NRC TLD Direct Radiation Monitoring Network

Progress Report
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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 1997. 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 for the current quarter 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 Analysis

The analysis of the data for the third quarter indicated that at some of the monitored sites, the results for a few TLDs were outside the range that is normally expected for those locations. A net result is considered to be within the expected range if it is within plus or minus three times the standard deviation of the historical mean. The "historical range" column on the first page of data for each site shows the mean and one standard deviation of previous net results for each TLD location. The result for any particular location may be within, above, or below this range. Some of the atypical results readily lend themselves to explanation, while others do not. A footnote is provided on the first data page for those sites for which one or more TLDs were found to be outside the expected range. The affected sites were North Anna, Oyster Creek, and Salem (NJ). The results for Oyster Creek and Salem (NJ) were lower than expected. There is no indication that any of the atypical results are related to facility operations.

There were no obvious causal agents that would account for the results outside the expected ranges. Unfortunately, it is often difficult to obtain such information. Weather is an example of a causal agent that could influence TLD results. The amount of naturally occurring radon and its daughter products in the lower atmosphere is a complex function of the wind, the amount of precipitation, and the resultant saturation of the ground with rain water (or coverage by ice or packed snow). The higher concentrations of radon that sometimes occur as a result of a combination of weather-related circumstances can give rise to TLD results that are somewhat higher than normal. Some of these could fall slightly outside the expected range.

Systematic uncertainties, most notably the calibration uncertainty, could influence the data by introducing a bias in the overall results. Some of the net results that otherwise would have been near the limit of the normal range could therefore fall slightly outside this range.

The atypical results at the sites noted in the report were carefully reviewed. The gross exposure data for the affected TLDs at Oyster Creek and Salem (NJ) were consistent with previous quarters, while the transit doses were somewhat higher than the typical values that were recorded through the second quarter of 1996. The change in transit doses may in turn be due to differences in the way the TLDs are handled by the contractor. Since the transit value is subtracted from the gross exposure to arrive at the net exposure rate, a higher transit dose would cause the net exposure rates to be smaller. Some of the net results that would have been near the limit of the normal range are therefore slightly outside (below) this range.

Several TLDs at the North Anna site were above the expected range. Most of the atypical results were no more than about 1 to 2 mR above the expected range. The TLD at location no. 27, however, was 3.5 mR above the expected range. The Virginia Department of Health, which is the contractor for exchange of NRC TLDs at this site, also has a set of its own TLDs that are exchanged quarterly. The individual within this agency who analyzes their TLD data stated that there was no indication of unusually high results for the third quarter. A review was also performed of the data collected by the licensee for the third quarter. This review did not reveal any data that corresponded to the unusually high readings of the NRC TLDs. The possibility remains that the NRC TLDs were exposed during transit due to proximity to a package containing a radiopharmaceutical or research isotope. It is within reason that a portion of the TLDs in the shipping container may have been exposed to a greater extent than others due to the orientation of the packages and due to the shielding effect that the TLDs closer to the surface would have on those that were situated behind them.

The data also were reviewed from the perspective of each TLD's proximity to the site, and whether any pattern of higher than expected exposures could be discerned. No such patterns were detected. Many of the affected TLDs were at relatively large distances from the site, including two (36 and 37) that are used as upwind controls. The affected TLDs were scattered throughout nine of the sixteen standard windrose sectors surrounding the site. Furthermore, there were no releases of airborne radioactivity from any of these sites at levels that could result in exposures offsite that would be discernible from the surrounding background radiation levels. Such releases, if they occurred, would be detected by other sensitive radiation monitoring instruments either at the point of release or at other on-site or off-site locations. The NRC TLD Direct Radiation Monitoring Network is intended to aid in the assessment of the radiological impact of an unusual condition, such as abnormally large releases of airborne radioactive material, but it will not be the primary indicator that releases have occurred.

Sites Monitored During the Third Quarter 1997

The list is provided on page 223 of this report.

ARKANSAS

TLD Direct Radiation Environmental Monitoring

For the period 970609-971030 144 Days

Field Time: 99 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	4	0.4	22.6	+- 0.7; 3.4	17.2	+- 0.7; 4.2	17.2	+- 1.2
2	353	4.1	23.6	+- 0.7; 3.5	18.2	+- 0.7; 4.3	17.4	+- 1.1
3	32	1.3	24.8	+- 0.7; 3.7	19.2	+- 0.8; 4.4	18.1	+- 1.0
4	13	3.3	22.6	+- 0.7; 3.4	17.2	+- 0.7; 4.2	16.8	+- 1.2
5	53	1.5	23.9	+- 0.7; 3.6	18.4	+- 0.7; 4.3	17.4	+- 1.2
6	37	3.6	22.5	+- 0.7; 3.4	17.1	+- 0.7; 4.2	16.5	+- 1.1
7	78	2.5	24.8	+- 0.7; 3.7	19.2	+- 0.8; 4.4	18.8	+- 1.3
8	60	3.2	26.2	+- 0.8; 3.9	20.5	+- 0.8; 4.6	20.1	+- 2.3
9	92	0.5	24.7	+- 0.7; 3.7	19.1	+- 0.7; 4.4	19.1	+- 1.5
10	83	5.5	23.9	+- 0.7; 3.6	18.4	+- 0.7; 4.4	17.5	+- 1.1
11	122	2.1	22.3	+- 0.7; 3.3	16.9	+- 0.7; 4.2	16.4	+- 1.2
12	109	6.8	27.0	+- 0.8; 4.0	21.2	+- 0.8; 4.7	18.1	+- 1.1
13	138	2.6	20.6	+- 0.6; 3.1	15.4	+- 0.6; 4.0	15.1	+- 1.2
14	130	4.9	21.6	+- 0.6; 3.2	16.3	+- 0.7; 4.1	16.1	+- 1.2
16	167	4.4	Missing Dosimeter		No Net Data		17.4	+- 1.1
17	171	0.4	24.1	+- 0.7; 3.6	18.5	+- 0.7; 4.4	17.1	+- 1.3
18	189	3.2	24.0	+- 0.7; 3.6	18.5	+- 0.7; 4.4	17.4	+- 1.2
19	205	2.9	22.9	+- 0.7; 3.4	17.5	+- 0.7; 4.2	16.8	+- 1.3
20	195	5.8	20.8	+- 0.6; 3.1	15.6	+- 0.7; 4.0	16.0	+- 1.6
21	235	0.5	26.1	+- 0.8; 3.9	20.4	+- 0.8; 4.6	19.4	+- 1.4
22	230	3.6	20.6	+- 0.6; 3.1	15.4	+- 0.6; 4.0	14.5	+- 1.2
23	257	2.8	22.2	+- 0.7; 3.3	16.8	+- 0.7; 4.2	16.0	+- 1.6
24	243	4.5	23.2	+- 0.7; 3.5	17.7	+- 0.7; 4.3	16.6	+- 1.3
25	279	1.2	27.6	+- 0.8; 4.1	21.7	+- 0.8; 4.7	20.1	+- 1.3
26	263	4.3	23.8	+- 0.7; 3.6	18.3	+- 0.7; 4.3	17.4	+- 1.3
27	298	0.4	25.5	+- 0.8; 3.8	19.8	+- 0.8; 4.5	18.8	+- 1.3
28	293	5.8	22.9	+- 0.7; 3.4	17.5	+- 0.7; 4.2	17.0	+- 1.2
29	326	1.9	25.0	+- 0.7; 3.7	19.3	+- 0.8; 4.5	18.0	+- 1.1
30	308	4.8	23.9	+- 0.7; 3.6	18.4	+- 0.7; 4.3	17.8	+- 1.4
31	345	1.3	26.3	+- 0.8; 3.9	20.6	+- 0.8; 4.6	18.6	+- 1.3
32	335	4.2	21.9	+- 0.7; 3.3	16.6	+- 0.7; 4.2	15.7	+- 1.4
33	110	0.8	25.1	+- 0.8; 3.8	19.5	+- 0.8; 4.5	18.6	+- 1.5
39	112	6.0	24.3	+- 0.7; 3.6	18.7	+- 0.7; 4.4	18.4	+- 1.4
40	147	8.0	24.3	+- 0.7; 3.7	18.8	+- 0.7; 4.4	18.2	+- 1.2
41	106	17.0	23.1	+- 0.7; 3.5	17.6	+- 0.7; 4.3	17.7	+- 1.1
42	310	17.0	21.8	+- 0.7; 3.3	16.5	+- 0.7; 4.1	16.0	+- 1.3
43	105	5.2	23.7	+- 0.7; 3.6	18.2	+- 0.7; 4.3	18.2	+- 1.4
44	315	13.0	23.8	+- 0.7; 3.6	18.3	+- 0.7; 4.3	17.5	+- 1.2
45	47	8.9	21.3	+- 0.6; 3.2	16.0	+- 0.7; 4.1	15.6	+- 1.6
46	115	8.3	24.4	+- 0.7; 3.7	18.8	+- 0.7; 4.4	18.4	+- 1.5
47	208	20.0	24.8	+- 0.7; 3.7	19.2	+- 0.8; 4.4	17.0	+- 1.3
48	179	19.0	25.8	+- 0.8; 3.9	20.1	+- 0.8; 4.5	17.2	+- 1.3
49	150	22.0	24.3	+- 0.7; 3.6	18.7	+- 0.7; 4.4	18.1	+- 1.5

Transit Dose = 3.7 +- 0.4; 3.2

ARKANSAS

For the period 970609-971030

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 +- 0.7	2
11.26 - 33.75 NNE	18.2 +- 1.4	2
33.76 - 56.25 NE	17.2 +- 1.2	3
56.26 - 78.75 ENE	19.9 +- 0.9	2
78.76 - 101.25 E	18.7 +- 0.5	2
101.26 - 123.75 ESE	18.7 +- 1.4	7
123.76 - 146.25 SE	15.8 +- 0.6	2
146.26 - 168.75 SSE	18.8 +- 0.0	1
168.76 - 191.25 S	18.5 +- 0.0	2
191.26 - 213.75 SSW	16.5 +- 1.3	2
213.76 - 236.25 SW	17.9 +- 3.5	2
236.26 - 258.75 WSW	17.3 +- 0.6	2
258.76 - 281.25 W	20.0 +- 2.4	2
281.26 - 303.75 WNW	18.6 +- 1.7	2
303.76 - 326.25 NW	18.1 +- 1.2	4
326.26 - 348.75 NNW	18.6 +- 2.8	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	19.4 +- 1.2	11
2 - 5	17.5 +- 1.3	16
> 5	18.0 +- 1.5	12
Upwind Control	19.4 +- 0.7	3

NRC TLD DOSES FOR ARKANSAS AREA

Miles

Legend

Water
Highways

Railroads
Roads

Plant site

BEAVER VALLEY

TLD Direct Radiation Environmental Monitoring

For the period 970611-971020 132 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	23.1	+- 0.7; 3.5	16.5	+- 0.9; 4.9	16.7	+- 1.2
2	3	13.1	22.9	+- 0.7; 3.4	16.3	+- 0.9; 4.9	17.1	+- 1.4
4	29	11.9	23.7	+- 0.7; 3.6	17.2	+- 0.9; 5.0	19.2	+- 2.4
5	53	8.2	25.0	+- 0.8; 3.8	18.5	+- 0.9; 5.2	18.3	+- 1.3
6	58	9.1	26.1	+- 0.8; 3.9	19.6	+- 0.9; 5.3	19.2	+- 1.2
7	97	8.0	25.8	+- 0.8; 3.9	19.3	+- 0.9; 5.3	19.5	+- 1.3
8	110	4.2	25.0	+- 0.7; 3.7	18.5	+- 0.9; 5.2	18.6	+- 1.4
9	111	1.9	26.2	+- 0.8; 3.9	19.7	+- 1.0; 5.3	19.9	+- 1.3
10	92	2.2	25.7	+- 0.8; 3.8	19.2	+- 0.9; 5.3	19.3	+- 1.2
11	64	3.6	25.9	+- 0.8; 3.9	19.4	+- 0.9; 5.3	19.3	+- 1.5
12	148	4.0	28.0	+- 0.8; 4.2	21.6	+- 1.0; 5.5	20.7	+- 1.3
13	171	4.4	24.7	+- 0.7; 3.7	18.2	+- 0.9; 5.1	18.5	+- 1.2
14	183	4.4	24.3	+- 0.7; 3.6	17.8	+- 0.9; 5.1	18.4	+- 1.3
15	198	3.6	25.3	+- 0.8; 3.8	18.8	+- 0.9; 5.2	18.4	+- 1.4
16	254	5.7	23.8	+- 0.7; 3.6	17.2	+- 0.9; 5.0	18.1	+- 1.0
17	267	6.5	22.3	+- 0.7; 3.3	15.6	+- 0.8; 4.9	17.3	+- 1.5
18	231	2.5	24.4	+- 0.7; 3.7	17.9	+- 0.9; 5.1	18.4	+- 1.3
19	266	2.5	25.9	+- 0.8; 3.9	19.5	+- 0.9; 5.3	19.9	+- 1.4
20	291	3.8	22.8	+- 0.7; 3.4	16.2	+- 0.9; 4.9	16.8	+- 1.7
21	287	1.8	27.6	+- 0.8; 4.1	21.3	+- 1.0; 5.5	20.7	+- 1.3
22	219	1.5	24.5	+- 0.7; 3.7	17.9	+- 0.9; 5.1	17.5	+- 1.2
23	252	2.4	29.0	+- 0.9; 4.4	22.8	+- 1.0; 5.7	21.1	+- 1.8
24	207	2.2	26.8	+- 0.8; 4.0	20.4	+- 1.0; 5.4	19.4	+- 1.3
25	187	2.2	27.0	+- 0.8; 4.0	20.6	+- 1.0; 5.4	19.8	+- 1.3
26	158	2.2	23.4	+- 0.7; 3.5	16.8	+- 0.9; 5.0	18.6	+- 1.6
27	135	1.9	25.5	+- 0.8; 3.8	19.0	+- 0.9; 5.2	19.4	+- 1.6
28	99	1.4	29.1	+- 0.9; 4.4	22.8	+- 1.0; 5.7	20.2	+- 1.3
29	64	1.4	24.7	+- 0.7; 3.7	18.2	+- 0.9; 5.1	18.2	+- 1.3
30	53	1.0	24.9	+- 0.7; 3.7	18.5	+- 0.9; 5.2	18.9	+- 1.3
31	320	1.4	Missing Dosimeter		No Net Data		21.5	+- 1.6
32	320	3.5	23.8	+- 0.7; 3.6	17.2	+- 0.9; 5.0	18.4	+- 1.7
33	335	2.5	25.4	+- 0.8; 3.8	19.0	+- 0.9; 5.2	18.8	+- 1.5
34	340	5.2	21.9	+- 0.7; 3.3	15.3	+- 0.8; 4.8	16.3	+- 2.1
35	4	3.5	25.2	+- 0.8; 3.8	18.7	+- 0.9; 5.2	19.5	+- 1.3
36	23	3.2	27.0	+- 0.8; 4.1	20.7	+- 1.0; 5.4	21.5	+- 1.7
37	42	2.8	21.9	+- 0.7; 3.3	15.3	+- 0.8; 4.8	16.5	+- 1.2
38	27	1.6	23.8	+- 0.7; 3.6	17.3	+- 0.9; 5.0	17.0	+- 1.6
39	348	1.6	25.5	+- 0.8; 3.8	19.1	+- 0.9; 5.2	18.8	+- 1.5
40	340	15.8	23.8	+- 0.7; 3.6	17.3	+- 0.9; 5.0	16.1	+- 1.3
41	340	15.8	23.0	+- 0.7; 3.4	16.4	+- 0.9; 4.9	16.8	+- 1.0

Transit Dose = 7.5 +- 0.4; 3.1

BEAVER VALLEY
For the period 970611-971020

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 +- 1.7	2
11.26 - 33.75 NNE	18.4 +- 2.0	3
33.76 - 56.25 NE	17.4 +- 1.9	3
56.26 - 78.75 ENE	19.1 +- 0.8	3
78.76 - 101.25 E	20.5 +- 2.1	3
101.26 - 123.75 ESE	19.1 +- 0.9	2
123.76 - 146.25 SE	19.0 +- 0.0	1
146.26 - 168.75 SSE	19.2 +- 3.4	2
168.76 - 191.25 S	18.9 +- 1.5	3
191.26 - 213.75 SSW	19.6 +- 1.2	2
213.76 - 236.25 SW	17.9 +- 0.0	2
236.26 - 258.75 WSW	20.0 +- 3.9	2
258.76 - 281.25 W	17.6 +- 2.7	2
281.26 - 303.75 WNW	18.8 +- 3.6	2
303.76 - 326.25 NW	17.2 +- 0.0	1
326.26 - 348.75 NNW	17.8 +- 2.2	3

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	19.3 +- 1.8	9
2 - 5	18.9 +- 1.9	19
> 5	17.4 +- 1.6	8
Upwind Control	16.7 +- 0.5	3

NRC TLD DOSES FOR BEAVER VALLEY AREA

Miles

Legend

Water

Highways

Roads

Plant..site

BIG ROCK

TLD Direct Radiation Environmental Monitoring

For the period 970609-971023 137 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	208	4.9	18.8	+- 0.6; 2.8	12.8	+- 0.7; 4.2	13.2	+- 0.9
2	220	3.6	17.9	+- 0.5; 2.7	11.9	+- 0.7; 4.1	12.1	+- 0.9
3	204	2.4	19.3	+- 0.6; 2.9	13.2	+- 0.7; 4.3	12.3	+- 0.9
4	176	3.3	18.1	+- 0.5; 2.7	12.1	+- 0.7; 4.1	12.2	+- 1.0
5	161	4.6	18.7	+- 0.6; 2.8	12.6	+- 0.7; 4.2	12.4	+- 0.9
6	133	4.7	20.2	+- 0.6; 3.0	14.2	+- 0.7; 4.3	13.8	+- 1.4
7	116	3.7	19.5	+- 0.6; 2.9	13.5	+- 0.7; 4.3	14.4	+- 1.3
8	111	4.7	19.4	+- 0.6; 2.9	13.4	+- 0.7; 4.3	14.0	+- 1.6
9	98	4.5	18.6	+- 0.6; 2.8	12.6	+- 0.7; 4.2	12.7	+- 0.8
10	88	12.0	17.9	+- 0.5; 2.7	11.9	+- 0.7; 4.1	12.1	+- 0.8
11	83	16.0	18.0	+- 0.5; 2.7	12.0	+- 0.7; 4.1	12.1	+- 1.4
12	83	16.0	18.7	+- 0.6; 2.8	12.7	+- 0.7; 4.2	11.9	+- 1.0
13	83	16.0	18.1	+- 0.5; 2.7	12.1	+- 0.7; 4.1	12.2	+- 1.2
14	77	3.4	17.1	+- 0.5; 2.6	11.1	+- 0.7; 4.0	11.6	+- 0.7
15	96	1.8	20.1	+- 0.6; 3.0	14.1	+- 0.7; 4.3	13.4	+- 0.9
16	118	2.0	18.7	+- 0.6; 2.8	12.7	+- 0.7; 4.2	13.2	+- 1.1
17	134	2.0	19.3	+- 0.6; 2.9	13.3	+- 0.7; 4.3	13.1	+- 1.1
18	222	1.9	19.6	+- 0.6; 2.9	13.6	+- 0.7; 4.3	11.8	+- 1.5
19	194	1.4	20.1	+- 0.6; 3.0	14.1	+- 0.7; 4.3	14.4	+- 1.4
20	179	1.5	19.2	+- 0.6; 2.9	13.2	+- 0.7; 4.3	12.7	+- 0.9
21	153	1.1	17.9	+- 0.5; 2.7	11.9	+- 0.7; 4.1	12.4	+- 1.1

Transit Dose = 6.0 +- 0.4; 3.1

BIG ROCK

For the period 970609-971023

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	11.1 +- 0.0	1
78.76 - 101.25 E	12.9 +- 1.1	3
101.26 - 123.75 ESE	13.2 +- 0.4	3
123.76 - 146.25 SE	13.7 +- 0.6	2
146.26 - 168.75 SSE	12.3 +- 0.5	2
168.76 - 191.25 S	12.7 +- 0.8	2
191.26 - 213.75 SSW	13.4 +- 0.7	3
213.76 - 236.25 SW	12.7 +- 1.2	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	13.3 +- 0.8	7
2 - 5	12.7 +- 0.9	10
> 5	11.9 +- 0.0	1
Upwind Control	12.3 +- 0.4	3

NRC TLD DOSES FOR BIG ROCK POINT AREA

BRAIDWOOD

TLD Direct Radiation Environmental Monitoring

For the period 970610-971027 140 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	28	0.8	20.5 +- 0.6; 3.1	16.0 +- 0.7; 4.2	13.6 +- 3.1
2	29	1.3	19.6 +- 0.6; 2.9	15.0 +- 0.7; 4.1	14.7 +- 1.7
3	53	2.0	18.4 +- 0.6; 2.8	13.9 +- 0.6; 4.0	12.2 +- 2.8
4	72	2.1	19.1 +- 0.6; 2.9	14.6 +- 0.7; 4.0	14.9 +- 1.6
5	87	2.0	19.3 +- 0.6; 2.9	14.7 +- 0.7; 4.0	14.4 +- 2.0
6	119	2.5	20.5 +- 0.6; 3.1	15.9 +- 0.7; 4.2	13.5 +- 3.0
7	133	3.3	18.1 +- 0.5; 2.7	13.6 +- 0.6; 3.9	14.8 +- 1.6
8	151	3.3	19.0 +- 0.6; 2.9	14.5 +- 0.6; 4.0	13.9 +- 1.5
9	172	3.9	Damaged Dosimeter	No Net Data	17.8 +- 3.7
10	197	2.8	18.7 +- 0.6; 2.8	14.2 +- 0.6; 4.0	14.8 +- 1.8
11	212	1.4	18.7 +- 0.6; 2.8	14.2 +- 0.6; 4.0	13.7 +- 2.0
12	232	1.0	18.0 +- 0.5; 2.7	13.6 +- 0.6; 3.9	13.3 +- 2.1
13	255	1.0	17.6 +- 0.5; 2.6	13.1 +- 0.6; 3.9	13.8 +- 1.4
14	278	1.2	Missing Dosimeter	No Net Data	14.1 +- 2.3
15	310	1.3	16.3 +- 0.5; 2.4	11.8 +- 0.6; 3.8	14.0 +- 2.3
16	342	1.3	19.3 +- 0.6; 2.9	14.7 +- 0.7; 4.0	12.2 +- 2.6
17	8	1.5	18.3 +- 0.6; 2.8	13.8 +- 0.6; 4.0	14.3 +- 1.8
18	18	3.5	20.9 +- 0.6; 3.1	16.3 +- 0.7; 4.2	17.1 +- 3.1
19	42	6.3	Damaged Dosimeter	No Net Data	13.1 +- 2.2
20	69	5.7	22.3 +- 0.7; 3.4	17.7 +- 0.7; 4.4	15.5 +- 2.3
21	86	7.0	22.0 +- 0.7; 3.3	17.4 +- 0.7; 4.3	16.3 +- 2.3
22	103	11.4	23.5 +- 0.7; 3.5	18.9 +- 0.8; 4.5	15.6 +- 3.2
23	45	4.9	18.8 +- 0.6; 2.8	14.3 +- 0.6; 4.0	14.9 +- 2.2
24	70	4.2	18.5 +- 0.6; 2.8	14.0 +- 0.6; 4.0	14.3 +- 2.0
25	86	4.1	18.5 +- 0.6; 2.8	14.0 +- 0.6; 4.0	12.2 +- 2.6
26	125	5.0	19.3 +- 0.6; 2.9	14.7 +- 0.7; 4.0	12.9 +- 3.0
27	142	7.2	20.8 +- 0.6; 3.1	16.2 +- 0.7; 4.2	16.1 +- 3.0
28	161	6.1	19.1 +- 0.6; 2.9	14.6 +- 0.7; 4.0	14.4 +- 1.8
29	180	5.9	26.8 +- 0.8; 4.0	22.0 +- 0.8; 4.9	18.6 +- 2.9
30	187	5.8	22.7 +- 0.7; 3.4	18.1 +- 0.7; 4.4	19.5 +- 2.2
31	225	5.4	21.9 +- 0.7; 3.3	17.3 +- 0.7; 4.3	17.1 +- 1.8
32	253	4.0	18.4 +- 0.6; 2.8	13.9 +- 0.6; 4.0	14.8 +- 1.9
33	289	4.1	20.2 +- 0.6; 3.0	15.7 +- 0.7; 4.1	16.1 +- 2.5
34	315	4.0	20.7 +- 0.6; 3.1	16.1 +- 0.7; 4.2	15.9 +- 2.0
35	333	4.0	21.9 +- 0.7; 3.3	17.2 +- 0.7; 4.3	15.1 +- 2.6
36	0	5.5	18.1 +- 0.5; 2.7	13.6 +- 0.6; 3.9	14.4 +- 2.2
37	21	5.0	18.6 +- 0.6; 2.8	14.1 +- 0.6; 4.0	12.0 +- 2.9
38	224	14.7	18.4 +- 0.6; 2.8	13.9 +- 0.6; 4.0	13.9 +- 2.5
39	224	14.7	18.3 +- 0.5; 2.7	13.8 +- 0.6; 4.0	13.7 +- 2.0
40	187	10.3	24.1 +- 0.7; 3.6	19.4 +- 0.8; 4.6	18.0 +- 2.4

Transit Dose = 4.0 +- 0.4; 3.0

BRAIDWOOD

For the period 970610-971027

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	13.7 +- 0.1	2
11.26 - 33.75 NNE	15.3 +- 1.0	4
33.76 - 56.25 NE	14.1 +- 0.3	2
56.26 - 78.75 ENE	15.4 +- 2.0	3
78.76 - 101.25 E	15.4 +- 1.8	3
101.26 - 123.75 ESE	17.4 +- 2.1	2
123.76 - 146.25 SE	14.9 +- 1.3	3
146.26 - 168.75 SSE	14.6 +- 0.1	2
168.76 - 191.25 S	20.0 +- 2.8	2
191.26 - 213.75 SSW	14.2 +- 0.0	2
213.76 - 236.25 SW	14.9 +- 2.1	3
236.26 - 258.75 WSW	13.5 +- 0.5	2
258.76 - 281.25 W	No Data +- No Data	0
281.26 - 303.75 WNW	15.7 +- 0.0	1
303.76 - 326.25 NW	14.0 +- 3.0	2
326.26 - 348.75 NNW	16.0 +- 1.8	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	14.1 +- 1.1	10
2 - 5	14.9 +- 1.1	15
> 5	17.0 +- 2.5	10
Upwind Control	16.6 +- 4.0	2

NRC TLD DOSES FOR BRAIDWOOD AREA

Miles

0 2 4

Legend

Water

Highways

--- Railroads

--- Roads

Plant..site

BROWNS FERRY

TLD Direct Radiation Environmental Monitoring

For the period 970610-971020 133 Days

Field Time: 83 Days

NRC Sta	Location		Gross Exposure (mR)			Net Exposure Rate (mR/Std. Qtr.)			Hist. Range	
	Azimuth/Dist (Deg)/(Mi)		+-Rdm; Tot.			+-Rdm; Tot.			Net Exp Rate	+1 Std Dev
1	133	8.8	19.0	+-	0.6; 2.9	18.0	+-	0.7; 4.2	14.4	+- 1.8
2	135	5.4	17.4	+-	0.5; 2.6	16.2	+-	0.6; 4.0	15.7	+- 1.9
3	153	4.3	19.3	+-	0.6; 2.9	18.2	+-	0.7; 4.2	16.6	+- 1.1
4	212	5.9	21.4	+-	0.6; 3.2	20.5	+-	0.8; 4.5	18.1	+- 2.2
5	222	6.2	18.1	+-	0.5; 2.7	16.9	+-	0.7; 4.1	15.3	+- 1.9
6	247	4.5	19.9	+-	0.6; 3.0	18.9	+-	0.7; 4.3	18.6	+- 2.1
7	269	4.7	18.6	+-	0.6; 2.8	17.5	+-	0.7; 4.1	16.4	+- 2.0
8	257	11.1	18.1	+-	0.5; 2.7	16.9	+-	0.7; 4.1	15.8	+- 1.9
9	296	7.0	19.1	+-	0.6; 2.9	18.0	+-	0.7; 4.2	16.4	+- 2.2
10	292	4.5	19.3	+-	0.6; 2.9	18.3	+-	0.7; 4.2	16.6	+- 1.9
11	270	1.9	18.9	+-	0.6; 2.8	17.8	+-	0.7; 4.2	17.0	+- 1.9
12	241	2.7	18.9	+-	0.6; 2.8	17.8	+-	0.7; 4.2	15.8	+- 2.0
13	220	1.7	19.1	+-	0.6; 2.9	18.0	+-	0.7; 4.2	18.8	+- 2.5
14	268	17.0	20.1	+-	0.6; 3.0	19.1	+-	0.7; 4.3	17.1	+- 2.0
15	205	4.0	20.0	+-	0.6; 3.0	19.0	+-	0.7; 4.3	17.4	+- 2.0
16	183	2.8	17.0	+-	0.5; 2.5	15.7	+-	0.6; 4.0	15.4	+- 2.3
17	51	9.5	20.1	+-	0.6; 3.0	19.1	+-	0.7; 4.3	17.7	+- 1.9
18	51	3.4	20.1	+-	0.6; 3.0	19.1	+-	0.7; 4.3	16.1	+- 1.7
19	61	3.0	19.7	+-	0.6; 3.0	18.7	+-	0.7; 4.3	16.5	+- 2.0
20	84	2.7	22.4	+-	0.7; 3.4	21.6	+-	0.8; 4.6	18.9	+- 1.9
21	114	2.9	20.8	+-	0.6; 3.1	19.9	+-	0.7; 4.4	19.4	+- 1.9
22	58	0.9	22.6	+-	0.7; 3.4	21.8	+-	0.8; 4.6	20.2	+- 2.0
23	90	25.0	17.9	+-	0.5; 2.7	16.7	+-	0.7; 4.1	16.4	+- 2.2
24	110	0.6	21.1	+-	0.6; 3.2	20.2	+-	0.8; 4.4	18.1	+- 1.8
25	42	2.1	21.4	+-	0.6; 3.2	20.5	+-	0.8; 4.5	18.0	+- 2.2
26	23	1.7	23.0	+-	0.7; 3.4	22.2	+-	0.8; 4.7	20.1	+- 2.0
27	330	1.9	18.4	+-	0.6; 2.8	17.3	+-	0.7; 4.1	16.5	+- 1.9
28	330	1.0	20.2	+-	0.6; 3.0	19.2	+-	0.7; 4.3	18.5	+- 2.3
29	26	3.7	20.7	+-	0.6; 3.1	19.7	+-	0.7; 4.4	17.8	+- 2.0
30	358	4.0	18.8	+-	0.6; 2.8	17.7	+-	0.7; 4.2	15.5	+- 2.0
31	334	5.6	20.9	+-	0.6; 3.1	19.9	+-	0.7; 4.4	18.6	+- 2.0
32	312	12.0	20.6	+-	0.6; 3.1	19.6	+-	0.7; 4.4	18.0	+- 2.1
33	356	1.5	23.0	+-	0.7; 3.4	22.2	+-	0.8; 4.7	19.6	+- 1.9
34	52	6.5	19.2	+-	0.6; 2.9	18.1	+-	0.7; 4.2	16.4	+- 2.3
35	96	5.2	20.3	+-	0.6; 3.0	19.3	+-	0.7; 4.3	17.3	+- 2.0
36	68	5.5	20.7	+-	0.6; 3.1	19.7	+-	0.7; 4.4	18.3	+- 2.2
37	150	9.5	20.5	+-	0.6; 3.1	19.5	+-	0.7; 4.4	16.9	+- 2.0
38	166	7.0	16.7	+-	0.5; 2.5	15.4	+-	0.6; 3.9	14.2	+- 1.9

Transit Dose = 2.5 +- 0.3; 2.6

BROWNS FERRY

For the period 970610-971020

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	20.0 +- 3.2	2
11.26 - 33.75 NNE	21.0 +- 1.8	2
33.76 - 56.25 NE	19.2 +- 1.0	4
56.26 - 78.75 ENE	20.1 +- 1.6	3
78.76 - 101.25 E	19.2 +- 2.4	3
101.26 - 123.75 ESE	20.0 +- 0.2	2
123.76 - 146.25 SE	17.1 +- 1.2	2
146.26 - 168.75 SSE	17.7 +- 2.1	3
168.76 - 191.25 S	15.7 +- 0.0	1
191.26 - 213.75 SSW	19.7 +- 1.1	2
213.76 - 236.25 SW	17.4 +- 0.8	2
236.26 - 258.75 WSW	18.4 +- 0.8	2
258.76 - 281.25 W	17.6 +- 0.2	2
281.26 - 303.75 WNW	18.1 +- 0.2	2
303.76 - 326.25 NW	19.6 +- 0.0	1
326.26 - 348.75 NNW	18.8 +- 1.4	3

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	19.8 +- 2.1	8
2 - 5	18.8 +- 1.4	14
> 5	18.4 +- 1.6	14
Upwind Control	18.0 +- 1.5	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 970610-971023 136 Days

Field Time: 100 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	260	2.2	15.5	+- 0.5; 2.3	10.3	+- 0.5; 3.6			10.1	+- 1.5
2	245	3.4	13.3	+- 0.4; 2.0	8.4	+- 0.5; 3.4			9.7	+- 1.6
3	231	3.8	12.6	+- 0.4; 1.9	7.7	+- 0.5; 3.4			9.3	+- 1.9
4	210	4.9	15.6	+- 0.5; 2.3	10.4	+- 0.5; 3.6			12.1	+- 1.7
5	186	4.3	15.8	+- 0.5; 2.4	10.7	+- 0.5; 3.6			12.0	+- 1.8
6	270	4.5	14.7	+- 0.4; 2.2	9.6	+- 0.5; 3.5			10.2	+- 1.3
7	272	4.4	12.7	+- 0.4; 1.9	7.8	+- 0.5; 3.4			10.6	+- 1.7
8	73	1.3	15.5	+- 0.5; 2.3	10.4	+- 0.5; 3.6			11.7	+- 1.8
9	97	1.0	14.5	+- 0.4; 2.2	9.5	+- 0.5; 3.5			11.6	+- 1.9
10	120	1.5	16.2	+- 0.5; 2.4	11.0	+- 0.5; 3.6			12.2	+- 1.5
11	131	0.9	15.0	+- 0.4; 2.2	9.9	+- 0.5; 3.5			11.4	+- 1.7
12	156	1.1	15.2	+- 0.5; 2.3	10.1	+- 0.5; 3.6			12.0	+- 1.7
13	180	1.1	15.2	+- 0.5; 2.3	10.1	+- 0.5; 3.6			11.3	+- 1.5
14	194	2.4	14.7	+- 0.4; 2.2	9.6	+- 0.5; 3.5			11.0	+- 1.9
15	201	2.0	14.1	+- 0.4; 2.1	9.1	+- 0.5; 3.5			10.4	+- 1.5
16	218	1.2	12.8	+- 0.4; 1.9	7.9	+- 0.5; 3.4			11.1	+- 2.4
17	252	1.1	15.1	+- 0.5; 2.3	10.0	+- 0.5; 3.5			11.5	+- 1.6
18	272	1.2	14.6	+- 0.4; 2.2	9.6	+- 0.5; 3.5			11.0	+- 2.0
19	19	1.1	14.2	+- 0.4; 2.1	9.2	+- 0.5; 3.5			10.5	+- 1.5
20	2	1.1	14.6	+- 0.4; 2.2	9.6	+- 0.5; 3.5			10.2	+- 1.8
21	288	1.3	12.9	+- 0.4; 1.9	8.1	+- 0.5; 3.4			9.9	+- 1.9
22	307	1.5	14.8	+- 0.4; 2.2	9.8	+- 0.5; 3.5			10.5	+- 1.4
23	338	2.1	15.4	+- 0.5; 2.3	10.3	+- 0.5; 3.6			11.1	+- 1.5
24	325	4.9	14.1	+- 0.4; 2.1	9.1	+- 0.5; 3.5			10.1	+- 1.5
25	338	3.8	14.5	+- 0.4; 2.2	9.5	+- 0.5; 3.5			11.2	+- 1.5
26	356	5.2	13.9	+- 0.4; 2.1	9.0	+- 0.5; 3.5			10.4	+- 1.7
27	30	6.4	12.7	+- 0.4; 1.9	7.8	+- 0.5; 3.4			10.4	+- 1.5
28	43	9.0	15.4	+- 0.5; 2.3	10.3	+- 0.5; 3.6			11.5	+- 2.2
29	50	8.5	15.3	+- 0.5; 2.3	10.2	+- 0.5; 3.6			10.9	+- 1.9
30	59	7.2	14.4	+- 0.4; 2.2	9.4	+- 0.5; 3.5			11.1	+- 1.8
31	65	6.5	13.3	+- 0.4; 2.0	8.4	+- 0.5; 3.4			11.1	+- 1.6
32	74	5.8	15.7	+- 0.5; 2.4	10.5	+- 0.5; 3.6			11.7	+- 2.0
33	88	4.1	14.2	+- 0.4; 2.1	9.2	+- 0.5; 3.5			10.3	+- 1.9
34	12	17.0	15.6	+- 0.5; 2.3	10.5	+- 0.5; 3.6			11.7	+- 1.6
35	16	18.0	14.6	+- 0.4; 2.2	9.6	+- 0.5; 3.5			10.4	+- 1.6
36	284	15.0	14.8	+- 0.4; 2.2	9.7	+- 0.5; 3.5			11.5	+- 2.3
37	284	16.0	13.6	+- 0.4; 2.0	8.6	+- 0.5; 3.4			11.7	+- 2.5
38	284	15.0	15.9	+- 0.5; 2.4	10.7	+- 0.5; 3.6			11.3	+- 1.8
39	287	4.6	15.7	+- 0.5; 2.4	10.6	+- 0.5; 3.6			10.7	+- 1.4
40	271	0.7	16.8	+- 0.5; 2.5	11.6	+- 0.6; 3.7			12.7	+- 1.7

Transit Dose = 4.0 +- 0.4; 3.2

BRUNSWICK

For the period 970610-971023

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	9.3 +- 0.4	2
11.26 - 33.75 NNE	9.3 +- 1.1	4
33.76 - 56.25 NE	10.3 +- 0.0	2
56.26 - 78.75 ENE	9.7 +- 1.0	4
78.76 - 101.25 E	9.4 +- 0.2	2
101.26 - 123.75 ESE	11.0 +- 0.0	1
123.76 - 146.25 SE	9.9 +- 0.0	1
146.26 - 168.75 SSE	10.1 +- 0.0	1
168.76 - 191.25 S	10.4 +- 0.4	2
191.26 - 213.75 SSW	9.7 +- 0.7	3
213.76 - 236.25 SW	7.8 +- 0.1	2
236.26 - 258.75 WSW	9.2 +- 1.1	2
258.76 - 281.25 W	9.8 +- 1.3	5
281.26 - 303.75 WNW	9.3 +- 1.8	2
303.76 - 326.25 NW	9.5 +- 0.4	2
326.26 - 348.75 NNW	9.9 +- 0.6	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	9.7 +- 1.0	15
2 - 5	9.5 +- 1.0	13
> 5	9.5 +- 1.0	9
Upwind Control	9.7 +- 1.0	3

NRC TLD DOSES FOR BRUNSWICK AREA

Miles

0 2 4

Legend

Water

Highways

Railroads Roads

Plant site

BYRON

TLD Direct Radiation Environmental Monitoring

For the period 970610-971027 140 Days

Field Time: 93 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	10	1.1	22.1 +- 0.7; 3.3		17.4 +- 0.7; 4.3		19.0 +- 1.9	
2	27	1.0	22.1 +- 0.7; 3.3		17.4 +- 0.7; 4.4		18.6 +- 1.7	
3	53	1.6	22.2 +- 0.7; 3.3		17.4 +- 0.7; 4.4		17.5 +- 1.6	
4	68	1.6	Damaged Dosimeter		No Net Data		20.0 +- 2.1	
5	97	1.4	23.7 +- 0.7; 3.6		18.9 +- 0.8; 4.5		20.9 +- 2.0	
6	120	1.3	23.3 +- 0.7; 3.5		18.5 +- 0.8; 4.5		19.2 +- 1.7	
7	146	1.4	23.2 +- 0.7; 3.5		18.5 +- 0.8; 4.5		20.0 +- 2.3	
8	175	2.2	22.1 +- 0.7; 3.3		17.3 +- 0.7; 4.3		18.6 +- 1.5	
9	177	0.6	20.2 +- 0.6; 3.0		15.5 +- 0.7; 4.1		16.2 +- 1.5	
10	183	0.5	20.4 +- 0.6; 3.1		15.7 +- 0.7; 4.2		18.7 +- 2.2	
11	193	0.6	20.9 +- 0.6; 3.1		16.2 +- 0.7; 4.2		17.8 +- 2.1	
12	220	0.9	22.4 +- 0.7; 3.4		17.6 +- 0.7; 4.4		18.4 +- 1.5	
13	239	0.8	21.2 +- 0.6; 3.2		16.5 +- 0.7; 4.3		17.6 +- 1.4	
14	262	0.7	22.0 +- 0.7; 3.3		17.2 +- 0.7; 4.3		19.3 +- 1.8	
15	283	0.8	21.1 +- 0.6; 3.2		16.4 +- 0.7; 4.2		18.3 +- 2.0	
16	303	1.0	22.0 +- 0.7; 3.3		17.3 +- 0.7; 4.3		17.0 +- 1.5	
17	326	1.6	19.1 +- 0.6; 2.9		14.4 +- 0.7; 4.0		16.4 +- 1.8	
18	23	4.0	20.1 +- 0.6; 3.0		15.4 +- 0.7; 4.1		15.7 +- 1.3	
19	17	4.1	17.9 +- 0.5; 2.7		13.3 +- 0.6; 3.9		14.6 +- 1.5	
20	5	4.3	21.4 +- 0.6; 3.2		16.7 +- 0.7; 4.3		17.3 +- 1.3	
21	340	4.2	21.6 +- 0.6; 3.2		16.8 +- 0.7; 4.3		18.3 +- 2.0	
22	322	4.9	21.2 +- 0.6; 3.2		16.5 +- 0.7; 4.3		18.9 +- 2.4	
23	298	6.9	19.5 +- 0.6; 2.9		14.9 +- 0.7; 4.1		16.0 +- 1.2	
24	262	4.8	20.3 +- 0.6; 3.0		15.6 +- 0.7; 4.2		15.7 +- 1.3	
25	244	4.6	20.2 +- 0.6; 3.0		15.6 +- 0.7; 4.2		16.0 +- 1.4	
26	224	4.8	19.6 +- 0.6; 2.9		14.9 +- 0.7; 4.1		16.1 +- 1.7	
27	208	5.2	19.8 +- 0.6; 3.0		15.1 +- 0.7; 4.1		14.8 +- 1.2	
28	209	14.0	19.6 +- 0.6; 2.9		14.9 +- 0.7; 4.1		14.5 +- 1.2	
29	215	13.0	22.5 +- 0.7; 3.4		17.7 +- 0.7; 4.4		17.5 +- 1.5	
30	215	13.0	23.8 +- 0.7; 3.6		19.0 +- 0.8; 4.5		18.3 +- 1.6	
31	204	4.6	18.4 +- 0.6; 2.8		13.8 +- 0.6; 4.0		13.6 +- 1.2	
32	178	4.4	21.3 +- 0.6; 3.2		16.6 +- 0.7; 4.3		15.9 +- 1.2	
33	155	3.9	21.3 +- 0.6; 3.2		16.6 +- 0.7; 4.3		17.6 +- 1.5	
34	138	4.6	22.6 +- 0.7; 3.4		17.9 +- 0.7; 4.4		17.8 +- 1.5	
35	118	4.4	23.3 +- 0.7; 3.5		18.6 +- 0.8; 4.5		18.6 +- 1.9	
36	81	3.8	22.5 +- 0.7; 3.4		17.8 +- 0.7; 4.4		17.1 +- 1.7	
37	70	5.5	19.6 +- 0.6; 2.9		14.9 +- 0.7; 4.1		16.6 +- 2.0	
38	45	4.0	20.2 +- 0.6; 3.0		15.5 +- 0.7; 4.2		15.1 +- 1.4	
39	40	6.8	22.3 +- 0.7; 3.3		17.5 +- 0.7; 4.4		18.2 +- 1.3	
40	45	15.0	18.3 +- 0.5; 2.7		13.7 +- 0.6; 4.0		14.5 +- 1.2	
41	220	3.0	22.6 +- 0.7; 3.4		17.8 +- 0.7; 4.4		19.7 +- 2.1	

