 3.2	29.6 +- 0.9; 4.4	19.0 +- 0.8; 4.7	21.1 +- 3.3
5	47 1.9	29.2 +- 0.9; 4.4	18.7 +- 0.8; 4.7	21.0 +- 3.4
6	40 3.6	29.9 +- 0.9; 4.5	19.2 +- 0.8; 4.7	20.3 +- 3.4
7	75 2.7	Missing Dosimeter	No Net Data	20.4 +- 3.7
8	55 2.8	29.0 +- 0.9; 4.4	18.5 +- 0.8; 4.7	20.4 +- 3.6
9	80 2.1	30.2 +- 0.9; 4.5	19.4 +- 0.8; 4.8	21.8 +- 3.5
10	98 3.7	Missing Dosimeter	No Net Data	20.2 +- 3.4
11	118 2.3	Missing Dosimeter	No Net Data	21.6 +- 3.4
12	109 4.6	Missing Dosimeter	No Net Data	21.5 +- 3.2
13	141 3.2	28.3 +- 0.8; 4.2	17.9 +- 0.8; 4.6	21.1 +- 3.3
14	126 5.6	Missing Dosimeter	No Net Data	19.0 +- 2.7
15	159 2.7	29.2 +- 0.9; 4.4	18.7 +- 0.8; 4.7	20.3 +- 3.6
16	167 4.9	31.5 +- 0.9; 4.7	20.5 +- 0.9; 4.9	21.3 +- 3.6
17	205 0.3	30.2 +- 0.9; 4.5	19.4 +- 0.8; 4.8	20.6 +- 3.0
18	186 4.7	31.2 +- 0.9; 4.7	20.3 +- 0.8; 4.9	21.7 +- 3.6
19	213 3.0	28.2 +- 0.8; 4.2	17.8 +- 0.8; 4.6	20.7 +- 3.3
20	195 4.9	31.3 +- 0.9; 4.7	20.3 +- 0.8; 4.9	21.7 +- 3.3
21	222 2.0	29.1 +- 0.9; 4.4	18.6 +- 0.8; 4.7	19.6 +- 3.2
22	215 5.7	31.4 +- 0.9; 4.7	20.4 +- 0.9; 4.9	21.8 +- 3.6
23	256 1.5	Missing Dosimeter	No Net Data	21.3 +- 3.5
24	238 5.2	31.2 +- 0.9; 4.7	20.2 +- 0.8; 4.9	21.6 +- 3.8
25	276 2.2	31.6 +- 0.9; 4.7	20.6 +- 0.9; 4.9	22.0 +- 3.1
26	260 3.8	31.8 +- 1.0; 4.8	20.7 +- 0.9; 4.9	21.8 +- 3.1
27	301 1.8	Damaged Dosimeter	No Net Data	21.5 +- 3.1
28	286 4.3	31.3 +- 0.9; 4.7	20.3 +- 0.8; 4.9	21.2 +- 3.5
29	324 2.8	29.4 +- 0.9; 4.4	18.8 +- 0.8; 4.7	20.7 +- 3.7
30	333 3.7	30.1 +- 0.9; 4.5	19.4 +- 0.8; 4.8	21.3 +- 3.5
31	343 2.6	30.8 +- 0.9; 4.6	20.0 +- 0.8; 4.8	21.4 +- 3.1
32	333 3.7	30.8 +- 0.9; 4.6	19.9 +- 0.8; 4.8	20.9 +- 3.4
33	215 1.0	27.5 +- 0.8; 4.1	17.3 +- 0.8; 4.5	21.5 +- 3.7
34	175 18.0	30.7 +- 0.9; 4.6	19.9 +- 0.8; 4.8	22.1 +- 3.7
35	333 23.0	30.3 +- 0.9; 4.5	19.5 +- 0.8; 4.8	20.1 +- 3.4
36	210 19.0	31.1 +- 0.9; 4.7	20.2 +- 0.8; 4.8	21.2 +- 3.5
37	64 7.0	33.5 +- 1.0; 5.0	22.1 +- 0.9; 5.1	24.4 +- 4.3
38	329 9.0	33.9 +- 1.0; 5.1	22.5 +- 0.9; 5.1	23.0 +- 3.2
39	273 10.0	30.6 +- 0.9; 4.6	19.8 +- 0.8; 4.8	20.5 +- 3.8
40	300 2.5	35.9 +- 1.1; 5.4	24.1 +- 1.0; 5.3	23.6 +- 3.3
42	93 3.5	29.2 +- 0.9; 4.4	18.7 +- 0.8; 4.7	20.4 +- 3.4
43	270 2.2	30.9 +- 0.9; 4.6	20.0 +- 0.8; 4.8	21.3 +- 3.5