Transit Dose = 4.2 +- 0.4; 3.0

BYRON

For the period 970610-971027

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 +- 0.4	2
348.76 - 11.25 N	17.0 +- 0.4	4
11.26 - 33.75 NNE	15.4 +- 2.1	3
33.76 - 56.25 NE	16.0 +- 1.8	4
56.26 - 78.75 ENE	14.9 +- 0.0	1
78.76 - 101.25 E	18.3 +- 0.8	2
101.26 - 123.75 ESE	18.5 +- 0.0	2
123.76 - 146.25 SE	18.2 +- 0.4	2
146.26 - 168.75 SSE	16.6 +- 0.0	1
168.76 - 191.25 S	16.3 +- 0.9	4
191.26 - 213.75 SSW	15.0 +- 1.2	3
213.76 - 236.25 SW	16.8 +- 1.6	3
236.26 - 258.75 WSW	16.0 +- 0.6	2
258.76 - 281.25 W	16.4 +- 1.1	2
281.26 - 303.75 WNW	16.2 +- 1.2	3
303.76 - 326.25 NW	15.5 +- 1.5	2
326.26 - 348.75 NNW	16.8 +- 0.0	1

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	17.0 +- 1.2	15
2 - 5	16.3 +- 1.5	17
> 5	15.2 +- 1.4	5
Upwind Control	17.2 +- 2.1	3

NRC TLD DOSES FOR BYRON AREA

Miles

Legend

Water

Highways

Railroads

Roads

Plant..site

CALLAWAY

TLD Direct Radiation Environmental Monitoring

For the period 970610-971030 143 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	247	2.1	23.4 +- 0.7; 3.5	19.9 +- 0.9; 5.0	20.9 +- 2.4
2	259	1.4	23.3 +- 0.7; 3.5	19.8 +- 0.9; 5.0	19.7 +- 1.7
3	282	1.3	23.7 +- 0.7; 3.6	20.3 +- 0.9; 5.0	19.4 +- 1.6
4	304	1.3	23.4 +- 0.7; 3.5	19.9 +- 0.9; 5.0	20.4 +- 2.4
5	330	1.7	23.3 +- 0.7; 3.5	19.8 +- 0.9; 5.0	17.9 +- 1.9
6	1	1.7	21.6 +- 0.6; 3.2	17.9 +- 0.8; 4.8	17.1 +- 0.8
7	23	2.0	22.4 +- 0.7; 3.4	18.7 +- 0.8; 4.9	17.0 +- 0.9
8	77	0.7	22.0 +- 0.7; 3.3	18.4 +- 0.8; 4.8	17.8 +- 0.7
9	85	1.4	24.9 +- 0.7; 3.7	21.6 +- 0.9; 5.2	18.7 +- 1.0
10	98	1.5	22.8 +- 0.7; 3.4	19.3 +- 0.9; 4.9	17.3 +- 0.9
11	121	2.0	22.9 +- 0.7; 3.4	19.4 +- 0.9; 4.9	18.7 +- 2.5
12	140	2.0	21.5 +- 0.6; 3.2	17.8 +- 0.8; 4.8	18.5 +- 1.8
13	158	2.5	22.5 +- 0.7; 3.4	18.9 +- 0.9; 4.9	17.7 +- 1.0
14	183	3.7	22.3 +- 0.7; 3.3	18.7 +- 0.8; 4.9	18.4 +- 2.0
15	188	1.7	25.2 +- 0.8; 3.8	21.9 +- 0.9; 5.2	18.6 +- 1.1
16	202	0.7	22.7 +- 0.7; 3.4	19.1 +- 0.9; 4.9	17.4 +- 1.1
17	237	0.7	23.0 +- 0.7; 3.4	19.4 +- 0.9; 4.9	19.3 +- 1.5
18	312	11.0	Missing Dosimeter	No Net Data	18.0 +- 1.8
19	292	10.0	Missing Dosimeter	No Net Data	17.6 +- 1.0
20	268	9.0	22.3 +- 0.7; 3.4	18.7 +- 0.8; 4.9	17.8 +- 1.0
21	247	8.0	23.1 +- 0.7; 3.5	19.6 +- 0.9; 5.0	20.2 +- 2.0
22	225	8.0	23.0 +- 0.7; 3.5	19.5 +- 0.9; 5.0	17.7 +- 0.9
23	220	8.0	25.2 +- 0.8; 3.8	21.9 +- 0.9; 5.2	19.0 +- 1.9
24	205	5.5	Missing Dosimeter	No Net Data	16.3 +- 2.1
25	157	4.0	23.3 +- 0.7; 3.5	19.8 +- 0.9; 5.0	20.5 +- 2.2
26	134	5.0	21.7 +- 0.6; 3.2	18.0 +- 0.8; 4.8	16.0 +- 1.1
27	115	4.2	24.1 +- 0.7; 3.6	20.7 +- 0.9; 5.1	21.0 +- 2.1
28	95	3.5	25.5 +- 0.8; 3.8	22.2 +- 0.9; 5.3	20.7 +- 2.0
29	67	3.4	23.9 +- 0.7; 3.6	20.4 +- 0.9; 5.1	19.5 +- 1.0
30	48	4.5	Missing Dosimeter	No Net Data	16.7 +- 0.8
31	14	6.5	23.2 +- 0.7; 3.5	19.7 +- 0.9; 5.0	18.8 +- 0.9
32	2	5.1	23.9 +- 0.7; 3.6	20.4 +- 0.9; 5.1	18.6 +- 1.0
33	335	3.6	21.3 +- 0.6; 3.2	17.5 +- 0.8; 4.7	16.1 +- 1.1
34	288	4.3	23.6 +- 0.7; 3.5	20.2 +- 0.9; 5.0	18.8 +- 0.9
35	310	5.2	24.7 +- 0.7; 3.7	21.3 +- 0.9; 5.2	18.8 +- 0.9
36	264	3.2	19.5 +- 0.6; 2.9	15.5 +- 0.8; 4.5	14.3 +- 1.3
37	237	3.0	24.7 +- 0.7; 3.7	21.4 +- 0.9; 5.2	20.0 +- 1.4
38	270	15.0	21.5 +- 0.6; 3.2	17.8 +- 0.8; 4.8	16.9 +- 1.8
39	270	15.0	21.2 +- 0.6; 3.2	17.5 +- 0.8; 4.7	17.3 +- 2.7
40	203	20.0	23.5 +- 0.7; 3.5	20.0 +- 0.9; 5.0	18.4 +- 0.8

Transit Dose = 5.5 +- 0.4; 2.8

CALLAWAY

For the period 970610-971030

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 +- 1.8	2
11.26 - 33.75 NNE	19.2 +- 0.7	2
33.76 - 56.25 NE	No Data +- No Data	0
56.26 - 78.75 ENE	19.4 +- 1.4	2
78.76 - 101.25 E	21.0 +- 1.6	3
101.26 - 123.75 ESE	20.0 +- 0.9	2
123.76 - 146.25 SE	17.9 +- 0.1	2
146.26 - 168.75 SSE	19.4 +- 0.6	2
168.76 - 191.25 S	20.3 +- 2.2	2
191.26 - 213.75 SSW	19.1 +- 0.0	1
213.76 - 236.25 SW	20.7 +- 1.7	2
236.26 - 258.75 WSW	20.1 +- 0.9	4
258.76 - 281.25 W	18.0 +- 2.2	3
281.26 - 303.75 WNW	20.2 +- 0.1	2
303.76 - 326.25 NW	20.6 +- 1.1	2
326.26 - 348.75 NNW	18.7 +- 1.6	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	19.5 +- 1.2	14
2 - 5	19.4 +- 1.8	12
> 5	20.2 +- 1.1	7
Upwind Control	18.4 +- 1.4	3

NRC TLD DOSES FOR CALLAWAY AREA

Miles

Legend

Water

Highways

Railroads

Roads

Plant..site

CALVERT CLIFFS

TLD Direct Radiation Environmental Monitoring

For the period 970611-971022 134 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	275	1.5	14.5	+- 0.4; 2.2	13.0	+- 0.5; 3.6	13.7	+- 1.9
3	284	1.7	14.4	+- 0.4; 2.2	13.0	+- 0.5; 3.6	13.7	+- 1.8
4	323	2.4	16.5	+- 0.5; 2.5	15.2	+- 0.6; 3.8	13.6	+- 1.2
5	297	3.1	15.7	+- 0.5; 2.4	14.3	+- 0.6; 3.7	14.2	+- 1.8
6	324	4.7	15.6	+- 0.5; 2.3	14.2	+- 0.6; 3.7	14.3	+- 1.9
7	324	5.5	16.3	+- 0.5; 2.4	15.0	+- 0.6; 3.8	13.1	+- 1.5
8	256	6.1	13.7	+- 0.4; 2.1	12.2	+- 0.5; 3.5	12.6	+- 2.0
9	273	4.1	15.4	+- 0.5; 2.3	14.0	+- 0.6; 3.7	13.1	+- 1.4
10	253	3.7	16.0	+- 0.5; 2.4	14.7	+- 0.6; 3.8	14.9	+- 1.7
11	230	4.0	16.4	+- 0.5; 2.5	15.1	+- 0.6; 3.8	14.8	+- 1.2
12	243	1.3	17.2	+- 0.5; 2.6	15.9	+- 0.6; 3.9	14.3	+- 1.2
13	222	1.5	16.0	+- 0.5; 2.4	14.7	+- 0.6; 3.8	15.4	+- 1.9
14	208	1.8	14.7	+- 0.4; 2.2	13.3	+- 0.6; 3.6	12.3	+- 1.3
15	176	2.4	18.7	+- 0.6; 2.8	17.5	+- 0.7; 4.1	17.0	+- 1.9
16	160	1.5	17.9	+- 0.5; 2.7	16.7	+- 0.6; 4.0	16.1	+- 1.4
19	159	3.8	16.9	+- 0.5; 2.5	15.6	+- 0.6; 3.9	14.2	+- 1.3
20	139	4.7	13.6	+- 0.4; 2.0	12.1	+- 0.5; 3.5	13.0	+- 1.9
21	201	4.0	15.5	+- 0.5; 2.3	14.1	+- 0.6; 3.7	13.8	+- 1.3
22	187	4.7	15.4	+- 0.5; 2.3	14.0	+- 0.6; 3.7	13.1	+- 0.9
23	201	8.7	16.6	+- 0.5; 2.5	15.3	+- 0.6; 3.8	14.2	+- 1.3
24	190	7.8	15.5	+- 0.5; 2.3	14.1	+- 0.6; 3.7	12.4	+- 1.1
25	325	6.7	16.6	+- 0.5; 2.5	15.3	+- 0.6; 3.8	13.6	+- 1.2
26	314	11.0	15.9	+- 0.5; 2.4	14.6	+- 0.6; 3.8	13.0	+- 1.2
27	314	11.0	15.0	+- 0.5; 2.3	13.6	+- 0.6; 3.7	12.9	+- 1.1
28	315	10.0	16.3	+- 0.5; 2.4	15.0	+- 0.6; 3.8	15.2	+- 1.7
29	186	12.0	20.3	+- 0.6; 3.0	19.2	+- 0.7; 4.3	15.8	+- 1.4

Transit Dose = 2.2 +- 0.3; 2.6

CALVERT CLIFFS
For the period 970611-971022

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	12.1 +- 0.0	1
146.26 - 168.75 SSE	16.2 +- 0.7	2
168.76 - 191.25 S	16.2 +- 2.6	4
191.26 - 213.75 SSW	14.2 +- 1.0	3
213.76 - 236.25 SW	14.9 +- 0.3	2
236.26 - 258.75 WSW	14.2 +- 1.9	3
258.76 - 281.25 W	13.5 +- 0.7	2
281.26 - 303.75 WNW	13.6 +- 0.9	2
303.76 - 326.25 NW	14.9 +- 0.5	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	14.4 +- 1.6	6
2 - 5	14.6 +- 1.3	11
> 5	15.2 +- 2.3	6
Upwind Control	14.4 +- 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 970611-971021 133 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	134 0.1	25.6 +- 0.8; 3.8	19.6 +- 0.8; 4.8	19.3 +- 1.8
2	162 0.4	24.0 +- 0.7; 3.6	18.0 +- 0.8; 4.6	15.9 +- 2.1
3	132 0.8	24.8 +- 0.7; 3.7	18.8 +- 0.8; 4.7	18.6 +- 1.8
4	111 1.3	24.4 +- 0.7; 3.7	18.4 +- 0.8; 4.7	16.1 +- 1.5
5	45 0.7	22.4 +- 0.7; 3.4	16.5 +- 0.8; 4.5	15.8 +- 1.8
6	298 1.3	24.2 +- 0.7; 3.6	18.2 +- 0.8; 4.6	17.7 +- 1.8
7	4 0.6	21.7 +- 0.7; 3.3	15.8 +- 0.7; 4.4	15.3 +- 2.0
8	332 1.5	26.5 +- 0.8; 4.0	20.4 +- 0.9; 4.9	19.0 +- 2.0
9	318 1.6	19.7 +- 0.6; 3.0	13.9 +- 0.7; 4.2	12.6 +- 2.2
10	176 1.8	22.5 +- 0.7; 3.4	16.6 +- 0.8; 4.5	16.5 +- 2.3
11	203 1.5	22.2 +- 0.7; 3.3	16.2 +- 0.7; 4.4	16.7 +- 1.8
12	225 1.5	23.4 +- 0.7; 3.5	17.4 +- 0.8; 4.6	16.7 +- 2.6
13	250 1.9	21.8 +- 0.7; 3.3	15.8 +- 0.7; 4.4	14.6 +- 2.3
14	270 1.4	18.5 +- 0.6; 2.8	12.7 +- 0.7; 4.1	12.5 +- 2.0
15	331 3.0	20.9 +- 0.6; 3.1	15.0 +- 0.7; 4.3	14.2 +- 1.9
16	311 3.9	19.3 +- 0.6; 2.9	13.4 +- 0.7; 4.1	13.4 +- 2.1
17	296 9.5	24.1 +- 0.7; 3.6	18.1 +- 0.8; 4.6	18.0 +- 2.1
18	324 4.8	21.6 +- 0.6; 3.2	15.7 +- 0.7; 4.4	15.0 +- 2.6
19	352 4.8	19.1 +- 0.6; 2.9	13.3 +- 0.7; 4.1	13.2 +- 2.0
20	22 4.0	Missing Dosimeter	No Net Data	16.8 +- 2.0
21	290 3.9	21.4 +- 0.6; 3.2	15.4 +- 0.7; 4.3	15.1 +- 1.6
22	266 4.0	22.8 +- 0.7; 3.4	16.9 +- 0.8; 4.5	16.1 +- 2.1
23	251 4.0	18.5 +- 0.6; 2.8	12.7 +- 0.7; 4.1	11.7 +- 2.1
24	229 3.9	18.8 +- 0.6; 2.8	12.9 +- 0.7; 4.1	12.4 +- 1.9
25	202 4.4	22.3 +- 0.7; 3.4	16.4 +- 0.8; 4.5	17.2 +- 1.5
26	51 4.3	25.1 +- 0.8; 3.8	19.1 +- 0.8; 4.8	18.2 +- 1.4
27	64 7.9	19.2 +- 0.6; 2.9	13.3 +- 0.7; 4.1	12.2 +- 1.7
28	61 4.9	21.7 +- 0.7; 3.3	15.8 +- 0.7; 4.4	15.6 +- 1.9
29	49 1.9	21.1 +- 0.6; 3.2	15.2 +- 0.7; 4.3	14.7 +- 2.7
30	64 1.8	20.6 +- 0.6; 3.1	14.7 +- 0.7; 4.3	14.9 +- 1.6
31	87 1.6	Missing Dosimeter	No Net Data	14.5 +- 1.8
32	121 2.6	22.0 +- 0.7; 3.3	16.1 +- 0.7; 4.4	15.5 +- 1.6
33	114 7.6	20.4 +- 0.6; 3.1	14.5 +- 0.7; 4.2	14.1 +- 2.4
34	93 4.5	24.6 +- 0.7; 3.7	18.6 +- 0.8; 4.7	17.4 +- 2.2
35	132 4.3	23.7 +- 0.7; 3.5	17.7 +- 0.8; 4.6	20.7 +- 1.5
36	163 8.9	17.4 +- 0.5; 2.6	11.6 +- 0.6; 4.0	12.7 +- 1.7
37	173 4.9	18.6 +- 0.6; 2.8	12.8 +- 0.7; 4.1	13.9 +- 1.2
38	157 4.6	22.8 +- 0.7; 3.4	16.9 +- 0.8; 4.5	18.3 +- 0.9
39	248 10.0	24.2 +- 0.7; 3.6	18.2 +- 0.8; 4.7	16.2 +- 2.7
40	229 12.0	19.2 +- 0.6; 2.9	13.4 +- 0.7; 4.1	15.3 +- 1.1
41	218 13.0	18.9 +- 0.6; 2.8	13.1 +- 0.7; 4.1	12.6 +- 2.8
42	213 16.0	19.9 +- 0.6; 3.0	14.0 +- 0.7; 4.2	15.4 +- 1.4

Transit Dose = 5.4 +- 0.4; 3.1

CATAWBA

For the period 970611-971021

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 +- 1.8	2
11.26 - 33.75 NNE	No Data +- No Data	0
33.76 - 56.25 NE	16.9 +- 2.0	3
56.26 - 78.75 ENE	14.6 +- 1.2	3
78.76 - 101.25 E	18.6 +- 0.0	1
101.26 - 123.75 ESE	16.3 +- 1.9	3
123.76 - 146.25 SE	18.7 +- 0.9	3
146.26 - 168.75 SSE	15.5 +- 3.4	3
168.76 - 191.25 S	14.7 +- 2.7	2
191.26 - 213.75 SSW	16.3 +- 0.1	2
213.76 - 236.25 SW	15.2 +- 3.2	2
236.26 - 258.75 WSW	15.6 +- 2.8	3
258.76 - 281.25 W	14.8 +- 3.0	2
281.26 - 303.75 WNW	17.3 +- 1.6	3
303.76 - 326.25 NW	14.3 +- 1.2	3
326.26 - 348.75 NNW	17.7 +- 3.8	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	16.8 +- 2.1	16
2 - 5	15.5 +- 2.1	16
> 5	15.2 +- 2.9	5
Upwind Control	13.5 +- 0.5	3

NRC TLD DOSES FOR CATAWBA AREA

Miles

0 2 4

Legend

Water

--- Railroads

Plant site

Highways

--- Roads

CLINTON

TLD Direct Radiation Environmental Monitoring

For the period 970610-971027 140 Days

Field Time: 86 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	5	0.6	22.4 +- 0.7; 3.4		17.2 +- 0.8; 4.7		18.9 +- 2.3	
2	40	0.7	23.4 +- 0.7; 3.5		18.3 +- 0.8; 4.8		18.8 +- 1.2	
3	35	0.8	26.2 +- 0.8; 3.9		21.2 +- 0.9; 5.2		21.4 +- 1.7	
4	163	0.5	22.1 +- 0.7; 3.3		16.9 +- 0.8; 4.7		19.1 +- 1.5	
5	210	0.5	24.5 +- 0.7; 3.7		19.4 +- 0.9; 5.0		19.4 +- 1.5	
6	223	0.6	24.4 +- 0.7; 3.7		19.3 +- 0.9; 5.0		19.3 +- 1.4	
7	235	0.8	23.6 +- 0.7; 3.5		18.5 +- 0.8; 4.9		18.9 +- 1.3	
8	62	1.9	22.4 +- 0.7; 3.4		17.2 +- 0.8; 4.7		18.4 +- 1.4	
9	78	1.8	22.9 +- 0.7; 3.4		17.8 +- 0.8; 4.8		18.3 +- 1.3	
10	79	2.6	21.5 +- 0.6; 3.2		16.3 +- 0.8; 4.6		18.5 +- 1.8	
11	100	2.3	24.1 +- 0.7; 3.6		19.1 +- 0.9; 4.9		18.7 +- 1.3	
12	115	3.0	21.8 +- 0.7; 3.3		16.6 +- 0.8; 4.6		16.9 +- 2.1	
13	127	3.2	23.4 +- 0.7; 3.5		18.2 +- 0.8; 4.8		18.6 +- 1.4	
14	155	2.1	24.2 +- 0.7; 3.6		19.1 +- 0.9; 4.9		19.0 +- 1.3	
15	185	3.0	22.3 +- 0.7; 3.3		17.2 +- 0.8; 4.7		18.6 +- 1.9	
16	203	3.2	22.9 +- 0.7; 3.4		17.7 +- 0.8; 4.8		17.7 +- 1.4	
17	230	3.7	23.1 +- 0.7; 3.5		17.9 +- 0.8; 4.8		18.5 +- 1.6	
18	255	2.8	23.6 +- 0.7; 3.5		18.5 +- 0.8; 4.9		19.1 +- 1.3	
19	275	2.3	22.8 +- 0.7; 3.4		17.7 +- 0.8; 4.8		18.6 +- 1.2	
20	302	0.9	23.5 +- 0.7; 3.5		18.3 +- 0.8; 4.8		18.2 +- 1.3	
21	336	0.8	22.6 +- 0.7; 3.4		17.5 +- 0.8; 4.7		18.0 +- 1.3	
22	0	0.6	21.8 +- 0.7; 3.3		16.7 +- 0.8; 4.6		18.3 +- 1.4	
23	358	4.6	22.1 +- 0.7; 3.3		16.9 +- 0.8; 4.7		19.2 +- 1.5	
24	20	3.9	22.7 +- 0.7; 3.4		17.6 +- 0.8; 4.8		18.3 +- 1.3	
25	46	5.0	24.2 +- 0.7; 3.6		19.1 +- 0.9; 4.9		19.0 +- 1.1	
26	62	5.5	21.8 +- 0.7; 3.3		16.7 +- 0.8; 4.6		16.9 +- 1.1	
27	90	4.8	23.0 +- 0.7; 3.5		17.9 +- 0.8; 4.8		17.8 +- 1.5	
28	115	5.2	21.8 +- 0.7; 3.3		16.6 +- 0.8; 4.6		17.5 +- 1.1	
29	128	5.1	22.6 +- 0.7; 3.4		17.5 +- 0.8; 4.7		18.1 +- 1.3	
30	153	5.8	22.4 +- 0.7; 3.4		17.2 +- 0.8; 4.7		18.6 +- 1.5	
31	173	5.2	22.5 +- 0.7; 3.4		17.3 +- 0.8; 4.7		18.0 +- 1.3	
32	205	4.7	23.4 +- 0.7; 3.5		18.2 +- 0.8; 4.8		18.2 +- 1.4	
33	238	6.1	22.8 +- 0.7; 3.4		17.7 +- 0.8; 4.8		18.3 +- 1.4	
34	252	5.8	21.3 +- 0.6; 3.2		16.1 +- 0.8; 4.6		17.5 +- 2.0	
35	260	6.6	18.7 +- 0.6; 2.8		13.4 +- 0.7; 4.3		14.8 +- 1.4	
36	272	4.8	23.3 +- 0.7; 3.5		18.2 +- 0.8; 4.8		18.5 +- 1.4	
37	288	4.8	21.9 +- 0.7; 3.3		16.7 +- 0.8; 4.7		17.5 +- 1.4	
38	297	7.6	20.3 +- 0.6; 3.0		15.0 +- 0.8; 4.5		16.2 +- 1.3	
39	315	5.1	22.1 +- 0.7; 3.3		17.0 +- 0.8; 4.7		18.4 +- 1.7	
40	342	4.8	22.8 +- 0.7; 3.4		17.7 +- 0.8; 4.8		18.3 +- 1.3	
41	65	12.0	21.1 +- 0.6; 3.2		15.9 +- 0.8; 4.6		17.6 +- 1.9	
42	148	12.0	26.4 +- 0.8; 4.0		21.4 +- 0.9; 5.2		19.0 +- 2.5	
43	148	12.0	27.1 +- 0.8; 4.1		22.2 +- 0.9; 5.3		19.4 +- 2.2	
44	206	14.0	20.9 +- 0.6; 3.1		15.7 +- 0.8; 4.5		15.8 +- 1.3	

Transit Dose = 5.9 +- 0.4; 3.0

CLINTON

For the period 970610-971027

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	16.9 +- 0.3	3
11.26 - 33.75 NNE	17.6 +- 0.0	1
33.76 - 56.25 NE	19.5 +- 1.5	3
56.26 - 78.75 ENE	16.9 +- 0.8	4
78.76 - 101.25 E	17.8 +- 1.4	3
101.26 - 123.75 ESE	16.6 +- 0.0	2
123.76 - 146.25 SE	17.8 +- 0.6	2
146.26 - 168.75 SSE	17.7 +- 1.2	3
168.76 - 191.25 S	17.2 +- 0.1	2
191.26 - 213.75 SSW	18.5 +- 0.9	3
213.76 - 236.25 SW	18.6 +- 0.7	3
236.26 - 258.75 WSW	17.4 +- 1.2	3
258.76 - 281.25 W	16.4 +- 2.6	3
281.26 - 303.75 WNW	16.7 +- 1.7	3
303.76 - 326.25 NW	17.0 +- 0.0	1
326.26 - 348.75 NNW	17.6 +- 0.1	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	18.2 +- 1.3	12
2 - 5	17.8 +- 0.8	18
> 5	16.4 +- 1.3	11
Upwind Control	19.8 +- 3.5	3

NRC TLD DOSES FOR CLINTON AREA

Miles

0 2 4

Legend

Water

Highways

Railroads

Roads

Plant site

COMANCHE PEAK

TLD Direct Radiation Environmental Monitoring

For the period 970609-971029 143 Days

Field Time: 78 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	20.5	+ - 0.6; 3.1	17.8	+ - 0.8; 4.7	15.4	+ - 1.1
2	285	1.5	20.6	+ - 0.6; 3.1	17.9	+ - 0.8; 4.7	16.1	+ - 1.0
3	268	1.1	18.2	+ - 0.5; 2.7	15.2	+ - 0.7; 4.4	14.0	+ - 0.8
4	253	0.9	19.6	+ - 0.6; 2.9	16.8	+ - 0.8; 4.6	15.4	+ - 1.0
5	218	1.0	19.2	+ - 0.6; 2.9	16.4	+ - 0.8; 4.6	15.5	+ - 0.9
6	200	1.0	19.4	+ - 0.6; 2.9	16.5	+ - 0.8; 4.6	13.8	+ - 1.2
7	180	1.4	18.6	+ - 0.6; 2.8	15.6	+ - 0.8; 4.5	14.0	+ - 1.0
8	163	1.6	22.6	+ - 0.7; 3.4	20.3	+ - 0.9; 5.0	16.0	+ - 1.6
9	140	1.3	Missing Dosimeter		No Net Data		15.8	+ - 0.8
10	118	1.5	19.8	+ - 0.6; 3.0	17.1	+ - 0.8; 4.6	14.1	+ - 1.2
11	93	1.9	18.3	+ - 0.5; 2.7	15.3	+ - 0.7; 4.4	15.5	+ - 2.6
12	73	2.4	20.9	+ - 0.6; 3.1	18.3	+ - 0.8; 4.8	17.3	+ - 0.9
13	245	1.7	19.1	+ - 0.6; 2.9	16.2	+ - 0.8; 4.5	14.3	+ - 1.0
14	156	4.3	18.0	+ - 0.5; 2.7	14.9	+ - 0.7; 4.4	14.0	+ - 1.1
15	186	7.0	18.0	+ - 0.5; 2.7	15.0	+ - 0.7; 4.4	15.1	+ - 1.3
16	183	4.1	19.0	+ - 0.6; 2.9	16.1	+ - 0.8; 4.5	15.5	+ - 1.3
17	205	4.3	19.8	+ - 0.6; 3.0	17.0	+ - 0.8; 4.6	15.5	+ - 0.8
18	225	3.4	15.8	+ - 0.5; 2.4	12.4	+ - 0.7; 4.1	13.0	+ - 1.1
19	245	5.2	19.6	+ - 0.6; 2.9	16.8	+ - 0.8; 4.6	15.5	+ - 0.8
20	264	5.8	17.9	+ - 0.5; 2.7	14.8	+ - 0.7; 4.4	14.0	+ - 0.9
21	258	3.2	18.8	+ - 0.6; 2.8	15.8	+ - 0.8; 4.5	14.0	+ - 1.0
22	284	5.1	17.5	+ - 0.5; 2.6	14.4	+ - 0.7; 4.3	13.6	+ - 1.0
23	313	5.8	19.4	+ - 0.6; 2.9	16.5	+ - 0.8; 4.6	15.2	+ - 1.0
24	332	4.9	19.2	+ - 0.6; 2.9	16.3	+ - 0.8; 4.5	14.4	+ - 0.9
25	9	4.6	19.5	+ - 0.6; 2.9	16.7	+ - 0.8; 4.6	15.0	+ - 1.0
26	26	4.5	20.2	+ - 0.6; 3.0	17.5	+ - 0.8; 4.7	14.7	+ - 1.1
27	47	4.1	19.7	+ - 0.6; 3.0	17.0	+ - 0.8; 4.6	14.5	+ - 1.0
28	6	1.8	20.0	+ - 0.6; 3.0	17.3	+ - 0.8; 4.7	15.1	+ - 1.1
29	16	1.9	18.4	+ - 0.6; 2.8	15.4	+ - 0.7; 4.4	14.7	+ - 1.1
30	102	3.0	20.7	+ - 0.6; 3.1	18.1	+ - 0.8; 4.7	15.8	+ - 1.3
31	108	3.9	19.8	+ - 0.6; 3.0	17.1	+ - 0.8; 4.6	14.9	+ - 1.0
32	135	4.6	19.5	+ - 0.6; 2.9	16.7	+ - 0.8; 4.6	15.6	+ - 1.1
33	152	6.3	18.8	+ - 0.6; 2.8	15.8	+ - 0.8; 4.5	13.9	+ - 1.1
34	47	2.9	18.3	+ - 0.5; 2.7	15.3	+ - 0.7; 4.4	13.7	+ - 1.3
35	85	4.8	19.0	+ - 0.6; 2.8	16.0	+ - 0.8; 4.5	15.1	+ - 1.1
36	115	7.5	20.6	+ - 0.6; 3.1	17.9	+ - 0.8; 4.7	15.3	+ - 1.2
37	355	9.4	18.5	+ - 0.6; 2.8	15.5	+ - 0.8; 4.5	14.4	+ - 1.1
38	337	9.2	17.9	+ - 0.5; 2.7	14.8	+ - 0.7; 4.4	14.3	+ - 1.1
39	310	9.9	18.9	+ - 0.6; 2.8	16.0	+ - 0.8; 4.5	14.3	+ - 1.2
40	302	8.1	18.5	+ - 0.6; 2.8	15.5	+ - 0.8; 4.5	13.8	+ - 1.2
41	248	7.9	20.6	+ - 0.6; 3.1	17.9	+ - 0.8; 4.7	16.0	+ - 1.0
42	90	0.5	19.8	+ - 0.6; 3.0	17.1	+ - 0.8; 4.6	14.5	+ - 1.5
43	18	9.8	18.3	+ - 0.5; 2.7	15.3	+ - 0.7; 4.4	14.9	+ - 1.0
44	263	1.7	20.7	+ - 0.6; 3.1	18.0	+ - 0.8; 4.7	13.9	+ - 1.8
45	218	12.0	18.4	+ - 0.6; 2.8	15.4	+ - 0.8; 4.4	14.9	+ - 0.9
46	140	12.0	19.4	+ - 0.6; 2.9	16.6	+ - 0.8; 4.6	14.9	+ - 1.0
47	301	21.0	18.4	+ - 0.6; 2.8	15.4	+ - 0.8; 4.4	14.6	+ - 0.9

Transit Dose = 5.1 + - 0.3; 2.7

COMANCHE PEAK
For the period 970609-971029

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 +- 0.9	3
11.26 - 33.75 NNE	16.0 +- 1.2	3
33.76 - 56.25 NE	16.1 +- 1.2	2
56.26 - 78.75 ENE	18.3 +- 0.0	1
78.76 - 101.25 E	16.1 +- 0.9	3
101.26 - 123.75 ESE	17.5 +- 0.5	4
123.76 - 146.25 SE	16.7 +- 0.1	2
146.26 - 168.75 SSE	17.0 +- 2.9	3
168.76 - 191.25 S	15.6 +- 0.6	3
191.26 - 213.75 SSW	16.8 +- 0.4	2
213.76 - 236.25 SW	14.7 +- 2.1	3
236.26 - 258.75 WSW	16.7 +- 0.8	5
258.76 - 281.25 W	16.0 +- 1.8	3
281.26 - 303.75 WNW	15.8 +- 1.5	4
303.76 - 326.25 NW	16.8 +- 1.0	3
326.26 - 348.75 NNW	15.6 +- 1.1	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	16.9 +- 1.3	15
2 - 5	16.3 +- 1.4	15
> 5	15.9 +- 1.1	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 970609-971104 149 Days

Field Time: 85 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	350	2.3	27.4 +- 0.8; 4.1		18.4 +- 1.0; 5.7		18.5 +- 2.6	
2	6	3.5	27.3 +- 0.8; 4.1		18.3 +- 1.0; 5.6		19.0 +- 1.2	
3	18	2.7	27.8 +- 0.8; 4.2		18.9 +- 1.0; 5.7		19.6 +- 1.5	
4	16	3.2	30.7 +- 0.9; 4.6		21.9 +- 1.1; 6.1		19.8 +- 1.5	
5	47	1.9	27.2 +- 0.8; 4.1		18.2 +- 1.0; 5.6		19.5 +- 1.3	
6	40	3.6	27.4 +- 0.8; 4.1		18.4 +- 1.0; 5.7		18.9 +- 1.7	
7	75	2.7	27.4 +- 0.8; 4.1		18.4 +- 1.0; 5.7		18.8 +- 1.9	
8	55	2.8	28.6 +- 0.9; 4.3		19.6 +- 1.1; 5.8		18.8 +- 1.8	
9	80	2.1	28.1 +- 0.8; 4.2		19.1 +- 1.0; 5.7		20.4 +- 1.7	
10	98	3.7	27.0 +- 0.8; 4.1		18.0 +- 1.0; 5.6		18.6 +- 1.4	
11	118	2.3	27.8 +- 0.8; 4.2		18.8 +- 1.0; 5.7		20.2 +- 1.6	
12	109	4.6	27.2 +- 0.8; 4.1		18.2 +- 1.0; 5.6		19.8 +- 1.3	
13	141	3.2	27.8 +- 0.8; 4.2		18.8 +- 1.0; 5.7		19.5 +- 1.3	
14	126	5.6	27.7 +- 0.8; 4.1		18.7 +- 1.0; 5.7		18.4 +- 1.8	
15	159	2.7	27.9 +- 0.8; 4.2		19.0 +- 1.0; 5.7		18.8 +- 1.4	
16	167	4.9	25.4 +- 0.8; 3.8		16.3 +- 1.0; 5.4		19.0 +- 2.5	
17	205	0.3	27.1 +- 0.8; 4.1		18.0 +- 1.0; 5.6		19.6 +- 1.9	
18	186	4.7	30.7 +- 0.9; 4.6		21.9 +- 1.1; 6.1		20.4 +- 1.5	
19	213	3.0	28.8 +- 0.9; 4.3		19.9 +- 1.1; 5.8		19.3 +- 1.4	
20	195	4.9	29.8 +- 0.9; 4.5		20.9 +- 1.1; 5.9		20.5 +- 1.7	
21	222	2.0	28.9 +- 0.9; 4.3		19.9 +- 1.1; 5.8		18.5 +- 1.4	
22	215	5.7	28.7 +- 0.9; 4.3		19.8 +- 1.1; 5.8		20.4 +- 1.7	
23	256	1.5	30.5 +- 0.9; 4.6		21.6 +- 1.1; 6.0		20.2 +- 1.7	
24	238	5.2	29.7 +- 0.9; 4.5		20.9 +- 1.1; 5.9		20.2 +- 1.6	
25	276	2.2	29.3 +- 0.9; 4.4		20.4 +- 1.1; 5.9		20.5 +- 1.4	
26	260	3.8	31.7 +- 0.9; 4.7		22.9 +- 1.1; 6.2		20.7 +- 1.4	
27	301	1.8	27.6 +- 0.8; 4.1		18.6 +- 1.0; 5.7		20.2 +- 1.5	
28	286	4.3	28.5 +- 0.9; 4.3		19.5 +- 1.1; 5.8		20.0 +- 1.8	
29	324	2.8	27.2 +- 0.8; 4.1		18.2 +- 1.0; 5.6		19.3 +- 2.1	
30	333	3.7	30.3 +- 0.9; 4.6		21.5 +- 1.1; 6.0		19.9 +- 1.5	
31	343	2.6	30.0 +- 0.9; 4.5		21.1 +- 1.1; 6.0		20.4 +- 1.8	
32	333	3.7	29.8 +- 0.9; 4.5		21.0 +- 1.1; 6.0		19.9 +- 2.0	
33	215	1.0	28.8 +- 0.9; 4.3		19.9 +- 1.1; 5.8		20.2 +- 2.2	
34	175	18.0	29.2 +- 0.9; 4.4		20.3 +- 1.1; 5.9		20.6 +- 2.1	
35	333	23.0	27.5 +- 0.8; 4.1		18.5 +- 1.0; 5.7		18.9 +- 1.8	
36	210	19.0	27.7 +- 0.8; 4.1		18.7 +- 1.0; 5.7		20.0 +- 2.4	
37	64	7.0	30.4 +- 0.9; 4.6		21.5 +- 1.1; 6.0		23.1 +- 3.2	
38	329	9.0	27.6 +- 0.8; 4.1		18.6 +- 1.0; 5.7		21.7 +- 2.8	
39	273	10.0	27.7 +- 0.8; 4.2		18.7 +- 1.0; 5.7		19.3 +- 1.9	
40	300	2.5	29.7 +- 0.9; 4.5		20.9 +- 1.1; 5.9		22.3 +- 2.1	
42	93	3.5	28.4 +- 0.9; 4.3		19.4 +- 1.1; 5.8		19.2 +- 1.6	
43	270	2.2	28.4 +- 0.9; 4.3		19.5 +- 1.1; 5.8		19.9 +- 1.7	

Transit Dose = 10.0 +- 0.5; 3.4

COOPER

For the period 970609-971104

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	18.3 +- 0.1	2
11.26 - 33.75 NNE	20.4 +- 2.2	2
33.76 - 56.25 NE	18.7 +- 0.8	3
56.26 - 78.75 ENE	20.0 +- 2.2	2
78.76 - 101.25 E	18.9 +- 0.7	3
101.26 - 123.75 ESE	18.5 +- 0.5	2
123.76 - 146.25 SE	18.8 +- 0.1	2
146.26 - 168.75 SSE	17.6 +- 1.9	2
168.76 - 191.25 S	21.9 +- 0.0	1
191.26 - 213.75 SSW	19.6 +- 1.5	3
213.76 - 236.25 SW	19.9 +- 0.1	3
236.26 - 258.75 WSW	21.2 +- 0.6	2
258.76 - 281.25 W	20.4 +- 1.8	4
281.26 - 303.75 WNW	19.7 +- 1.2	3
303.76 - 326.25 NW	18.2 +- 0.0	1
326.26 - 348.75 NNW	20.5 +- 1.3	4

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	19.4 +- 1.4	6
2 - 5	19.6 +- 1.5	27
> 5	19.7 +- 1.3	6
Upwind Control	19.2 +- 1.0	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 970610-971022 135 Days

Field Time: 88 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	
6	61	4.2	13.2 +- 0.4; 2.0		10.6 +- 0.5; 3.5		11.8 +- 2.3	
7	50	3.8	15.1 +- 0.5; 2.3		12.6 +- 0.6; 3.7		11.9 +- 2.5	
8	20	5.2	14.7 +- 0.4; 2.2		12.2 +- 0.5; 3.6		12.5 +- 2.2	
9	6	5.4	15.2 +- 0.5; 2.3		12.7 +- 0.6; 3.7		14.4 +- 2.3	
10	348	5.0	15.9 +- 0.5; 2.4		13.5 +- 0.6; 3.7		13.7 +- 2.2	
11	334	4.8	13.8 +- 0.4; 2.1		11.2 +- 0.5; 3.5		13.0 +- 2.3	
12	318	4.8	15.5 +- 0.5; 2.3		13.0 +- 0.6; 3.7		12.7 +- 2.6	
13	79	3.8	14.7 +- 0.4; 2.2		12.2 +- 0.5; 3.6		13.1 +- 2.3	
14	95	4.1	Damaged Dosimeter		No Net Data		12.5 +- 2.5	
15	89	1.8	17.7 +- 0.5; 2.6		15.2 +- 0.6; 3.9		15.1 +- 2.4	
16	113	5.0	14.1 +- 0.4; 2.1		11.6 +- 0.5; 3.6		11.9 +- 1.4	
17	133	5.5	15.7 +- 0.5; 2.4		13.2 +- 0.6; 3.7		13.5 +- 2.8	
18	74	8.1	14.7 +- 0.4; 2.2		12.2 +- 0.5; 3.6		12.3 +- 2.5	
19	127	7.6	14.9 +- 0.4; 2.2		12.4 +- 0.6; 3.6		12.7 +- 2.3	
20	150	12.0	13.9 +- 0.4; 2.1		11.3 +- 0.5; 3.5		11.6 +- 2.3	
21	159	13.0	15.5 +- 0.5; 2.3		13.0 +- 0.6; 3.7		12.8 +- 2.5	
22	150	13.0	15.0 +- 0.4; 2.2		12.5 +- 0.6; 3.7		12.7 +- 2.5	
23	150	21.0	17.9 +- 0.5; 2.7		15.4 +- 0.6; 3.9		13.6 +- 3.5	
24	150	21.0	14.4 +- 0.4; 2.2		11.9 +- 0.5; 3.6		11.7 +- 2.4	
25	56	6.1	15.2 +- 0.5; 2.3		12.7 +- 0.6; 3.7		14.1 +- 3.3	
26	357	5.2	14.6 +- 0.4; 2.2		12.1 +- 0.5; 3.6		13.2 +- 2.4	
27	90	13.0	14.8 +- 0.4; 2.2		12.3 +- 0.5; 3.6		12.9 +- 2.4	
28	140	4.8	15.4 +- 0.5; 2.3		12.9 +- 0.6; 3.7		13.2 +- 2.3	

Transit Dose = 2.8 +- 0.3; 2.8

CRYSTAL RIVER
For the period 970610-971022

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	12.4 +- 0.4	2
11.26 - 33.75 NNE	12.2 +- 0.0	1
33.76 - 56.25 NE	12.6 +- 0.0	2
56.26 - 78.75 ENE	11.4 +- 1.1	2
78.76 - 101.25 E	13.2 +- 1.7	3
101.26 - 123.75 ESE	11.6 +- 0.0	1
123.76 - 146.25 SE	12.8 +- 0.4	3
146.26 - 168.75 SSE	12.2 +- 1.2	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	13.0 +- 0.0	1
326.26 - 348.75 NNW	12.3 +- 1.6	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	15.2 +- 0.0	1
2 - 5	12.2 +- 1.0	8
> 5	12.4 +- 0.5	10
Upwind Control	13.3 +- 1.9	3

NRC TLD DOSES FOR CRYSTAL RIVER AREA

Miles

0 2 4

Legend

Water
Highways

Railroads
Roads

Plant site

DAVIS BESSE

TLD Direct Radiation Environmental Monitoring

For the period 970609-971002 116 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	50 0.6	12.9 +- 0.4; 1.9	11.2 +- 0.5; 3.3	12.4 +- 1.3
2	86 0.9	14.2 +- 0.4; 2.1	12.5 +- 0.5; 3.4	13.8 +- 1.2
3	116 1.4	13.4 +- 0.4; 2.0	11.7 +- 0.5; 3.4	13.1 +- 1.2
4	172 0.8	16.7 +- 0.5; 2.5	15.0 +- 0.6; 3.7	15.7 +- 1.8
5	200 1.5	21.9 +- 0.7; 3.3	20.1 +- 0.7; 4.2	19.5 +- 1.8
6	226 1.0	17.3 +- 0.5; 2.6	15.5 +- 0.6; 3.7	16.2 +- 1.3
7	249 1.5	17.4 +- 0.5; 2.6	15.6 +- 0.6; 3.7	17.1 +- 1.3
8	267 1.8	17.0 +- 0.5; 2.5	15.2 +- 0.6; 3.7	17.1 +- 1.5
9	285 1.8	18.2 +- 0.5; 2.7	16.4 +- 0.6; 3.8	17.5 +- 1.5
10	306 1.5	15.2 +- 0.5; 2.3	13.5 +- 0.5; 3.5	14.9 +- 1.5
11	344 0.9	16.0 +- 0.5; 2.4	14.2 +- 0.5; 3.6	14.5 +- 1.1
12	142 4.5	20.1 +- 0.6; 3.0	18.3 +- 0.6; 4.0	18.3 +- 1.7
13	158 4.0	20.5 +- 0.6; 3.1	18.7 +- 0.7; 4.1	19.4 +- 1.6
14	180 3.8	18.4 +- 0.6; 2.8	16.6 +- 0.6; 3.8	16.4 +- 1.5
15	207 4.8	19.1 +- 0.6; 2.9	17.3 +- 0.6; 3.9	17.5 +- 2.0
16	225 4.5	18.6 +- 0.6; 2.8	16.8 +- 0.6; 3.9	17.4 +- 1.6
17	254 2.7	22.7 +- 0.7; 3.4	20.8 +- 0.7; 4.3	20.9 +- 1.6
18	269 3.0	18.8 +- 0.6; 2.8	17.0 +- 0.6; 3.9	17.9 +- 1.6
19	295 5.3	22.4 +- 0.7; 3.4	20.5 +- 0.7; 4.3	19.7 +- 1.7
20	25 0.5	12.3 +- 0.4; 1.8	10.6 +- 0.4; 3.3	12.6 +- 1.7
21	132 9.7	16.6 +- 0.5; 2.5	14.8 +- 0.6; 3.7	16.8 +- 1.3
22	210 6.5	16.5 +- 0.5; 2.5	14.7 +- 0.6; 3.6	17.4 +- 3.1

Transit Dose = 1.4 +- 0.3; 2.8

DAVIS BESSE
For the period 970609-971002

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	10.6 +- 0.0	1
33.76 - 56.25 NE	11.2 +- 0.0	1
56.26 - 78.75 ENE	No Data +- No Data	0
78.76 - 101.25 E	12.5 +- 0.0	1
101.26 - 123.75 ESE	11.7 +- 0.0	1
123.76 - 146.25 SE	18.3 +- 0.0	1
146.26 - 168.75 SSE	18.7 +- 0.0	1
168.76 - 191.25 S	15.8 +- 1.2	2
191.26 - 213.75 SSW	18.7 +- 2.0	2
213.76 - 236.25 SW	16.1 +- 0.9	2
236.26 - 258.75 WSW	18.2 +- 3.7	2
258.76 - 281.25 W	16.1 +- 1.2	2
281.26 - 303.75 WNW	18.5 +- 2.9	2
303.76 - 326.25 NW	13.5 +- 0.0	1
326.26 - 348.75 NNW	14.2 +- 0.0	1

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	14.3 +- 2.6	12
2 - 5	17.9 +- 1.5	7
> 5	20.5 +- 0.0	1
Upwind Control	14.8 +- 0.1	2

NRC TLD DOSES FOR DAVIS-BESSE AREA

Miles

0 2 4

Legend

Water

Highways

Railroads

Roads

Plant site

DC COOK

TLD Direct Radiation Environmental Monitoring

For the period 970609-971021 135 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	54 1.7	17.9 +- 0.5; 2.7	13.5 +- 0.7; 4.3	13.6 +- 0.8
2	67 1.3	18.6 +- 0.6; 2.8	14.2 +- 0.7; 4.3	16.1 +- 2.1
3	89 1.1	17.3 +- 0.5; 2.6	12.8 +- 0.7; 4.2	12.5 +- 0.9
4	58 0.7	16.6 +- 0.5; 2.5	12.1 +- 0.7; 4.1	12.5 +- 0.7
5	19 2.3	18.5 +- 0.6; 2.8	14.1 +- 0.7; 4.3	13.5 +- 0.7
6	111 1.6	19.8 +- 0.6; 3.0	15.5 +- 0.8; 4.5	13.5 +- 0.9
7	135 1.5	17.8 +- 0.5; 2.7	13.4 +- 0.7; 4.3	12.9 +- 0.9
8	158 1.4	18.1 +- 0.5; 2.7	13.7 +- 0.7; 4.3	15.4 +- 2.4
9	171 1.9	17.1 +- 0.5; 2.6	12.6 +- 0.7; 4.2	12.8 +- 0.8
10	199 1.5	17.0 +- 0.5; 2.6	12.6 +- 0.7; 4.2	13.1 +- 0.7
11	195 3.9	Missing Dosimeter	No Net Data	13.0 +- 0.8
12	200 6.6	18.8 +- 0.6; 2.8	14.4 +- 0.7; 4.4	13.5 +- 1.1
13	179 3.9	19.8 +- 0.6; 3.0	15.6 +- 0.8; 4.5	16.0 +- 1.1
14	151 4.4	21.4 +- 0.6; 3.2	17.3 +- 0.8; 4.7	17.0 +- 1.2
15	130 4.6	20.9 +- 0.6; 3.1	16.7 +- 0.8; 4.6	17.3 +- 1.0
16	110 3.7	20.6 +- 0.6; 3.1	16.4 +- 0.8; 4.6	15.0 +- 1.1
17	88 3.6	17.9 +- 0.5; 2.7	13.5 +- 0.7; 4.3	14.0 +- 0.8
18	67 3.8	18.6 +- 0.6; 2.8	14.3 +- 0.7; 4.3	14.2 +- 1.6
19	24 3.8	17.4 +- 0.5; 2.6	12.9 +- 0.7; 4.2	12.8 +- 1.1
20	43 3.3	18.8 +- 0.6; 2.8	14.5 +- 0.7; 4.4	15.6 +- 2.4
21	26 9.9	20.1 +- 0.6; 3.0	15.9 +- 0.8; 4.5	17.2 +- 3.2
22	121 18.0	18.1 +- 0.5; 2.7	13.7 +- 0.7; 4.3	14.0 +- 0.9
23	121 18.0	19.7 +- 0.6; 3.0	15.5 +- 0.8; 4.5	14.3 +- 1.0
24	121 18.0	19.0 +- 0.6; 2.9	14.7 +- 0.7; 4.4	15.4 +- 2.0

Transit Dose = 5.5 +- 0.4; 2.9

DC COOK

For the period 970609-971021

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	14.3 +- 1.5	3
33.76 - 56.25 NE	14.0 +- 0.7	2
56.26 - 78.75 ENE	13.5 +- 1.2	3
78.76 - 101.25 E	13.1 +- 0.5	2
101.26 - 123.75 ESE	15.9 +- 0.6	2
123.76 - 146.25 SE	15.1 +- 2.4	2
146.26 - 168.75 SSE	15.5 +- 2.5	2
168.76 - 191.25 S	14.1 +- 2.1	2
191.26 - 213.75 SSW	13.5 +- 1.3	2
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	13.4 +- 1.0	9
2 - 5	15.0 +- 1.5	9
> 5	15.2 +- 1.1	2
Upwind Control	14.6 +- 0.9	3

NRC TLD DOSES FOR D.C. COOK AREA

Miles

0 2 4

Legend

Water

Highways

Railroads

Roads

Plant..site

DIABLO CANYON

TLD Direct Radiation Environmental Monitoring

For the period 970609-971106 151 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	132 0.9	30.0 +- 0.9; 4.5	23.8 +- 1.1; 5.8	23.2 +- 1.2
2	119 3.9	28.1 +- 0.8; 4.2	21.8 +- 1.0; 5.6	21.1 +- 1.1
3	107 7.2	26.4 +- 0.8; 4.0	20.0 +- 1.0; 5.4	19.4 +- 1.3
4	111 10.3	25.9 +- 0.8; 3.9	19.5 +- 0.9; 5.3	18.5 +- 1.0
5	115 13.9	25.4 +- 0.8; 3.8	18.9 +- 0.9; 5.2	19.6 +- 1.5
6	68 9.4	23.8 +- 0.7; 3.6	17.2 +- 0.9; 5.0	18.5 +- 0.4
7	359 11.1	22.5 +- 0.7; 3.4	15.8 +- 0.9; 4.9	16.2 +- 2.0
8	359 6.6	19.6 +- 0.6; 2.9	12.7 +- 0.8; 4.5	14.3 +- 1.4
9	339 4.8	Missing Dosimeter	No Net Data	13.4 +- 0.9
10	327 3.6	19.2 +- 0.6; 2.9	12.3 +- 0.8; 4.5	13.6 +- 1.2
11	325 1.2	21.7 +- 0.6; 3.2	15.0 +- 0.8; 4.8	14.3 +- 1.3
12	36 20.7	27.4 +- 0.8; 4.1	21.0 +- 1.0; 5.5	21.2 +- 1.1
13	36 20.7	27.5 +- 0.8; 4.1	21.2 +- 1.0; 5.5	20.9 +- 1.5
14	36 20.7	27.9 +- 0.8; 4.2	21.6 +- 1.0; 5.5	21.5 +- 1.4

Transit Dose = 7.5 +- 0.4; 3.1

DIABLO CANYON
For the period 970609-971106

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	14.3 +- 2.2	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	17.2 +- 0.0	1
78.76 - 101.25 E	No Data +- No Data	0
101.26 - 123.75 ESE	20.0 +- 1.2	4
123.76 - 146.25 SE	23.8 +- 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	15.0 +- 0.0	1
326.26 - 348.75 NNW	12.3 +- 0.0	1

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	19.4 +- 6.2	2
2 - 5	17.0 +- 6.7	2
> 5	17.4 +- 2.7	6
Upwind Control	21.3 +- 0.3	3

NRC TLD DOSES FOR DIABLO CANYON AREA

Miles

Legend

Water	Railroads	Plant..site
Highways	Roads	

DRESDEN

TLD Direct Radiation Environmental Monitoring

For the period 970609-971027 141 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	70 4.2	22.8 +- 0.7; 3.4	17.0 +- 0.8; 4.5	17.2 +- 1.7
2	76 3.9	20.2 +- 0.6; 3.0	14.4 +- 0.7; 4.2	16.0 +- 2.5
3	108 3.2	21.2 +- 0.6; 3.2	15.5 +- 0.7; 4.3	17.1 +- 1.5
4	142 1.3	20.3 +- 0.6; 3.1	14.6 +- 0.7; 4.2	14.5 +- 1.5
5	115 1.5	19.5 +- 0.6; 2.9	13.8 +- 0.7; 4.2	14.3 +- 1.6
6	180 1.9	22.8 +- 0.7; 3.4	17.0 +- 0.8; 4.5	17.3 +- 2.0
7	179 0.5	21.0 +- 0.6; 3.1	15.2 +- 0.7; 4.3	16.5 +- 1.5
8	180 0.7	19.6 +- 0.6; 2.9	13.9 +- 0.7; 4.2	14.3 +- 1.4
9	253 0.5	24.0 +- 0.7; 3.6	18.1 +- 0.8; 4.6	18.0 +- 1.5
10	254 1.3	26.7 +- 0.8; 4.0	20.7 +- 0.9; 4.9	24.4 +- 3.6
11	250 1.5	18.5 +- 0.6; 2.8	12.8 +- 0.7; 4.0	15.0 +- 2.2
12	263 2.1	23.1 +- 0.7; 3.5	17.3 +- 0.8; 4.5	17.9 +- 1.3
13	180 4.0	19.3 +- 0.6; 2.9	13.6 +- 0.7; 4.1	13.8 +- 1.4
14	158 4.8	19.0 +- 0.6; 2.8	13.3 +- 0.7; 4.1	15.0 +- 1.5
15	137 4.2	20.0 +- 0.6; 3.0	14.3 +- 0.7; 4.2	14.8 +- 2.1
16	134 8.4	19.2 +- 0.6; 2.9	13.5 +- 0.7; 4.1	14.6 +- 1.1
17	189 7.4	21.7 +- 0.7; 3.3	15.9 +- 0.7; 4.4	15.8 +- 1.6
18	203 4.1	17.2 +- 0.5; 2.6	11.6 +- 0.6; 3.9	13.3 +- 2.5
19	231 4.0	22.7 +- 0.7; 3.4	16.9 +- 0.8; 4.5	18.2 +- 2.3
20	244 6.4	Missing Dosimeter	No Net Data	16.1 +- 1.8
21	258 8.6	21.3 +- 0.6; 3.2	15.5 +- 0.7; 4.3	16.8 +- 1.5
22	269 4.4	20.0 +- 0.6; 3.0	14.3 +- 0.7; 4.2	14.5 +- 1.5
23	295 3.3	22.3 +- 0.7; 3.3	16.5 +- 0.7; 4.4	15.4 +- 1.4
24	311 3.9	22.7 +- 0.7; 3.4	16.9 +- 0.8; 4.5	16.4 +- 1.7
25	340 4.7	25.2 +- 0.8; 3.8	19.3 +- 0.8; 4.8	18.9 +- 2.1
26	7 4.4	20.9 +- 0.6; 3.1	15.2 +- 0.7; 4.3	15.6 +- 1.7
27	355 2.0	25.5 +- 0.8; 3.8	19.6 +- 0.8; 4.8	20.3 +- 1.7
28	327 1.7	25.4 +- 0.8; 3.8	19.5 +- 0.8; 4.8	20.9 +- 1.7
29	318 1.4	23.5 +- 0.7; 3.5	17.6 +- 0.8; 4.6	18.0 +- 2.0
30	295 2.0	20.3 +- 0.6; 3.0	14.6 +- 0.7; 4.2	15.0 +- 2.5
31	30 1.5	26.0 +- 0.8; 3.9	20.1 +- 0.8; 4.8	19.5 +- 2.1
32	48 1.9	26.0 +- 0.8; 3.9	20.1 +- 0.8; 4.8	20.7 +- 2.0
33	76 1.4	24.3 +- 0.7; 3.6	18.4 +- 0.8; 4.7	18.9 +- 2.2
34	90 1.4	22.6 +- 0.7; 3.4	16.8 +- 0.8; 4.5	17.6 +- 2.4
35	26 4.5	22.6 +- 0.7; 3.4	16.8 +- 0.8; 4.5	17.4 +- 1.9
36	42 3.6	21.1 +- 0.6; 3.2	15.4 +- 0.7; 4.3	16.0 +- 2.1
37	52 11.5	20.5 +- 0.6; 3.1	14.8 +- 0.7; 4.3	16.7 +- 2.4
38	274 21.5	22.3 +- 0.7; 3.4	16.5 +- 0.7; 4.4	17.8 +- 2.4
39	274 21.5	22.4 +- 0.7; 3.4	16.6 +- 0.8; 4.4	17.7 +- 2.0
40	275 21.5	24.0 +- 0.7; 3.6	18.2 +- 0.8; 4.6	19.0 +- 2.7

Transit Dose = 5.2 +- 0.4; 3.1

DRESDEN

For the period 970609-971027

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	17.4 +- 3.2	2
11.26 - 33.75 NNE	18.4 +- 2.3	2
33.76 - 56.25 NE	16.7 +- 2.9	3
56.26 - 78.75 ENE	16.6 +- 2.0	3
78.76 - 101.25 E	16.8 +- 0.0	1
101.26 - 123.75 ESE	14.6 +- 1.2	2
123.76 - 146.25 SE	14.1 +- 0.6	3
146.26 - 168.75 SSE	13.3 +- 0.0	1
168.76 - 191.25 S	15.1 +- 1.4	5
191.26 - 213.75 SSW	11.6 +- 0.0	1
213.76 - 236.25 SW	16.9 +- 0.0	1
236.26 - 258.75 WSW	16.8 +- 3.4	4
258.76 - 281.25 W	15.8 +- 2.1	2
281.26 - 303.75 WNW	15.5 +- 1.4	2
303.76 - 326.25 NW	17.2 +- 0.6	2
326.26 - 348.75 NNW	19.4 +- 0.2	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	17.1 +- 2.6	16
2 - 5	15.5 +- 1.9	16
> 5	14.9 +- 1.1	4
Upwind Control	17.1 +- 0.9	3

NRC TLD DOSES FOR DRESDEN AREA

DUANE ARNOLD

TLD Direct Radiation Environmental Monitoring

For the period 970610-971002 115 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	9.7	16.2	+- 0.5; 2.4	15.9	+- 0.5; 3.5	16.5	+- 1.5
2	170	6.2	19.9	+- 0.6; 3.0	19.4	+- 0.6; 3.9	18.5	+- 1.3
3	180	3.5	Missing Dosimeter		No Net Data		15.4	+- 1.1
4	216	2.9	20.1	+- 0.6; 3.0	19.7	+- 0.6; 3.9	18.9	+- 1.6
5	201	2.5	15.9	+- 0.5; 2.4	15.6	+- 0.5; 3.5	15.4	+- 1.3
6	213	1.0	17.7	+- 0.5; 2.7	17.3	+- 0.6; 3.7	17.2	+- 1.5
7	248	1.0	18.9	+- 0.6; 2.8	18.5	+- 0.6; 3.8	19.0	+- 1.5
8	279	1.0	19.3	+- 0.6; 2.9	18.9	+- 0.6; 3.8	18.7	+- 1.5
9	298	1.0	20.8	+- 0.6; 3.1	20.4	+- 0.6; 4.0	19.8	+- 1.7
10	320	1.5	19.7	+- 0.6; 3.0	19.3	+- 0.6; 3.9	18.9	+- 1.7
11	343	1.0	19.6	+- 0.6; 2.9	19.2	+- 0.6; 3.9	19.5	+- 1.7
12	359	1.2	18.4	+- 0.6; 2.8	18.0	+- 0.6; 3.7	18.2	+- 1.5
13	237	0.5	17.7	+- 0.5; 2.7	17.3	+- 0.6; 3.7	17.6	+- 1.6
14	259	3.9	17.7	+- 0.5; 2.7	17.3	+- 0.6; 3.7	18.0	+- 1.8
15	272	5.0	15.1	+- 0.5; 2.3	14.8	+- 0.5; 3.4	15.1	+- 1.1
16	285	5.0	16.5	+- 0.5; 2.5	16.2	+- 0.5; 3.6	16.7	+- 1.3
17	308	4.5	18.4	+- 0.6; 2.8	18.0	+- 0.6; 3.8	18.7	+- 1.6
18	340	4.5	13.6	+- 0.4; 2.0	13.3	+- 0.5; 3.3	15.4	+- 1.6
19	291	15.0	17.2	+- 0.5; 2.6	16.8	+- 0.5; 3.6	17.3	+- 1.4
20	291	15.0	17.6	+- 0.5; 2.6	17.2	+- 0.6; 3.7	17.9	+- 1.6
21	291	15.0	16.7	+- 0.5; 2.5	16.3	+- 0.5; 3.6	16.9	+- 1.4
22	358	6.1	15.8	+- 0.5; 2.4	15.4	+- 0.5; 3.5	16.1	+- 1.3
23	7	2.9	14.7	+- 0.4; 2.2	14.4	+- 0.5; 3.4	15.5	+- 1.3
24	28	3.0	19.3	+- 0.6; 2.9	18.9	+- 0.6; 3.8	19.0	+- 1.7
25	39	3.5	17.5	+- 0.5; 2.6	17.1	+- 0.6; 3.7	17.5	+- 1.3
26	64	3.8	Missing Dosimeter		No Net Data		18.0	+- 1.3
27	50	1.9	16.0	+- 0.5; 2.4	15.6	+- 0.5; 3.5	15.9	+- 1.3
28	72	2.3	18.1	+- 0.5; 2.7	17.8	+- 0.6; 3.7	17.5	+- 1.3
29	91	3.0	16.2	+- 0.5; 2.4	15.8	+- 0.5; 3.5	15.9	+- 1.2
30	93	1.8	19.6	+- 0.6; 2.9	19.2	+- 0.6; 3.9	19.3	+- 1.3
31	113	2.0	19.2	+- 0.6; 2.9	18.8	+- 0.6; 3.8	19.3	+- 1.5
32	141	1.6	14.9	+- 0.4; 2.2	14.6	+- 0.5; 3.4	15.6	+- 1.4
33	153	1.5	18.8	+- 0.6; 2.8	18.4	+- 0.6; 3.8	18.2	+- 1.6
34	177	1.2	15.7	+- 0.5; 2.4	15.4	+- 0.5; 3.5	15.4	+- 1.6
35	153	4.2	14.9	+- 0.4; 2.2	14.6	+- 0.5; 3.4	15.2	+- 1.5
36	135	4.1	16.3	+- 0.5; 2.4	15.9	+- 0.5; 3.5	16.5	+- 1.3
37	111	4.6	18.2	+- 0.5; 2.7	17.8	+- 0.6; 3.7	18.9	+- 1.5
38	123	5.1	19.0	+- 0.6; 2.8	18.6	+- 0.6; 3.8	18.8	+- 1.3
39	132	7.0	15.9	+- 0.5; 2.4	15.6	+- 0.5; 3.5	16.0	+- 1.3
40	139	7.6	18.0	+- 0.5; 2.7	17.6	+- 0.6; 3.7	17.0	+- 1.2

Transit Dose = 0.0 +- 0.2; 2.7

DUANE ARNOLD
For the period 970610-971002

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 +- 1.8	3
11.26 - 33.75 NNE	18.9 +- 0.0	1
33.76 - 56.25 NE	16.3 +- 1.1	2
56.26 - 78.75 ENE	17.8 +- 0.0	1
78.76 - 101.25 E	17.5 +- 2.4	2
101.26 - 123.75 ESE	18.4 +- 0.5	3
123.76 - 146.25 SE	15.9 +- 1.3	4
146.26 - 168.75 SSE	16.3 +- 1.9	3
168.76 - 191.25 S	17.4 +- 2.9	2
191.26 - 213.75 SSW	16.4 +- 1.2	2
213.76 - 236.25 SW	19.7 +- 0.0	1
236.26 - 258.75 WSW	17.9 +- 0.9	2
258.76 - 281.25 W	17.0 +- 2.1	3
281.26 - 303.75 WNW	18.3 +- 2.9	2
303.76 - 326.25 NW	18.7 +- 0.9	2
326.26 - 348.75 NNW	16.3 +- 4.2	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	17.9 +- 1.7	14
2 - 5	16.5 +- 1.8	15
> 5	17.1 +- 1.7	6
Upwind Control	16.8 +- 0.4	3

NRC TLD DOSES FOR DUANE ARNOLD AREA

Miles

0 2 4

Legend

Water
Highways

Railroads
Roads

Plant site

FARLEY

TLD Direct Radiation Environmental Monitoring

For the period 970610-971020 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	268 15.0	15.3 +- 0.5; 2.3	13.5 +- 0.5; 3.5	13.8 +- 2.4
2	252 7.8	17.1 +- 0.5; 2.6	15.3 +- 0.6; 3.7	14.1 +- 2.3
3	217 6.1	18.6 +- 0.6; 2.8	16.8 +- 0.6; 3.9	15.6 +- 2.1
4	155 5.7	22.4 +- 0.7; 3.4	20.5 +- 0.7; 4.3	18.9 +- 2.1
5	170 5.1	18.1 +- 0.5; 2.7	16.3 +- 0.6; 3.8	15.5 +- 2.0
6	197 4.5	16.7 +- 0.5; 2.5	14.9 +- 0.6; 3.7	14.5 +- 2.1
7	191 2.4	18.0 +- 0.5; 2.7	16.2 +- 0.6; 3.8	17.6 +- 2.5
8	200 1.8	18.2 +- 0.5; 2.7	16.4 +- 0.6; 3.8	15.6 +- 2.1
9	220 1.2	16.1 +- 0.5; 2.4	14.3 +- 0.5; 3.6	14.0 +- 2.2
10	235 0.9	19.3 +- 0.6; 2.9	17.4 +- 0.6; 3.9	16.3 +- 2.1
11	300 0.9	21.1 +- 0.6; 3.2	19.2 +- 0.7; 4.1	16.4 +- 2.1
12	319 1.1	20.4 +- 0.6; 3.1	18.5 +- 0.7; 4.0	16.2 +- 2.3
13	338 1.3	17.2 +- 0.5; 2.6	15.4 +- 0.6; 3.7	14.5 +- 2.0
14	6 1.2	18.6 +- 0.6; 2.8	16.8 +- 0.6; 3.9	14.8 +- 2.2
15	16 1.3	23.4 +- 0.7; 3.5	21.5 +- 0.7; 4.4	20.1 +- 2.4
16	264 1.6	18.0 +- 0.5; 2.7	16.2 +- 0.6; 3.8	14.9 +- 2.0
17	253 3.5	20.2 +- 0.6; 3.0	18.3 +- 0.6; 4.0	17.1 +- 2.2
18	233 3.2	17.8 +- 0.5; 2.7	16.0 +- 0.6; 3.8	15.2 +- 2.0
19	267 4.5	18.5 +- 0.6; 2.8	16.7 +- 0.6; 3.8	16.3 +- 2.2
20	295 3.8	18.5 +- 0.6; 2.8	16.6 +- 0.6; 3.8	15.6 +- 2.2
21	315 4.6	16.3 +- 0.5; 2.4	14.5 +- 0.5; 3.6	14.5 +- 2.2
22	332 4.3	18.1 +- 0.5; 2.7	16.3 +- 0.6; 3.8	14.5 +- 2.0
23	251 4.8	16.5 +- 0.5; 2.5	14.7 +- 0.6; 3.6	14.1 +- 2.2
24	32 5.3	19.2 +- 0.6; 2.9	17.4 +- 0.6; 3.9	16.5 +- 2.0
25	54 6.2	17.5 +- 0.5; 2.6	15.7 +- 0.6; 3.7	14.3 +- 2.2
26	64 5.5	18.8 +- 0.6; 2.8	17.0 +- 0.6; 3.9	16.1 +- 2.1
27	88 4.7	18.3 +- 0.5; 2.7	16.5 +- 0.6; 3.8	15.6 +- 2.0
28	124 5.1	18.9 +- 0.6; 2.8	17.1 +- 0.6; 3.9	16.4 +- 2.0
29	153 4.1	18.3 +- 0.5; 2.7	16.4 +- 0.6; 3.8	15.6 +- 2.0
30	142 3.6	16.8 +- 0.5; 2.5	15.0 +- 0.6; 3.7	14.3 +- 2.0
31	130 3.0	16.9 +- 0.5; 2.5	15.1 +- 0.6; 3.7	13.3 +- 2.2
32	110 2.8	16.1 +- 0.5; 2.4	14.3 +- 0.5; 3.6	14.3 +- 2.2
33	78 2.6	16.9 +- 0.5; 2.5	15.1 +- 0.6; 3.7	14.2 +- 2.3
34	58 2.2	14.5 +- 0.4; 2.2	12.8 +- 0.5; 3.5	13.0 +- 2.0
35	34 2.4	21.7 +- 0.7; 3.3	19.8 +- 0.7; 4.2	19.3 +- 2.1
36	19 2.7	19.3 +- 0.6; 2.9	17.5 +- 0.6; 3.9	16.8 +- 2.1
37	284 10.0	18.0 +- 0.5; 2.7	16.2 +- 0.6; 3.8	15.5 +- 2.1
38	289 15.0	15.1 +- 0.5; 2.3	13.3 +- 0.5; 3.5	15.0 +- 3.0
39	293 15.0	18.5 +- 0.6; 2.8	16.7 +- 0.6; 3.8	16.6 +- 2.0

Transit Dose = 1.4 +- 0.3; 2.8

FARLEY

For the period 970610-971020

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	16.8 +- 0.0	1
11.26 - 33.75 NNE	18.8 +- 2.3	3
33.76 - 56.25 NE	17.8 +- 2.9	2
56.26 - 78.75 ENE	15.0 +- 2.1	3
78.76 - 101.25 E	16.5 +- 0.0	1
101.26 - 123.75 ESE	14.3 +- 0.0	1
123.76 - 146.25 SE	15.7 +- 1.1	3
146.26 - 168.75 SSE	18.5 +- 2.9	2
168.76 - 191.25 S	16.2 +- 0.1	2
191.26 - 213.75 SSW	15.7 +- 1.1	2
213.76 - 236.25 SW	16.1 +- 1.3	4
236.26 - 258.75 WSW	16.1 +- 1.9	3
258.76 - 281.25 W	15.5 +- 1.7	3
281.26 - 303.75 WNW	17.9 +- 1.8	2
303.76 - 326.25 NW	16.5 +- 2.8	2
326.26 - 348.75 NNW	15.8 +- 0.7	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	17.3 +- 2.2	9
2 - 5	15.9 +- 1.6	18
> 5	16.6 +- 1.9	9
Upwind Control	15.4 +- 1.8	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 970610-971023 136 Days

Field Time: 93 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	38	2.1	17.1 +- 0.5; 2.6		11.8 +- 0.6; 3.9		12.0 +- 2.0	
2	22	2.3	18.9 +- 0.6; 2.8		13.5 +- 0.7; 4.1		14.0 +- 1.2	
3	350	1.8	24.3 +- 0.7; 3.6		18.7 +- 0.8; 4.6		19.7 +- 1.6	
4	345	1.9	20.0 +- 0.6; 3.0		14.5 +- 0.7; 4.2		15.4 +- 1.5	
5	346	1.4	22.0 +- 0.7; 3.3		16.5 +- 0.7; 4.4		16.2 +- 1.4	
6	310	1.3	21.3 +- 0.6; 3.2		15.8 +- 0.7; 4.3		16.4 +- 1.7	
7	298	1.4	21.6 +- 0.6; 3.2		16.1 +- 0.7; 4.3		16.3 +- 1.5	
8	277	1.6	23.2 +- 0.7; 3.5		17.7 +- 0.8; 4.5		16.5 +- 0.9	
9	238	1.0	18.4 +- 0.6; 2.8		13.0 +- 0.6; 4.0		14.3 +- 1.8	
10	225	1.5	19.5 +- 0.6; 2.9		14.1 +- 0.7; 4.1		13.7 +- 1.0	
11	193	0.8	19.8 +- 0.6; 3.0		14.4 +- 0.7; 4.2		15.9 +- 1.0	
12	183	0.9	22.1 +- 0.7; 3.3		16.6 +- 0.7; 4.4		16.2 +- 1.0	
13	175	0.8	22.0 +- 0.7; 3.3		16.5 +- 0.7; 4.4		15.8 +- 0.8	
14	260	1.7	25.3 +- 0.8; 3.8		19.7 +- 0.8; 4.7		18.2 +- 1.3	
15	245	2.5	20.4 +- 0.6; 3.1		15.0 +- 0.7; 4.2		14.8 +- 1.0	
16	236	5.0	24.2 +- 0.7; 3.6		18.6 +- 0.8; 4.6		18.4 +- 1.0	
17	225	6.8	19.4 +- 0.6; 2.9		14.0 +- 0.7; 4.1		13.0 +- 1.2	
18	250	7.8	Missing Dosimeter		No Net Data		13.0 +- 1.2	
19	277	6.0	18.0 +- 0.5; 2.7		12.7 +- 0.6; 4.0		13.3 +- 1.1	
20	297	6.0	20.0 +- 0.6; 3.0		14.6 +- 0.7; 4.2		15.1 +- 1.3	
21	320	3.8	18.9 +- 0.6; 2.8		13.4 +- 0.7; 4.1		15.5 +- 1.2	
22	340	4.7	22.7 +- 0.7; 3.4		17.2 +- 0.8; 4.5		17.0 +- 1.0	
23	358	4.3	24.7 +- 0.7; 3.7		19.1 +- 0.8; 4.7		17.5 +- 1.5	
24	23	5.0	24.3 +- 0.7; 3.6		18.7 +- 0.8; 4.6		18.5 +- 1.1	
25	25	7.0	20.9 +- 0.6; 3.1		15.4 +- 0.7; 4.3		13.3 +- 1.0	
26	0	7.0	20.1 +- 0.6; 3.0		14.7 +- 0.7; 4.2		13.9 +- 1.1	
27	342	8.0	21.5 +- 0.6; 3.2		16.0 +- 0.7; 4.3		15.6 +- 1.0	
28	320	9.5	20.4 +- 0.6; 3.1		15.0 +- 0.7; 4.2		14.3 +- 0.8	
29	290	11.0	20.7 +- 0.6; 3.1		15.3 +- 0.7; 4.3		16.5 +- 1.5	
30	270	11.0	22.5 +- 0.7; 3.4		16.9 +- 0.7; 4.4		17.8 +- 1.6	
31	245	10.0	20.1 +- 0.6; 3.0		14.6 +- 0.7; 4.2		14.7 +- 1.2	
32	220	11.0	21.2 +- 0.6; 3.2		15.7 +- 0.7; 4.3		15.4 +- 1.1	
33	270	15.0	19.9 +- 0.6; 3.0		14.4 +- 0.7; 4.2		14.1 +- 1.1	
34	270	15.0	20.1 +- 0.6; 3.0		14.6 +- 0.7; 4.2		14.3 +- 1.0	
35	290	16.0	22.2 +- 0.7; 3.3		16.6 +- 0.7; 4.4		15.4 +- 0.9	
36	350	0.8	19.3 +- 0.6; 2.9		13.8 +- 0.7; 4.1		13.8 +- 2.3	
37	330	0.7	20.8 +- 0.6; 3.1		15.3 +- 0.7; 4.3		15.0 +- 0.9	
38	310	0.7	21.9 +- 0.7; 3.3		16.4 +- 0.7; 4.4		15.1 +- 1.9	
39	23	10.0	19.7 +- 0.6; 3.0		14.3 +- 0.7; 4.2		16.2 +- 2.1	
40	0	9.0	21.4 +- 0.6; 3.2		15.9 +- 0.7; 4.3		17.6 +- 1.5	
41	348	9.0	19.7 +- 0.6; 3.0		14.3 +- 0.7; 4.2		13.6 +- 0.9	

Transit Dose = 5.0 +- 0.4; 3.1

FERMI

For the period 970610-971023

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 +- 2.4	5
11.26 - 33.75 NNE	15.5 +- 2.3	4
33.76 - 56.25 NE	11.8 +- 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	16.5 +- 0.1	2
191.26 - 213.75 SSW	14.4 +- 0.0	1
213.76 - 236.25 SW	15.6 +- 2.2	4
236.26 - 258.75 WSW	14.2 +- 1.0	3
258.76 - 281.25 W	16.7 +- 3.0	4
281.26 - 303.75 WNW	15.3 +- 0.8	3
303.76 - 326.25 NW	15.1 +- 1.3	4
326.26 - 348.75 NNW	15.6 +- 1.1	6

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	15.9 +- 1.8	15
2 - 5	15.9 +- 2.8	8
> 5	14.9 +- 1.1	14
Upwind Control	15.2 +- 1.2	3

NRC TLD DOSES FOR FERMI AREA

Miles

Legend

Water

Highways

Railroads

Roads

Plant site

FITZPATRICK/ NINE MI

TLD Direct Radiation Environmental Monitoring

For the period 970611-971022 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	230	6.9	19.7	+- 0.6; 3.0	15.7	+- 0.6; 3.8	14.4	+- 1.1
2	184	14.0	20.0	+- 0.6; 3.0	16.0	+- 0.6; 3.9	15.5	+- 1.1
3	122	8.4	17.6	+- 0.5; 2.6	13.9	+- 0.6; 3.7	13.9	+- 1.3
4	76	11.0	19.4	+- 0.6; 2.9	15.5	+- 0.6; 3.8	14.8	+- 1.2
5	91	6.8	20.1	+- 0.6; 3.0	16.1	+- 0.6; 3.9	15.1	+- 1.0
6	112	4.3	18.1	+- 0.5; 2.7	14.3	+- 0.6; 3.7	14.8	+- 1.1
7	138	4.3	Damaged Dosimeter		No Net Data		14.7	+- 1.0
8	152	3.6	18.5	+- 0.6; 2.8	14.7	+- 0.6; 3.7	14.5	+- 1.5
9	183	3.9	18.5	+- 0.6; 2.8	14.7	+- 0.6; 3.7	15.0	+- 1.0
10	205	4.5	18.5	+- 0.6; 2.8	14.7	+- 0.6; 3.7	13.9	+- 1.2
11	220	4.4	20.6	+- 0.6; 3.1	16.6	+- 0.6; 3.9	15.2	+- 1.1
12	230	6.1	20.0	+- 0.6; 3.0	16.0	+- 0.6; 3.9	15.2	+- 1.0
13	245	1.8	19.4	+- 0.6; 2.9	15.5	+- 0.6; 3.8	14.9	+- 1.1
14	223	1.8	18.7	+- 0.6; 2.8	14.8	+- 0.6; 3.7	14.4	+- 1.2
15	204	2.0	19.2	+- 0.6; 2.9	15.3	+- 0.6; 3.8	14.1	+- 1.2
16	181	1.8	18.7	+- 0.6; 2.8	14.8	+- 0.6; 3.7	14.5	+- 0.9
17	157	1.9	18.5	+- 0.6; 2.8	14.6	+- 0.6; 3.7	14.5	+- 1.3
18	137	1.6	18.7	+- 0.6; 2.8	14.9	+- 0.6; 3.8	14.4	+- 1.0
19	115	1.2	19.4	+- 0.6; 2.9	15.5	+- 0.6; 3.8	14.4	+- 1.3
20	92	1.1	19.3	+- 0.6; 2.9	15.4	+- 0.6; 3.8	15.0	+- 1.3
21	229	20.0	18.9	+- 0.6; 2.8	15.0	+- 0.6; 3.8	14.6	+- 1.2
22	229	20.0	19.1	+- 0.6; 2.9	15.2	+- 0.6; 3.8	14.3	+- 0.9
23	229	20.0	19.3	+- 0.6; 2.9	15.3	+- 0.6; 3.8	14.5	+- 1.0
24	196	8.0	17.8	+- 0.5; 2.7	14.0	+- 0.6; 3.7	14.2	+- 1.6
25	168	7.2	19.1	+- 0.6; 2.9	15.2	+- 0.6; 3.8	14.1	+- 1.1
26	152	0.6	20.1	+- 0.6; 3.0	16.1	+- 0.6; 3.9	15.6	+- 1.0

Transit Dose = 2.2 +- 0.3; 3.1

FITZPATRICK/ NINE MI
For the period 970611-971022

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	15.5 +- 0.0	1
78.76 - 101.25 E	15.8 +- 0.5	2
101.26 - 123.75 ESE	14.6 +- 0.8	3
123.76 - 146.25 SE	14.9 +- 0.0	1
146.26 - 168.75 SSE	15.1 +- 0.7	4
168.76 - 191.25 S	15.2 +- 0.7	3
191.26 - 213.75 SSW	14.7 +- 0.6	3
213.76 - 236.25 SW	15.8 +- 0.7	4
236.26 - 258.75 WSW	15.5 +- 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	No Data +- No Data	0

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	15.2 +- 0.5	9
2 - 5	15.0 +- 0.9	5
> 5	15.3 +- 0.9	8
Upwind Control	15.2 +- 0.2	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 970609-971104 149 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	358	2.0	25.5	+- 0.8; 3.8	17.8	+- 0.9; 5.3	18.7	+- 1.4
2	351	4.6	27.8	+- 0.8; 4.2	20.3	+- 1.0; 5.6	19.4	+- 1.5
3	30	2.5	26.7	+- 0.8; 4.0	19.1	+- 1.0; 5.5	19.3	+- 1.7
4	27	4.6	28.8	+- 0.9; 4.3	21.4	+- 1.0; 5.7	19.9	+- 1.6
5	53	1.9	27.3	+- 0.8; 4.1	19.8	+- 1.0; 5.5	18.9	+- 1.7
6	37	3.9	27.0	+- 0.8; 4.1	19.5	+- 1.0; 5.5	19.8	+- 1.6
7	76	2.3	28.5	+- 0.9; 4.3	21.0	+- 1.0; 5.7	20.3	+- 1.7
8	59	5.2	25.5	+- 0.8; 3.8	17.9	+- 1.0; 5.3	19.0	+- 1.7
9	100	2.3	25.0	+- 0.7; 3.7	17.3	+- 0.9; 5.3	17.6	+- 1.7
10	88	5.6	29.0	+- 0.9; 4.3	21.6	+- 1.0; 5.7	19.9	+- 1.6
11	122	2.3	30.0	+- 0.9; 4.5	22.6	+- 1.1; 5.9	19.8	+- 1.7
12	105	5.7	29.1	+- 0.9; 4.4	21.7	+- 1.1; 5.8	19.3	+- 1.8
13	145	1.9	27.3	+- 0.8; 4.1	19.8	+- 1.0; 5.5	20.1	+- 1.6
14	128	5.5	27.7	+- 0.8; 4.2	20.2	+- 1.0; 5.6	19.6	+- 1.5
15	157	1.9	28.8	+- 0.9; 4.3	21.3	+- 1.0; 5.7	20.8	+- 1.5
16	150	4.9	28.9	+- 0.9; 4.3	21.4	+- 1.0; 5.7	20.1	+- 1.4
17	173	0.5	25.4	+- 0.8; 3.8	17.8	+- 0.9; 5.3	19.5	+- 1.8
18	173	5.3	28.9	+- 0.9; 4.3	21.5	+- 1.0; 5.7	20.6	+- 1.5
19	212	2.5	30.6	+- 0.9; 4.6	23.2	+- 1.1; 6.0	22.7	+- 1.7
20	204	5.3	28.7	+- 0.9; 4.3	21.3	+- 1.0; 5.7	21.1	+- 1.5
21	233	2.0	28.9	+- 0.9; 4.3	21.5	+- 1.0; 5.7	21.1	+- 1.7
22	224	4.6	29.2	+- 0.9; 4.4	21.8	+- 1.1; 5.8	21.5	+- 1.6
23	239	0.6	29.8	+- 0.9; 4.5	22.4	+- 1.1; 5.9	20.2	+- 1.9
24	243	6.9	27.0	+- 0.8; 4.1	19.5	+- 1.0; 5.5	18.2	+- 1.6
25	269	3.3	30.3	+- 0.9; 4.5	23.0	+- 1.1; 5.9	21.8	+- 1.7
26	262	5.9	30.0	+- 0.9; 4.5	22.7	+- 1.1; 5.9	22.1	+- 1.5
27	350	3.0	25.9	+- 0.8; 3.9	18.3	+- 1.0; 5.4	18.1	+- 1.9
28	292	5.0	28.3	+- 0.8; 4.2	20.8	+- 1.0; 5.7	20.2	+- 1.6
29	311	2.4	27.4	+- 0.8; 4.1	19.8	+- 1.0; 5.5	20.4	+- 1.7
30	310	5.5	28.8	+- 0.9; 4.3	21.4	+- 1.0; 5.7	20.8	+- 1.5
31	340	2.3	27.0	+- 0.8; 4.0	19.4	+- 1.0; 5.5	19.2	+- 1.5
32	338	5.3	28.5	+- 0.9; 4.3	21.1	+- 1.0; 5.7	20.1	+- 1.7
33	182	0.5	29.4	+- 0.9; 4.4	22.0	+- 1.1; 5.8	20.3	+- 2.0
35	127	2.2	27.6	+- 0.8; 4.1	20.1	+- 1.0; 5.6	18.7	+- 1.5
39	150	5.0	28.6	+- 0.9; 4.3	21.1	+- 1.0; 5.7	18.8	+- 1.7
40	73	9.5	29.8	+- 0.9; 4.5	22.4	+- 1.1; 5.9	20.3	+- 1.8
43	29	8.0	Missing Dosimeter		No Net Data		18.5	+- 1.4
44	65	3.5	27.2	+- 0.8; 4.1	19.6	+- 1.0; 5.5	17.7	+- 1.5
45	182	4.2	28.8	+- 0.9; 4.3	21.4	+- 1.0; 5.7	20.5	+- 1.5
47	298	4.5	27.5	+- 0.8; 4.1	20.0	+- 1.0; 5.6	19.3	+- 1.4
48	13	14.0	28.7	+- 0.9; 4.3	21.2	+- 1.0; 5.7	19.7	+- 1.4
49	207	18.0	27.5	+- 0.8; 4.1	20.0	+- 1.0; 5.6	20.7	+- 1.8