Transit Dose = 6.2 +- 0.5; 3.7

COOPER

For the period 930322-930824

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	No Data +- No Data	0
11.26 - 33.75 NNE	19.0 +- 0.0	1
33.76 - 56.25 NE	18.8 +- 0.4	3
56.26 - 78.75 ENE	22.1 +- 0.0	1
78.76 - 101.25 E	19.1 +- 0.5	2
101.26 - 123.75 ESE	No Data +- No Data	0
123.76 - 146.25 SE	17.9 +- 0.0	1
146.26 - 168.75 SSE	19.6 +- 1.3	2
168.76 - 191.25 S	20.3 +- 0.0	1
191.26 - 213.75 SSW	19.2 +- 1.3	3
213.76 - 236.25 SW	18.8 +- 1.6	3
236.26 - 258.75 WSW	20.2 +- 0.0	1
258.76 - 281.25 W	20.3 +- 0.5	4
281.26 - 303.75 WNW	22.2 +- 2.7	2
303.76 - 326.25 NW	18.8 +- 0.0	1
326.26 - 348.75 NNW	20.4 +- 1.4	4

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	18.5 +- 0.9	4
2 - 5	19.6 +- 1.5	21
> 5	21.0 +- 1.2	5
Upwind Control	19.9 +- 0.4	3

NRC TLD DOSES FOR COOPER AREA

Miles

Legend

Water

— Highways

--- Railroads

--- Roads

Plant..site

BIBLIOGRAPHIC DATA SHEET

(See instructions on the reverse)

1. REPORT NUMBER
(Assigned by NRC. Add Vol., Supp., Rev.,
and Addendum Numbers, if any.)

NUREG-0837
Vol. 13, No. 3

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NRC TLD Direct Radiation Monitoring Network
Progress Report (July - September, 1993)

3. DATE REPORT PUBLISHED

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4. FIN OR GRANT NUMBER

5. AUTHOR(S)

R. Struckmeyer

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July-September, 1993

8. PERFORMING ORGANIZATION - NAME AND ADDRESS (If NRC, provide Division, Office or Region, U.S. Nuclear Regulatory Commission, and mailing address; if contractor, provide name and mailing address.)

Region I
U.S. Nuclear Regulatory Commission
King of Prussia, PA 19406

9. SPONSORING ORGANIZATION - NAME AND ADDRESS (If NRC, type "Same as above"; if contractor, provide NRC Division, Office or Region, U.S. Nuclear Regulatory Commission, and mailing address.)

Same as 8. above

10. SUPPLEMENTARY NOTES

11. ABSTRACT (200 words or less)

This report provides the status and results of the NRC Thermoluminescent Dosimeter (TLD) Direct Radiation Monitoring Network. It presents the radiation levels measured in the vicinity of NRC licensed facilities throughout the country for the third quarter of 1993.

12. KEY WORDS/DESCRIPTORS (List words or phrases that will assist researchers in locating the report.)

Thermoluminescent Dosimeter (TLD) Direct Radiation Monitoring
Network

ambient radiation levels

13. AVAILABILITY STATEMENT

Unlimited

14. SECURITY CLASSIFICATION

(This Page)

Unclassified

(This Report)

Unclassified

15. NUMBER OF PAGES

16. PRICE

END

DATE

FILMED

11/11/94