Transit Dose = 8.6 +- 0.5; 3.3

FORT CALHOUN

For the period 970609-971104

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	18.8 +- 1.3	3
11.26 - 33.75 NNE	20.2 +- 1.6	2
33.76 - 56.25 NE	19.6 +- 0.2	2
56.26 - 78.75 ENE	20.2 +- 1.9	4
78.76 - 101.25 E	19.4 +- 3.0	2
101.26 - 123.75 ESE	22.1 +- 0.6	2
123.76 - 146.25 SE	20.0 +- 0.2	3
146.26 - 168.75 SSE	21.3 +- 0.2	3
168.76 - 191.25 S	20.7 +- 1.9	4
191.26 - 213.75 SSW	22.3 +- 1.4	2
213.76 - 236.25 SW	21.6 +- 0.2	2
236.26 - 258.75 WSW	21.0 +- 2.1	2
258.76 - 281.25 W	22.8 +- 0.2	2
281.26 - 303.75 WNW	20.4 +- 0.6	2
303.76 - 326.25 NW	20.6 +- 1.1	2
326.26 - 348.75 NNW	20.2 +- 1.2	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	20.3 +- 1.8	8
2 - 5	20.6 +- 1.5	20
> 5	21.0 +- 1.4	11
Upwind Control	20.6 +- 0.9	2

NRC TLD DOSES FOR FORT CALHOUN AREA

Miles

0 2 4

Legend

Water
Highways

Railroads
Roads

Plant..site

FORT ST. VRAIN
 TLD Direct Radiation Environmental Monitoring
 For the period 970609-971027 141 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	8	0.8	39.3	+-	1.2; 5.9	30.3	+-	1.2; 6.6	30.2	+- 2.1
2	2	3.3	39.4	+-	1.2; 5.9	30.4	+-	1.2; 6.6	29.7	+- 2.2
3	29	2.6	38.0	+-	1.1; 5.7	29.1	+-	1.2; 6.4	29.9	+- 2.0
4	17	5.4	37.5	+-	1.1; 5.6	28.5	+-	1.2; 6.4	29.8	+- 1.6
5	54	2.1	38.1	+-	1.1; 5.7	29.2	+-	1.2; 6.4	29.3	+- 2.2
6	48	4.8	38.4	+-	1.2; 5.8	29.5	+-	1.2; 6.5	30.9	+- 1.8
7	76	2.6	39.8	+-	1.2; 6.0	30.8	+-	1.2; 6.6	31.8	+- 2.0
8	58	4.2	37.5	+-	1.1; 5.6	28.6	+-	1.2; 6.4	30.5	+- 1.8
9	100	1.5	37.4	+-	1.1; 5.6	28.5	+-	1.2; 6.3	30.7	+- 1.7
10	87	4.5	38.4	+-	1.2; 5.8	29.5	+-	1.2; 6.5	29.3	+- 1.9
11	118	1.6	39.5	+-	1.2; 5.9	30.5	+-	1.2; 6.6	32.9	+- 1.8
12	104	3.0	39.4	+-	1.2; 5.9	30.4	+-	1.2; 6.6	32.4	+- 1.8
13	143	1.6	40.7	+-	1.2; 6.1	31.7	+-	1.3; 6.8	31.4	+- 2.0
14	128	4.5	38.9	+-	1.2; 5.8	29.9	+-	1.2; 6.5	30.6	+- 1.8
15	168	2.3	36.8	+-	1.1; 5.5	27.9	+-	1.2; 6.3	28.7	+- 2.0
16	148	4.6	35.3	+-	1.1; 5.3	26.5	+-	1.1; 6.1	28.7	+- 1.9
17	182	0.8	39.9	+-	1.2; 6.0	30.9	+-	1.2; 6.7	30.4	+- 2.2
18	175	4.8	39.1	+-	1.2; 5.9	30.2	+-	1.2; 6.6	30.7	+- 2.0
19	210	0.9	37.6	+-	1.1; 5.6	28.7	+-	1.2; 6.4	31.1	+- 1.6
20	200	2.9	40.0	+-	1.2; 6.0	31.0	+-	1.2; 6.7	30.7	+- 2.3
21	234	1.3	39.3	+-	1.2; 5.9	30.3	+-	1.2; 6.6	31.5	+- 2.0
22	216	3.3	37.6	+-	1.1; 5.6	28.7	+-	1.2; 6.4	29.2	+- 1.9
23	254	2.5	37.4	+-	1.1; 5.6	28.5	+-	1.2; 6.3	29.4	+- 2.0
24	244	3.8	37.5	+-	1.1; 5.6	28.6	+-	1.2; 6.4	29.6	+- 2.1
25	278	1.5	36.6	+-	1.1; 5.5	27.7	+-	1.2; 6.2	28.7	+- 1.9
26	263	5.4	35.6	+-	1.1; 5.3	26.7	+-	1.1; 6.1	30.2	+- 2.4
27	297	1.7	37.7	+-	1.1; 5.6	28.7	+-	1.2; 6.4	28.5	+- 1.9
28	284	5.6	38.1	+-	1.1; 5.7	29.1	+-	1.2; 6.4	29.6	+- 1.8
29	317	0.9	36.3	+-	1.1; 5.4	27.5	+-	1.1; 6.2	28.8	+- 2.0
30	305	4.2	35.2	+-	1.1; 5.3	26.4	+-	1.1; 6.1	26.9	+- 1.9
31	338	1.4	36.0	+-	1.1; 5.4	27.2	+-	1.1; 6.2	29.0	+- 2.1
32	330	5.0	34.5	+-	1.0; 5.2	25.7	+-	1.1; 6.0	26.5	+- 2.1
33	267	6.5	34.6	+-	1.0; 5.2	25.7	+-	1.1; 6.0	28.4	+- 2.6
34	130	3.7	34.8	+-	1.0; 5.2	26.0	+-	1.1; 6.0	28.8	+- 2.0
35	270	0.1	35.8	+-	1.1; 5.4	27.0	+-	1.1; 6.2	28.5	+- 2.0
38	345	6.7	38.0	+-	1.1; 5.7	29.1	+-	1.2; 6.4	30.8	+- 1.9
39	10	6.0	35.9	+-	1.1; 5.4	27.0	+-	1.1; 6.2	28.3	+- 2.1
40	63	6.0	35.1	+-	1.1; 5.3	26.3	+-	1.1; 6.1	28.4	+- 2.1
41	165	12.0	39.0	+-	1.2; 5.8	30.0	+-	1.2; 6.5	31.9	+- 1.7
42	248	13.0	41.0	+-	1.2; 6.2	32.0	+-	1.3; 6.8	33.1	+- 2.5
45	198	11.0	38.5	+-	1.2; 5.8	29.6	+-	1.2; 6.5	30.4	+- 2.0
46	39	16.0	37.6	+-	1.1; 5.6	28.7	+-	1.2; 6.4	27.6	+- 1.9
47	357	17.0	35.3	+-	1.1; 5.3	26.4	+-	1.1; 6.1	26.8	+- 1.8
48	171	18.0	36.3	+-	1.1; 5.4	27.4	+-	1.1; 6.2	30.8	+- 2.1
49	360	0.5	39.9	+-	1.2; 6.0	30.9	+-	1.2; 6.7	32.2	+- 2.0

Transit Dose = 8.0 +- 0.5; 3.4

FORT ST. VRAIN
For the period 970609-971027

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	29.3 +- 1.9	3
11.26 - 33.75 NNE	28.8 +- 0.4	2
33.76 - 56.25 NE	29.1 +- 0.4	3
56.26 - 78.75 ENE	28.5 +- 2.3	3
78.76 - 101.25 E	29.0 +- 0.7	2
101.26 - 123.75 ESE	30.5 +- 0.1	2
123.76 - 146.25 SE	29.2 +- 2.9	3
146.26 - 168.75 SSE	28.1 +- 1.8	3
168.76 - 191.25 S	30.5 +- 0.5	2
191.26 - 213.75 SSW	29.8 +- 1.2	3
213.76 - 236.25 SW	29.5 +- 1.2	2
236.26 - 258.75 WSW	29.7 +- 2.0	3
258.76 - 281.25 W	26.8 +- 0.8	4
281.26 - 303.75 WNW	28.9 +- 0.3	2
303.76 - 326.25 NW	26.9 +- 0.8	2
326.26 - 348.75 NNW	27.3 +- 1.7	3

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	29.1 +- 1.6	12
2 - 5	28.8 +- 1.6	19
> 5	28.4 +- 1.9	11
Upwind Control	28.2 +- 2.3	3

NRC TLD DOSES FOR FORT ST. VRAIN AREA

Miles

0 2 4

Legend

Water

Highways

Railroads

Roads

Plant..site

TLD..data

GINNA

TLD Direct Radiation Environmental Monitoring

For the period 970611-971022 134 Days

Field Time: 100 Days

NRC Sta	Location		Gross Exposure (mR)			Net Exposure Rate (mR/Std. Qtr.)			Hist. Range	
	Azimuth/Dist (Deg)/(Mi)		+-Rdm; Tot.			+-Rdm; Tot.			Net Exp Rate +-1 Std Dev	
1	95	1.7	19.6	+-	0.6; 2.9	15.2	+-	0.6; 3.9	14.7	+- 0.9
2	108	1.1	18.4	+-	0.6; 2.8	14.2	+-	0.6; 3.7	14.2	+- 1.1
3	142	1.7	18.4	+-	0.6; 2.8	14.2	+-	0.6; 3.7	14.1	+- 1.0
4	154	1.5	18.6	+-	0.6; 2.8	14.3	+-	0.6; 3.8	14.7	+- 1.1
5	174	1.4	18.9	+-	0.6; 2.8	14.6	+-	0.6; 3.8	15.1	+- 1.3
6	212	1.6	18.3	+-	0.5; 2.7	14.1	+-	0.6; 3.7	13.8	+- 1.1
7	244	0.9	18.4	+-	0.6; 2.8	14.1	+-	0.6; 3.7	13.8	+- 1.0
8	230	0.6	18.2	+-	0.5; 2.7	13.9	+-	0.6; 3.7	14.7	+- 1.6
10	266	1.5	19.7	+-	0.6; 3.0	15.3	+-	0.6; 3.9	14.4	+- 1.1
11	264	4.6	18.7	+-	0.6; 2.8	14.5	+-	0.6; 3.8	15.7	+- 1.1
12	245	3.8	19.3	+-	0.6; 2.9	15.0	+-	0.6; 3.8	14.2	+- 1.2
13	235	4.2	18.0	+-	0.5; 2.7	13.8	+-	0.6; 3.7	13.6	+- 1.2
14	200	3.8	17.6	+-	0.5; 2.6	13.5	+-	0.6; 3.7	13.2	+- 1.3
15	178	3.4	20.5	+-	0.6; 3.1	16.1	+-	0.6; 3.9	14.8	+- 1.3
16	160	3.7	16.7	+-	0.5; 2.5	12.7	+-	0.5; 3.6	13.3	+- 1.4
17	134	3.8	17.5	+-	0.5; 2.6	13.4	+-	0.6; 3.7	13.3	+- 1.5
18	115	4.3	19.0	+-	0.6; 2.9	14.7	+-	0.6; 3.8	14.3	+- 1.5
19	88	4.0	16.8	+-	0.5; 2.5	12.7	+-	0.5; 3.6	13.2	+- 1.4
20	90	6.2	17.0	+-	0.5; 2.5	12.9	+-	0.5; 3.6	13.1	+- 1.1
21	123	7.6	16.3	+-	0.5; 2.4	12.3	+-	0.5; 3.6	12.9	+- 1.3
22	151	11.0	16.9	+-	0.5; 2.5	12.8	+-	0.5; 3.6	13.4	+- 1.1
23	105	12.0	18.1	+-	0.5; 2.7	13.9	+-	0.6; 3.7	13.9	+- 1.2
24	212	14.0	22.9	+-	0.7; 3.4	18.2	+-	0.7; 4.2	18.1	+- 1.0
25	223	13.0	18.0	+-	0.5; 2.7	13.8	+-	0.6; 3.7	13.7	+- 1.4
26	242	16.0	21.6	+-	0.6; 3.2	17.1	+-	0.7; 4.0	15.7	+- 1.0
27	254	14.0	19.6	+-	0.6; 2.9	15.3	+-	0.6; 3.9	15.3	+- 1.3
28	234	6.9	18.5	+-	0.6; 2.8	14.3	+-	0.6; 3.8	14.0	+- 0.9
29	185	0.3	19.4	+-	0.6; 2.9	15.1	+-	0.6; 3.8	15.5	+- 1.0
30	264	15.0	18.1	+-	0.5; 2.7	13.9	+-	0.6; 3.7	13.5	+- 1.3

Transit Dose = 2.7 +- 0.3; 3.1

GINNA

For the period 970611-971022

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	13.6 +- 1.4	3
101.26 - 123.75 ESE	13.8 +- 1.1	4
123.76 - 146.25 SE	13.8 +- 0.6	2
146.26 - 168.75 SSE	13.3 +- 0.9	3
168.76 - 191.25 S	15.3 +- 0.7	3
191.26 - 213.75 SSW	15.3 +- 2.6	3
213.76 - 236.25 SW	14.0 +- 0.2	4
236.26 - 258.75 WSW	14.6 +- 0.6	2
258.76 - 281.25 W	14.9 +- 0.6	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	14.5 +- 0.5	10
2 - 5	14.0 +- 1.1	9
> 5	14.0 +- 2.0	7
Upwind Control	15.4 +- 1.6	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 970611-971021 133 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	337	2.0	Missing Dosimeter		No Net Data		15.9	+- 1.9
2	351	1.6	19.5	+- 0.6; 2.9	15.9	+- 0.6; 3.8	15.2	+- 1.0
3	20	1.5	22.1	+- 0.7; 3.3	18.2	+- 0.7; 4.1	17.6	+- 1.4
4	51	2.3	21.9	+- 0.7; 3.3	18.0	+- 0.7; 4.1	17.0	+- 1.1
5	68	2.7	24.0	+- 0.7; 3.6	20.0	+- 0.7; 4.3	17.8	+- 1.4
6	47	4.1	20.0	+- 0.6; 3.0	16.3	+- 0.6; 3.9	16.0	+- 1.3
7	68	4.9	23.8	+- 0.7; 3.6	19.8	+- 0.7; 4.3	19.1	+- 1.2
8	91	3.2	23.7	+- 0.7; 3.5	19.6	+- 0.7; 4.2	19.1	+- 1.1
9	81	1.0	23.1	+- 0.7; 3.5	19.1	+- 0.7; 4.2	17.8	+- 1.0
10	109	0.6	24.5	+- 0.7; 3.7	20.4	+- 0.7; 4.3	19.1	+- 1.1
11	139	0.8	21.2	+- 0.6; 3.2	17.4	+- 0.6; 4.0	19.1	+- 1.3
12	185	1.6	23.4	+- 0.7; 3.5	19.4	+- 0.7; 4.2	18.2	+- 0.9
13	207	1.9	24.0	+- 0.7; 3.6	20.0	+- 0.7; 4.3	19.2	+- 0.8
14	247	1.5	19.5	+- 0.6; 2.9	15.8	+- 0.6; 3.8	17.2	+- 2.5
15	130	4.2	22.1	+- 0.7; 3.3	18.2	+- 0.7; 4.1	18.5	+- 1.0
16	122	4.8	21.7	+- 0.7; 3.3	17.9	+- 0.7; 4.1	18.3	+- 1.2
17	135	5.3	21.7	+- 0.7; 3.3	17.9	+- 0.7; 4.1	17.2	+- 0.9
18	147	4.3	18.9	+- 0.6; 2.8	15.3	+- 0.6; 3.8	15.4	+- 0.9
19	224	6.8	22.2	+- 0.7; 3.3	18.4	+- 0.7; 4.1	18.6	+- 1.1
20	172	3.6	20.1	+- 0.6; 3.0	16.4	+- 0.6; 3.9	16.6	+- 0.8
21	291	12.0	20.5	+- 0.6; 3.1	16.8	+- 0.6; 3.9	17.0	+- 0.9
22	332	8.0	23.3	+- 0.7; 3.5	19.3	+- 0.7; 4.2	19.4	+- 1.1
23	310	7.9	18.6	+- 0.6; 2.8	15.0	+- 0.6; 3.8	15.4	+- 2.8
24	281	7.0	20.6	+- 0.6; 3.1	16.8	+- 0.6; 3.9	16.6	+- 1.0
25	291	4.8	22.3	+- 0.7; 3.3	18.4	+- 0.7; 4.1	18.2	+- 1.0
26	248	9.5	20.9	+- 0.6; 3.1	17.2	+- 0.6; 4.0	16.8	+- 1.0
27	239	13.0	21.1	+- 0.6; 3.2	17.4	+- 0.6; 4.0	16.3	+- 1.1
29	90	0.9	20.6	+- 0.6; 3.1	16.8	+- 0.6; 3.9	17.8	+- 0.9
30	67	51.0	17.0	+- 0.5; 2.6	13.6	+- 0.5; 3.6	13.9	+- 1.4
31	67	51.0	17.7	+- 0.5; 2.7	14.2	+- 0.6; 3.7	14.6	+- 1.3
32	67	51.0	16.9	+- 0.5; 2.5	13.5	+- 0.5; 3.6	14.0	+- 1.4
33	206	4.8	22.3	+- 0.7; 3.4	18.4	+- 0.7; 4.1	18.4	+- 1.0

Transit Dose = 2.1 +- 0.3; 3.0

GRAND GULF

For the period 970611-971021

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 +- 0.0	1
11.26 - 33.75 NNE	18.2 +- 0.0	1
33.76 - 56.25 NE	17.2 +- 1.2	2
56.26 - 78.75 ENE	19.9 +- 0.1	2
78.76 - 101.25 E	18.5 +- 1.5	3
101.26 - 123.75 ESE	19.1 +- 1.8	2
123.76 - 146.25 SE	17.8 +- 0.4	3
146.26 - 168.75 SSE	15.3 +- 0.0	1
168.76 - 191.25 S	17.9 +- 2.1	2
191.26 - 213.75 SSW	19.2 +- 1.1	2
213.76 - 236.25 SW	18.4 +- 0.0	1
236.26 - 258.75 WSW	16.8 +- 0.8	3
258.76 - 281.25 W	16.8 +- 0.0	1
281.26 - 303.75 WNW	17.6 +- 1.1	2
303.76 - 326.25 NW	15.0 +- 0.0	1
326.26 - 348.75 NNW	19.3 +- 0.0	1

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	18.1 +- 1.7	9
2 - 5	18.0 +- 1.5	11
> 5	17.3 +- 1.3	8
Upwind Control	13.8 +- 0.4	3

NRC TLD DOSES FOR GRAND GULF AREA

Miles

0 2 4

Legend

Water

Highways

--- Railroads

--- Roads

Plant..site

HADDAM NECK

TLD Direct Radiation Environmental Monitoring

For the period 970611-971029 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
2	17	2.6	23.6	+- 0.7; 3.5	19.6	+- 0.6; 4.0	19.1 +- 1.4
3	45	1.9	Missing Dosimeter		No Net Data		19.3 +- 1.4
4	67	2.3	24.4	+- 0.7; 3.7	20.3	+- 0.7; 4.1	18.2 +- 1.4
5	93	1.6	21.9	+- 0.7; 3.3	18.2	+- 0.6; 3.9	16.4 +- 1.2
6	115	2.3	20.9	+- 0.6; 3.1	17.3	+- 0.6; 3.8	16.0 +- 1.2
7	143	1.9	23.4	+- 0.7; 3.5	19.4	+- 0.6; 4.0	18.1 +- 1.3
8	165	0.9	21.4	+- 0.6; 3.2	17.8	+- 0.6; 3.8	16.8 +- 1.2
9	174	1.3	24.7	+- 0.7; 3.7	20.6	+- 0.7; 4.1	18.8 +- 1.4
10	195	0.7	21.7	+- 0.7; 3.3	18.0	+- 0.6; 3.8	16.6 +- 1.2
12	241	0.8	22.2	+- 0.7; 3.3	18.4	+- 0.6; 3.9	17.5 +- 1.3
13	263	0.8	22.3	+- 0.7; 3.3	18.5	+- 0.6; 3.9	16.4 +- 1.3
14	290	1.9	23.3	+- 0.7; 3.5	19.4	+- 0.6; 4.0	18.2 +- 1.2
15	311	1.5	20.0	+- 0.6; 3.0	16.6	+- 0.6; 3.7	15.8 +- 1.2
16	341	1.3	20.3	+- 0.6; 3.0	16.8	+- 0.6; 3.7	16.9 +- 1.2
17	360	2.3	21.5	+- 0.6; 3.2	17.9	+- 0.6; 3.8	19.4 +- 1.4
18	222	2.5	20.7	+- 0.6; 3.1	17.2	+- 0.6; 3.7	16.4 +- 1.1
19	269	3.0	20.5	+- 0.6; 3.1	17.0	+- 0.6; 3.7	16.0 +- 1.3
20	66	3.2	21.4	+- 0.6; 3.2	17.7	+- 0.6; 3.8	16.9 +- 1.2
21	91	2.8	23.5	+- 0.7; 3.5	19.5	+- 0.6; 4.0	18.3 +- 1.2
22	112	3.2	23.2	+- 0.7; 3.5	19.3	+- 0.6; 4.0	17.5 +- 1.5
23	137	2.9	22.6	+- 0.7; 3.4	18.8	+- 0.6; 3.9	17.2 +- 1.4
24	155	7.1	19.1	+- 0.6; 2.9	15.8	+- 0.5; 3.6	16.1 +- 1.2
25	175	5.7	21.2	+- 0.6; 3.2	17.6	+- 0.6; 3.8	16.5 +- 1.2
26	196	2.5	19.8	+- 0.6; 3.0	16.4	+- 0.6; 3.7	15.7 +- 1.2
27	225	1.1	22.2	+- 0.7; 3.3	18.5	+- 0.6; 3.9	17.6 +- 1.2
28	250	3.5	23.9	+- 0.7; 3.6	19.9	+- 0.7; 4.0	17.7 +- 2.0
29	340	20.0	21.8	+- 0.7; 3.3	18.0	+- 0.6; 3.8	19.1 +- 2.4
30	286	3.2	19.9	+- 0.6; 3.0	16.5	+- 0.6; 3.7	16.4 +- 1.1
31	322	2.7	22.3	+- 0.7; 3.3	18.5	+- 0.6; 3.9	17.5 +- 1.3
32	327	2.9	24.0	+- 0.7; 3.6	19.9	+- 0.7; 4.0	19.5 +- 1.1
33	359	6.4	20.7	+- 0.6; 3.1	17.1	+- 0.6; 3.7	16.3 +- 1.2
35	54	10.0	21.8	+- 0.7; 3.3	18.1	+- 0.6; 3.8	17.3 +- 1.5
36	72	8.8	23.8	+- 0.7; 3.6	19.8	+- 0.7; 4.0	19.2 +- 1.5
37	149	6.8	21.0	+- 0.6; 3.2	17.4	+- 0.6; 3.8	15.7 +- 1.1
38	158	5.9	21.1	+- 0.6; 3.2	17.5	+- 0.6; 3.8	15.4 +- 1.3
39	267	8.8	19.9	+- 0.6; 3.0	16.5	+- 0.6; 3.7	16.7 +- 1.3
40	303	9.1	22.9	+- 0.7; 3.4	19.0	+- 0.6; 3.9	18.1 +- 1.2
41	313	9.6	21.1	+- 0.6; 3.2	17.5	+- 0.6; 3.8	16.7 +- 1.2
42	320	13.0	22.9	+- 0.7; 3.4	19.0	+- 0.6; 3.9	18.5 +- 1.3
43	324	18.0	20.3	+- 0.6; 3.0	16.8	+- 0.6; 3.7	16.1 +- 1.1
44	328	15.0	21.3	+- 0.6; 3.2	17.7	+- 0.6; 3.8	18.0 +- 1.6
45	343	18.0	24.2	+- 0.7; 3.6	20.1	+- 0.7; 4.1	18.8 +- 1.5
46	144	5.0	23.5	+- 0.7; 3.5	19.5	+- 0.6; 4.0	18.2 +- 1.4
49	340	20.0	22.5	+- 0.7; 3.4	18.6	+- 0.6; 3.9	18.4 +- 1.4

Transit Dose = 0.5 +- 0.3; 3.1

HADDAM NECK
For the period 970611-971029

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 +- 0.5	2
11.26 - 33.75 NNE	19.6 +- 0.0	1
33.76 - 56.25 NE	18.1 +- 0.0	1
56.26 - 78.75 ENE	19.3 +- 1.4	3
78.76 - 101.25 E	18.8 +- 0.9	2
101.26 - 123.75 ESE	18.3 +- 1.4	2
123.76 - 146.25 SE	19.2 +- 0.4	3
146.26 - 168.75 SSE	17.1 +- 0.9	4
168.76 - 191.25 S	19.1 +- 2.1	2
191.26 - 213.75 SSW	17.2 +- 1.2	2
213.76 - 236.25 SW	17.8 +- 0.9	2
236.26 - 258.75 WSW	19.1 +- 1.0	2
258.76 - 281.25 W	17.3 +- 1.1	3
281.26 - 303.75 WNW	18.3 +- 1.6	3
303.76 - 326.25 NW	17.7 +- 1.1	5
326.26 - 348.75 NNW	18.5 +- 1.5	5

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	18.4 +- 1.2	11
2 - 5	18.4 +- 1.3	16
> 5	17.8 +- 1.2	15
Upwind Control	18.6 +- 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 970611-971023 135 Days

Field Time: 91 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	36	2.6	19.8 +- 0.6; 3.0		14.2 +- 0.7; 4.2		16.3 +- 2.0	
2	25	3.2	18.4 +- 0.6; 2.8		12.9 +- 0.7; 4.1		14.5 +- 1.6	
3	5	2.5	18.7 +- 0.6; 2.8		13.1 +- 0.7; 4.1		16.3 +- 1.7	
4	27	1.5	19.3 +- 0.6; 2.9		13.7 +- 0.7; 4.2		16.7 +- 2.4	
5	36	0.9	17.2 +- 0.5; 2.6		11.6 +- 0.6; 4.0		13.8 +- 1.6	
6	68	0.8	15.6 +- 0.5; 2.3		10.1 +- 0.6; 3.8		12.5 +- 1.5	
7	98	0.7	18.5 +- 0.6; 2.8		12.9 +- 0.7; 4.1		14.9 +- 1.5	
8	232	0.7	17.6 +- 0.5; 2.6		12.1 +- 0.6; 4.0		13.7 +- 1.5	
9	190	0.8	15.7 +- 0.5; 2.3		10.1 +- 0.6; 3.8		12.4 +- 1.4	
10	158	0.7	16.6 +- 0.5; 2.5		11.0 +- 0.6; 3.9		13.3 +- 1.8	
11	42	4.7	19.9 +- 0.6; 3.0		14.3 +- 0.7; 4.3		18.6 +- 2.3	
12	40	8.6	18.8 +- 0.6; 2.8		13.2 +- 0.7; 4.1		16.2 +- 1.6	
13	298	13.0	21.7 +- 0.7; 3.3		16.1 +- 0.7; 4.4		14.4 +- 2.1	
14	298	12.0	16.2 +- 0.5; 2.4		10.6 +- 0.6; 3.9		14.0 +- 1.7	
15	298	11.0	17.1 +- 0.5; 2.6		11.5 +- 0.6; 4.0		12.7 +- 1.6	
16	332	4.8	17.5 +- 0.5; 2.6		11.9 +- 0.6; 4.0		14.2 +- 2.0	
17	291	4.5	13.6 +- 0.4; 2.0		8.1 +- 0.6; 3.7		11.6 +- 2.2	
18	270	5.1	16.3 +- 0.5; 2.4		10.8 +- 0.6; 3.9		13.6 +- 2.1	
19	240	5.1	19.0 +- 0.6; 2.8		13.4 +- 0.7; 4.2		16.4 +- 2.0	
20	227	4.8	16.7 +- 0.5; 2.5		11.1 +- 0.6; 3.9		12.5 +- 1.4	
21	208	4.8	14.9 +- 0.4; 2.2		9.3 +- 0.6; 3.8		12.2 +- 1.5	
22	190	4.6	17.2 +- 0.5; 2.6		11.6 +- 0.6; 4.0		13.9 +- 1.6	
23	151	4.8	16.1 +- 0.5; 2.4		10.5 +- 0.6; 3.9		13.7 +- 2.1	
24	132	4.7	17.4 +- 0.5; 2.6		11.8 +- 0.6; 4.0		13.3 +- 1.8	
25	112	5.0	16.9 +- 0.5; 2.5		11.3 +- 0.6; 4.0		15.4 +- 2.0	
26	92	4.6	15.7 +- 0.5; 2.4		10.2 +- 0.6; 3.9		12.4 +- 1.6	
27	115	2.8	16.4 +- 0.5; 2.5		10.9 +- 0.6; 3.9		13.6 +- 1.8	
28	135	2.3	13.9 +- 0.4; 2.1		8.3 +- 0.6; 3.7		11.2 +- 1.7	
29	164	2.2	17.6 +- 0.5; 2.6		12.0 +- 0.6; 4.0		14.2 +- 2.2	
30	49	2.2	17.4 +- 0.5; 2.6		11.8 +- 0.6; 4.0		13.7 +- 1.7	
31	276	1.8	16.9 +- 0.5; 2.5		11.3 +- 0.6; 4.0		13.6 +- 1.8	
32	292	1.7	18.2 +- 0.5; 2.7		12.6 +- 0.7; 4.1		16.8 +- 2.0	
33	314	1.4	16.2 +- 0.5; 2.4		10.7 +- 0.6; 3.9		15.8 +- 1.8	
34	329	1.3	18.0 +- 0.5; 2.7		12.4 +- 0.7; 4.1		16.1 +- 2.1	
35	350	4.5	18.3 +- 0.5; 2.7		12.7 +- 0.7; 4.1		15.5 +- 1.6	
36	338	4.4	18.3 +- 0.5; 2.7		12.7 +- 0.7; 4.1		15.5 +- 3.4	
37	16	4.9	15.5 +- 0.5; 2.3		9.9 +- 0.6; 3.8		14.6 +- 2.9	
38	68	4.8	15.9 +- 0.5; 2.4		10.3 +- 0.6; 3.9		12.0 +- 1.5	
39	80	6.9	18.9 +- 0.6; 2.8		13.3 +- 0.7; 4.2		14.4 +- 1.2	
40	80	6.9	15.9 +- 0.5; 2.4		10.4 +- 0.6; 3.9		13.4 +- 2.0	
41	118	9.7	21.8 +- 0.7; 3.3		16.2 +- 0.8; 4.5		18.7 +- 1.7	
42	260	1.1	16.3 +- 0.5; 2.4		10.7 +- 0.6; 3.9		13.6 +- 1.7	
43	333	1.7	17.9 +- 0.5; 2.7		12.3 +- 0.7; 4.1		15.4 +- 2.4	
44	50	24.0	22.6 +- 0.7; 3.4		17.0 +- 0.8; 4.5		19.9 +- 2.1	

Transit Dose = 5.5 +- 0.4; 3.1

HARRIS

For the period 970611-971023

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	12.9 +- 0.3	2
11.26 - 33.75 NNE	12.2 +- 2.0	3
33.76 - 56.25 NE	13.7 +- 2.0	6
56.26 - 78.75 ENE	10.2 +- 0.2	2
78.76 - 101.25 E	11.7 +- 1.6	4
101.26 - 123.75 ESE	12.8 +- 3.0	3
123.76 - 146.25 SE	10.1 +- 2.4	2
146.26 - 168.75 SSE	11.2 +- 0.7	3
168.76 - 191.25 S	10.9 +- 1.1	2
191.26 - 213.75 SSW	9.3 +- 0.0	1
213.76 - 236.25 SW	11.6 +- 0.7	2
236.26 - 258.75 WSW	13.4 +- 0.0	1
258.76 - 281.25 W	10.9 +- 0.3	3
281.26 - 303.75 WNW	10.3 +- 3.2	2
303.76 - 326.25 NW	10.7 +- 0.0	1
326.26 - 348.75 NNW	12.3 +- 0.3	4

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	11.6 +- 1.1	13
2 - 5	11.4 +- 1.7	21
> 5	13.5 +- 2.5	7
Upwind Control	12.7 +- 2.9	3

NRC TLD DOSES FOR HARRIS AREA

Miles

Legend

Water

Highways

Railroads

Roads

Plant..site

HATCH

TLD Direct Radiation Environmental Monitoring

For the period 970610-971030 143 Days

Field Time: 91 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	342	23.0	21.8 +- 0.7; 3.3		19.4 +- 0.7; 4.3		16.4 +- 1.8	
2	359	7.7	18.1 +- 0.5; 2.7		15.8 +- 0.6; 3.9		14.3 +- 1.8	
3	354	4.5	18.8 +- 0.6; 2.8		16.4 +- 0.6; 3.9		14.5 +- 1.9	
4	336	2.9	16.9 +- 0.5; 2.5		14.6 +- 0.6; 3.7		13.1 +- 1.8	
5	309	4.6	17.8 +- 0.5; 2.7		15.5 +- 0.6; 3.8		13.6 +- 1.9	
6	297	5.6	20.0 +- 0.6; 3.0		17.7 +- 0.7; 4.1		15.8 +- 1.9	
7	24	2.8	18.6 +- 0.6; 2.8		16.3 +- 0.6; 3.9		14.1 +- 2.1	
8	49	2.0	18.1 +- 0.5; 2.7		15.8 +- 0.6; 3.9		14.1 +- 1.8	
9	49	10.0	17.7 +- 0.5; 2.7		15.4 +- 0.6; 3.8		13.6 +- 1.8	
10	28	4.8	19.6 +- 0.6; 2.9		17.3 +- 0.6; 4.0		14.1 +- 1.7	
11	67	5.0	18.0 +- 0.5; 2.7		15.7 +- 0.6; 3.9		14.3 +- 1.7	
12	50	5.1	23.4 +- 0.7; 3.5		21.0 +- 0.8; 4.4		18.2 +- 2.0	
13	353	2.0	16.3 +- 0.5; 2.5		14.0 +- 0.6; 3.7		12.6 +- 1.5	
14	341	1.6	19.0 +- 0.6; 2.8		16.6 +- 0.6; 4.0		14.6 +- 1.9	
15	147	10.0	17.5 +- 0.5; 2.6		15.1 +- 0.6; 3.8		12.9 +- 1.6	
16	232	0.9	18.1 +- 0.5; 2.7		15.8 +- 0.6; 3.9		13.2 +- 1.7	
17	205	1.6	19.5 +- 0.6; 2.9		17.2 +- 0.6; 4.0		14.4 +- 1.7	
18	192	4.2	16.7 +- 0.5; 2.5		14.4 +- 0.6; 3.7		11.5 +- 1.6	
19	184	4.2	15.9 +- 0.5; 2.4		13.6 +- 0.6; 3.6		11.5 +- 1.9	
20	165	4.6	16.7 +- 0.5; 2.5		14.4 +- 0.6; 3.7		12.3 +- 1.8	
21	135	4.4	16.9 +- 0.5; 2.5		14.6 +- 0.6; 3.7		12.7 +- 1.6	
22	120	4.1	17.9 +- 0.5; 2.7		15.6 +- 0.6; 3.8		13.7 +- 1.8	
23	107	3.7	16.6 +- 0.5; 2.5		14.3 +- 0.6; 3.7		13.1 +- 1.9	
24	123	14.0	16.9 +- 0.5; 2.5		14.6 +- 0.6; 3.7		12.3 +- 1.7	
25	114	12.0	18.8 +- 0.6; 2.8		16.5 +- 0.6; 3.9		13.5 +- 1.6	
26	142	1.8	18.5 +- 0.6; 2.8		16.1 +- 0.6; 3.9		14.3 +- 1.7	
27	157	2.2	17.4 +- 0.5; 2.6		15.1 +- 0.6; 3.8		13.2 +- 1.7	
28	171	0.9	19.0 +- 0.6; 2.9		16.7 +- 0.6; 4.0		14.5 +- 1.7	
29	253	1.0	17.8 +- 0.5; 2.7		15.5 +- 0.6; 3.8		13.4 +- 1.7	
30	270	1.0	20.3 +- 0.6; 3.0		17.9 +- 0.7; 4.1		15.2 +- 2.5	
31	292	1.1	18.3 +- 0.5; 2.7		16.0 +- 0.6; 3.9		13.6 +- 1.9	
32	268	4.2	18.0 +- 0.5; 2.7		15.7 +- 0.6; 3.9		13.6 +- 1.5	
33	248	4.3	17.3 +- 0.5; 2.6		15.0 +- 0.6; 3.8		12.1 +- 1.8	
34	216	4.1	16.1 +- 0.5; 2.4		13.8 +- 0.6; 3.7		11.7 +- 1.9	
35	234	12.0	19.5 +- 0.6; 2.9		17.1 +- 0.6; 4.0		14.2 +- 2.2	
36	182	10.0	15.1 +- 0.5; 2.3		12.8 +- 0.5; 3.6		12.6 +- 2.7	
37	177	10.0	16.1 +- 0.5; 2.4		13.8 +- 0.6; 3.7		12.6 +- 1.7	
38	323	12.0	19.3 +- 0.6; 2.9		17.0 +- 0.6; 4.0		15.0 +- 1.7	
39	321	13.0	19.6 +- 0.6; 2.9		17.3 +- 0.6; 4.0		15.2 +- 1.8	
40	323	12.0	19.2 +- 0.6; 2.9		16.8 +- 0.6; 4.0		15.2 +- 1.9	

Transit Dose = 2.1 +- 0.3; 2.8

HATCH

For the period 970610-971030

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	15.4 +- 1.2	3
11.26 - 33.75 NNE	16.8 +- 0.7	2
33.76 - 56.25 NE	17.4 +- 3.1	3
56.26 - 78.75 ENE	15.7 +- 0.0	1
78.76 - 101.25 E	No Data +- No Data	0
101.26 - 123.75 ESE	15.2 +- 1.0	4
123.76 - 146.25 SE	15.4 +- 1.1	2
146.26 - 168.75 SSE	14.9 +- 0.4	3
168.76 - 191.25 S	14.2 +- 1.7	4
191.26 - 213.75 SSW	15.8 +- 2.0	2
213.76 - 236.25 SW	15.6 +- 1.7	3
236.26 - 258.75 WSW	15.2 +- 0.4	2
258.76 - 281.25 W	16.8 +- 1.6	2
281.26 - 303.75 WNW	16.8 +- 1.2	2
303.76 - 326.25 NW	15.5 +- 0.0	1
326.26 - 348.75 NNW	16.9 +- 2.4	3

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	16.2 +- 1.1	10
2 - 5	15.1 +- 1.0	16
> 5	16.3 +- 2.4	11
Upwind Control	17.0 +- 0.3	3

NRC TLD DOSES FOR HATCH AREA

Miles

Legend

Water

Highways

Railroads

Roads

Plant site

INDIAN POINT

TLD Direct Radiation Environmental Monitoring

For the period 970611-971022 134 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	52	1.4	16.7	+- 0.5; 2.5	12.9	+- 0.5; 3.6	12.3 +- 1.2
2	53	1.0	19.4	+- 0.6; 2.9	15.4	+- 0.6; 3.9	14.1 +- 1.1
3	61	1.5	21.1	+- 0.6; 3.2	17.0	+- 0.7; 4.0	15.0 +- 1.0
4	89	1.2	20.0	+- 0.6; 3.0	16.0	+- 0.6; 3.9	15.3 +- 1.2
5	107	0.9	19.2	+- 0.6; 2.9	15.2	+- 0.6; 3.9	15.2 +- 1.1
6	90	0.5	20.5	+- 0.6; 3.1	16.4	+- 0.6; 4.0	15.4 +- 1.2
7	133	0.8	18.8	+- 0.6; 2.8	14.9	+- 0.6; 3.8	14.6 +- 1.2
8	158	0.8	20.2	+- 0.6; 3.0	16.2	+- 0.6; 4.0	15.9 +- 1.1
9	188	1.2	21.6	+- 0.6; 3.2	17.4	+- 0.7; 4.1	16.1 +- 1.2
10	206	0.9	19.1	+- 0.6; 2.9	15.1	+- 0.6; 3.8	14.8 +- 1.4
11	170	1.1	17.8	+- 0.5; 2.7	13.9	+- 0.6; 3.7	13.5 +- 1.0
12	155	2.3	18.6	+- 0.6; 2.8	14.7	+- 0.6; 3.8	14.6 +- 1.1
13	136	3.2	20.2	+- 0.6; 3.0	16.1	+- 0.6; 3.9	15.1 +- 1.1
14	107	3.1	18.0	+- 0.5; 2.7	14.1	+- 0.6; 3.7	13.7 +- 1.1
15	94	3.8	17.9	+- 0.5; 2.7	14.1	+- 0.6; 3.7	14.4 +- 1.0
16	142	5.7	19.6	+- 0.6; 2.9	15.6	+- 0.6; 3.9	15.9 +- 1.1
18	147	9.1	20.5	+- 0.6; 3.1	16.4	+- 0.6; 4.0	16.2 +- 1.0
19	137	12.0	18.2	+- 0.5; 2.7	14.3	+- 0.6; 3.8	14.1 +- 1.4
20	129	12.0	18.0	+- 0.5; 2.7	14.1	+- 0.6; 3.7	14.5 +- 1.1
22	74	7.5	19.6	+- 0.6; 2.9	15.6	+- 0.6; 3.9	15.2 +- 1.1
23	5	100.0	22.3	+- 0.7; 3.3	18.1	+- 0.7; 4.2	16.8 +- 1.3
24	5	100.0	22.0	+- 0.7; 3.3	17.8	+- 0.7; 4.1	16.6 +- 1.3
25	65	4.1	18.8	+- 0.6; 2.8	14.9	+- 0.6; 3.8	14.3 +- 1.2
26	40	4.0	22.3	+- 0.7; 3.3	18.0	+- 0.7; 4.2	17.7 +- 1.2
27	25	5.3	21.9	+- 0.7; 3.3	17.7	+- 0.7; 4.1	16.5 +- 1.1
28	24	2.9	21.0	+- 0.6; 3.2	16.9	+- 0.7; 4.0	15.3 +- 1.2
29	22	2.1	20.1	+- 0.6; 3.0	16.1	+- 0.6; 3.9	15.4 +- 1.1
30	8	1.9	22.9	+- 0.7; 3.4	18.6	+- 0.7; 4.2	16.7 +- 1.3
31	356	5.0	20.9	+- 0.6; 3.1	16.8	+- 0.6; 4.0	15.3 +- 1.2
32	330	3.7	18.8	+- 0.6; 2.8	14.8	+- 0.6; 3.8	16.0 +- 1.8
33	338	4.7	20.9	+- 0.6; 3.1	16.8	+- 0.6; 4.0	16.9 +- 1.5
34	354	7.0	22.4	+- 0.7; 3.4	18.2	+- 0.7; 4.2	18.9 +- 3.0
35	297	4.4	Missing Dosimeter		No Net Data		15.9 +- 1.3
36	309	3.6	25.9	+- 0.8; 3.9	21.4	+- 0.8; 4.5	21.7 +- 5.3
37	350	1.1	21.3	+- 0.6; 3.2	17.2	+- 0.7; 4.1	16.5 +- 1.1
38	337	0.9	Missing Dosimeter		No Net Data		16.4 +- 1.5
39	315	1.0	20.1	+- 0.6; 3.0	16.1	+- 0.6; 3.9	15.0 +- 1.1
40	294	1.1	23.0	+- 0.7; 3.5	18.7	+- 0.7; 4.2	16.5 +- 1.3
41	274	1.1	24.3	+- 0.7; 3.6	19.9	+- 0.7; 4.4	18.6 +- 2.0
42	248	1.5	23.3	+- 0.7; 3.5	19.0	+- 0.7; 4.3	17.0 +- 2.0
44	5	100.0	22.1	+- 0.7; 3.3	17.9	+- 0.7; 4.1	16.7 +- 1.5
45	227	2.4	21.2	+- 0.6; 3.2	17.1	+- 0.7; 4.0	15.9 +- 1.9
46	209	3.2	17.8	+- 0.5; 2.7	13.9	+- 0.6; 3.7	14.4 +- 1.8
47	218	5.3	19.0	+- 0.6; 2.9	15.1	+- 0.6; 3.8	15.0 +- 1.8
48	201	4.6	20.4	+- 0.6; 3.1	16.3	+- 0.6; 4.0	16.0 +- 1.4
49	187	5.2	17.7	+- 0.5; 2.7	13.8	+- 0.6; 3.7	13.6 +- 1.6
50	171	7.1	19.1	+- 0.6; 2.9	15.2	+- 0.6; 3.8	14.2 +- 1.3

Transit Dose = 2.6 +- 0.3; 3.1

INDIAN POINT

For the period 970611-971022

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 +- 0.8	4
11.26 - 33.75 NNE	16.9 +- 0.8	3
33.76 - 56.25 NE	15.4 +- 2.6	3
56.26 - 78.75 ENE	15.8 +- 1.1	3
78.76 - 101.25 E	15.5 +- 1.2	3
101.26 - 123.75 ESE	14.6 +- 0.8	2
123.76 - 146.25 SE	15.0 +- 0.9	5
146.26 - 168.75 SSE	15.8 +- 0.9	3
168.76 - 191.25 S	15.1 +- 1.7	4
191.26 - 213.75 SSW	15.1 +- 1.2	3
213.76 - 236.25 SW	16.1 +- 1.4	2
236.26 - 258.75 WSW	19.0 +- 0.0	1
258.76 - 281.25 W	19.9 +- 0.0	1
281.26 - 303.75 WNW	18.7 +- 0.0	1
303.76 - 326.25 NW	18.7 +- 3.7	2
326.26 - 348.75 NNW	15.8 +- 1.4	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	16.5 +- 1.9	17
2 - 5	16.1 +- 1.9	15
> 5	15.6 +- 1.5	10
Upwind Control	17.9 +- 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 970609-971027 141 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	189 8.1	17.7 +- 0.5; 2.7	13.2 +- 0.6; 3.7	12.6 +- 1.3
2	195 7.0	24.1 +- 0.7; 3.6	19.1 +- 0.7; 4.3	17.2 +- 2.2
3	163 4.9	17.7 +- 0.5; 2.7	13.2 +- 0.6; 3.7	12.9 +- 1.3
4	183 3.3	22.8 +- 0.7; 3.4	17.8 +- 0.7; 4.2	16.4 +- 1.7
5	210 3.2	17.9 +- 0.5; 2.7	13.5 +- 0.6; 3.7	12.1 +- 1.6
6	223 3.7	23.1 +- 0.7; 3.5	18.2 +- 0.7; 4.2	16.3 +- 1.9
7	242 5.7	18.0 +- 0.5; 2.7	13.5 +- 0.6; 3.8	13.9 +- 1.1
8	202 1.8	22.6 +- 0.7; 3.4	17.7 +- 0.7; 4.2	17.0 +- 1.5
9	180 1.8	21.1 +- 0.6; 3.2	16.3 +- 0.7; 4.0	15.6 +- 1.5
10	158 1.9	18.6 +- 0.6; 2.8	14.1 +- 0.6; 3.8	12.7 +- 1.4
11	235 1.2	24.1 +- 0.7; 3.6	19.0 +- 0.7; 4.3	16.8 +- 1.7
12	258 1.4	21.5 +- 0.6; 3.2	16.7 +- 0.7; 4.1	15.3 +- 1.6
13	273 1.4	22.1 +- 0.7; 3.3	17.2 +- 0.7; 4.1	15.6 +- 1.8
14	290 0.9	20.6 +- 0.6; 3.1	15.8 +- 0.6; 4.0	16.4 +- 1.5
15	333 0.8	19.9 +- 0.6; 3.0	15.2 +- 0.6; 3.9	15.1 +- 1.7
16	342 1.9	20.3 +- 0.6; 3.1	15.6 +- 0.6; 4.0	15.3 +- 1.6
17	317 2.0	20.5 +- 0.6; 3.1	15.8 +- 0.6; 4.0	13.4 +- 2.0
18	310 3.4	23.9 +- 0.7; 3.6	18.8 +- 0.7; 4.3	17.5 +- 1.5
19	293 4.0	20.2 +- 0.6; 3.0	15.5 +- 0.6; 4.0	14.3 +- 1.7
20	273 4.0	Missing Dosimeter	No Net Data	14.5 +- 2.1
21	300 5.6	21.0 +- 0.6; 3.1	16.2 +- 0.6; 4.0	14.6 +- 1.4
22	316 5.9	22.6 +- 0.7; 3.4	17.6 +- 0.7; 4.2	15.4 +- 1.6
23	345 2.7	21.3 +- 0.6; 3.2	16.5 +- 0.7; 4.1	16.5 +- 1.6
24	219 1.3	19.5 +- 0.6; 2.9	14.8 +- 0.6; 3.9	14.7 +- 1.7
25	247 1.4	23.8 +- 0.7; 3.6	18.8 +- 0.7; 4.3	16.6 +- 1.6
26	263 1.3	21.0 +- 0.6; 3.1	16.2 +- 0.7; 4.0	16.2 +- 1.6
27	290 1.4	23.0 +- 0.7; 3.4	18.0 +- 0.7; 4.2	16.7 +- 1.6
28	320 1.3	23.1 +- 0.7; 3.5	18.1 +- 0.7; 4.2	16.9 +- 2.1
29	342 1.1	21.5 +- 0.6; 3.2	16.7 +- 0.7; 4.1	15.4 +- 2.2
30	329 0.6	21.4 +- 0.6; 3.2	16.6 +- 0.7; 4.1	16.4 +- 1.7
31	13 1.0	19.6 +- 0.6; 2.9	15.0 +- 0.6; 3.9	15.0 +- 1.6
32	353 2.1	21.4 +- 0.6; 3.2	16.6 +- 0.7; 4.1	16.0 +- 1.7
33	301 3.9	18.9 +- 0.6; 2.8	14.3 +- 0.6; 3.8	14.6 +- 1.6
34	299 8.4	21.0 +- 0.6; 3.2	16.3 +- 0.7; 4.0	15.7 +- 1.4
35	323 3.8	19.7 +- 0.6; 3.0	15.0 +- 0.6; 3.9	13.9 +- 1.9
36	336 3.3	23.1 +- 0.7; 3.5	18.1 +- 0.7; 4.2	16.8 +- 2.0
37	6 3.1	19.6 +- 0.6; 2.9	15.0 +- 0.6; 3.9	14.3 +- 1.4
38	14 3.7	21.7 +- 0.7; 3.3	16.9 +- 0.7; 4.1	15.3 +- 1.7
39	13 7.6	19.3 +- 0.6; 2.9	14.6 +- 0.6; 3.9	13.3 +- 1.7
40	247 4.3	21.3 +- 0.6; 3.2	16.5 +- 0.7; 4.1	18.5 +- 1.6
41	8 23.0	18.7 +- 0.6; 2.8	14.1 +- 0.6; 3.8	12.9 +- 1.9
42	8 23.0	19.3 +- 0.6; 2.9	14.7 +- 0.6; 3.9	13.4 +- 1.5
43	8 23.0	17.5 +- 0.5; 2.6	13.1 +- 0.6; 3.7	12.7 +- 1.6

Transit Dose = 3.2 +- 0.3; 3.1

KEWAUNEE/PT. BEACH
For the period 970609-971027

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	15.8 +- 1.1	2
11.26 - 33.75 NNE	15.5 +- 1.2	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	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	13.6 +- 0.6	2
168.76 - 191.25 S	15.8 +- 2.3	3
191.26 - 213.75 SSW	16.7 +- 2.9	3
213.76 - 236.25 SW	17.3 +- 2.2	3
236.26 - 258.75 WSW	16.4 +- 2.1	4
258.76 - 281.25 W	16.7 +- 0.7	2
281.26 - 303.75 WNW	16.0 +- 1.2	6
303.76 - 326.25 NW	17.1 +- 1.6	5
326.26 - 348.75 NNW	16.5 +- 1.0	6

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	16.5 +- 1.4	18
2 - 5	16.1 +- 1.8	14
> 5	15.8 +- 2.1	7
Upwind Control	14.0 +- 0.8	3

NRC TLD DOSES FOR KEWAUNEE AREA

Miles

Legend

Water
Highways

Railroads
Roads

Plant..site

LACROSSE

TLD Direct Radiation Environmental Monitoring

For the period 970610-971030 143 Days

Field Time: 99 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	5	20.0	22.0 +- 0.7; 3.3		16.4 +- 0.7; 4.2		14.8 +- 1.6	
2	5	20.0	22.5 +- 0.7; 3.4		16.8 +- 0.7; 4.2		15.3 +- 1.2	
3	3	20.0	22.2 +- 0.7; 3.3		16.5 +- 0.7; 4.2		15.8 +- 1.0	
4	343	3.8	20.4 +- 0.6; 3.1		14.9 +- 0.6; 4.0		14.7 +- 1.2	
5	313	3.8	21.2 +- 0.6; 3.2		15.6 +- 0.7; 4.1		16.3 +- 0.9	
6	291	3.0	20.8 +- 0.6; 3.1		15.3 +- 0.7; 4.1		15.7 +- 1.1	
7	261	4.8	24.7 +- 0.7; 3.7		18.8 +- 0.8; 4.5		17.6 +- 1.5	
8	249	3.2	23.9 +- 0.7; 3.6		18.1 +- 0.7; 4.4		17.0 +- 1.7	
9	214	5.0	20.3 +- 0.6; 3.0		14.8 +- 0.6; 4.0		15.8 +- 1.5	
10	171	9.8	21.8 +- 0.7; 3.3		16.1 +- 0.7; 4.2		14.5 +- 1.2	
11	176	5.1	21.6 +- 0.6; 3.2		16.0 +- 0.7; 4.1		14.9 +- 1.0	
12	165	4.9	22.2 +- 0.7; 3.3		16.6 +- 0.7; 4.2		16.2 +- 1.0	
13	138	3.5	24.1 +- 0.7; 3.6		18.3 +- 0.7; 4.4		16.9 +- 1.1	
14	114	4.2	22.8 +- 0.7; 3.4		17.0 +- 0.7; 4.3		15.7 +- 1.1	
15	97	3.9	20.0 +- 0.6; 3.0		14.6 +- 0.6; 4.0		14.7 +- 0.9	
16	94	3.0	22.8 +- 0.7; 3.4		17.1 +- 0.7; 4.3		16.6 +- 1.2	
17	105	2.0	20.4 +- 0.6; 3.1		14.9 +- 0.6; 4.0		15.9 +- 2.2	
18	52	1.5	20.5 +- 0.6; 3.1		14.9 +- 0.6; 4.0		14.3 +- 1.1	
19	16	1.5	19.2 +- 0.6; 2.9		13.8 +- 0.6; 3.9		14.5 +- 0.9	
20	1	1.0	19.6 +- 0.6; 2.9		14.2 +- 0.6; 4.0		13.4 +- 1.0	
21	358	0.5	23.0 +- 0.7; 3.5		17.3 +- 0.7; 4.3		17.0 +- 1.1	
22	180	0.6	24.3 +- 0.7; 3.7		18.5 +- 0.7; 4.4		16.2 +- 0.9	
23	134	1.7	21.1 +- 0.6; 3.2		15.5 +- 0.7; 4.1		16.1 +- 1.5	
24	58	0.6	24.0 +- 0.7; 3.6		18.2 +- 0.7; 4.4		17.5 +- 1.5	
25	59	3.1	22.5 +- 0.7; 3.4		16.8 +- 0.7; 4.2		17.0 +- 1.5	
26	16	1.5	23.9 +- 0.7; 3.6		18.1 +- 0.7; 4.4		16.5 +- 1.3	
27	26	5.1	21.7 +- 0.7; 3.3		16.0 +- 0.7; 4.1		15.3 +- 1.1	
28	25	7.0	20.7 +- 0.6; 3.1		15.1 +- 0.7; 4.1		14.4 +- 1.5	
29	4	4.8	22.8 +- 0.7; 3.4		17.1 +- 0.7; 4.3		16.0 +- 1.1	

Transit Dose = 4.0 +- 0.4; 3.2

LACROSSE

For the period 970610-971030

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	16.2 +- 1.7	3
11.26 - 33.75 NNE	15.8 +- 1.8	4
33.76 - 56.25 NE	14.9 +- 0.0	1
56.26 - 78.75 ENE	17.5 +- 1.0	2
78.76 - 101.25 E	15.8 +- 1.8	2
101.26 - 123.75 ESE	16.0 +- 1.5	2
123.76 - 146.25 SE	16.9 +- 2.0	2
146.26 - 168.75 SSE	16.6 +- 0.0	1
168.76 - 191.25 S	16.8 +- 1.4	3
191.26 - 213.75 SSW	No Data +- No Data	0
213.76 - 236.25 SW	14.8 +- 0.0	1
236.26 - 258.75 WSW	18.1 +- 0.0	1
258.76 - 281.25 W	18.8 +- 0.0	1
281.26 - 303.75 WNW	15.3 +- 0.0	1
303.76 - 326.25 NW	15.6 +- 0.0	1
326.26 - 348.75 NNW	14.9 +- 0.0	1

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	16.1 +- 1.8	9
2 - 5	16.5 +- 1.4	13
> 5	15.8 +- 0.5	4
Upwind Control	16.6 +- 0.2	3

NRC TLD DOSES FOR LACROSSE AREA

Miles

Legend

LASALLE

TLD Direct Radiation Environmental Monitoring

For the period 970610-971027 140 Days

Field Time: 97 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	302	10.0	23.3 +- 0.7; 3.5		17.4 +- 0.7; 4.4		17.5 +- 1.2	
2	335	5.3	25.1 +- 0.8; 3.8		19.1 +- 0.8; 4.6		19.7 +- 1.5	
3	343	5.8	20.8 +- 0.6; 3.1		15.1 +- 0.7; 4.1		15.8 +- 1.0	
4	38	5.5	23.1 +- 0.7; 3.5		17.3 +- 0.7; 4.4		19.0 +- 2.1	
5	39	4.3	20.1 +- 0.6; 3.0		14.4 +- 0.7; 4.1		14.8 +- 1.1	
6	27	3.8	22.4 +- 0.7; 3.4		16.6 +- 0.7; 4.3		17.3 +- 1.3	
7	2	4.1	25.6 +- 0.8; 3.8		19.6 +- 0.8; 4.6		19.6 +- 1.3	
8	304	4.6	24.5 +- 0.7; 3.7		18.5 +- 0.8; 4.5		19.2 +- 1.3	
9	292	3.9	26.2 +- 0.8; 3.9		20.1 +- 0.8; 4.7		19.9 +- 2.6	
10	281	3.7	23.4 +- 0.7; 3.5		17.5 +- 0.7; 4.4		19.3 +- 1.7	
11	248	4.0	23.7 +- 0.7; 3.6		17.8 +- 0.7; 4.4		18.5 +- 1.2	
12	222	12.0	22.6 +- 0.7; 3.4		16.7 +- 0.7; 4.3		17.9 +- 1.1	
13	212	18.0	24.1 +- 0.7; 3.6		18.1 +- 0.8; 4.5		18.4 +- 1.1	
14	212	18.0	23.9 +- 0.7; 3.6		17.9 +- 0.8; 4.4		19.0 +- 1.3	
15	212	18.0	24.2 +- 0.7; 3.6		18.2 +- 0.8; 4.5		18.8 +- 1.3	
16	215	4.4	24.7 +- 0.7; 3.7		18.7 +- 0.8; 4.5		19.9 +- 1.1	
17	204	4.0	24.0 +- 0.7; 3.6		18.1 +- 0.8; 4.5		19.2 +- 1.1	
18	173	4.6	25.4 +- 0.8; 3.8		19.4 +- 0.8; 4.6		19.7 +- 1.2	
19	174	6.4	22.6 +- 0.7; 3.4		16.7 +- 0.7; 4.3		17.3 +- 1.0	
20	158	3.6	23.8 +- 0.7; 3.6		17.9 +- 0.7; 4.4		18.7 +- 1.3	
21	124	4.2	25.2 +- 0.8; 3.8		19.2 +- 0.8; 4.6		19.2 +- 1.7	
22	114	3.8	24.1 +- 0.7; 3.6		18.1 +- 0.8; 4.5		18.9 +- 1.2	
23	97	4.5	23.4 +- 0.7; 3.5		17.5 +- 0.7; 4.4		18.3 +- 1.4	
24	72	4.7	24.6 +- 0.7; 3.7		18.6 +- 0.8; 4.5		20.0 +- 1.4	
25	41	2.0	Missing Dosimeter		No Net Data		19.0 +- 1.2	
26	11	1.6	23.8 +- 0.7; 3.6		17.9 +- 0.7; 4.4		18.7 +- 1.3	
27	358	1.5	25.9 +- 0.8; 3.9		19.8 +- 0.8; 4.7		19.3 +- 1.2	
28	336	1.6	24.7 +- 0.7; 3.7		18.7 +- 0.8; 4.5		18.5 +- 1.3	
29	310	2.3	24.1 +- 0.7; 3.6		18.1 +- 0.8; 4.5		17.8 +- 1.5	
30	301	2.0	27.1 +- 0.8; 4.1		20.9 +- 0.8; 4.8		21.2 +- 1.2	
31	271	1.7	24.3 +- 0.7; 3.6		18.4 +- 0.8; 4.5		18.6 +- 1.1	
32	256	1.8	24.4 +- 0.7; 3.7		18.4 +- 0.8; 4.5		19.6 +- 1.7	
33	227	2.4	25.4 +- 0.8; 3.8		19.4 +- 0.8; 4.6		20.6 +- 1.3	
34	204	1.7	25.0 +- 0.8; 3.8		19.0 +- 0.8; 4.6		18.9 +- 1.0	
35	165	1.6	23.8 +- 0.7; 3.6		17.9 +- 0.7; 4.4		19.8 +- 1.9	
36	149	1.8	25.4 +- 0.8; 3.8		19.4 +- 0.8; 4.6		19.8 +- 1.3	
37	139	2.1	24.8 +- 0.7; 3.7		18.8 +- 0.8; 4.5		19.0 +- 1.2	
38	111	1.5	22.4 +- 0.7; 3.4		16.6 +- 0.7; 4.3		17.2 +- 1.2	
39	265	0.6	26.7 +- 0.8; 4.0		20.6 +- 0.8; 4.7		20.1 +- 1.5	

Transit Dose = 4.5 +- 0.4; 3.2

LASALLE

For the period 970610-971027

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 +- 1.1	3
11.26 - 33.75 NNE	16.6 +- 0.0	1
33.76 - 56.25 NE	15.8 +- 2.0	2
56.26 - 78.75 ENE	18.6 +- 0.0	1
78.76 - 101.25 E	17.5 +- 0.0	1
101.26 - 123.75 ESE	17.4 +- 1.1	2
123.76 - 146.25 SE	19.0 +- 0.2	2
146.26 - 168.75 SSE	18.4 +- 0.9	3
168.76 - 191.25 S	18.1 +- 1.9	2
191.26 - 213.75 SSW	18.5 +- 0.7	2
213.76 - 236.25 SW	18.3 +- 1.4	3
236.26 - 258.75 WSW	18.1 +- 0.5	2
258.76 - 281.25 W	18.8 +- 1.6	3
281.26 - 303.75 WNW	19.5 +- 1.8	3
303.76 - 326.25 NW	18.3 +- 0.3	2
326.26 - 348.75 NNW	17.6 +- 2.2	3

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	18.9 +- 1.3	11
2 - 5	18.2 +- 1.3	18
> 5	17.0 +- 1.3	6
Upwind Control	18.1 +- 0.1	3

NRC TLD DOSES FOR LASALLE AREA

Miles

Legend

Water
Highways

Railroads
Roads

Plant site

LIMERICK

TLD Direct Radiation Environmental Monitoring

For the period 970611-971002 114 Days

Field Time: 91 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	115	8.5	24.8	+-- 0.7; 3.7	23.9	+-- 0.8; 4.5			22.7	+-- 1.5
3	85	3.7	21.3	+-- 0.6; 3.2	20.5	+-- 0.7; 4.1			18.9	+-- 1.3
4	46	3.3	20.9	+-- 0.6; 3.1	20.1	+-- 0.7; 4.1			19.5	+-- 1.3
5	20	3.7	20.0	+-- 0.6; 3.0	19.2	+-- 0.6; 4.0			19.3	+-- 1.3
6	7	4.6	21.3	+-- 0.6; 3.2	20.5	+-- 0.7; 4.1			20.0	+-- 1.3
7	340	7.2	19.0	+-- 0.6; 2.9	18.2	+-- 0.6; 3.9			17.7	+-- 1.4
8	332	4.0	20.8	+-- 0.6; 3.1	20.0	+-- 0.7; 4.1			19.1	+-- 1.2
9	313	3.4	20.4	+-- 0.6; 3.1	19.6	+-- 0.7; 4.0			19.1	+-- 1.3
10	291	4.9	22.7	+-- 0.7; 3.4	21.8	+-- 0.7; 4.3			20.9	+-- 1.5
11	304	3.0	27.6	+-- 0.8; 4.1	26.7	+-- 0.9; 4.9			24.4	+-- 1.7
12	316	1.9	21.0	+-- 0.6; 3.2	20.2	+-- 0.7; 4.1			18.2	+-- 1.2
13	347	1.9	22.6	+-- 0.7; 3.4	21.8	+-- 0.7; 4.3			20.4	+-- 1.3
14	339	1.5	18.5	+-- 0.6; 2.8	17.7	+-- 0.6; 3.8			17.3	+-- 1.1
15	41	1.7	21.7	+-- 0.7; 3.3	20.9	+-- 0.7; 4.2			18.3	+-- 1.4
16	66	2.6	20.8	+-- 0.6; 3.1	20.0	+-- 0.7; 4.1			18.9	+-- 1.5
17	5	0.6	20.5	+-- 0.6; 3.1	19.7	+-- 0.7; 4.1			18.4	+-- 1.7
18	300	0.7	20.3	+-- 0.6; 3.0	19.4	+-- 0.6; 4.0			18.8	+-- 1.5
19	291	0.7	20.6	+-- 0.6; 3.1	19.7	+-- 0.7; 4.1			18.4	+-- 1.5
20	260	0.7	20.6	+-- 0.6; 3.1	19.8	+-- 0.7; 4.1			18.1	+-- 1.3
21	234	0.9	21.0	+-- 0.6; 3.2	20.2	+-- 0.7; 4.1			18.2	+-- 1.3
22	210	1.1	20.1	+-- 0.6; 3.0	19.2	+-- 0.6; 4.0			18.9	+-- 1.1
23	174	1.7	19.6	+-- 0.6; 2.9	18.8	+-- 0.6; 4.0			17.1	+-- 1.2
24	149	1.5	19.1	+-- 0.6; 2.9	18.3	+-- 0.6; 3.9			17.6	+-- 1.3
25	124	1.0	21.8	+-- 0.7; 3.3	20.9	+-- 0.7; 4.2			19.6	+-- 1.2
26	114	1.1	22.7	+-- 0.7; 3.4	21.8	+-- 0.7; 4.3			19.8	+-- 1.3
27	160	1.0	21.6	+-- 0.6; 3.2	20.8	+-- 0.7; 4.2			18.9	+-- 1.1
28	81	1.0	20.0	+-- 0.6; 3.0	19.2	+-- 0.6; 4.0			18.4	+-- 1.2
29	51	0.7	21.7	+-- 0.7; 3.3	20.9	+-- 0.7; 4.2			19.0	+-- 1.3
30	144	3.2	24.5	+-- 0.7; 3.7	23.6	+-- 0.8; 4.5			22.3	+-- 1.6
31	158	2.6	22.0	+-- 0.7; 3.3	21.2	+-- 0.7; 4.2			18.9	+-- 1.7
32	153	7.3	19.2	+-- 0.6; 2.9	18.4	+-- 0.6; 3.9			17.7	+-- 1.3
33	186	4.2	18.6	+-- 0.6; 2.8	17.8	+-- 0.6; 3.8			17.2	+-- 1.3
34	194	3.8	16.6	+-- 0.5; 2.5	15.8	+-- 0.5; 3.6			16.6	+-- 1.3
35	229	5.1	Missing Dosimeter		No Net Data				18.8	+-- 1.2
36	251	4.1	23.2	+-- 0.7; 3.5	22.3	+-- 0.7; 4.4			20.0	+-- 2.1
37	270	3.0	17.1	+-- 0.5; 2.6	16.3	+-- 0.6; 3.7			15.8	+-- 1.1
38	293	11.9	22.8	+-- 0.7; 3.4	21.9	+-- 0.7; 4.3			20.2	+-- 1.5
39	293	11.9	23.2	+-- 0.7; 3.5	22.3	+-- 0.7; 4.4			20.4	+-- 1.5
40	293	11.9	22.3	+-- 0.7; 3.3	21.4	+-- 0.7; 4.3			20.7	+-- 1.5
41	126	2.9	18.0	+-- 0.5; 2.7	17.2	+-- 0.6; 3.8			15.9	+-- 1.0
42	111	4.3	21.8	+-- 0.7; 3.3	20.9	+-- 0.7; 4.2			19.3	+-- 1.5

Transit Dose = 0.6 +- 0.2; 2.7

LIMERICK

For the period 970611-971002

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	20.1 +- 0.5	2
11.26 - 33.75 NNE	19.2 +- 0.0	1
33.76 - 56.25 NE	20.6 +- 0.5	3
56.26 - 78.75 ENE	20.0 +- 0.0	1
78.76 - 101.25 E	19.8 +- 0.9	2
101.26 - 123.75 ESE	22.2 +- 1.5	3
123.76 - 146.25 SE	20.6 +- 3.2	3
146.26 - 168.75 SSE	19.7 +- 1.5	4
168.76 - 191.25 S	18.3 +- 0.7	2
191.26 - 213.75 SSW	17.5 +- 2.4	2
213.76 - 236.25 SW	20.2 +- 0.0	1
236.26 - 258.75 WSW	22.3 +- 0.0	1
258.76 - 281.25 W	18.1 +- 2.4	2
281.26 - 303.75 WNW	20.3 +- 1.3	3
303.76 - 326.25 NW	22.2 +- 4.0	3
326.26 - 348.75 NNW	19.4 +- 1.9	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	20.2 +- 2.7	17
> 5	20.2 +- 3.3	3
Upwind Control	21.9 +- 0.4	3

MAINE YANKEE

TLD Direct Radiation Environmental Monitoring

For the period 970611-971029 141 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	340	1.0	26.8	+- 0.8; 4.0	21.7	+- 0.9; 4.9	18.8	+- 1.6
2	6	1.4	26.0	+- 0.8; 3.9	21.0	+- 0.8; 4.8	17.7	+- 1.6
3	23	1.5	24.9	+- 0.7; 3.7	19.8	+- 0.8; 4.7	17.5	+- 1.9
4	44	1.8	24.6	+- 0.7; 3.7	19.5	+- 0.8; 4.6	17.2	+- 1.8
5	116	0.5	24.5	+- 0.7; 3.7	19.5	+- 0.8; 4.6	17.1	+- 1.7
6	168	1.0	25.8	+- 0.8; 3.9	20.7	+- 0.8; 4.8	18.2	+- 1.7
7	185	1.6	22.8	+- 0.7; 3.4	17.8	+- 0.7; 4.4	16.7	+- 1.5
8	195	2.3	24.5	+- 0.7; 3.7	19.5	+- 0.8; 4.6	17.8	+- 1.6
9	209	3.8	23.2	+- 0.7; 3.5	18.2	+- 0.8; 4.5	17.2	+- 1.6
10	310	1.7	23.2	+- 0.7; 3.5	18.3	+- 0.8; 4.5	17.2	+- 1.7
11	290	1.8	27.1	+- 0.8; 4.1	22.0	+- 0.9; 4.9	20.1	+- 2.3
12	275	1.7	Damaged Dosimeter		No Net Data		19.0	+- 1.8
13	256	1.9	25.1	+- 0.8; 3.8	20.0	+- 0.8; 4.7	17.7	+- 1.9
14	232	2.5	24.9	+- 0.7; 3.7	19.9	+- 0.8; 4.7	18.9	+- 1.8
15	227	5.3	25.4	+- 0.8; 3.8	20.3	+- 0.8; 4.7	18.5	+- 2.0
16	246	4.4	26.1	+- 0.8; 3.9	21.0	+- 0.8; 4.8	19.5	+- 2.1
17	250	6.6	31.4	+- 0.9; 4.7	26.1	+- 1.0; 5.4	23.9	+- 1.6
18	268	4.7	26.4	+- 0.8; 4.0	21.3	+- 0.8; 4.8	18.6	+- 1.7
19	283	4.4	25.3	+- 0.8; 3.8	20.2	+- 0.8; 4.7	18.4	+- 1.6
20	305	4.7	24.3	+- 0.7; 3.6	19.3	+- 0.8; 4.6	17.8	+- 1.8
21	300	2.9	25.9	+- 0.8; 3.9	20.8	+- 0.8; 4.8	18.3	+- 1.9
22	332	2.7	23.4	+- 0.7; 3.5	18.4	+- 0.8; 4.5	18.6	+- 2.0
23	20	3.9	25.5	+- 0.8; 3.8	20.4	+- 0.8; 4.7	18.8	+- 2.0
24	23	3.0	26.7	+- 0.8; 4.0	21.6	+- 0.9; 4.9	19.2	+- 1.9
25	42	4.7	25.2	+- 0.8; 3.8	20.1	+- 0.8; 4.7	18.9	+- 1.9
26	60	15.0	24.3	+- 0.7; 3.6	19.3	+- 0.8; 4.6	17.1	+- 1.9
27	62	16.0	22.6	+- 0.7; 3.4	17.6	+- 0.7; 4.4	16.2	+- 1.6
28	63	16.0	24.2	+- 0.7; 3.6	19.2	+- 0.8; 4.6	17.5	+- 1.4
29	64	2.1	28.8	+- 0.9; 4.3	23.6	+- 0.9; 5.1	20.1	+- 1.9
30	84	1.5	23.2	+- 0.7; 3.5	18.2	+- 0.8; 4.5	16.9	+- 1.8
31	115	1.6	24.0	+- 0.7; 3.6	19.0	+- 0.8; 4.6	17.0	+- 1.5
32	135	2.0	22.7	+- 0.7; 3.4	17.8	+- 0.7; 4.4	16.5	+- 1.8
33	66	3.5	24.3	+- 0.7; 3.6	19.2	+- 0.8; 4.6	17.8	+- 1.7
34	97	4.9	27.1	+- 0.8; 4.1	22.0	+- 0.9; 4.9	19.1	+- 1.7
35	123	4.8	27.1	+- 0.8; 4.1	21.9	+- 0.9; 4.9	19.0	+- 1.9
36	140	4.9	23.5	+- 0.7; 3.5	18.5	+- 0.8; 4.5	17.2	+- 2.0
37	151	6.0	23.9	+- 0.7; 3.6	18.9	+- 0.8; 4.6	18.8	+- 2.1
38	152	4.2	27.1	+- 0.8; 4.1	22.0	+- 0.9; 4.9	19.6	+- 1.8
39	172	4.9	23.5	+- 0.7; 3.5	18.5	+- 0.8; 4.5	17.7	+- 1.7
40	156	7.4	24.3	+- 0.7; 3.6	19.3	+- 0.8; 4.6	18.1	+- 1.4

Transit Dose = 4.4 +- 0.4; 3.1

MAINE YANKEE

For the period 970611-971029

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	21.0 +- 0.0	1
11.26 - 33.75 NNE	20.6 +- 0.9	3
33.76 - 56.25 NE	19.8 +- 0.4	2
56.26 - 78.75 ENE	21.4 +- 3.1	2
78.76 - 101.25 E	20.1 +- 2.7	2
101.26 - 123.75 ESE	20.1 +- 1.6	3
123.76 - 146.25 SE	18.2 +- 0.5	2
146.26 - 168.75 SSE	20.2 +- 1.4	4
168.76 - 191.25 S	18.2 +- 0.5	2
191.26 - 213.75 SSW	18.8 +- 0.9	2
213.76 - 236.25 SW	20.1 +- 0.3	2
236.26 - 258.75 WSW	22.4 +- 3.3	3
258.76 - 281.25 W	21.3 +- 0.0	1
281.26 - 303.75 WNW	21.0 +- 0.9	3
303.76 - 326.25 NW	18.8 +- 0.7	2
326.26 - 348.75 NNW	20.0 +- 2.3	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	19.6 +- 1.4	13
2 - 5	20.4 +- 1.5	19
> 5	21.2 +- 3.4	4
Upwind Control	18.7 +- 0.9	3

NRC TLD DOSES FOR MAINE YANKEE AREA

Miles

0 2 4

Legend

Water

Railroads

Plant..site

Highways

Roads

MCGUIRE

TLD Direct Radiation Environmental Monitoring

For the period 970611-971023 135 Days

Field Time: 85 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	97	0.5	16.5 +- 0.5; 2.5		12.1 +- 0.6; 4.0		13.1 +- 2.4	
2	323	1.6	20.2 +- 0.6; 3.0		16.1 +- 0.7; 4.4		16.1 +- 1.7	
3	336	1.7	20.7 +- 0.6; 3.1		16.6 +- 0.8; 4.5		16.9 +- 2.3	
4	303	2.9	18.2 +- 0.5; 2.7		13.9 +- 0.7; 4.2		15.2 +- 3.1	
5	321	3.9	22.6 +- 0.7; 3.4		18.6 +- 0.8; 4.7		15.7 +- 1.7	
6	334	3.7	18.4 +- 0.6; 2.8		14.2 +- 0.7; 4.2		15.0 +- 2.1	
7	352	3.5	18.0 +- 0.5; 2.7		13.8 +- 0.7; 4.2		13.7 +- 2.2	
8	287	2.0	23.7 +- 0.7; 3.5		19.7 +- 0.8; 4.8		17.7 +- 2.6	
9	273	1.9	20.2 +- 0.6; 3.0		16.1 +- 0.7; 4.4		14.9 +- 2.9	
10	244	1.7	17.5 +- 0.5; 2.6		13.2 +- 0.7; 4.1		13.9 +- 2.3	
11	225	2.1	16.1 +- 0.5; 2.4		11.8 +- 0.6; 4.0		13.4 +- 2.3	
12	212	3.6	19.1 +- 0.6; 2.9		14.9 +- 0.7; 4.3		15.2 +- 2.1	
13	232	4.4	24.0 +- 0.7; 3.6		20.1 +- 0.9; 4.9		21.1 +- 1.9	
14	253	3.7	19.7 +- 0.6; 3.0		15.5 +- 0.7; 4.4		17.8 +- 2.3	
15	261	4.2	17.7 +- 0.5; 2.6		13.4 +- 0.7; 4.1		14.2 +- 1.8	
16	288	4.3	22.4 +- 0.7; 3.4		18.4 +- 0.8; 4.7		21.0 +- 2.3	
17	288	17.0	25.7 +- 0.8; 3.8		21.9 +- 0.9; 5.1		22.1 +- 1.9	
18	287	2.0	22.7 +- 0.7; 3.4		18.7 +- 0.8; 4.7		19.6 +- 2.7	
19	286	17.0	23.6 +- 0.7; 3.5		19.7 +- 0.8; 4.8		20.7 +- 3.3	
20	233	18.0	25.5 +- 0.8; 3.8		21.7 +- 0.9; 5.1		20.8 +- 2.1	
21	204	10.0	17.7 +- 0.5; 2.6		13.4 +- 0.7; 4.1		14.9 +- 2.3	
22	239	9.5	18.9 +- 0.6; 2.8		14.7 +- 0.7; 4.3		16.4 +- 2.2	
23	115	4.9	14.1 +- 0.4; 2.1		9.6 +- 0.6; 3.8		11.9 +- 2.6	
24	132	4.9	16.2 +- 0.5; 2.4		11.9 +- 0.6; 4.0		12.7 +- 1.9	
25	156	4.0	13.0 +- 0.4; 2.0		8.5 +- 0.6; 3.7		10.5 +- 2.3	
26	175	3.7	16.9 +- 0.5; 2.5		12.6 +- 0.7; 4.1		13.0 +- 1.8	
27	198	4.3	20.1 +- 0.6; 3.0		16.0 +- 0.7; 4.4		18.3 +- 2.8	
28	169	13.0	16.1 +- 0.5; 2.4		11.7 +- 0.6; 4.0		13.2 +- 2.5	
29	155	13.0	15.5 +- 0.5; 2.3		11.1 +- 0.6; 3.9		13.3 +- 2.1	
30	146	14.0	15.4 +- 0.5; 2.3		11.0 +- 0.6; 3.9		12.6 +- 2.0	
31	143	1.9	14.9 +- 0.4; 2.2		10.5 +- 0.6; 3.9		12.4 +- 3.5	
32	155	1.3	15.9 +- 0.5; 2.4		11.6 +- 0.6; 4.0		13.6 +- 2.3	
33	178	1.6	15.8 +- 0.5; 2.4		11.4 +- 0.6; 4.0		12.1 +- 2.3	
34	108	2.0	17.6 +- 0.5; 2.6		13.3 +- 0.7; 4.1		14.0 +- 2.1	
35	93	2.2	15.5 +- 0.5; 2.3		11.2 +- 0.6; 3.9		13.1 +- 2.9	
36	68	2.5	16.4 +- 0.5; 2.5		12.0 +- 0.6; 4.0		13.7 +- 2.2	
37	82	4.7	15.1 +- 0.5; 2.3		10.7 +- 0.6; 3.9		13.3 +- 2.3	
38	64	4.9	16.3 +- 0.5; 2.4		11.9 +- 0.6; 4.0		13.6 +- 2.5	
39	42	5.0	18.2 +- 0.5; 2.7		14.0 +- 0.7; 4.2		16.5 +- 3.3	
40	26	4.3	18.2 +- 0.5; 2.7		14.0 +- 0.7; 4.2		14.1 +- 2.3	
41	42	2.0	15.0 +- 0.4; 2.2		10.5 +- 0.6; 3.9		12.0 +- 2.1	
42	21	1.6	Damaged Dosimeter		No Net Data		16.0 +- 2.4	
43	8	2.6	19.9 +- 0.6; 3.0		15.8 +- 0.7; 4.4		17.0 +- 2.1	
44	37	13.0	22.7 +- 0.7; 3.4		18.7 +- 0.8; 4.7		20.1 +- 2.9	
45	78	19.0	24.2 +- 0.7; 3.6		20.3 +- 0.9; 4.9		22.3 +- 2.6	
46	94	19.0	21.9 +- 0.7; 3.3		17.9 +- 0.8; 4.6		16.9 +- 2.3	

Transit Dose = 5.0 +- 0.4; 2.9

MCGUIRE

For the period 970611-971023

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 +- 1.4	2
11.26 - 33.75 NNE	14.0 +- 0.0	1
33.76 - 56.25 NE	14.4 +- 4.1	3
56.26 - 78.75 ENE	14.7 +- 4.8	3
78.76 - 101.25 E	13.0 +- 3.3	4
101.26 - 123.75 ESE	11.5 +- 2.7	2
123.76 - 146.25 SE	11.1 +- 0.7	3
146.26 - 168.75 SSE	10.4 +- 1.7	3
168.76 - 191.25 S	11.9 +- 0.6	3
191.26 - 213.75 SSW	14.8 +- 1.3	3
213.76 - 236.25 SW	17.9 +- 5.3	3
236.26 - 258.75 WSW	14.5 +- 1.2	3
258.76 - 281.25 W	14.7 +- 1.9	2
281.26 - 303.75 WNW	17.3 +- 3.1	3
303.76 - 326.25 NW	17.3 +- 1.8	2
326.26 - 348.75 NNW	15.4 +- 1.7	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	13.7 +- 3.0	11
2 - 5	13.8 +- 2.9	22
> 5	15.6 +- 4.1	9
Upwind Control	20.1 +- 1.6	3

NRC TLD DOSES FOR McGUIRE AREA

Miles

0 2 4

Legend

Water

--- Railroads

Plant..site

— Highways

--- Roads

MILLSTONE

TLD Direct Radiation Environmental Monitoring

For the period 970611-971029 141 Days

Field Time: 101 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 1.0	26.2 +- 0.8; 3.9	22.3 +- 0.7; 4.4	20.2 +- 1.2
2	24 1.3	19.3 +- 0.6; 2.9	16.1 +- 0.6; 3.7	15.0 +- 1.0
3	47 1.5	25.0 +- 0.8; 3.8	21.2 +- 0.7; 4.3	19.9 +- 1.1
4	60 1.7	25.3 +- 0.8; 3.8	21.5 +- 0.7; 4.3	18.2 +- 1.4
5	85 1.3	25.1 +- 0.8; 3.8	21.3 +- 0.7; 4.3	19.2 +- 1.1
6	110 1.8	24.0 +- 0.7; 3.6	20.3 +- 0.7; 4.2	18.8 +- 1.1
7	67 5.3	Missing Dosimeter	No Net Data	19.9 +- 1.9
8	49 5.3	19.2 +- 0.6; 2.9	16.1 +- 0.6; 3.7	20.1 +- 1.5
9	84 5.2	23.1 +- 0.7; 3.5	19.5 +- 0.7; 4.1	18.1 +- 1.0
11	232 2.5	22.8 +- 0.7; 3.4	19.2 +- 0.7; 4.1	17.9 +- 1.2
12	256 2.4	25.1 +- 0.8; 3.8	21.3 +- 0.7; 4.3	20.2 +- 1.2
13	274 2.2	26.6 +- 0.8; 4.0	22.6 +- 0.8; 4.5	20.1 +- 1.4
14	295 1.9	26.9 +- 0.8; 4.0	22.9 +- 0.8; 4.5	21.3 +- 1.4
15	315 1.5	20.3 +- 0.6; 3.0	17.1 +- 0.6; 3.8	15.9 +- 1.0
16	339 1.2	23.4 +- 0.7; 3.5	19.8 +- 0.7; 4.1	20.0 +- 1.1
17	353 3.5	23.8 +- 0.7; 3.6	20.2 +- 0.7; 4.2	19.0 +- 1.4
18	24 3.5	25.4 +- 0.8; 3.8	21.6 +- 0.7; 4.3	19.8 +- 1.4
19	33 3.0	28.0 +- 0.8; 4.2	23.9 +- 0.8; 4.6	21.2 +- 2.0
20	82 4.0	23.2 +- 0.7; 3.5	19.6 +- 0.7; 4.1	18.1 +- 1.1
22	59 3.7	22.5 +- 0.7; 3.4	19.0 +- 0.7; 4.0	20.3 +- 1.3
28	257 5.8	30.3 +- 0.9; 4.5	26.0 +- 0.8; 4.9	22.2 +- 2.5
29	272 3.7	29.2 +- 0.9; 4.4	25.0 +- 0.8; 4.7	21.9 +- 1.8
30	295 3.5	26.7 +- 0.8; 4.0	22.7 +- 0.8; 4.5	21.3 +- 1.4
31	317 3.6	23.0 +- 0.7; 3.4	19.4 +- 0.7; 4.1	18.5 +- 1.3
32	327 4.3	29.8 +- 0.9; 4.5	25.5 +- 0.8; 4.8	21.9 +- 1.6
33	41 4.7	26.0 +- 0.8; 3.9	22.1 +- 0.7; 4.4	19.9 +- 1.2
34	54 5.5	23.3 +- 0.7; 3.5	19.7 +- 0.7; 4.1	21.1 +- 1.3
37	354 6.8	25.5 +- 0.8; 3.8	21.6 +- 0.7; 4.3	19.4 +- 1.3
39	1 5.7	25.4 +- 0.8; 3.8	21.6 +- 0.7; 4.3	19.0 +- 1.2
40	278 8.7	22.7 +- 0.7; 3.4	19.1 +- 0.7; 4.1	17.1 +- 1.2
41	34 11.0	28.9 +- 0.9; 4.3	24.7 +- 0.8; 4.7	23.8 +- 1.6
42	84 8.0	25.4 +- 0.8; 3.8	21.6 +- 0.7; 4.3	19.3 +- 1.4
46	41 0.6	24.0 +- 0.7; 3.6	20.3 +- 0.7; 4.2	18.8 +- 1.4
48	4 40.0	30.0 +- 0.9; 4.5	25.6 +- 0.8; 4.8	24.5 +- 2.2
49	4 40.0	30.8 +- 0.9; 4.6	26.4 +- 0.9; 4.9	24.5 +- 2.1

Transit Dose = 1.2 +- 0.3; 3.0

MILLSTONE

For the period 970611-971029

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 +- 0.9	4
11.26 - 33.75 NNE	20.5 +- 4.0	3
33.76 - 56.25 NE	20.7 +- 2.9	6
56.26 - 78.75 ENE	20.2 +- 1.8	2
78.76 - 101.25 E	20.5 +- 1.1	4
101.26 - 123.75 ESE	20.3 +- 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	19.2 +- 0.0	1
236.26 - 258.75 WSW	23.6 +- 3.3	2
258.76 - 281.25 W	22.2 +- 2.9	3
281.26 - 303.75 WNW	22.8 +- 0.1	2
303.76 - 326.25 NW	18.2 +- 1.7	2
326.26 - 348.75 NNW	22.6 +- 4.1	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	20.3 +- 2.2	10
2 - 5	21.7 +- 2.2	13
> 5	21.1 +- 3.0	9
Upwind Control	26.0 +- 0.5	2

NRC TLD DOSES FOR MILLSTONE AREA

Miles

0 2 4

Legend

Water

Highways

Railroads

Roads

Plant..site

MONTICELLO

TLD Direct Radiation Environmental Monitoring

For the period 970609-971023 137 Days

Field Time: 93 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	133	3.6	Missing Dosimeter		No Net Data		16.6 +- 1.2	
2	163	4.6	21.2 +- 0.6;	3.2	17.3 +- 0.7;	4.2	17.4 +- 1.3	
3	183	4.1	21.9 +- 0.7;	3.3	18.0 +- 0.7;	4.3	17.8 +- 1.3	
4	206	4.3	21.8 +- 0.7;	3.3	17.8 +- 0.7;	4.3	17.5 +- 1.3	
5	230	4.2	23.2 +- 0.7;	3.5	19.2 +- 0.7;	4.4	19.0 +- 1.9	
6	253	4.6	21.9 +- 0.7;	3.3	17.9 +- 0.7;	4.3	17.7 +- 1.5	
7	269	4.4	21.0 +- 0.6;	3.1	17.0 +- 0.7;	4.2	17.1 +- 1.4	
8	286	4.0	21.5 +- 0.6;	3.2	17.6 +- 0.7;	4.2	18.0 +- 1.4	
9	274	1.9	21.1 +- 0.6;	3.2	17.2 +- 0.7;	4.2	17.0 +- 1.2	
10	244	1.3	19.0 +- 0.6;	2.9	15.2 +- 0.6;	4.0	15.4 +- 1.2	
11	226	0.9	20.4 +- 0.6;	3.1	16.5 +- 0.7;	4.1	16.8 +- 1.3	
12	181	1.8	20.7 +- 0.6;	3.1	16.8 +- 0.7;	4.2	17.0 +- 1.3	
13	137	1.7	20.1 +- 0.6;	3.0	16.2 +- 0.7;	4.1	16.9 +- 1.3	
14	155	1.0	20.0 +- 0.6;	3.0	16.2 +- 0.7;	4.1	17.1 +- 1.1	
15	208	0.6	19.9 +- 0.6;	3.0	16.0 +- 0.7;	4.1	16.6 +- 1.2	
16	284	2.0	19.8 +- 0.6;	3.0	15.9 +- 0.7;	4.1	16.5 +- 1.0	
17	113	1.6	21.6 +- 0.6;	3.2	17.7 +- 0.7;	4.3	17.1 +- 1.3	
18	85	1.1	20.4 +- 0.6;	3.1	16.5 +- 0.7;	4.1	16.6 +- 1.2	
19	63	1.2	20.3 +- 0.6;	3.0	16.4 +- 0.7;	4.1	16.9 +- 1.4	
20	37	1.7	22.1 +- 0.7;	3.3	18.1 +- 0.7;	4.3	16.9 +- 1.0	
21	23	0.8	22.0 +- 0.7;	3.3	18.0 +- 0.7;	4.3	16.8 +- 1.2	
22	354	0.7	23.0 +- 0.7;	3.4	19.0 +- 0.7;	4.4	17.3 +- 1.2	
23	338	0.8	20.4 +- 0.6;	3.1	16.5 +- 0.7;	4.1	17.1 +- 1.4	
24	307	1.8	21.8 +- 0.7;	3.3	17.8 +- 0.7;	4.3	17.0 +- 1.2	
25	339	4.1	20.9 +- 0.6;	3.1	17.0 +- 0.7;	4.2	16.6 +- 1.2	
26	320	6.0	20.7 +- 0.6;	3.1	16.8 +- 0.7;	4.2	16.8 +- 1.2	
27	354	4.5	20.4 +- 0.6;	3.1	16.5 +- 0.7;	4.1	16.8 +- 1.6	
28	17	3.7	20.3 +- 0.6;	3.0	16.4 +- 0.7;	4.1	15.8 +- 1.4	
29	50	4.0	20.2 +- 0.6;	3.0	16.3 +- 0.7;	4.1	15.7 +- 1.4	
30	77	3.6	21.0 +- 0.6;	3.1	17.1 +- 0.7;	4.2	16.9 +- 1.3	
31	115	3.3	20.4 +- 0.6;	3.1	16.5 +- 0.7;	4.1	16.6 +- 1.2	
32	90	4.6	18.7 +- 0.6;	2.8	14.9 +- 0.6;	4.0	15.6 +- 1.6	
33	323	16.0	20.0 +- 0.6;	3.0	16.2 +- 0.7;	4.1	16.5 +- 1.4	
34	323	16.0	20.8 +- 0.6;	3.1	16.9 +- 0.7;	4.2	16.5 +- 1.2	
35	323	16.0	21.3 +- 0.6;	3.2	17.4 +- 0.7;	4.2	17.3 +- 1.3	

Transit Dose = 3.4 +- 0.3; 3.0

MONTICELLO

For the period 970609-971023

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 +- 1.8	2
11.26 - 33.75 NNE	17.2 +- 1.1	2
33.76 - 56.25 NE	17.2 +- 1.3	2
56.26 - 78.75 ENE	16.7 +- 0.5	2
78.76 - 101.25 E	15.7 +- 1.2	2
101.26 - 123.75 ESE	17.1 +- 0.9	2
123.76 - 146.25 SE	16.2 +- 0.0	1
146.26 - 168.75 SSE	16.7 +- 0.8	2
168.76 - 191.25 S	17.4 +- 0.8	2
191.26 - 213.75 SSW	16.9 +- 1.3	2
213.76 - 236.25 SW	17.9 +- 1.9	2
236.26 - 258.75 WSW	16.5 +- 1.9	2
258.76 - 281.25 W	17.1 +- 0.1	2
281.26 - 303.75 WNW	16.8 +- 1.2	2
303.76 - 326.25 NW	17.3 +- 0.7	2
326.26 - 348.75 NNW	16.8 +- 0.3	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	16.9 +- 1.0	16
2 - 5	17.1 +- 1.0	14
> 5	16.8 +- 0.0	1
Upwind Control	16.8 +- 0.6	3

NRC TLD DOSES FOR MONTICELLO AREA

Miles

0 2 4

Legend

Water
Highways

Railroads
Roads

Plant..site

NORTH ANNA

TLD Direct Radiation Environmental Monitoring

For the period 970610-971020 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	243	1.8	29.0	+- 0.9; 4.4	25.3	+- 0.9; 5.1	21.1 +- 1.3
2	263	1.6	23.3	+- 0.7; 3.5	19.7	+- 0.8; 4.5	17.7 +- 1.1
3 *	296	1.0	25.7	+- 0.8; 3.9	22.1	+- 0.8; 4.7	17.7 +- 1.2
4	311	1.3	29.4	+- 0.9; 4.4	25.7	+- 0.9; 5.2	22.3 +- 1.2
5	329	1.3	25.0	+- 0.8; 3.8	21.4	+- 0.8; 4.7	18.9 +- 1.1
6 *	231	3.9	28.9	+- 0.9; 4.3	25.2	+- 0.9; 5.1	20.6 +- 1.2
7	224	1.7	27.1	+- 0.8; 4.1	23.5	+- 0.9; 4.9	20.0 +- 1.2
8	210	1.6	22.4	+- 0.7; 3.4	18.9	+- 0.7; 4.4	18.2 +- 1.2
9	181	1.4	21.1	+- 0.6; 3.2	17.6	+- 0.7; 4.2	16.0 +- 1.0
10	155	1.0	28.0	+- 0.8; 4.2	24.3	+- 0.9; 5.0	23.8 +- 1.4
11	136	1.6	24.3	+- 0.7; 3.6	20.7	+- 0.8; 4.6	18.3 +- 1.4
12	163	3.5	24.6	+- 0.7; 3.7	21.1	+- 0.8; 4.6	19.2 +- 1.1
13 *	190	3.3	26.9	+- 0.8; 4.0	23.3	+- 0.8; 4.9	17.7 +- 1.2
14 *	205	4.9	24.2	+- 0.7; 3.6	20.6	+- 0.8; 4.6	16.8 +- 1.2
15	140	4.2	25.7	+- 0.8; 3.9	22.1	+- 0.8; 4.7	19.1 +- 1.1
16 *	113	4.9	31.9	+- 1.0; 4.8	28.2	+- 1.0; 5.5	22.8 +- 1.4
17	93	3.3	22.2	+- 0.7; 3.3	18.6	+- 0.7; 4.3	16.1 +- 1.0
18	64	4.1	24.7	+- 0.7; 3.7	21.1	+- 0.8; 4.6	19.3 +- 1.2
19 *	78	2.7	38.0	+- 1.1; 5.7	34.1	+- 1.2; 6.3	28.9 +- 1.2
20	97	1.9	27.5	+- 0.8; 4.1	23.9	+- 0.9; 4.9	20.6 +- 1.6
21 *	105	1.7	24.0	+- 0.7; 3.6	20.4	+- 0.8; 4.5	16.7 +- 1.0
22 *	60	2.4	24.7	+- 0.7; 3.7	21.2	+- 0.8; 4.6	17.1 +- 1.1
23	37	1.4	25.9	+- 0.8; 3.9	22.3	+- 0.8; 4.8	18.8 +- 1.3
24 *	16	1.6	31.9	+- 1.0; 4.8	28.2	+- 1.0; 5.5	24.0 +- 1.2
25	48	3.5	20.7	+- 0.6; 3.1	17.2	+- 0.7; 4.2	15.8 +- 1.7
26 *	17	3.7	27.2	+- 0.8; 4.1	23.6	+- 0.9; 4.9	19.3 +- 1.2
27 *	3	4.8	28.1	+- 0.8; 4.2	24.4	+- 0.9; 5.0	17.3 +- 1.2
28	348	4.0	23.8	+- 0.7; 3.6	20.3	+- 0.8; 4.5	17.4 +- 1.1
29 *	2	1.9	24.4	+- 0.7; 3.7	20.8	+- 0.8; 4.6	16.8 +- 1.0
30	284	5.0	23.2	+- 0.7; 3.5	19.6	+- 0.7; 4.4	16.9 +- 1.4
31	310	4.7	25.9	+- 0.8; 3.9	22.3	+- 0.8; 4.8	20.1 +- 1.3
32	273	4.9	20.9	+- 0.6; 3.1	17.4	+- 0.7; 4.2	14.6 +- 1.6
33	257	5.1	Damaged Dosimeter		No Net Data		18.3 +- 1.4
34 *	242	7.1	28.7	+- 0.9; 4.3	25.1	+- 0.9; 5.1	19.1 +- 1.4
35	255	11.0	24.4	+- 0.7; 3.7	20.9	+- 0.8; 4.6	18.1 +- 1.6
36 *	248	15.0	27.9	+- 0.8; 4.2	24.2	+- 0.9; 5.0	18.4 +- 1.2
37 *	247	17.0	26.8	+- 0.8; 4.0	23.2	+- 0.8; 4.9	17.7 +- 1.1
38	244	19.0	24.4	+- 0.7; 3.7	20.8	+- 0.8; 4.6	16.9 +- 1.5

Transit Dose = 3.1 +- 0.3; 2.9

* The results for these locations were outside (above) the expected range. Refer to the preface of this report for more information.

NORTH ANNA

For the period 970610-971020

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	22.6 +- 2.6	2
11.26 - 33.75 NNE	25.9 +- 3.3	2
33.76 - 56.25 NE	19.7 +- 3.6	2
56.26 - 78.75 ENE	25.5 +- 7.5	3
78.76 - 101.25 E	21.3 +- 3.7	2
101.26 - 123.75 ESE	24.3 +- 5.5	2
123.76 - 146.25 SE	21.4 +- 1.0	2
146.26 - 168.75 SSE	22.7 +- 2.3	2
168.76 - 191.25 S	20.5 +- 4.0	2
191.26 - 213.75 SSW	19.8 +- 1.2	2
213.76 - 236.25 SW	24.4 +- 1.2	2
236.26 - 258.75 WSW	23.8 +- 2.5	3
258.76 - 281.25 W	18.5 +- 1.6	2
281.26 - 303.75 WNW	20.9 +- 1.8	2
303.76 - 326.25 NW	24.0 +- 2.4	2
326.26 - 348.75 NNW	20.9 +- 0.8	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	22.3 +- 2.8	15
2 - 5	22.4 +- 4.1	17
> 5	23.0 +- 3.0	2
Upwind Control	22.7 +- 1.8	3

NRC TLD DOSES FOR NORTH ANNA AREA

Miles

0 2 4

Legend

Water
Highways

Railroads
Roads

Plant..site

OCONEE

TLD Direct Radiation Environmental Monitoring

For the period 970610-971021 134 Days

Field Time: 94 Days

NRC Sta	Location		Gross Exposure (mR)			Net Exposure Rate (mR/Std. Qtr.)			Hist. Range	
	Azimuth/Dist (Deg)/(Mi)		+-Rdm; Tot.			+-Rdm; Tot.			Net Exp Rate	+1 Std Dev
1	158	7.5	26.0	+-	0.8; 3.9	21.1	+-	0.8; 4.7	22.2	+- 1.9
2	133	4.9	29.0	+-	0.9; 4.3	23.9	+-	0.9; 5.1	25.0	+- 1.7
3	119	4.3	29.1	+-	0.9; 4.4	24.1	+-	0.9; 5.1	24.5	+- 1.5
4	84	4.7	30.3	+-	0.9; 4.5	25.2	+-	0.9; 5.2	24.5	+- 1.2
5	65	4.0	29.0	+-	0.9; 4.4	24.0	+-	0.9; 5.1	23.5	+- 1.5
6	52	1.8	29.5	+-	0.9; 4.4	24.5	+-	0.9; 5.1	24.4	+- 1.7
7	22	3.5	27.6	+-	0.8; 4.1	22.6	+-	0.9; 4.9	24.8	+- 1.5
8	33	1.4	29.2	+-	0.9; 4.4	24.2	+-	0.9; 5.1	24.7	+- 1.4
9	52	1.8	24.0	+-	0.7; 3.6	19.2	+-	0.8; 4.5	19.4	+- 1.3
10	67	1.1	22.4	+-	0.7; 3.4	17.7	+-	0.7; 4.3	17.7	+- 2.2
11	107	1.9	22.4	+-	0.7; 3.4	17.7	+-	0.7; 4.3	18.9	+- 1.2
12	87	1.0	26.8	+-	0.8; 4.0	21.9	+-	0.8; 4.8	21.7	+- 1.4
13	142	0.7	27.4	+-	0.8; 4.1	22.4	+-	0.9; 4.9	22.5	+- 1.3
14	166	0.7	Missing Dosimeter			No Net Data			18.8	+- 2.3
15	226	1.7	27.7	+-	0.8; 4.2	22.8	+-	0.9; 4.9	21.5	+- 1.3
16	207	1.4	25.2	+-	0.8; 3.8	20.3	+-	0.8; 4.6	21.2	+- 1.2
17	182	2.2	21.4	+-	0.6; 3.2	16.7	+-	0.7; 4.2	18.0	+- 1.5
18	186	3.8	22.6	+-	0.7; 3.4	17.8	+-	0.7; 4.4	19.3	+- 1.2
19	155	4.1	26.0	+-	0.8; 3.9	21.1	+-	0.8; 4.7	23.6	+- 1.2
20	203	8.4	21.4	+-	0.6; 3.2	16.7	+-	0.7; 4.2	17.9	+- 1.8
21	210	4.6	21.8	+-	0.7; 3.3	17.1	+-	0.7; 4.3	18.8	+- 1.2
22	227	4.8	26.9	+-	0.8; 4.0	21.9	+-	0.8; 4.8	21.4	+- 2.5
23	240	3.6	23.1	+-	0.7; 3.5	18.4	+-	0.7; 4.4	19.5	+- 2.0
24	268	3.6	27.9	+-	0.8; 4.2	22.9	+-	0.9; 5.0	23.6	+- 1.3
25	257	1.9	22.6	+-	0.7; 3.4	17.8	+-	0.7; 4.4	18.5	+- 1.4
26	293	3.6	25.3	+-	0.8; 3.8	20.4	+-	0.8; 4.7	21.0	+- 1.6
27	311	3.5	Damaged Dosimeter			No Net Data			17.7	+- 0.9
28	288	2.0	22.8	+-	0.7; 3.4	18.1	+-	0.7; 4.4	19.8	+- 1.3
29	275	1.8	Missing Dosimeter			No Net Data			18.8	+- 1.1
30	321	1.8	26.0	+-	0.8; 3.9	21.1	+-	0.8; 4.7	21.6	+- 1.2
31	344	2.0	20.6	+-	0.6; 3.1	15.9	+-	0.7; 4.2	16.9	+- 1.2
32	336	3.7	31.8	+-	1.0; 4.8	26.7	+-	1.0; 5.4	25.8	+- 1.7
33	358	4.5	22.9	+-	0.7; 3.4	18.1	+-	0.7; 4.4	21.1	+- 1.8
34	256	9.4	31.3	+-	0.9; 4.7	26.2	+-	1.0; 5.4	27.2	+- 1.6
35	149	21.0	27.3	+-	0.8; 4.1	22.3	+-	0.9; 4.9	22.5	+- 1.5
36	126	8.2	29.0	+-	0.9; 4.3	24.0	+-	0.9; 5.1	24.2	+- 1.5
37	96	9.7	30.0	+-	0.9; 4.5	24.9	+-	0.9; 5.2	24.2	+- 1.2
38	32	16.0	35.4	+-	1.1; 5.3	30.1	+-	1.1; 5.9	30.2	+- 1.9
39	31	16.0	28.6	+-	0.9; 4.3	23.6	+-	0.9; 5.0	25.0	+- 1.7
40	29	16.0	31.9	+-	1.0; 4.8	26.7	+-	1.0; 5.4	26.9	+- 1.6

Transit Dose = 4.0 +- 0.4; 3.0

OCONEE

For the period 970610-971021

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	18.1 +- 0.0	1
11.26 - 33.75 NNE	23.4 +- 1.1	2
33.76 - 56.25 NE	21.8 +- 3.7	2
56.26 - 78.75 ENE	20.8 +- 4.5	2
78.76 - 101.25 E	24.0 +- 1.9	3
101.26 - 123.75 ESE	20.9 +- 4.6	2
123.76 - 146.25 SE	23.4 +- 0.9	3
146.26 - 168.75 SSE	21.5 +- 0.7	3
168.76 - 191.25 S	17.2 +- 0.8	2
191.26 - 213.75 SSW	18.0 +- 2.0	3
213.76 - 236.25 SW	22.4 +- 0.6	2
236.26 - 258.75 WSW	20.8 +- 4.7	3
258.76 - 281.25 W	22.9 +- 0.0	1
281.26 - 303.75 WNW	19.2 +- 1.7	2
303.76 - 326.25 NW	21.1 +- 0.0	1
326.26 - 348.75 NNW	21.3 +- 7.6	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	20.3 +- 2.8	13
2 - 5	21.4 +- 3.2	15
> 5	22.5 +- 3.4	6
Upwind Control	26.8 +- 3.3	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 970611-971020 132 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	141 0.5	Missing Dosimeter	No Net Data	11.3 +- 1.1
2	120 0.9	13.6 +- 0.4; 2.0	8.7 +- 0.5; 3.6	11.1 +- 1.0
3	105 1.5	15.7 +- 0.5; 2.3	10.7 +- 0.6; 3.7	12.2 +- 0.8
4	127 1.5	14.6 +- 0.4; 2.2	9.6 +- 0.6; 3.7	11.1 +- 0.7
5	137 1.3	Missing Dosimeter	No Net Data	11.8 +- 1.0
6	158 1.2	15.4 +- 0.5; 2.3	10.4 +- 0.6; 3.7	11.4 +- 0.7
7	176 2.2	15.9 +- 0.5; 2.4	10.9 +- 0.6; 3.8	12.1 +- 0.9
8	179 1.6	14.8 +- 0.4; 2.2	9.8 +- 0.6; 3.7	11.8 +- 0.8
9	159 2.8	14.0 +- 0.4; 2.1	9.0 +- 0.5; 3.6	10.6 +- 0.7
10	187 8.4	14.5 +- 0.4; 2.2	9.6 +- 0.6; 3.6	11.7 +- 1.0
11	173 4.4	15.3 +- 0.5; 2.3	10.3 +- 0.6; 3.7	11.6 +- 0.8
12	196 4.2	15.3 +- 0.5; 2.3	10.3 +- 0.6; 3.7	11.7 +- 0.8
13	198 8.6	Missing Dosimeter	No Net Data	10.8 +- 0.6
14	185 10.0	16.0 +- 0.5; 2.4	11.0 +- 0.6; 3.8	13.2 +- 0.9
15	171 11.0	14.8 +- 0.4; 2.2	9.8 +- 0.6; 3.7	11.5 +- 0.9
16	154 8.2	15.6 +- 0.5; 2.3	10.7 +- 0.6; 3.7	11.9 +- 0.7
17	126 6.3	16.4 +- 0.5; 2.5	11.4 +- 0.6; 3.8	12.5 +- 0.9
18	220 4.6	15.2 +- 0.5; 2.3	10.2 +- 0.6; 3.7	11.3 +- 1.0
19	231 2.3	14.8 +- 0.4; 2.2	9.8 +- 0.6; 3.7	11.4 +- 0.7
20	211 1.6	15.1 +- 0.5; 2.3	10.2 +- 0.6; 3.7	10.9 +- 0.6
22	258 1.5	15.2 +- 0.5; 2.3	10.3 +- 0.6; 3.7	11.4 +- 0.8
23	271 1.2	13.8 +- 0.4; 2.1	8.8 +- 0.5; 3.6	10.8 +- 0.8
24	297 1.3	14.3 +- 0.4; 2.2	9.4 +- 0.5; 3.6	11.6 +- 1.0
25	318 1.5	13.5 +- 0.4; 2.0	8.6 +- 0.5; 3.6	10.6 +- 0.8
26	341 3.2	15.5 +- 0.5; 2.3	10.6 +- 0.6; 3.7	13.0 +- 1.1
27	330 4.6	16.3 +- 0.5; 2.4	11.3 +- 0.6; 3.8	11.9 +- 0.9
28	358 3.2	15.5 +- 0.5; 2.3	10.5 +- 0.6; 3.7	11.0 +- 0.6
29 *	4 1.8	14.3 +- 0.4; 2.1	9.3 +- 0.5; 3.6	11.5 +- 0.7
30	19 0.8	14.9 +- 0.4; 2.2	9.9 +- 0.6; 3.7	11.4 +- 0.6
31	69 1.4	16.6 +- 0.5; 2.5	11.6 +- 0.6; 3.8	12.4 +- 1.4
32	78 2.5	15.5 +- 0.5; 2.3	10.5 +- 0.6; 3.7	10.8 +- 0.8
33	85 2.2	13.6 +- 0.4; 2.0	8.7 +- 0.5; 3.6	10.7 +- 1.0
34	38 1.7	14.9 +- 0.4; 2.2	10.0 +- 0.6; 3.7	11.3 +- 0.6
35	24 1.9	14.6 +- 0.4; 2.2	9.7 +- 0.6; 3.7	12.1 +- 1.0
36	50 3.0	14.5 +- 0.4; 2.2	9.5 +- 0.6; 3.6	11.9 +- 1.3
37	46 4.8	13.6 +- 0.4; 2.0	8.6 +- 0.5; 3.6	10.8 +- 1.1
38	27 4.0	17.0 +- 0.5; 2.6	12.0 +- 0.6; 3.9	12.5 +- 0.6
39 *	12 8.9	13.8 +- 0.4; 2.1	8.9 +- 0.5; 3.6	12.1 +- 0.8
40	10 8.7	15.1 +- 0.5; 2.3	10.1 +- 0.6; 3.7	11.0 +- 0.6
41	3 9.9	15.1 +- 0.5; 2.3	10.1 +- 0.6; 3.7	11.9 +- 0.8
42	38 10.0	17.0 +- 0.5; 2.5	11.9 +- 0.6; 3.9	12.1 +- 0.8
43	46 9.1	17.0 +- 0.5; 2.6	12.0 +- 0.6; 3.9	14.0 +- 0.8
44	73 6.5	14.7 +- 0.4; 2.2	9.8 +- 0.6; 3.7	10.8 +- 0.6
45 *	79 6.0	15.0 +- 0.5; 2.3	10.1 +- 0.6; 3.7	12.2 +- 0.6
46 *	278 20.0	15.2 +- 0.5; 2.3	10.3 +- 0.6; 3.7	12.4 +- 0.7
47 *	278 20.0	15.8 +- 0.5; 2.4	10.8 +- 0.6; 3.8	12.5 +- 0.5

Transit Dose = 4.6 +- 0.4; 3.1

* The results for these locations were outside (below) the expected range. Refer to the preface of this report for more information.

OYSTER CREEK
For the period 970611-971020

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	10.0 +- 0.5	4
11.26 - 33.75 NNE	10.1 +- 1.3	4
33.76 - 56.25 NE	10.4 +- 1.5	5
56.26 - 78.75 ENE	10.6 +- 0.9	3
78.76 - 101.25 E	9.4 +- 1.0	2
101.26 - 123.75 ESE	9.7 +- 1.4	2
123.76 - 146.25 SE	10.5 +- 1.3	2
146.26 - 168.75 SSE	10.0 +- 0.9	3
168.76 - 191.25 S	10.2 +- 0.6	6
191.26 - 213.75 SSW	10.2 +- 0.1	2
213.76 - 236.25 SW	10.0 +- 0.3	2
236.26 - 258.75 WSW	10.3 +- 0.0	1
258.76 - 281.25 W	8.8 +- 0.0	1
281.26 - 303.75 WNW	9.4 +- 0.0	1
303.76 - 326.25 NW	8.6 +- 0.0	1
326.26 - 348.75 NNW	10.9 +- 0.5	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	9.8 +- 0.8	15
2 - 5	10.2 +- 1.0	14
> 5	10.4 +- 1.0	12
Upwind Control	10.5 +- 0.4	2

A horizontal number line with tick marks at 0, 2, and 4. The segment between 0 and 2 is shaded black.

Legend

- ✱ Plant..site

PALISADES

TLD Direct Radiation Environmental Monitoring

For the period 970609-971023 137 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	195	4.9	17.7 +- 0.5; 2.7	13.0 +- 0.7; 4.3	12.8 +- 0.9
2	173	4.6	Damaged Dosimeter	No Net Data	13.2 +- 0.9
3	156	3.9	20.0 +- 0.6; 3.0	15.5 +- 0.8; 4.6	14.4 +- 1.1
4	132	4.6	18.4 +- 0.6; 2.8	13.8 +- 0.7; 4.4	13.6 +- 1.1
5	118	3.3	20.3 +- 0.6; 3.0	15.9 +- 0.8; 4.6	14.4 +- 1.1
6	152	1.8	18.3 +- 0.5; 2.7	13.6 +- 0.7; 4.4	13.1 +- 1.1
7	196	2.2	18.3 +- 0.6; 2.8	13.7 +- 0.7; 4.4	12.8 +- 0.9
8	178	1.6	18.2 +- 0.5; 2.7	13.6 +- 0.7; 4.4	13.5 +- 1.4
9	200	0.9	17.5 +- 0.5; 2.6	12.8 +- 0.7; 4.3	13.2 +- 1.2
10	124	1.8	18.6 +- 0.6; 2.8	14.0 +- 0.7; 4.4	13.3 +- 1.7
11	107	1.6	18.9 +- 0.6; 2.8	14.3 +- 0.7; 4.4	14.1 +- 1.3
12	90	1.5	17.7 +- 0.5; 2.7	13.0 +- 0.7; 4.3	12.8 +- 1.1
13	65	1.7	17.6 +- 0.5; 2.6	12.9 +- 0.7; 4.3	13.5 +- 1.3
14	51	1.9	17.9 +- 0.5; 2.7	13.3 +- 0.7; 4.3	13.2 +- 1.1
15	74	3.7	17.8 +- 0.5; 2.7	13.1 +- 0.7; 4.3	12.4 +- 1.2
16 *	90	3.6	Damaged Dosimeter	No Net Data	12.3 +- 1.4
17	98	10.0	18.8 +- 0.6; 2.8	14.2 +- 0.7; 4.4	14.5 +- 1.1
18	47	4.5	20.1 +- 0.6; 3.0	15.7 +- 0.8; 4.6	15.2 +- 0.9
19	23	1.5	19.2 +- 0.6; 2.9	14.6 +- 0.8; 4.5	12.5 +- 1.2
20	32	4.8	19.7 +- 0.6; 2.9	15.1 +- 0.8; 4.5	15.1 +- 1.3
21	29	7.0	18.2 +- 0.5; 2.7	13.5 +- 0.7; 4.4	14.1 +- 0.9
22	99	15.0	19.9 +- 0.6; 3.0	15.4 +- 0.8; 4.6	14.5 +- 0.9
23	98	18.0	20.1 +- 0.6; 3.0	15.6 +- 0.8; 4.6	14.6 +- 1.0
24	98	18.0	19.5 +- 0.6; 2.9	15.0 +- 0.8; 4.5	14.3 +- 1.0

Transit Dose = 5.9 +- 0.4; 2.9

* The result for this location was outside (above) the expected range. Refer to the preface of this report for more information.

PALISADES

For the period 970609-971023

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	14.4 +- 0.8	3
33.76 - 56.25 NE	14.5 +- 1.7	2
56.26 - 78.75 ENE	13.0 +- 0.1	2
78.76 - 101.25 E	13.6 +- 0.9	2
101.26 - 123.75 ESE	15.1 +- 1.1	2
123.76 - 146.25 SE	13.9 +- 0.1	2
146.26 - 168.75 SSE	14.6 +- 1.3	2
168.76 - 191.25 S	13.6 +- 0.0	1
191.26 - 213.75 SSW	13.1 +- 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	13.6 +- 0.7	9
2 - 5	14.5 +- 1.2	8
> 5	13.9 +- 0.5	2
Upwind Control	15.3 +- 0.3	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 970609-971023 137 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	74	23.0	27.1 +- 0.8; 4.1	21.9 +- 0.9; 4.9	20.1 +- 1.2
2	92	21.0	Missing Dosimeter	No Net Data	20.7 +- 1.4
3	89	15.0	26.0 +- 0.8; 3.9	20.8 +- 0.8; 4.8	20.3 +- 1.4
4	103	11.0	24.7 +- 0.7; 3.7	19.6 +- 0.8; 4.7	20.2 +- 1.2
5	140	7.4	27.0 +- 0.8; 4.0	21.8 +- 0.9; 4.9	21.7 +- 1.4
6	142	3.1	26.5 +- 0.8; 4.0	21.3 +- 0.8; 4.9	20.7 +- 1.4
7	162	2.6	26.2 +- 0.8; 3.9	21.0 +- 0.8; 4.8	20.7 +- 1.3
8	168	2.6	Missing Dosimeter	No Net Data	21.1 +- 1.4
9	193	2.6	28.1 +- 0.8; 4.2	22.8 +- 0.9; 5.0	22.1 +- 1.1
10	215	3.1	28.1 +- 0.8; 4.2	22.9 +- 0.9; 5.0	22.3 +- 1.4
11	200	1.7	28.0 +- 0.8; 4.2	22.7 +- 0.9; 5.0	22.4 +- 1.3
12	214	1.0	28.1 +- 0.8; 4.2	22.8 +- 0.9; 5.0	21.7 +- 1.4
13	242	0.7	29.7 +- 0.9; 4.5	24.4 +- 0.9; 5.2	23.6 +- 1.4
14	263	0.6	25.2 +- 0.8; 3.8	20.0 +- 0.8; 4.7	21.9 +- 1.4
15	295	0.6	27.0 +- 0.8; 4.0	21.8 +- 0.9; 4.9	21.6 +- 1.4
16	325	1.0	25.7 +- 0.8; 3.8	20.5 +- 0.8; 4.8	21.5 +- 1.3
17	347	1.8	29.0 +- 0.9; 4.3	23.7 +- 0.9; 5.1	22.8 +- 1.7
18	0	2.4	Missing Dosimeter	No Net Data	22.6 +- 1.2
19	18	1.5	29.2 +- 0.9; 4.4	23.9 +- 0.9; 5.2	20.8 +- 1.7
20	37	2.0	27.3 +- 0.8; 4.1	22.1 +- 0.9; 4.9	21.5 +- 1.0
21	58	2.3	25.9 +- 0.8; 3.9	20.7 +- 0.8; 4.8	22.1 +- 1.3
22	75	2.8	29.1 +- 0.9; 4.4	23.9 +- 0.9; 5.2	22.9 +- 1.0
23	93	4.4	27.3 +- 0.8; 4.1	22.1 +- 0.9; 5.0	22.1 +- 1.4
24	101	3.3	27.4 +- 0.8; 4.1	22.2 +- 0.9; 5.0	21.9 +- 2.0
25	346	2.9	27.6 +- 0.8; 4.1	22.4 +- 0.9; 5.0	21.9 +- 1.4
26	334	4.3	Missing Dosimeter	No Net Data	24.4 +- 1.4
27	333	7.9	33.2 +- 1.0; 5.0	27.8 +- 1.0; 5.7	25.5 +- 2.3
28	0	7.0	27.9 +- 0.8; 4.2	22.7 +- 0.9; 5.0	22.7 +- 1.4
29	9	4.2	28.6 +- 0.9; 4.3	23.3 +- 0.9; 5.1	23.6 +- 1.5
30	27	3.6	26.6 +- 0.8; 4.0	21.4 +- 0.8; 4.9	22.9 +- 1.5
31	49	3.5	28.3 +- 0.8; 4.2	23.1 +- 0.9; 5.1	23.4 +- 1.3
32	120	3.3	30.2 +- 0.9; 4.5	24.9 +- 0.9; 5.3	24.0 +- 1.3

Transit Dose = 4.5 +- 0.4; 3.1

PALO VERDE

For the period 970609-971023

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	23.0 +- 0.4	2
11.26 - 33.75 NNE	22.7 +- 1.7	2
33.76 - 56.25 NE	22.6 +- 0.7	2
56.26 - 78.75 ENE	22.3 +- 2.2	2
78.76 - 101.25 E	22.2 +- 0.1	2
101.26 - 123.75 ESE	22.2 +- 3.8	2
123.76 - 146.25 SE	21.5 +- 0.4	2
146.26 - 168.75 SSE	21.0 +- 0.0	1
168.76 - 191.25 S	No Data +- No Data	0
191.26 - 213.75 SSW	22.8 +- 0.1	2
213.76 - 236.25 SW	22.9 +- 0.0	2
236.26 - 258.75 WSW	24.4 +- 0.0	1
258.76 - 281.25 W	20.0 +- 0.0	1
281.26 - 303.75 WNW	21.8 +- 0.0	1
303.76 - 326.25 NW	20.5 +- 0.0	1
326.26 - 348.75 NNW	24.6 +- 2.8	3

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	22.4 +- 1.5	9
2 - 5	22.5 +- 1.2	13
> 5	23.0 +- 3.5	4
Upwind Control	21.4 +- 0.8	2

NRC TLD DOSES FOR PALO VERDE AREA

Miles

Legend

— Highways

- - - Railroads

- - - Roads

★ Plant..site

PEACH BOTTOM

TLD Direct Radiation Environmental Monitoring

For the period 970611-971002 114 Days

Field Time: 91 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	330	10.3	21.2 +- 0.6; 3.2		20.1 +- 0.7; 4.1		16.9 +- 1.7	
2	33	10.5	19.1 +- 0.6; 2.9		18.0 +- 0.6; 3.9		17.1 +- 0.9	
3	21	4.8	18.6 +- 0.6; 2.8		17.5 +- 0.6; 3.8		17.8 +- 1.4	
4	3	5.0	19.2 +- 0.6; 2.9		18.2 +- 0.6; 3.9		16.9 +- 1.0	
5	344	4.1	19.4 +- 0.6; 2.9		18.3 +- 0.6; 3.9		17.3 +- 1.0	
6	1	2.2	21.6 +- 0.6; 3.2		20.5 +- 0.7; 4.2		19.1 +- 1.0	
7	26	2.4	18.9 +- 0.6; 2.8		17.8 +- 0.6; 3.9		18.0 +- 0.9	
8	55	2.8	19.7 +- 0.6; 3.0		18.6 +- 0.6; 4.0		18.5 +- 1.0	
9	42	2.0	18.5 +- 0.6; 2.8		17.4 +- 0.6; 3.8		17.2 +- 0.9	
10	62	1.7	19.8 +- 0.6; 3.0		18.7 +- 0.6; 4.0		18.9 +- 1.9	
11	96	1.9	21.9 +- 0.7; 3.3		20.8 +- 0.7; 4.2		19.1 +- 1.1	
12	105	2.3	16.0 +- 0.5; 2.4		15.0 +- 0.5; 3.6		14.1 +- 0.9	
13	72	5.0	19.1 +- 0.6; 2.9		18.0 +- 0.6; 3.9		17.1 +- 0.8	
14	85	4.6	20.9 +- 0.6; 3.1		19.8 +- 0.7; 4.1		18.7 +- 1.0	
15	109	4.3	22.0 +- 0.7; 3.3		20.9 +- 0.7; 4.2		19.1 +- 1.0	
16	130	4.6	15.3 +- 0.5; 2.3		14.3 +- 0.5; 3.5		13.6 +- 0.8	
17	157	8.9	17.3 +- 0.5; 2.6		16.2 +- 0.6; 3.7		15.2 +- 1.0	
18	163	4.6	19.3 +- 0.6; 2.9		18.2 +- 0.6; 3.9		16.6 +- 0.8	
19	183	3.9	21.5 +- 0.6; 3.2		20.4 +- 0.7; 4.2		19.0 +- 1.2	
20	201	4.8	20.6 +- 0.6; 3.1		19.6 +- 0.7; 4.1		18.8 +- 1.4	
21	196	2.3	21.2 +- 0.6; 3.2		20.1 +- 0.7; 4.1		19.3 +- 0.8	
22	182	1.7	21.8 +- 0.7; 3.3		20.7 +- 0.7; 4.2		18.8 +- 0.9	
23	157	1.8	24.9 +- 0.7; 3.7		23.8 +- 0.8; 4.6		21.6 +- 1.3	
24	219	1.8	22.9 +- 0.7; 3.4		21.8 +- 0.7; 4.3		21.0 +- 1.1	
25	249	1.7	22.5 +- 0.7; 3.4		21.4 +- 0.7; 4.3		20.1 +- 1.2	
26	269	1.8	25.1 +- 0.8; 3.8		24.0 +- 0.8; 4.6		20.6 +- 1.2	
27	286	1.9	19.6 +- 0.6; 2.9		18.5 +- 0.6; 4.0		17.7 +- 0.9	
28	323	1.8	18.9 +- 0.6; 2.8		17.8 +- 0.6; 3.9		15.9 +- 0.8	
29	286	3.6	23.3 +- 0.7; 3.5		22.2 +- 0.7; 4.4		21.2 +- 0.9	
30	262	4.0	24.1 +- 0.7; 3.6		23.0 +- 0.8; 4.5		21.3 +- 1.2	
31	261	9.9	24.4 +- 0.7; 3.7		23.2 +- 0.8; 4.5		21.2 +- 1.1	
32	247	3.2	20.5 +- 0.6; 3.1		19.4 +- 0.7; 4.1		18.4 +- 1.0	
33	235	3.6	15.1 +- 0.5; 2.3		14.1 +- 0.5; 3.5		14.0 +- 1.2	
34	319	4.9	22.0 +- 0.7; 3.3		20.9 +- 0.7; 4.2		19.6 +- 1.1	
35	149	0.7	18.4 +- 0.6; 2.8		17.3 +- 0.6; 3.8		17.5 +- 1.2	
36	147	17.9	15.8 +- 0.5; 2.4		14.8 +- 0.5; 3.6		14.2 +- 0.8	
37	147	17.9	15.6 +- 0.5; 2.3		14.5 +- 0.5; 3.5		14.5 +- 0.8	
38	147	17.9	15.3 +- 0.5; 2.3		14.2 +- 0.5; 3.5		14.4 +- 0.7	

Transit Dose = 0.9 +- 0.3; 2.7

PEACH BOTTOM
For the period 970611-971002

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	19.3 +- 1.7	2
11.26 - 33.75 NNE	17.8 +- 0.3	3
33.76 - 56.25 NE	18.0 +- 0.8	2
56.26 - 78.75 ENE	18.3 +- 0.5	2
78.76 - 101.25 E	20.3 +- 0.7	2
101.26 - 123.75 ESE	17.9 +- 4.2	2
123.76 - 146.25 SE	14.3 +- 0.0	1
146.26 - 168.75 SSE	18.9 +- 3.4	4
168.76 - 191.25 S	20.5 +- 0.2	2
191.26 - 213.75 SSW	19.8 +- 0.4	2
213.76 - 236.25 SW	18.0 +- 5.5	2
236.26 - 258.75 WSW	20.4 +- 1.4	2
258.76 - 281.25 W	23.4 +- 0.5	3
281.26 - 303.75 WNW	20.3 +- 2.6	2
303.76 - 326.25 NW	19.4 +- 2.2	2
326.26 - 348.75 NNW	19.2 +- 1.3	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	20.2 +- 2.4	11
2 - 5	18.8 +- 2.4	20
> 5	19.4 +- 3.0	4
Upwind Control	14.5 +- 0.3	3

NRC TLD DOSES FOR PEACH BOTTOM AREA

Miles

0 2 4

Legend

Water

Highways

Railroads

Roads

Plant site

PERRY

TLD Direct Radiation Environmental Monitoring

For the period 970610-971027 140 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	72 5.0	20.5 +- 0.6; 3.1	15.3 +- 0.8; 4.4	16.0 +- 1.6
3	88 5.5	19.7 +- 0.6; 3.0	14.5 +- 0.7; 4.4	16.2 +- 1.8
4	112 6.0	21.8 +- 0.7; 3.3	16.6 +- 0.8; 4.6	17.0 +- 1.8
5	130 4.0	20.1 +- 0.6; 3.0	15.0 +- 0.7; 4.4	16.6 +- 1.9
6	155 5.0	24.8 +- 0.7; 3.7	19.8 +- 0.9; 4.9	19.8 +- 1.4
7	178 5.2	21.8 +- 0.7; 3.3	16.7 +- 0.8; 4.6	17.7 +- 1.4
8	205 4.6	19.5 +- 0.6; 2.9	14.3 +- 0.7; 4.3	17.2 +- 3.0
9	220 5.2	20.2 +- 0.6; 3.0	15.0 +- 0.7; 4.4	16.2 +- 1.4
10	225 7.4	20.8 +- 0.6; 3.1	15.7 +- 0.8; 4.5	17.2 +- 1.6
11	240 5.8	23.4 +- 0.7; 3.5	18.4 +- 0.8; 4.8	19.0 +- 1.6
12	225 19.0	19.3 +- 0.6; 2.9	14.1 +- 0.7; 4.3	16.6 +- 2.1
13	225 19.0	18.9 +- 0.6; 2.8	13.7 +- 0.7; 4.3	15.8 +- 1.6
14	212 12.0	26.6 +- 0.8; 4.0	21.7 +- 0.9; 5.2	22.1 +- 1.9
15	248 1.4	19.8 +- 0.6; 3.0	14.6 +- 0.7; 4.4	15.7 +- 1.5
16	225 0.8	18.9 +- 0.6; 2.8	13.7 +- 0.7; 4.3	15.6 +- 1.9
17	205 0.7	18.2 +- 0.5; 2.7	13.0 +- 0.7; 4.2	14.2 +- 1.5
18	180 0.8	18.6 +- 0.6; 2.8	13.4 +- 0.7; 4.2	15.5 +- 1.7
19	152 1.8	20.4 +- 0.6; 3.1	15.3 +- 0.7; 4.4	15.9 +- 1.2
20	123 1.6	18.0 +- 0.5; 2.7	12.8 +- 0.7; 4.2	14.2 +- 1.4
21	105 1.4	24.0 +- 0.7; 3.6	19.0 +- 0.8; 4.9	15.5 +- 2.0
22	85 1.2	20.1 +- 0.6; 3.0	14.9 +- 0.7; 4.4	16.1 +- 2.2
23	65 1.4	20.4 +- 0.6; 3.1	15.3 +- 0.7; 4.4	16.2 +- 1.4
24	40 0.6	19.6 +- 0.6; 2.9	14.4 +- 0.7; 4.4	15.6 +- 1.6
25	40 0.6	19.4 +- 0.6; 2.9	14.1 +- 0.7; 4.3	18.0 +- 3.4
26	182 2.8	Damaged Dosimeter	No Net Data	16.3 +- 2.2
27	175 2.8	21.1 +- 0.6; 3.2	15.9 +- 0.8; 4.5	17.1 +- 3.1

Transit Dose = 5.7 +- 0.4; 3.0

PERRY

For the period 970610-971027

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	14.3 +- 0.2	2
56.26 - 78.75 ENE	15.3 +- 0.1	2
78.76 - 101.25 E	14.7 +- 0.3	2
101.26 - 123.75 ESE	16.1 +- 3.1	3
123.76 - 146.25 SE	15.0 +- 0.0	1
146.26 - 168.75 SSE	17.5 +- 3.2	2
168.76 - 191.25 S	15.3 +- 1.7	3
191.26 - 213.75 SSW	13.6 +- 0.9	2
213.76 - 236.25 SW	14.8 +- 1.0	3
236.26 - 258.75 WSW	16.5 +- 2.7	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	14.6 +- 1.7	11
2 - 5	16.1 +- 2.2	5
> 5	16.1 +- 1.4	6
Upwind Control	16.5 +- 4.5	3

NRC TLD DOSES FOR PERRY AREA

Miles

Legend

Water
Highways

Railroads
Roads

Plant..site

PILGRIM

TLD Direct Radiation Environmental Monitoring

For the period 970611-971022 134 Days

Field Time: 92 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	288	0.1	141.9	+ 4.3; 21.3	130.2	+ 4.2; 21.1	59.8	+ 40.7
2	310	0.2	30.3	+ 0.9; 4.5	21.0	+ 1.0; 5.6	16.5	+ 2.4
5	289	0.7	27.8	+ 0.8; 4.2	18.5	+ 0.9; 5.3	16.0	+ 1.8
6	261	1.7	26.0	+ 0.8; 3.9	16.8	+ 0.9; 5.1	14.4	+ 1.6
7	270	0.5	29.1	+ 0.9; 4.4	19.8	+ 1.0; 5.5	17.9	+ 1.7
8	247	0.3	29.0	+ 0.9; 4.3	19.7	+ 1.0; 5.4	16.7	+ 1.5
9	224	0.3	31.0	+ 0.9; 4.6	21.7	+ 1.0; 5.7	15.3	+ 2.3
10	205	0.3	29.6	+ 0.9; 4.4	20.3	+ 1.0; 5.5	16.6	+ 3.3
11	184	0.3	35.3	+ 1.1; 5.3	25.8	+ 1.1; 6.2	17.8	+ 2.8
12	159	0.4	27.3	+ 0.8; 4.1	18.1	+ 0.9; 5.2	15.5	+ 1.7
13	146	0.7	24.7	+ 0.7; 3.7	15.6	+ 0.9; 5.0	13.1	+ 1.7
14	155	1.0	24.6	+ 0.7; 3.7	15.4	+ 0.9; 5.0	14.4	+ 1.8
16	136	1.3	24.2	+ 0.7; 3.6	15.1	+ 0.9; 4.9	13.4	+ 1.4
18	212	0.8	22.1	+ 0.7; 3.3	13.0	+ 0.8; 4.7	12.8	+ 1.6
19	232	1.0	25.6	+ 0.8; 3.8	16.4	+ 0.9; 5.1	13.7	+ 1.6
21	256	1.6	22.8	+ 0.7; 3.4	13.7	+ 0.8; 4.8	12.5	+ 2.0
22	130	2.5	24.7	+ 0.7; 3.7	15.5	+ 0.9; 5.0	13.3	+ 1.9
23	146	3.4	23.8	+ 0.7; 3.6	14.6	+ 0.8; 4.9	13.0	+ 1.9
25	168	1.5	25.9	+ 0.8; 3.9	16.7	+ 0.9; 5.1	14.0	+ 1.6
26	180	1.3	23.0	+ 0.7; 3.5	13.9	+ 0.8; 4.8	11.9	+ 1.7
27	231	1.8	25.1	+ 0.8; 3.8	15.9	+ 0.9; 5.0	13.2	+ 1.8
30	153	2.2	27.1	+ 0.8; 4.1	17.9	+ 0.9; 5.2	16.0	+ 1.4
31	179	2.5	24.1	+ 0.7; 3.6	15.0	+ 0.9; 4.9	12.5	+ 1.6
32	217	2.6	23.1	+ 0.7; 3.5	14.0	+ 0.8; 4.8	12.0	+ 1.8
33	234	2.5	23.2	+ 0.7; 3.5	14.1	+ 0.8; 4.8	13.1	+ 2.2
34	320	7.5	24.0	+ 0.7; 3.6	14.8	+ 0.9; 4.9	13.2	+ 1.7
35	318	7.0	21.0	+ 0.6; 3.2	11.9	+ 0.8; 4.6	10.9	+ 1.5
37	264	4.2	26.7	+ 0.8; 4.0	17.4	+ 0.9; 5.2	14.2	+ 1.6
38	152	3.5	23.5	+ 0.7; 3.5	14.3	+ 0.8; 4.8	12.5	+ 1.8
39	155	5.3	22.0	+ 0.7; 3.3	12.9	+ 0.8; 4.7	11.4	+ 1.2
40	272	4.6	27.2	+ 0.8; 4.1	18.0	+ 0.9; 5.2	15.0	+ 1.7
42	281	4.6	23.6	+ 0.7; 3.5	14.5	+ 0.8; 4.8	13.1	+ 1.8
43	291	5.8	28.0	+ 0.8; 4.2	18.7	+ 1.0; 5.3	15.7	+ 1.8
45	197	6.0	22.6	+ 0.7; 3.4	13.4	+ 0.8; 4.7	11.9	+ 1.4
47	301	26.0	30.0	+ 0.9; 4.5	20.7	+ 1.0; 5.6	15.3	+ 1.9
48	301	26.0	25.6	+ 0.8; 3.8	16.4	+ 0.9; 5.1	15.9	+ 2.1
49	301	26.0	26.2	+ 0.8; 3.9	17.0	+ 0.9; 5.1	14.4	+ 1.7

Transit Dose = 8.8 +- 0.5; 3.5

PILGRIM

For the period 970611-971022

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	15.2 +- 0.4	4
146.26 - 168.75 SSE	15.9 +- 2.1	6
168.76 - 191.25 S	18.2 +- 6.6	3
191.26 - 213.75 SSW	15.6 +- 4.1	3
213.76 - 236.25 SW	16.4 +- 3.1	5
236.26 - 258.75 WSW	16.7 +- 4.3	2
258.76 - 281.25 W	17.3 +- 2.0	5
281.26 - 303.75 WNW	55.8 +- 64.4	3
303.76 - 326.25 NW	15.9 +- 4.6	3
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	23.6 +- 26.0	19
2 - 5	15.5 +- 1.6	10
> 5	14.4 +- 2.7	5
Upwind Control	18.0 +- 2.3	3

NRC TLD DOSES FOR PILGRIM AREA

Miles

Legend

Water

Highways

Railroads

Roads

Plant site

PRAIRIE ISLAND

TLD Direct Radiation Environmental Monitoring

For the period 970609-971023 137 Days

Field Time: 93 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	312	16.5	21.7 +- 0.7; 3.3		16.5 +- 0.7; 4.3		16.9 +- 2.1	
2	310	15.0	21.8 +- 0.7; 3.3		16.5 +- 0.7; 4.3		16.5 +- 1.7	
3	310	15.0	Damaged Dosimeter		No Net Data		16.5 +- 1.8	
4	308	5.5	21.9 +- 0.7; 3.3		16.6 +- 0.7; 4.4		17.3 +- 1.7	
5	297	4.1	21.1 +- 0.6; 3.2		15.9 +- 0.7; 4.3		16.0 +- 1.6	
6	287	1.3	22.4 +- 0.7; 3.4		17.2 +- 0.7; 4.4		16.2 +- 2.0	
7	313	0.8	20.5 +- 0.6; 3.1		15.3 +- 0.7; 4.2		14.9 +- 1.6	
8	244	0.5	20.4 +- 0.6; 3.1		15.2 +- 0.7; 4.2		16.2 +- 1.5	
9	194	0.6	21.8 +- 0.7; 3.3		16.6 +- 0.7; 4.4		16.6 +- 1.4	
10	155	0.5	21.6 +- 0.6; 3.2		16.4 +- 0.7; 4.3		17.4 +- 1.6	
11	129	1.6	19.6 +- 0.6; 2.9		14.4 +- 0.7; 4.1		15.5 +- 1.5	
12	153	1.4	20.8 +- 0.6; 3.1		15.6 +- 0.7; 4.2		16.2 +- 1.4	
13	217	0.6	22.2 +- 0.7; 3.3		16.9 +- 0.7; 4.4		16.8 +- 1.6	
14	178	0.8	20.9 +- 0.6; 3.1		15.7 +- 0.7; 4.3		16.6 +- 1.5	
15	272	1.9	20.0 +- 0.6; 3.0		14.8 +- 0.7; 4.2		15.6 +- 1.6	
16	262	4.6	21.6 +- 0.6; 3.2		16.3 +- 0.7; 4.3		17.7 +- 2.3	
17	250	4.3	23.3 +- 0.7; 3.5		18.0 +- 0.8; 4.5		17.5 +- 1.8	
18	225	4.1	20.5 +- 0.6; 3.1		15.3 +- 0.7; 4.2		17.9 +- 3.1	
19	233	6.7	19.6 +- 0.6; 2.9		14.4 +- 0.7; 4.1		15.2 +- 1.7	
20	200	4.9	22.9 +- 0.7; 3.4		17.6 +- 0.8; 4.5		18.8 +- 1.9	
21	187	4.7	23.9 +- 0.7; 3.6		18.6 +- 0.8; 4.6		19.4 +- 2.0	
22	160	4.4	20.9 +- 0.6; 3.1		15.7 +- 0.7; 4.3		17.4 +- 2.0	
23	140	4.7	22.6 +- 0.7; 3.4		17.3 +- 0.7; 4.4		18.1 +- 1.9	
24	131	6.6	22.2 +- 0.7; 3.3		16.9 +- 0.7; 4.4		17.6 +- 1.7	
25	117	4.9	20.4 +- 0.6; 3.1		15.2 +- 0.7; 4.2		16.3 +- 1.5	
26	88	1.9	20.2 +- 0.6; 3.0		15.1 +- 0.7; 4.2		16.6 +- 1.7	
27	69	1.8	20.3 +- 0.6; 3.0		15.1 +- 0.7; 4.2		16.5 +- 2.0	
28	47	1.6	21.0 +- 0.6; 3.1		15.8 +- 0.7; 4.3		17.0 +- 2.0	
29	19	1.5	20.3 +- 0.6; 3.1		15.1 +- 0.7; 4.2		15.8 +- 1.8	
30	356	1.9	19.3 +- 0.6; 2.9		14.1 +- 0.7; 4.1		16.1 +- 2.0	
31	346	2.4	23.0 +- 0.7; 3.5		17.7 +- 0.8; 4.5		18.5 +- 1.7	
32	340	3.8	22.9 +- 0.7; 3.4		17.6 +- 0.8; 4.5		18.8 +- 2.1	
33	8	4.6	24.0 +- 0.7; 3.6		18.7 +- 0.8; 4.6		19.4 +- 1.9	
34	17	4.7	22.6 +- 0.7; 3.4		17.3 +- 0.7; 4.4		18.9 +- 1.9	
35	45	11.0	22.3 +- 0.7; 3.3		17.0 +- 0.7; 4.4		16.9 +- 1.6	
36	48	4.7	23.9 +- 0.7; 3.6		18.6 +- 0.8; 4.6		18.9 +- 2.0	
37	61	4.2	24.5 +- 0.7; 3.7		19.2 +- 0.8; 4.6		19.1 +- 1.8	
38	86	4.9	22.4 +- 0.7; 3.4		17.1 +- 0.7; 4.4		18.6 +- 2.0	
39	107	9.1	19.8 +- 0.6; 3.0		14.7 +- 0.7; 4.1		16.4 +- 1.5	
40	111	3.7	20.0 +- 0.6; 3.0		14.8 +- 0.7; 4.2		16.1 +- 1.7	
46	0	0.0	20.5 +- 0.6; 3.1		15.3 +- 0.7; 4.2		15.8 +- 1.3	
47	0	0.0	21.3 +- 0.6; 3.2		16.1 +- 0.7; 4.3		15.8 +- 0.8	

Transit Dose = 4.7 +- 0.4; 3.1

PRAIRIE ISLAND
For the period 970609-971023

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 +- 1.9	4
11.26 - 33.75 NNE	16.2 +- 1.5	2
33.76 - 56.25 NE	17.1 +- 1.4	3
56.26 - 78.75 ENE	17.1 +- 2.9	2
78.76 - 101.25 E	16.1 +- 1.5	2
101.26 - 123.75 ESE	14.9 +- 0.3	3
123.76 - 146.25 SE	16.2 +- 1.6	3
146.26 - 168.75 SSE	15.9 +- 0.4	3
168.76 - 191.25 S	17.1 +- 2.0	2
191.26 - 213.75 SSW	17.1 +- 0.7	2
213.76 - 236.25 SW	15.6 +- 1.3	3
236.26 - 258.75 WSW	16.6 +- 2.0	2
258.76 - 281.25 W	15.5 +- 1.1	2
281.26 - 303.75 WNW	16.5 +- 0.9	2
303.76 - 326.25 NW	16.0 +- 0.9	2
326.26 - 348.75 NNW	17.7 +- 0.1	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	15.6 +- 0.8	17
2 - 5	17.1 +- 1.3	17
> 5	15.9 +- 1.3	5
Upwind Control	16.5 +- 0.0	2

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 970609-971027 141 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	3	0.7	17.8	+- 0.5; 2.7	14.0	+- 0.6; 3.7	14.8	+- 1.4
2	16	1.2	21.8	+- 0.7; 3.3	17.6	+- 0.7; 4.1	17.5	+- 2.0
3	35	1.7	19.5	+- 0.6; 2.9	15.5	+- 0.6; 3.8	15.1	+- 1.2
4	45	1.1	18.4	+- 0.6; 2.8	14.5	+- 0.6; 3.7	15.6	+- 1.1
5	90	0.8	18.6	+- 0.6; 2.8	14.7	+- 0.6; 3.8	15.5	+- 1.3
6	138	1.1	19.8	+- 0.6; 3.0	15.8	+- 0.6; 3.9	16.2	+- 1.4
7	175	1.8	19.9	+- 0.6; 3.0	15.9	+- 0.6; 3.9	16.2	+- 1.5
8	165	2.0	19.7	+- 0.6; 2.9	15.7	+- 0.6; 3.9	16.5	+- 1.3
9	186	3.1	19.9	+- 0.6; 3.0	15.9	+- 0.6; 3.9	15.8	+- 1.1
10	188	7.7	15.8	+- 0.5; 2.4	12.2	+- 0.5; 3.5	14.8	+- 4.5
11	156	4.2	20.1	+- 0.6; 3.0	16.0	+- 0.6; 3.9	16.6	+- 1.4
12	142	4.8	20.3	+- 0.6; 3.1	16.3	+- 0.6; 3.9	16.5	+- 1.6
13	123	3.3	19.3	+- 0.6; 2.9	15.3	+- 0.6; 3.8	16.3	+- 1.3
14	122	2.0	19.8	+- 0.6; 3.0	15.8	+- 0.6; 3.9	14.8	+- 1.5
15	86	2.8	22.1	+- 0.7; 3.3	17.9	+- 0.7; 4.1	17.1	+- 1.4
16	57	4.4	21.8	+- 0.7; 3.3	17.7	+- 0.7; 4.1	18.9	+- 1.5
17	48	6.1	19.8	+- 0.6; 3.0	15.8	+- 0.6; 3.9	16.3	+- 1.2
18	39	9.4	Missing Dosimeter		No Net Data		15.8	+- 1.2
19	34	4.7	19.6	+- 0.6; 2.9	15.6	+- 0.6; 3.9	15.4	+- 1.2
20	16	4.3	20.8	+- 0.6; 3.1	16.7	+- 0.6; 4.0	16.7	+- 1.2
21	352	4.2	22.1	+- 0.7; 3.3	17.9	+- 0.7; 4.1	18.4	+- 2.7
22	328	4.1	22.9	+- 0.7; 3.4	18.7	+- 0.7; 4.2	18.4	+- 1.3
23	337	5.7	20.1	+- 0.6; 3.0	16.1	+- 0.6; 3.9	16.9	+- 1.3
24	310	4.4	22.1	+- 0.7; 3.3	17.9	+- 0.7; 4.1	18.2	+- 1.5
25	295	4.1	18.9	+- 0.6; 2.8	15.0	+- 0.6; 3.8	16.2	+- 1.3
26	278	6.9	17.1	+- 0.5; 2.6	13.4	+- 0.5; 3.6	14.1	+- 1.2
27	260	4.3	21.1	+- 0.6; 3.2	17.0	+- 0.6; 4.0	16.2	+- 1.6
28	253	4.0	20.5	+- 0.6; 3.1	16.4	+- 0.6; 3.9	16.6	+- 1.4
29	352	2.8	23.2	+- 0.7; 3.5	18.9	+- 0.7; 4.2	17.4	+- 1.3
30	335	1.9	20.1	+- 0.6; 3.0	16.1	+- 0.6; 3.9	17.0	+- 1.4
31	305	2.6	21.6	+- 0.6; 3.2	17.5	+- 0.7; 4.1	16.9	+- 1.7
32	285	2.5	18.8	+- 0.6; 2.8	14.9	+- 0.6; 3.8	15.0	+- 1.6
33	257	2.0	18.2	+- 0.5; 2.7	14.4	+- 0.6; 3.7	16.4	+- 1.6
34	248	2.2	21.6	+- 0.6; 3.2	17.4	+- 0.7; 4.1	16.6	+- 1.1
35	229	2.6	20.1	+- 0.6; 3.0	16.1	+- 0.6; 3.9	15.9	+- 1.3
36	204	3.4	19.6	+- 0.6; 2.9	15.6	+- 0.6; 3.9	16.0	+- 2.0
37	194	9.3	21.0	+- 0.6; 3.1	16.9	+- 0.6; 4.0	16.1	+- 1.2
38	224	4.9	22.1	+- 0.7; 3.3	17.9	+- 0.7; 4.1	17.3	+- 1.4
39	301	14.0	19.1	+- 0.6; 2.9	15.2	+- 0.6; 3.8	15.7	+- 1.2
40	301	14.0	19.9	+- 0.6; 3.0	15.9	+- 0.6; 3.9	15.2	+- 1.2
41	301	14.0	19.0	+- 0.6; 2.9	15.1	+- 0.6; 3.8	14.6	+- 1.2

Transit Dose = 2.4 +- 0.3; 3.1

QUAD CITIES

For the period 970609-971027

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	16.9 +- 2.6	3
11.26 - 33.75 NNE	17.2 +- 0.6	2
33.76 - 56.25 NE	15.4 +- 0.6	4
56.26 - 78.75 ENE	17.7 +- 0.0	1
78.76 - 101.25 E	16.3 +- 2.3	2
101.26 - 123.75 ESE	15.6 +- 0.3	2
123.76 - 146.25 SE	16.1 +- 0.3	2
146.26 - 168.75 SSE	15.9 +- 0.3	2
168.76 - 191.25 S	14.6 +- 2.1	3
191.26 - 213.75 SSW	16.2 +- 0.9	2
213.76 - 236.25 SW	17.0 +- 1.3	2
236.26 - 258.75 WSW	16.1 +- 1.5	3
258.76 - 281.25 W	15.2 +- 2.6	2
281.26 - 303.75 WNW	14.9 +- 0.1	2
303.76 - 326.25 NW	17.7 +- 0.3	2
326.26 - 348.75 NNW	16.9 +- 1.5	3

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	15.4 +- 1.0	11
2 - 5	16.8 +- 1.2	21
> 5	14.9 +- 2.0	5
Upwind Control	15.4 +- 0.4	3

NRC TLD DOSES FOR QUAD CITIES AREA

Miles

Legend

Water

--- Railroads

Plant site

— Highways

--- Roads

RANCHO SECO

TLD Direct Radiation Environmental Monitoring

For the period 970609-971106 151 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	288	16.0	22.9 +- 0.7; 3.4	17.4 +- 0.8; 4.6	16.0 +- 2.6
2	239	12.0	24.1 +- 0.7; 3.6	18.6 +- 0.8; 4.7	17.3 +- 1.6
3	213	16.0	25.5 +- 0.8; 3.8	20.0 +- 0.8; 4.9	18.8 +- 1.4
4	149	9.9	22.8 +- 0.7; 3.4	17.3 +- 0.8; 4.6	16.1 +- 1.2
5	108	8.2	29.4 +- 0.9; 4.4	23.8 +- 1.0; 5.3	22.5 +- 1.6
6	86	10.0	19.7 +- 0.6; 3.0	14.2 +- 0.7; 4.2	14.2 +- 1.2
7	83	9.7	21.1 +- 0.6; 3.2	15.6 +- 0.7; 4.4	14.3 +- 1.1
8	37	7.1	21.4 +- 0.6; 3.2	15.9 +- 0.7; 4.4	14.7 +- 1.1
9	65	0.8	22.5 +- 0.7; 3.4	17.0 +- 0.8; 4.5	15.9 +- 1.3
10	43	0.7	24.0 +- 0.7; 3.6	18.4 +- 0.8; 4.7	16.7 +- 1.8
11	92	0.2	21.2 +- 0.6; 3.2	15.7 +- 0.7; 4.4	14.8 +- 1.4
12	131	1.6	20.6 +- 0.6; 3.1	15.0 +- 0.7; 4.3	14.2 +- 1.1
13	358	0.6	Missing Dosimeter	No Net Data	17.7 +- 0.9
14	323	0.7	22.4 +- 0.7; 3.4	16.9 +- 0.8; 4.5	16.1 +- 1.2
15	151	0.7	20.5 +- 0.6; 3.1	15.0 +- 0.7; 4.3	15.2 +- 1.4
16	219	0.9	23.1 +- 0.7; 3.5	17.6 +- 0.8; 4.6	16.2 +- 1.4
17	245	1.5	23.0 +- 0.7; 3.5	17.5 +- 0.8; 4.6	15.7 +- 1.3
18	254	2.3	20.5 +- 0.6; 3.1	15.0 +- 0.7; 4.3	14.9 +- 0.9
19	323	7.0	22.6 +- 0.7; 3.4	17.1 +- 0.8; 4.5	16.4 +- 1.1
20	309	6.3	25.4 +- 0.8; 3.8	19.8 +- 0.8; 4.9	17.1 +- 1.5
21	279	5.7	22.9 +- 0.7; 3.4	17.3 +- 0.8; 4.6	15.8 +- 1.3
22	244	6.4	23.9 +- 0.7; 3.6	18.3 +- 0.8; 4.7	17.1 +- 1.2
23	217	4.6	22.8 +- 0.7; 3.4	17.2 +- 0.8; 4.6	16.0 +- 1.2
24	350	11.0	22.7 +- 0.7; 3.4	17.2 +- 0.8; 4.5	16.2 +- 0.9
25	318	17.0	21.8 +- 0.7; 3.3	16.3 +- 0.8; 4.5	16.5 +- 1.2
26	311	22.0	21.5 +- 0.6; 3.2	16.0 +- 0.7; 4.4	16.4 +- 1.2
27	306	27.0	22.2 +- 0.7; 3.3	16.6 +- 0.8; 4.5	15.3 +- 1.0
28	306	27.0	22.1 +- 0.7; 3.3	16.5 +- 0.8; 4.5	15.6 +- 0.9
29	306	27.0	22.9 +- 0.7; 3.4	17.4 +- 0.8; 4.6	15.4 +- 1.6
30	306	27.0	22.5 +- 0.7; 3.4	16.9 +- 0.8; 4.5	15.4 +- 1.7

Transit Dose = 5.4 +- 0.4; 3.1

RANCHO SECO

For the period 970609-971106

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 +- 0.0	1
11.26 - 33.75 NNE	No Data +- No Data	0
33.76 - 56.25 NE	17.2 +- 1.8	2
56.26 - 78.75 ENE	17.0 +- 0.0	1
78.76 - 101.25 E	15.2 +- 0.8	3
101.26 - 123.75 ESE	23.8 +- 0.0	1
123.76 - 146.25 SE	15.0 +- 0.0	1
146.26 - 168.75 SSE	16.1 +- 1.6	2
168.76 - 191.25 S	No Data +- No Data	0
191.26 - 213.75 SSW	20.0 +- 0.0	1
213.76 - 236.25 SW	17.4 +- 0.2	2
236.26 - 258.75 WSW	17.3 +- 1.6	4
258.76 - 281.25 W	17.3 +- 0.0	1
281.26 - 303.75 WNW	17.4 +- 0.0	1
303.76 - 326.25 NW	17.4 +- 1.2	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	16.6 +- 1.3	8
2 - 5	16.1 +- 1.6	2
> 5	17.7 +- 2.2	16
Upwind Control	16.4 +- 0.4	3

NRC TLD DOSES FOR RANCHO SECO AREA

Miles

Legend

Water
Highways

Railroads
Roads

Plant..site

RIVER BEND

TLD Direct Radiation Environmental Monitoring

For the period 970609-971029 143 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	348	1.3	21.8	+- 0.7; 3.3	19.5	+- 0.8; 4.5	16.4	+- 1.8
2	42	1.1	21.8	+- 0.7; 3.3	19.5	+- 0.8; 4.5	17.6	+- 1.3
3	61	1.1	22.2	+- 0.7; 3.3	19.9	+- 0.8; 4.6	18.4	+- 1.4
4	90	0.8	21.7	+- 0.7; 3.3	19.4	+- 0.8; 4.5	17.5	+- 1.3
5	107	0.6	22.1	+- 0.7; 3.3	19.8	+- 0.8; 4.6	18.2	+- 1.3
6	136	0.8	22.6	+- 0.7; 3.4	20.3	+- 0.8; 4.6	18.6	+- 1.5
7	166	1.0	19.6	+- 0.6; 2.9	17.2	+- 0.7; 4.3	15.5	+- 1.1
8	182	0.9	20.5	+- 0.6; 3.1	18.1	+- 0.7; 4.4	16.4	+- 1.1
9	195	0.6	21.2	+- 0.6; 3.2	18.9	+- 0.8; 4.4	16.4	+- 1.2
10	225	0.7	21.0	+- 0.6; 3.2	18.7	+- 0.7; 4.4	17.0	+- 1.2
11	254	0.4	19.5	+- 0.6; 2.9	17.1	+- 0.7; 4.2	16.4	+- 1.5
12	276	0.6	20.4	+- 0.6; 3.1	18.0	+- 0.7; 4.3	18.1	+- 1.2
13	295	0.6	22.7	+- 0.7; 3.4	20.4	+- 0.8; 4.6	18.6	+- 1.2
14	320	0.9	21.1	+- 0.6; 3.2	18.7	+- 0.7; 4.4	17.2	+- 1.4
15	332	2.1	22.1	+- 0.7; 3.3	19.8	+- 0.8; 4.6	18.3	+- 1.4
16	312	2.7	22.1	+- 0.7; 3.3	19.8	+- 0.8; 4.6	17.2	+- 1.9
17	302	3.1	18.3	+- 0.5; 2.7	15.8	+- 0.7; 4.1	15.5	+- 1.2
18	278	3.8	18.1	+- 0.5; 2.7	15.5	+- 0.7; 4.1	14.9	+- 1.8
19	242	2.8	22.8	+- 0.7; 3.4	20.6	+- 0.8; 4.6	19.0	+- 1.4
20	195	5.4	20.2	+- 0.6; 3.0	17.8	+- 0.7; 4.3	17.1	+- 1.5
21	215	3.0	21.0	+- 0.6; 3.1	18.6	+- 0.7; 4.4	17.7	+- 1.2
22	233	7.1	18.4	+- 0.6; 2.8	15.9	+- 0.7; 4.1	14.6	+- 1.7
23	246	9.7	19.1	+- 0.6; 2.9	16.7	+- 0.7; 4.2	17.2	+- 1.3
24	234	7.3	20.4	+- 0.6; 3.1	18.0	+- 0.7; 4.4	15.4	+- 1.7
25	185	7.6	22.2	+- 0.7; 3.3	19.9	+- 0.8; 4.6	17.6	+- 1.2
26	322	7.7	19.3	+- 0.6; 2.9	16.8	+- 0.7; 4.2	16.2	+- 1.5
27	328	10.0	23.5	+- 0.7; 3.5	21.3	+- 0.8; 4.7	18.4	+- 1.4
28	340	7.2	21.5	+- 0.6; 3.2	19.1	+- 0.8; 4.5	17.9	+- 1.1
29	354	9.5	20.3	+- 0.6; 3.0	17.9	+- 0.7; 4.3	16.8	+- 1.2
30	360	5.1	21.3	+- 0.6; 3.2	19.0	+- 0.8; 4.5	18.2	+- 1.3
31	221	6.9	21.8	+- 0.7; 3.3	19.5	+- 0.8; 4.5	18.1	+- 1.3
32	40	4.9	21.3	+- 0.6; 3.2	19.0	+- 0.8; 4.5	17.2	+- 1.2
33	52	8.7	18.0	+- 0.5; 2.7	15.4	+- 0.7; 4.1	14.3	+- 1.4
34	65	8.4	21.0	+- 0.6; 3.2	18.7	+- 0.7; 4.4	16.6	+- 1.2
35	87	6.6	19.4	+- 0.6; 2.9	17.0	+- 0.7; 4.2	15.2	+- 1.0
36	326	5.8	22.3	+- 0.7; 3.4	20.1	+- 0.8; 4.6	17.7	+- 1.4
37	329	22.0	20.0	+- 0.6; 3.0	17.6	+- 0.7; 4.3	17.0	+- 1.1
38	111	3.8	19.1	+- 0.6; 2.9	16.6	+- 0.7; 4.2	16.2	+- 1.3
39	131	5.6	20.8	+- 0.6; 3.1	18.4	+- 0.7; 4.4	17.2	+- 1.1
40	155	6.2	20.9	+- 0.6; 3.1	18.6	+- 0.7; 4.4	17.9	+- 1.2
41	120	9.0	19.0	+- 0.6; 2.8	16.5	+- 0.7; 4.2	16.5	+- 1.5
42	121	11.0	18.2	+- 0.5; 2.7	15.7	+- 0.7; 4.1	14.8	+- 0.8
43	180	1.1	22.6	+- 0.7; 3.4	20.3	+- 0.8; 4.6	18.9	+- 1.2
44	150	28.0	18.7	+- 0.6; 2.8	16.2	+- 0.7; 4.2	14.3	+- 1.2

Transit Dose = 3.4 +- 0.3; 2.7

RIVER BEND

For the period 970609-971029

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	18.4 +- 0.8	2
11.26 - 33.75 NNE	No Data +- No Data	0
33.76 - 56.25 NE	18.0 +- 2.2	3
56.26 - 78.75 ENE	19.3 +- 0.9	2
78.76 - 101.25 E	18.2 +- 1.8	2
101.26 - 123.75 ESE	17.2 +- 1.8	4
123.76 - 146.25 SE	19.4 +- 1.4	2
146.26 - 168.75 SSE	17.9 +- 1.0	2
168.76 - 191.25 S	19.5 +- 1.2	3
191.26 - 213.75 SSW	18.3 +- 0.8	2
213.76 - 236.25 SW	18.2 +- 1.4	5
236.26 - 258.75 WSW	18.1 +- 2.2	3
258.76 - 281.25 W	16.8 +- 1.8	2
281.26 - 303.75 WNW	18.1 +- 3.3	2
303.76 - 326.25 NW	18.9 +- 1.5	4
326.26 - 348.75 NNW	19.5 +- 1.3	5

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	19.1 +- 1.1	15
2 - 5	18.2 +- 2.0	8
> 5	18.0 +- 1.6	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 970611-971021 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	18.0 +- 0.5; 2.7	12.8 +- 0.6; 4.0	14.2 +- 1.2
2	151 1.9	26.9 +- 0.8; 4.0	21.5 +- 0.9; 5.0	22.1 +- 1.6
3	134 2.0	24.4 +- 0.7; 3.7	19.1 +- 0.8; 4.7	17.7 +- 1.2
4	119 1.9	19.8 +- 0.6; 3.0	14.6 +- 0.7; 4.2	14.2 +- 0.9
5	89 2.1	23.0 +- 0.7; 3.5	17.7 +- 0.8; 4.5	17.5 +- 1.4
6	65 1.0	20.9 +- 0.6; 3.1	15.6 +- 0.7; 4.3	15.9 +- 1.0
7	46 1.8	23.2 +- 0.7; 3.5	17.8 +- 0.8; 4.5	16.7 +- 1.6
8	27 1.9	22.5 +- 0.7; 3.4	17.2 +- 0.8; 4.5	16.8 +- 1.1
9	22 3.5	21.5 +- 0.6; 3.2	16.2 +- 0.7; 4.4	16.3 +- 1.5
10	0 5.0	23.2 +- 0.7; 3.5	17.9 +- 0.8; 4.5	17.9 +- 1.1
11	51 4.8	25.4 +- 0.8; 3.8	20.1 +- 0.8; 4.8	19.1 +- 1.0
12	67 4.1	19.4 +- 0.6; 2.9	14.2 +- 0.7; 4.1	14.4 +- 1.5
13	87 4.5	21.6 +- 0.6; 3.2	16.3 +- 0.7; 4.4	15.6 +- 1.0
14	109 5.0	22.7 +- 0.7; 3.4	17.4 +- 0.8; 4.5	16.1 +- 1.1
15	118 4.8	22.5 +- 0.7; 3.4	17.1 +- 0.8; 4.5	16.2 +- 1.9
16	138 5.3	22.1 +- 0.7; 3.3	16.8 +- 0.7; 4.4	16.8 +- 1.2
17	115 17.1	22.3 +- 0.7; 3.3	17.0 +- 0.8; 4.4	15.4 +- 1.7
18	199 12.6	22.0 +- 0.7; 3.3	16.7 +- 0.7; 4.4	16.3 +- 0.9
19	208 4.8	29.4 +- 0.9; 4.4	23.9 +- 0.9; 5.3	21.9 +- 2.3
20	225 4.0	25.5 +- 0.8; 3.8	20.1 +- 0.8; 4.8	19.3 +- 1.3
21 *	178 4.6	Damaged Dosimeter	No Net Data	12.7 +- 1.1
22	167 3.7	21.5 +- 0.6; 3.2	16.2 +- 0.7; 4.4	16.0 +- 1.0
23	181 2.3	20.0 +- 0.6; 3.0	14.8 +- 0.7; 4.2	15.3 +- 0.9
24	194 2.0	24.8 +- 0.7; 3.7	19.4 +- 0.8; 4.7	18.9 +- 1.1
25	228 2.1	Missing Dosimeter	No Net Data	18.2 +- 0.9
26	245 1.5	19.4 +- 0.6; 2.9	14.2 +- 0.7; 4.1	14.2 +- 1.2
27	273 1.8	18.5 +- 0.6; 2.8	13.3 +- 0.7; 4.1	13.5 +- 1.0
28	287 2.0	18.2 +- 0.5; 2.7	12.9 +- 0.6; 4.0	13.3 +- 0.9
29	311 1.6	24.1 +- 0.7; 3.6	18.8 +- 0.8; 4.6	17.4 +- 0.9
30	334 1.9	21.5 +- 0.6; 3.2	16.2 +- 0.7; 4.4	16.2 +- 1.7
31	351 2.1	Missing Dosimeter	No Net Data	15.1 +- 1.8
32	333 4.0	21.3 +- 0.6; 3.2	16.0 +- 0.7; 4.3	16.2 +- 1.1
33	318 4.7	23.9 +- 0.7; 3.6	18.6 +- 0.8; 4.6	17.7 +- 1.1
34	310 6.9	20.6 +- 0.6; 3.1	15.4 +- 0.7; 4.3	15.5 +- 1.8
35	295 4.0	27.0 +- 0.8; 4.0	21.5 +- 0.9; 5.0	20.8 +- 1.2
36	269 4.8	22.8 +- 0.7; 3.4	17.5 +- 0.8; 4.5	18.3 +- 1.6
37	252 4.6	23.8 +- 0.7; 3.6	18.4 +- 0.8; 4.6	17.3 +- 1.3
38	274 10.7	26.1 +- 0.8; 3.9	20.7 +- 0.8; 4.9	18.7 +- 3.3
39	286 15.3	19.7 +- 0.6; 3.0	14.4 +- 0.7; 4.2	14.7 +- 1.2
40	289 16.5	20.3 +- 0.6; 3.1	15.1 +- 0.7; 4.2	14.1 +- 0.9
41	291 17.5	20.0 +- 0.6; 3.0	14.7 +- 0.7; 4.2	15.0 +- 1.4

Transit Dose = 4.9 +- 0.4; 3.1

* The result for this location was outside (above) the expected range. Refer to the preface of this report for more information.

ROBINSON

For the period 970611-971021

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 +- 0.0	1
11.26 - 33.75 NNE	16.7 +- 0.7	2
33.76 - 56.25 NE	18.9 +- 1.6	2
56.26 - 78.75 ENE	14.9 +- 1.1	2
78.76 - 101.25 E	17.0 +- 1.0	2
101.26 - 123.75 ESE	16.5 +- 1.3	4
123.76 - 146.25 SE	17.9 +- 1.6	2
146.26 - 168.75 SSE	18.8 +- 3.7	2
168.76 - 191.25 S	13.8 +- 1.4	2
191.26 - 213.75 SSW	20.0 +- 3.6	3
213.76 - 236.25 SW	20.1 +- 0.0	1
236.26 - 258.75 WSW	16.3 +- 3.0	2
258.76 - 281.25 W	17.1 +- 3.7	3
281.26 - 303.75 WNW	17.2 +- 6.1	2
303.76 - 326.25 NW	17.6 +- 1.9	3
326.26 - 348.75 NNW	16.1 +- 0.2	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	16.4 +- 2.8	13
2 - 5	17.9 +- 2.5	17
> 5	17.3 +- 2.0	5
Upwind Control	14.7 +- 0.3	3

NRC TLD DOSES FOR ROBINSON AREA

Miles

Legend

Water
Highways

Railroads
Roads

Plant..site

SALEM (DE)

TLD Direct Radiation Environmental Monitoring

For the period 970611-971209 182 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	30.5 +- 0.9; 4.6	15.9 +- 1.1; 6.0	16.7 +- 1.7
18	320 3.8	27.1 +- 0.8; 4.1	12.5 +- 1.0; 5.6	13.7 +- 0.9
19	299 3.4	30.1 +- 0.9; 4.5	15.5 +- 1.1; 6.0	15.9 +- 1.2
20	330 9.5	33.1 +- 1.0; 5.0	18.4 +- 1.2; 6.3	19.2 +- 1.2
21	276 3.6	32.1 +- 1.0; 4.8	17.5 +- 1.1; 6.2	18.0 +- 1.2
22	266 4.7	32.6 +- 1.0; 4.9	17.9 +- 1.2; 6.2	17.6 +- 0.7
23	257 4.4	31.9 +- 1.0; 4.8	17.3 +- 1.1; 6.2	17.3 +- 1.2
24	240 4.4	32.0 +- 1.0; 4.8	17.3 +- 1.1; 6.2	17.9 +- 1.0
25	217 4.9	34.8 +- 1.0; 5.2	20.0 +- 1.2; 6.5	17.5 +- 1.3
26	204 3.9	29.9 +- 0.9; 4.5	15.2 +- 1.1; 5.9	16.3 +- 1.1
27	188 4.2	34.9 +- 1.0; 5.2	20.2 +- 1.2; 6.5	18.8 +- 2.3
28	319 18.1	37.5 +- 1.1; 5.6	22.7 +- 1.3; 6.8	19.5 +- 1.7
29	265 6.7	30.0 +- 0.9; 4.5	15.4 +- 1.1; 5.9	14.8 +- 0.9
30	340 12.2	Missing Dosimeter	No Net Data	14.2 +- 1.1
31	0 18.2	30.7 +- 0.9; 4.6	16.0 +- 1.1; 6.0	17.0 +- 1.0
32	338 8.1	29.9 +- 0.9; 4.5	15.3 +- 1.1; 5.9	15.1 +- 1.1
33	265 9.8	30.9 +- 0.9; 4.6	16.3 +- 1.1; 6.0	17.2 +- 1.2
34	207 11.6	29.9 +- 0.9; 4.5	15.2 +- 1.1; 5.9	16.5 +- 1.1

Transit Dose = 14.3 +- 0.7; 4.1

SALEM (DE)

For the period 970611-971209

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	20.2 +- 0.0	1
191.26 - 213.75 SSW	15.2 +- 0.0	2
213.76 - 236.25 SW	20.0 +- 0.0	1
236.26 - 258.75 WSW	17.3 +- 0.1	2
258.76 - 281.25 W	16.8 +- 1.2	4
281.26 - 303.75 WNW	15.5 +- 0.0	1
303.76 - 326.25 NW	12.5 +- 0.0	1
326.26 - 348.75 NNW	16.5 +- 1.7	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	16.9 +- 2.3	10
> 5	16.1 +- 1.3	5
Upwind Control	19.4 +- 4.7	2

--- Roads

SALEM (NJ)

TLD Direct Radiation Environmental Monitoring

For the period 970611-971020 132 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	17.7 +- 0.5; 2.7	11.8 +- 0.6; 4.0	13.9 +- 0.7
2 *	79	3.4	15.7 +- 0.5; 2.4	9.8 +- 0.6; 3.8	14.0 +- 1.1
3	72	3.6	18.3 +- 0.5; 2.7	12.4 +- 0.7; 4.1	16.7 +- 2.2
4	58	4.2	18.1 +- 0.5; 2.7	12.1 +- 0.7; 4.1	15.3 +- 1.3
5	54	4.9	16.9 +- 0.5; 2.5	11.0 +- 0.6; 4.0	13.1 +- 0.9
6	68	8.6	15.5 +- 0.5; 2.3	9.6 +- 0.6; 3.8	11.8 +- 0.9
7	40	5.7	19.5 +- 0.6; 2.9	13.6 +- 0.7; 4.2	13.9 +- 1.0
8 *	116	12.0	16.7 +- 0.5; 2.5	10.8 +- 0.6; 3.9	13.5 +- 0.7
10	8	5.8	18.3 +- 0.5; 2.7	12.4 +- 0.7; 4.1	13.8 +- 0.9
11 *	15	8.1	16.5 +- 0.5; 2.5	10.6 +- 0.6; 3.9	13.0 +- 0.7
12	24	8.6	17.3 +- 0.5; 2.6	11.4 +- 0.6; 4.0	13.2 +- 0.7
13 *	49	8.6	15.7 +- 0.5; 2.4	9.8 +- 0.6; 3.8	12.6 +- 0.7
14 *	90	6.7	14.8 +- 0.4; 2.2	8.9 +- 0.6; 3.8	12.1 +- 0.9
15	105	6.4	Missing Dosimeter	No Net Data	12.2 +- 0.7

Transit Dose = 5.7 +- 0.4; 3.1

* The results for these locations were outside (below) the expected range. Refer to the preface of this report for more information.

SALEM (NJ)

For the period 970611-971020

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	12.4 +- 0.0	1
11.26 - 33.75 NNE	11.0 +- 0.5	2
33.76 - 56.25 NE	11.5 +- 1.9	3
56.26 - 78.75 ENE	11.4 +- 1.5	3
78.76 - 101.25 E	10.2 +- 1.5	3
101.26 - 123.75 ESE	10.8 +- 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	11.4 +- 1.0	5
> 5	10.9 +- 1.5	8
Upwind Control	No Data +- No Data	0

NRC TLD DOSES FOR SALEM - HOPE CREEK AREA

Miles

Legend

Water
Highways

Railroads
Roads

Plant..site

SAN ONOFRE

TLD Direct Radiation Environmental Monitoring

For the period 970609-971106 151 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	346	35.0	31.4	+- 0.9; 4.7	23.0	+- 1.0; 5.7	23.4	+- 1.4
2	346	35.0	30.1	+- 0.9; 4.5	21.7	+- 1.0; 5.5	23.0	+- 1.4
3	346	35.0	29.6	+- 0.9; 4.4	21.2	+- 1.0; 5.5	23.1	+- 1.6
4	327	11.0	23.7	+- 0.7; 3.6	15.5	+- 0.8; 4.8	16.6	+- 1.7
5	308	14.0	26.8	+- 0.8; 4.0	18.5	+- 0.9; 5.1	19.4	+- 1.4
6	307	10.0	24.1	+- 0.7; 3.6	15.9	+- 0.8; 4.8	16.9	+- 1.4
7	318	6.3	24.2	+- 0.7; 3.6	16.0	+- 0.8; 4.8	17.5	+- 1.4
8	322	5.1	26.7	+- 0.8; 4.0	18.5	+- 0.9; 5.1	19.2	+- 1.4
9	311	3.3	Missing Dosimeter		No Net Data		17.4	+- 1.6
10	331	3.3	25.2	+- 0.8; 3.8	16.9	+- 0.9; 4.9	19.4	+- 2.5
11	300	2.6	26.3	+- 0.8; 4.0	18.1	+- 0.9; 5.1	19.1	+- 1.5
12	285	0.5	24.8	+- 0.7; 3.7	16.6	+- 0.9; 4.9	19.9	+- 3.1
13	320	2.4	26.2	+- 0.8; 3.9	17.9	+- 0.9; 5.1	17.7	+- 1.7
14	320	1.7	25.1	+- 0.8; 3.8	16.9	+- 0.9; 4.9	17.6	+- 1.5
15	333	1.2	25.4	+- 0.8; 3.8	17.1	+- 0.9; 5.0	18.0	+- 1.4
16	30	1.9	28.0	+- 0.8; 4.2	19.7	+- 0.9; 5.3	20.6	+- 1.8
17	8	1.3	21.7	+- 0.7; 3.3	13.5	+- 0.8; 4.6	15.5	+- 1.3
18	39	2.0	28.2	+- 0.8; 4.2	19.9	+- 0.9; 5.3	21.5	+- 1.3
19	55	2.9	25.7	+- 0.8; 3.9	17.5	+- 0.9; 5.0	18.1	+- 1.5
20	77	4.1	28.7	+- 0.9; 4.3	20.4	+- 1.0; 5.3	20.2	+- 1.5
21	87	4.7	28.4	+- 0.9; 4.3	20.1	+- 0.9; 5.3	20.3	+- 1.4
22	25	3.4	28.4	+- 0.9; 4.3	20.1	+- 0.9; 5.3	21.8	+- 1.8
23	357	3.5	27.1	+- 0.8; 4.1	18.8	+- 0.9; 5.2	20.3	+- 1.9
24	25	0.4	25.7	+- 0.8; 3.9	17.4	+- 0.9; 5.0	17.9	+- 1.4
25	81	0.4	24.6	+- 0.7; 3.7	16.3	+- 0.9; 4.9	17.7	+- 2.3
26	126	2.1	21.3	+- 0.6; 3.2	13.1	+- 0.8; 4.5	14.9	+- 1.4
27	130	8.6	21.1	+- 0.6; 3.2	12.9	+- 0.8; 4.5	15.0	+- 1.7
28	99	8.9	21.2	+- 0.6; 3.2	13.0	+- 0.8; 4.5	15.3	+- 1.9
29	135	11.0	21.8	+- 0.7; 3.3	13.6	+- 0.8; 4.6	15.9	+- 1.8
30	126	2.0	19.7	+- 0.6; 3.0	11.6	+- 0.7; 4.4	12.3	+- 1.6
31	128	3.7	22.8	+- 0.7; 3.4	14.6	+- 0.8; 4.7	14.6	+- 1.5
32	140	22.0	26.7	+- 0.8; 4.0	18.4	+- 0.9; 5.1	18.7	+- 2.1
33	120	26.0	21.9	+- 0.7; 3.3	13.8	+- 0.8; 4.6	15.1	+- 1.5

Transit Dose = 7.9 +- 0.5; 3.4

SAN ONOFRE

For the period 970609-971106

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	16.2 +- 3.8	2
11.26 - 33.75 NNE	19.1 +- 1.4	3
33.76 - 56.25 NE	18.7 +- 1.7	2
56.26 - 78.75 ENE	20.4 +- 0.0	1
78.76 - 101.25 E	16.5 +- 3.5	3
101.26 - 123.75 ESE	13.8 +- 0.0	1
123.76 - 146.25 SE	14.0 +- 2.4	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	17.3 +- 1.1	2
303.76 - 326.25 NW	17.3 +- 1.2	6
326.26 - 348.75 NNW	16.5 +- 0.9	3

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	16.5 +- 2.7	9
2 - 5	17.7 +- 2.4	10
> 5	15.6 +- 2.3	10
Upwind Control	22.0 +- 0.9	3

Legend

- Legend**
Water	Railroads	Plant..site
Highways	Roads	

SEABROOK

TLD Direct Radiation Environmental Monitoring

For the period 970611-971020 132 Days

Field Time: 87 Days

NRC Sta	Location		Gross			Net Exposure Rate				Hist. Range	
	Azimuth/Dist		Exposure (mR)			(mR/Std. Qtr.)				Net Exp Rate	
	(Deg)/(Mi)		+-Rdm; Tot.			+-Rdm; Tot.				+-1 Std Dev	
1	154	0.6	20.3	+-	0.6; 3.0	20.4	+-	0.7; 4.1		17.3	+- 2.4
2	178	0.7	21.4	+-	0.6; 3.2	21.5	+-	0.7; 4.3		16.8	+- 2.2
3	207	0.7	20.2	+-	0.6; 3.0	20.3	+-	0.7; 4.1		16.4	+- 2.6
4	224	0.9	19.6	+-	0.6; 2.9	19.6	+-	0.7; 4.0		17.6	+- 2.7
5	243	1.2	20.8	+-	0.6; 3.1	20.9	+-	0.7; 4.2		16.2	+- 2.8
6	294	1.0	21.2	+-	0.6; 3.2	21.3	+-	0.7; 4.2		17.2	+- 2.3
7	267	0.7	20.8	+-	0.6; 3.1	20.9	+-	0.7; 4.2		16.8	+- 2.3
8	320	1.1	21.5	+-	0.6; 3.2	21.7	+-	0.7; 4.3		17.8	+- 2.8
9	329	1.6	23.1	+-	0.7; 3.5	23.2	+-	0.8; 4.5		19.3	+- 2.7
10	357	1.9	20.0	+-	0.6; 3.0	20.1	+-	0.7; 4.1		16.8	+- 2.5
11	18	2.5	19.2	+-	0.6; 2.9	19.3	+-	0.6; 4.0		17.0	+- 2.5
12	46	1.9	19.8	+-	0.6; 3.0	19.9	+-	0.7; 4.1		16.4	+- 2.2
13	83	1.7	19.2	+-	0.6; 2.9	19.2	+-	0.6; 4.0		17.2	+- 2.5
14	43	4.1	22.1	+-	0.7; 3.3	22.3	+-	0.7; 4.4		18.1	+- 2.5
15	358	4.2	22.1	+-	0.7; 3.3	22.2	+-	0.7; 4.3		17.9	+- 2.6
16	18	11.8	21.7	+-	0.7; 3.3	21.8	+-	0.7; 4.3		18.1	+- 2.5
17	321	7.4	22.1	+-	0.7; 3.3	22.2	+-	0.7; 4.3		19.1	+- 2.9
18	291	3.9	22.8	+-	0.7; 3.4	23.0	+-	0.7; 4.4		17.9	+- 2.3
19	267	3.7	20.6	+-	0.6; 3.1	20.7	+-	0.7; 4.2		17.1	+- 2.4
20	251	4.2	22.5	+-	0.7; 3.4	22.7	+-	0.7; 4.4		19.1	+- 3.0
21	228	4.7	19.1	+-	0.6; 2.9	19.2	+-	0.6; 4.0		16.7	+- 2.6
22	209	6.2	22.9	+-	0.7; 3.4	23.1	+-	0.8; 4.4		19.4	+- 2.6
23	187	6.5	24.5	+-	0.7; 3.7	24.7	+-	0.8; 4.6		19.3	+- 2.6
24	163	7.1	20.2	+-	0.6; 3.0	20.3	+-	0.7; 4.1		15.9	+- 2.5
25	174	4.0	19.0	+-	0.6; 2.8	19.0	+-	0.6; 4.0		15.8	+- 2.8
26	157	4.0	19.4	+-	0.6; 2.9	19.4	+-	0.6; 4.0		16.6	+- 2.6
27	136	2.4	20.6	+-	0.6; 3.1	20.6	+-	0.7; 4.2		17.0	+- 2.7
28	118	1.6	20.7	+-	0.6; 3.1	20.8	+-	0.7; 4.2		16.5	+- 2.4
30	67	2.1	22.1	+-	0.7; 3.3	22.3	+-	0.7; 4.4		18.6	+- 2.7
31	335	5.5	21.9	+-	0.7; 3.3	22.0	+-	0.7; 4.3		18.1	+- 2.6
32	318	3.2	21.5	+-	0.6; 3.2	21.6	+-	0.7; 4.3		18.9	+- 2.9
33	230	19.3	21.0	+-	0.6; 3.1	21.1	+-	0.7; 4.2		17.4	+- 3.4
34	230	19.3	23.2	+-	0.7; 3.5	23.4	+-	0.8; 4.5		18.1	+- 3.1
35	230	19.3	21.4	+-	0.6; 3.2	21.5	+-	0.7; 4.3		19.2	+- 3.4

Transit Dose = 0.6 +- 0.2; 2.6

SEABROOK

For the period 970611-971020

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	21.1 +- 1.5	2
11.26 - 33.75 NNE	20.5 +- 1.8	2
33.76 - 56.25 NE	21.1 +- 1.7	2
56.26 - 78.75 ENE	22.3 +- 0.0	1
78.76 - 101.25 E	19.2 +- 0.0	1
101.26 - 123.75 ESE	20.8 +- 0.0	1
123.76 - 146.25 SE	20.6 +- 0.0	1
146.26 - 168.75 SSE	20.0 +- 0.5	3
168.76 - 191.25 S	21.7 +- 2.8	3
191.26 - 213.75 SSW	21.7 +- 2.0	2
213.76 - 236.25 SW	20.1 +- 1.3	3
236.26 - 258.75 WSW	21.8 +- 1.2	2
258.76 - 281.25 W	20.8 +- 0.1	2
281.26 - 303.75 WNW	22.2 +- 1.2	2
303.76 - 326.25 NW	21.9 +- 0.4	2
326.26 - 348.75 NNW	22.6 +- 0.9	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	20.7 +- 1.1	13
2 - 5	21.0 +- 1.6	11
> 5	22.2 +- 1.4	7
Upwind Control	22.0 +- 1.2	3

NRC TLD DOSES FOR SEABROOK AREA

Miles

Legend

Water
Highways

Railroads
Roads

Plant..site

SEQUOYAH

TLD Direct Radiation Environmental Monitoring

For the period 970610-971020 133 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	218	12.0	19.2 +- 0.6; 2.9	18.2 +- 0.6; 3.9	16.9 +- 1.5
2	206	13.0	19.1 +- 0.6; 2.9	18.0 +- 0.6; 3.8	14.6 +- 1.3
3	203	3.9	24.5 +- 0.7; 3.7	23.3 +- 0.7; 4.4	20.3 +- 1.5
4	199	2.0	20.3 +- 0.6; 3.0	19.2 +- 0.6; 4.0	17.2 +- 1.5
5	181	1.4	23.3 +- 0.7; 3.5	22.1 +- 0.7; 4.3	21.1 +- 1.3
6	153	1.5	18.7 +- 0.6; 2.8	17.7 +- 0.6; 3.8	15.8 +- 1.3
7	139	1.9	17.6 +- 0.5; 2.6	16.6 +- 0.6; 3.7	14.9 +- 1.2
8	115	1.8	18.2 +- 0.5; 2.7	17.1 +- 0.6; 3.7	16.1 +- 1.8
9	84	1.6	16.9 +- 0.5; 2.5	15.9 +- 0.5; 3.6	14.0 +- 1.4
10	66	1.3	16.2 +- 0.5; 2.4	15.2 +- 0.5; 3.6	15.6 +- 1.3
11	45	1.5	18.9 +- 0.6; 2.8	17.8 +- 0.6; 3.8	16.8 +- 1.5
12	14	2.0	22.8 +- 0.7; 3.4	21.6 +- 0.7; 4.2	18.9 +- 1.1
13	2	2.1	21.8 +- 0.7; 3.3	20.7 +- 0.7; 4.1	19.2 +- 1.6
14	19	3.9	Damaged Dosimeter	No Net Data	16.1 +- 1.3
15	48	4.0	Missing Dosimeter	No Net Data	13.7 +- 1.2
16	65	4.9	18.3 +- 0.5; 2.7	17.3 +- 0.6; 3.8	15.9 +- 1.1
17	90	3.9	18.5 +- 0.6; 2.8	17.4 +- 0.6; 3.8	17.1 +- 1.8
18	111	3.4	18.6 +- 0.6; 2.8	17.6 +- 0.6; 3.8	16.2 +- 1.5
19	135	3.4	18.7 +- 0.6; 2.8	17.6 +- 0.6; 3.8	16.4 +- 1.1
20	158	3.4	15.9 +- 0.5; 2.4	15.0 +- 0.5; 3.5	14.7 +- 1.8
21	184	4.6	19.2 +- 0.6; 2.9	18.1 +- 0.6; 3.9	18.8 +- 2.4
22	233	11.0	17.4 +- 0.5; 2.6	16.4 +- 0.6; 3.7	14.8 +- 1.1
23	219	4.9	20.9 +- 0.6; 3.1	19.8 +- 0.7; 4.0	18.3 +- 1.2
24	241	4.3	18.1 +- 0.5; 2.7	17.1 +- 0.6; 3.7	15.7 +- 1.3
25	235	2.0	15.9 +- 0.5; 2.4	14.9 +- 0.5; 3.5	13.4 +- 1.0
26	248	1.5	16.9 +- 0.5; 2.5	15.9 +- 0.5; 3.6	15.6 +- 1.9
27	266	1.2	17.8 +- 0.5; 2.7	16.8 +- 0.6; 3.7	15.0 +- 1.3
28	291	1.2	18.9 +- 0.6; 2.8	17.9 +- 0.6; 3.8	15.9 +- 1.4
29	309	1.2	18.7 +- 0.6; 2.8	17.7 +- 0.6; 3.8	16.2 +- 1.4
30	330	0.5	20.3 +- 0.6; 3.0	19.2 +- 0.6; 4.0	17.1 +- 1.5
31	339	1.8	19.5 +- 0.6; 2.9	18.4 +- 0.6; 3.9	17.1 +- 1.3
32	355	4.9	18.8 +- 0.6; 2.8	17.7 +- 0.6; 3.8	15.1 +- 1.1
33	334	3.6	18.2 +- 0.5; 2.7	17.2 +- 0.6; 3.8	15.1 +- 1.2
34	317	4.4	17.9 +- 0.5; 2.7	16.9 +- 0.6; 3.7	16.0 +- 1.6
35	277	5.6	19.6 +- 0.6; 2.9	18.5 +- 0.6; 3.9	16.5 +- 1.4
36	283	3.6	16.9 +- 0.5; 2.5	15.9 +- 0.5; 3.6	14.5 +- 1.1
37	273	4.4	18.1 +- 0.5; 2.7	17.0 +- 0.6; 3.7	15.6 +- 1.4
38	302	19.0	18.1 +- 0.5; 2.7	17.1 +- 0.6; 3.7	15.6 +- 1.3
39	290	18.0	19.3 +- 0.6; 2.9	18.2 +- 0.6; 3.9	16.5 +- 1.2
40	289	18.0	16.9 +- 0.5; 2.5	15.9 +- 0.5; 3.6	14.9 +- 1.4
41	318	6.1	17.4 +- 0.5; 2.6	16.4 +- 0.6; 3.7	16.1 +- 1.2

Transit Dose = 0.5 +- 0.2; 2.8

SEQUOYAH

For the period 970610-971020

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	21.6 +- 0.0	1
33.76 - 56.25 NE	17.8 +- 0.0	1
56.26 - 78.75 ENE	16.3 +- 1.4	2
78.76 - 101.25 E	16.6 +- 1.1	2
101.26 - 123.75 ESE	17.4 +- 0.3	2
123.76 - 146.25 SE	17.1 +- 0.7	2
146.26 - 168.75 SSE	16.3 +- 1.9	2
168.76 - 191.25 S	20.1 +- 2.8	2
191.26 - 213.75 SSW	20.1 +- 2.8	3
213.76 - 236.25 SW	17.3 +- 2.1	4
236.26 - 258.75 WSW	16.5 +- 0.9	2
258.76 - 281.25 W	17.5 +- 1.0	3
281.26 - 303.75 WNW	16.9 +- 1.4	2
303.76 - 326.25 NW	17.0 +- 0.6	3
326.26 - 348.75 NNW	18.3 +- 1.0	3

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	17.8 +- 2.0	16
2 - 5	17.9 +- 2.0	15
> 5	17.5 +- 1.0	5
Upwind Control	17.1 +- 1.1	3

NRC TLD DOSES FOR SEQUOYAH AREA

Miles

0 2 4

Legend

Water

Highways

Railroads

Roads

Plant..site

SOUTH TEXAS

TLD Direct Radiation Environmental Monitoring

For the period 970609-971029 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	90	1.0	20.3	+-	0.6; 3.0	16.0	+-	0.7; 4.1	16.1	+- 1.8
2	63	1.0	20.7	+-	0.6; 3.1	16.5	+-	0.7; 4.2	16.9	+- 1.4
3	40	1.0	22.2	+-	0.7; 3.3	17.8	+-	0.7; 4.3	17.2	+- 1.3
4	19	1.0	22.0	+-	0.7; 3.3	17.6	+-	0.7; 4.3	16.3	+- 1.4
5	4	0.9	21.0	+-	0.6; 3.2	16.7	+-	0.7; 4.2	16.4	+- 1.3
6	339	0.9	21.2	+-	0.6; 3.2	16.9	+-	0.7; 4.2	16.7	+- 1.3
7	318	1.0	21.3	+-	0.6; 3.2	17.0	+-	0.7; 4.2	15.9	+- 1.1
8	294	1.1	23.3	+-	0.7; 3.5	18.9	+-	0.8; 4.5	18.9	+- 1.5
9	267	1.3	23.0	+-	0.7; 3.4	18.6	+-	0.7; 4.4	19.1	+- 1.4
10	126	0.3	18.8	+-	0.6; 2.8	14.6	+-	0.6; 4.0	15.0	+- 1.2
11	180	0.1	19.9	+-	0.6; 3.0	15.7	+-	0.7; 4.1	15.8	+- 1.8
12	257	0.5	18.3	+-	0.5; 2.7	14.1	+-	0.6; 3.9	14.4	+- 1.3
13	262	0.9	18.0	+-	0.5; 2.7	13.8	+-	0.6; 3.9	14.5	+- 1.3
14	250	1.3	18.8	+-	0.6; 2.8	14.6	+-	0.6; 4.0	15.0	+- 1.3
15	227	2.4	17.9	+-	0.5; 2.7	13.7	+-	0.6; 3.9	14.0	+- 1.3
16	210	3.7	18.1	+-	0.5; 2.7	13.9	+-	0.6; 3.9	13.6	+- 1.4
17	175	3.6	18.3	+-	0.5; 2.7	14.1	+-	0.6; 3.9	13.7	+- 1.2
18	158	3.7	17.8	+-	0.5; 2.7	13.6	+-	0.6; 3.9	14.0	+- 1.4
19	143	3.3	18.5	+-	0.6; 2.8	14.3	+-	0.6; 4.0	13.5	+- 1.2
20	122	2.3	19.3	+-	0.6; 2.9	15.0	+-	0.7; 4.0	14.9	+- 1.3
21	121	1.1	20.2	+-	0.6; 3.0	15.9	+-	0.7; 4.1	14.9	+- 1.3
22	257	2.5	21.6	+-	0.6; 3.2	17.3	+-	0.7; 4.3	16.4	+- 1.5
23	262	4.5	23.1	+-	0.7; 3.5	18.7	+-	0.7; 4.4	18.5	+- 1.5
24	282	4.7	21.6	+-	0.6; 3.2	17.3	+-	0.7; 4.3	16.4	+- 1.4
25	304	5.8	19.1	+-	0.6; 2.9	14.8	+-	0.6; 4.0	15.0	+- 1.5
26	242	5.4	21.5	+-	0.6; 3.2	17.2	+-	0.7; 4.3	16.2	+- 1.4
27	223	5.0	21.7	+-	0.7; 3.3	17.4	+-	0.7; 4.3	16.2	+- 1.4
28	236	9.6	19.3	+-	0.6; 2.9	15.0	+-	0.7; 4.0	14.3	+- 1.3
29	259	10.0	20.4	+-	0.6; 3.1	16.1	+-	0.7; 4.1	15.6	+- 1.5
30	291	6.2	20.7	+-	0.6; 3.1	16.4	+-	0.7; 4.2	16.3	+- 1.4
31	323	7.8	Missing Dosimeter			No Net Data			17.5	+- 3.5
32	335	7.4	22.5	+-	0.7; 3.4	18.2	+-	0.7; 4.4	20.5	+- 1.7
33	351	5.5	19.5	+-	0.6; 2.9	15.2	+-	0.7; 4.1	14.7	+- 1.4
34	88	4.4	19.5	+-	0.6; 2.9	15.2	+-	0.7; 4.1	14.7	+- 1.4
35	89	6.7	18.2	+-	0.5; 2.7	14.0	+-	0.6; 3.9	14.2	+- 1.3
36	121	3.9	17.8	+-	0.5; 2.7	13.6	+-	0.6; 3.9	14.6	+- 1.4
37	145	8.8	Missing Dosimeter			No Net Data			14.5	+- 1.6
38	297	12.0	19.1	+-	0.6; 2.9	14.9	+-	0.6; 4.0	14.5	+- 1.5
39	321	9.3	21.8	+-	0.7; 3.3	17.4	+-	0.7; 4.3	17.1	+- 1.2
40	353	12.0	20.6	+-	0.6; 3.1	16.4	+-	0.7; 4.2	14.4	+- 1.3
41	13	18.0	20.8	+-	0.6; 3.1	16.5	+-	0.7; 4.2	15.8	+- 1.4
42	21	5.7	19.1	+-	0.6; 2.9	14.8	+-	0.6; 4.0	16.4	+- 1.9
43	39	5.8	21.1	+-	0.6; 3.2	16.8	+-	0.7; 4.2	16.9	+- 1.4
44	53	5.1	19.6	+-	0.6; 2.9	15.3	+-	0.7; 4.1	17.1	+- 1.9
45	69	7.3	Missing Dosimeter			No Net Data			14.3	+- 1.3
46	66	17.0	23.4	+-	0.7; 3.5	19.0	+-	0.8; 4.5	19.1	+- 1.5

Transit Dose = 3.7 +- 0.3; 3.0

SOUTH TEXAS

For the period 970609-971029

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 +- 1.0	2
11.26 - 33.75 NNE	16.2 +- 2.0	2
33.76 - 56.25 NE	16.6 +- 1.3	3
56.26 - 78.75 ENE	17.7 +- 1.8	2
78.76 - 101.25 E	15.1 +- 1.0	3
101.26 - 123.75 ESE	14.9 +- 1.2	3
123.76 - 146.25 SE	14.4 +- 0.2	2
146.26 - 168.75 SSE	13.6 +- 0.0	1
168.76 - 191.25 S	14.9 +- 1.1	2
191.26 - 213.75 SSW	13.9 +- 0.0	1
213.76 - 236.25 SW	15.4 +- 1.9	3
236.26 - 258.75 WSW	15.8 +- 1.7	4
258.76 - 281.25 W	16.8 +- 2.3	4
281.26 - 303.75 WNW	17.6 +- 1.3	3
303.76 - 326.25 NW	16.4 +- 1.4	3
326.26 - 348.75 NNW	17.5 +- 0.9	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	16.3 +- 1.6	15
2 - 5	15.3 +- 1.8	12
> 5	16.2 +- 1.5	13
Upwind Control	15.9 +- 0.9	3

NRC TLD DOSES FOR SOUTH TEXAS AREA

Miles

Legend

Water
Highways

Railroads
Roads

Plant..site

ST. LUCIE

TLD Direct Radiation Environmental Monitoring

For the period 970610-971022 135 Days

Field Time: 92 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	20	0.3	15.2 +- 0.5; 2.3		12.7 +- 0.5; 3.6		13.6 +- 2.1	
2	45	0.2	15.4 +- 0.5; 2.3		12.9 +- 0.5; 3.6		14.1 +- 2.2	
3	67	0.2	14.6 +- 0.4; 2.2		12.1 +- 0.5; 3.5		15.3 +- 2.9	
4	92	0.3	15.4 +- 0.5; 2.3		12.8 +- 0.5; 3.6		13.2 +- 2.2	
5	115	0.4	14.2 +- 0.4; 2.1		11.7 +- 0.5; 3.5		12.7 +- 2.2	
6	143	1.1	12.8 +- 0.4; 1.9		10.3 +- 0.5; 3.4		11.7 +- 2.1	
7	150	2.0	13.9 +- 0.4; 2.1		11.5 +- 0.5; 3.5		11.6 +- 2.0	
8	154	4.7	12.7 +- 0.4; 1.9		10.3 +- 0.5; 3.4		12.2 +- 2.3	
9	152	23.0	15.8 +- 0.5; 2.4		13.3 +- 0.5; 3.6		12.7 +- 2.2	
10	152	23.0	14.3 +- 0.4; 2.1		11.8 +- 0.5; 3.5		13.0 +- 1.9	
11	152	23.0	15.0 +- 0.4; 2.2		12.5 +- 0.5; 3.5		13.9 +- 2.3	
12	168	14.0	14.6 +- 0.4; 2.2		12.1 +- 0.5; 3.5		12.7 +- 2.1	
13	185	10.0	15.0 +- 0.4; 2.2		12.4 +- 0.5; 3.5		12.7 +- 2.3	
14	183	11.0	15.1 +- 0.5; 2.3		12.6 +- 0.5; 3.6		14.3 +- 2.4	
15	170	8.0	13.1 +- 0.4; 2.0		10.6 +- 0.5; 3.4		12.3 +- 2.2	
16	196	7.0	14.4 +- 0.4; 2.2		11.9 +- 0.5; 3.5		12.7 +- 2.2	
17	229	7.9	18.9 +- 0.6; 2.8		16.3 +- 0.6; 3.9		15.5 +- 2.8	
18	250	6.6	Missing Dosimeter		No Net Data		11.7 +- 2.2	
19	247	4.8	14.1 +- 0.4; 2.1		11.6 +- 0.5; 3.5		12.2 +- 2.3	
20	229	5.0	15.0 +- 0.4; 2.2		12.5 +- 0.5; 3.6		12.8 +- 2.1	
21	208	3.8	14.5 +- 0.4; 2.2		12.0 +- 0.5; 3.5		12.2 +- 2.3	
22	187	3.8	13.6 +- 0.4; 2.0		11.1 +- 0.5; 3.4		12.4 +- 2.3	
23	203	2.6	14.8 +- 0.4; 2.2		12.3 +- 0.5; 3.5		12.8 +- 2.3	
24	245	1.9	Missing Dosimeter		No Net Data		12.4 +- 2.4	
25	280	2.2	14.8 +- 0.4; 2.2		12.3 +- 0.5; 3.5		12.9 +- 2.3	
26	299	3.1	14.7 +- 0.4; 2.2		12.2 +- 0.5; 3.5		13.1 +- 2.2	
27	305	3.8	14.1 +- 0.4; 2.1		11.6 +- 0.5; 3.5		12.6 +- 2.2	
28	276	4.0	14.0 +- 0.4; 2.1		11.5 +- 0.5; 3.5		12.1 +- 2.1	
29	293	5.8	14.6 +- 0.4; 2.2		12.1 +- 0.5; 3.5		12.6 +- 2.2	
30	316	7.7	14.9 +- 0.4; 2.2		12.3 +- 0.5; 3.5		12.5 +- 2.3	
32	300	11.0	14.1 +- 0.4; 2.1		11.6 +- 0.5; 3.5		13.2 +- 2.3	
33	322	8.7	15.0 +- 0.4; 2.2		12.5 +- 0.5; 3.6		13.9 +- 2.2	
34	339	8.8	14.9 +- 0.4; 2.2		12.4 +- 0.5; 3.5		13.0 +- 2.1	
35	342	2.9	13.8 +- 0.4; 2.1		11.3 +- 0.5; 3.4		12.1 +- 2.0	
36	346	1.9	14.5 +- 0.4; 2.2		12.0 +- 0.5; 3.5		13.5 +- 2.2	
37	353	1.0	14.3 +- 0.4; 2.1		11.8 +- 0.5; 3.5		12.5 +- 2.5	
38	226	2.0	14.8 +- 0.4; 2.2		12.3 +- 0.5; 3.5		12.7 +- 2.3	

Transit Dose = 2.2 +- 0.3; 2.8

ST. LUCIE

For the period 970610-971022

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	12.7 +- 0.0	1
33.76 - 56.25 NE	12.9 +- 0.0	1
56.26 - 78.75 ENE	12.1 +- 0.0	1
78.76 - 101.25 E	12.8 +- 0.0	1
101.26 - 123.75 ESE	11.7 +- 0.0	1
123.76 - 146.25 SE	10.3 +- 0.0	1
146.26 - 168.75 SSE	11.3 +- 0.9	3
168.76 - 191.25 S	11.7 +- 1.0	4
191.26 - 213.75 SSW	12.1 +- 0.2	3
213.76 - 236.25 SW	13.7 +- 2.3	3
236.26 - 258.75 WSW	11.6 +- 0.0	1
258.76 - 281.25 W	11.9 +- 0.6	2
281.26 - 303.75 WNW	11.9 +- 0.3	3
303.76 - 326.25 NW	12.1 +- 0.5	3
326.26 - 348.75 NNW	11.9 +- 0.6	3

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	12.0 +- 0.8	10
2 - 5	11.7 +- 0.7	11
> 5	12.4 +- 1.4	11
Upwind Control	12.5 +- 0.7	3

NRC TLD DOSES FOR ST. LUCIE AREA

Miles

Legend

Water

Highways

Railroads

Roads

Plant..site

SUMMER

TLD Direct Radiation Environmental Monitoring

For the period 970611-971021 133 Days

Field Time: 92 Days

NRC Sta	Location		Gross Exposure (mR)			Net Exposure Rate (mR/Std. Qtr.)			Hist. Range Net Exp Rate	
	Azimuth/Dist (Deg)/(Mi)		+-Rdm; Tot.			+-Rdm; Tot.			+-1 Std Dev	
1	199	3.7	26.3	+-	0.8; 3.9	20.3	+-	0.9; 4.9	20.5	+- 2.1
2	111	1.0	26.4	+-	0.8; 4.0	20.4	+-	0.9; 4.9	19.2	+- 2.1
3	340	4.1	28.7	+-	0.9; 4.3	22.7	+-	0.9; 5.2	21.8	+- 2.4
4	192	9.3	27.0	+-	0.8; 4.0	21.0	+-	0.9; 5.0	20.8	+- 1.2
5	72	1.8	29.3	+-	0.9; 4.4	23.3	+-	0.9; 5.3	21.8	+- 2.2
6	54	1.5	27.0	+-	0.8; 4.1	21.0	+-	0.9; 5.0	21.7	+- 1.3
7	46	3.0	35.2	+-	1.1; 5.3	29.0	+-	1.1; 6.0	26.4	+- 2.5
8	31	3.0	36.2	+-	1.1; 5.4	30.0	+-	1.1; 6.1	27.7	+- 2.3
9	13	3.9	30.9	+-	0.9; 4.6	24.8	+-	1.0; 5.5	26.5	+- 1.7
10	7	4.0	32.0	+-	1.0; 4.8	25.9	+-	1.0; 5.6	25.7	+- 1.3
11	349	4.3	29.4	+-	0.9; 4.4	23.4	+-	0.9; 5.3	22.6	+- 2.8
12	323	5.0	26.6	+-	0.8; 4.0	20.7	+-	0.9; 5.0	23.5	+- 2.5
13	333	3.0	30.0	+-	0.9; 4.5	24.0	+-	1.0; 5.4	24.5	+- 1.5
14	255	2.8	25.9	+-	0.8; 3.9	20.0	+-	0.9; 4.9	19.2	+- 2.5
15	308	5.6	31.5	+-	0.9; 4.7	25.4	+-	1.0; 5.5	25.2	+- 1.7
16	64	3.5	36.0	+-	1.1; 5.4	29.8	+-	1.1; 6.1	27.0	+- 2.7
17	98	3.1	28.1	+-	0.8; 4.2	22.1	+-	0.9; 5.1	22.7	+- 1.5
18	114	3.5	26.6	+-	0.8; 4.0	20.6	+-	0.9; 5.0	22.4	+- 1.7
19	132	2.0	27.1	+-	0.8; 4.1	21.1	+-	0.9; 5.0	20.5	+- 1.3
20	152	4.5	21.7	+-	0.7; 3.3	15.9	+-	0.7; 4.4	13.8	+- 2.3
21	133	4.1	22.1	+-	0.7; 3.3	16.3	+-	0.8; 4.5	15.6	+- 1.0
22	157	2.4	23.9	+-	0.7; 3.6	18.0	+-	0.8; 4.7	17.8	+- 1.4
23	173	2.4	24.4	+-	0.7; 3.7	18.5	+-	0.8; 4.7	19.6	+- 1.6
24	185	3.9	23.7	+-	0.7; 3.6	17.8	+-	0.8; 4.6	18.9	+- 1.5
25	210	3.3	23.9	+-	0.7; 3.6	18.0	+-	0.8; 4.7	18.8	+- 1.0
26	217	3.3	24.2	+-	0.7; 3.6	18.3	+-	0.8; 4.7	17.6	+- 2.8
27	231	3.1	21.1	+-	0.6; 3.2	15.2	+-	0.7; 4.4	14.6	+- 1.5
28	267	2.7	27.7	+-	0.8; 4.2	21.7	+-	0.9; 5.1	21.8	+- 1.4
29	276	3.4	30.2	+-	0.9; 4.5	24.1	+-	1.0; 5.4	23.4	+- 1.2
30	293	3.8	31.5	+-	0.9; 4.7	25.4	+-	1.0; 5.5	24.7	+- 3.8
31	244	3.6	24.8	+-	0.7; 3.7	18.9	+-	0.8; 4.8	19.9	+- 3.3
32	247	6.2	32.1	+-	1.0; 4.8	26.0	+-	1.0; 5.6	23.3	+- 1.8
33	218	9.0	26.6	+-	0.8; 4.0	20.6	+-	0.9; 5.0	20.0	+- 1.2
34	192	9.3	25.0	+-	0.8; 3.8	19.1	+-	0.8; 4.8	20.4	+- 1.2
35	184	14.1	21.0	+-	0.6; 3.2	15.1	+-	0.7; 4.3	16.0	+- 1.0
36	183	14.6	19.5	+-	0.6; 2.9	13.7	+-	0.7; 4.2	14.1	+- 2.3
37	182	14.8	19.2	+-	0.6; 2.9	13.3	+-	0.7; 4.2	13.1	+- 2.4
38	148	20.8	28.3	+-	0.9; 4.3	22.3	+-	0.9; 5.2	20.6	+- 1.7
39	140	25.0	30.7	+-	0.9; 4.6	24.6	+-	1.0; 5.4	22.7	+- 2.2
40	135	23.1	27.6	+-	0.8; 4.1	21.6	+-	0.9; 5.1	19.2	+- 2.9

Transit Dose = 5.5 +- 0.4; 3.1

SUMMER

For the period 970611-971021

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	24.6 +- 1.8	2
11.26 - 33.75 NNE	27.4 +- 3.7	2
33.76 - 56.25 NE	25.0 +- 5.6	2
56.26 - 78.75 ENE	26.6 +- 4.6	2
78.76 - 101.25 E	22.1 +- 0.0	1
101.26 - 123.75 ESE	20.5 +- 0.1	2
123.76 - 146.25 SE	20.9 +- 3.5	4
146.26 - 168.75 SSE	18.7 +- 3.3	3
168.76 - 191.25 S	18.1 +- 0.5	2
191.26 - 213.75 SSW	19.6 +- 1.3	4
213.76 - 236.25 SW	18.0 +- 2.7	3
236.26 - 258.75 WSW	21.6 +- 3.9	3
258.76 - 281.25 W	22.9 +- 1.7	2
281.26 - 303.75 WNW	25.4 +- 0.0	1
303.76 - 326.25 NW	23.0 +- 3.3	2
326.26 - 348.75 NNW	23.3 +- 0.9	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	21.5 +- 1.3	4
2 - 5	21.6 +- 4.2	25
> 5	22.6 +- 2.5	8
Upwind Control	14.1 +- 1.0	3

NRC TLD DOSES FOR SUMMER AREA

Miles

Legend

Water
Highways

Railroads
Roads

Plant..site

SURREY

TLD Direct Radiation Environmental Monitoring

For the period 970610-971021 134 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	18	19.0	18.1	+- 0.5; 2.7	15.4	+- 0.6; 4.0	15.5	+- 0.9
2	129	17.0	19.5	+- 0.6; 2.9	16.9	+- 0.7; 4.2	16.6	+- 1.2
3	162	17.0	22.3	+- 0.7; 3.3	19.7	+- 0.8; 4.5	16.0	+- 1.4
4	162	17.0	16.9	+- 0.5; 2.5	14.2	+- 0.6; 3.9	13.6	+- 1.1
5	156	5.1	21.4	+- 0.6; 3.2	18.8	+- 0.7; 4.4	17.8	+- 1.1
6	189	4.1	17.5	+- 0.5; 2.6	14.8	+- 0.6; 4.0	14.7	+- 1.0
7	202	2.2	17.5	+- 0.5; 2.6	14.8	+- 0.6; 4.0	15.1	+- 1.2
8	183	1.6	22.3	+- 0.7; 3.3	19.7	+- 0.8; 4.5	17.5	+- 1.0
9	243	0.2	24.4	+- 0.7; 3.7	21.9	+- 0.8; 4.8	20.3	+- 0.9
10	269	0.1	24.7	+- 0.7; 3.7	22.3	+- 0.8; 4.8	22.2	+- 1.5
11	304	0.1	23.7	+- 0.7; 3.6	21.2	+- 0.8; 4.7	22.0	+- 2.7
12	334	0.2	25.2	+- 0.8; 3.8	22.7	+- 0.8; 4.9	22.7	+- 1.6
13	10	1.2	19.0	+- 0.6; 2.9	16.4	+- 0.7; 4.1	16.2	+- 1.1
14	21	2.0	20.5	+- 0.6; 3.1	17.9	+- 0.7; 4.3	16.7	+- 1.1
15	203	4.5	19.7	+- 0.6; 2.9	17.0	+- 0.7; 4.2	15.4	+- 1.0
16	224	3.7	17.4	+- 0.5; 2.6	14.7	+- 0.6; 4.0	14.3	+- 0.8
17	212	2.0	20.0	+- 0.6; 3.0	17.3	+- 0.7; 4.2	17.2	+- 0.9
18	248	5.1	18.7	+- 0.6; 2.8	16.0	+- 0.7; 4.1	14.8	+- 1.1
19	259	8.1	19.0	+- 0.6; 2.8	16.3	+- 0.7; 4.1	15.5	+- 1.9
20	285	5.0	13.8	+- 0.4; 2.1	11.0	+- 0.5; 3.6	10.7	+- 1.4
21	270	4.1	21.1	+- 0.6; 3.2	18.5	+- 0.7; 4.4	18.5	+- 1.2
22	123	12.0	23.0	+- 0.7; 3.5	20.5	+- 0.8; 4.6	20.4	+- 2.4
23	102	11.0	22.8	+- 0.7; 3.4	20.3	+- 0.8; 4.6	22.2	+- 1.9
24	106	4.9	20.9	+- 0.6; 3.1	18.3	+- 0.7; 4.3	17.6	+- 0.9
25	90	5.2	20.4	+- 0.6; 3.1	17.8	+- 0.7; 4.3	16.9	+- 1.0
26	69	5.1	25.0	+- 0.8; 3.8	22.6	+- 0.8; 4.8	21.2	+- 1.2
27	23	5.3	20.8	+- 0.6; 3.1	18.2	+- 0.7; 4.3	18.4	+- 1.1
28	49	5.0	21.0	+- 0.6; 3.2	18.4	+- 0.7; 4.4	18.4	+- 1.1
29	7	6.8	Missing Dosimeter		No Net Data		17.4	+- 1.4
30	359	6.5	19.0	+- 0.6; 2.8	16.3	+- 0.7; 4.1	15.7	+- 1.0
31	1	4.6	16.8	+- 0.5; 2.5	14.1	+- 0.6; 3.9	13.4	+- 2.0
32	332	3.8	19.9	+- 0.6; 3.0	17.2	+- 0.7; 4.2	16.4	+- 1.2
33	314	5.4	19.9	+- 0.6; 3.0	17.3	+- 0.7; 4.2	17.4	+- 1.1
34	308	6.4	20.3	+- 0.6; 3.0	17.7	+- 0.7; 4.3	16.1	+- 1.6
35	348	5.3	18.8	+- 0.6; 2.8	16.1	+- 0.7; 4.1	15.4	+- 0.9
36	343	15.0	17.5	+- 0.5; 2.6	14.8	+- 0.6; 4.0	16.6	+- 1.1
37	340	15.0	17.1	+- 0.5; 2.6	14.3	+- 0.6; 3.9	14.2	+- 1.0
38	339	16.0	20.6	+- 0.6; 3.1	18.0	+- 0.7; 4.3	16.7	+- 2.1
39	153	1.9	21.8	+- 0.7; 3.3	19.2	+- 0.7; 4.4	18.7	+- 1.1
40	144	2.1	26.5	+- 0.8; 4.0	24.1	+- 0.9; 5.0	17.2	+- 3.0

Transit Dose = 3.2 +- 0.3; 2.8

SURRY

For the period 970610-971021

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	15.6 +- 1.3	3
11.26 - 33.75 NNE	17.1 +- 1.5	3
33.76 - 56.25 NE	18.4 +- 0.0	1
56.26 - 78.75 ENE	22.6 +- 0.0	1
78.76 - 101.25 E	17.8 +- 0.0	1
101.26 - 123.75 ESE	19.7 +- 1.2	3
123.76 - 146.25 SE	20.5 +- 5.1	2
146.26 - 168.75 SSE	18.0 +- 2.6	4
168.76 - 191.25 S	17.2 +- 3.5	2
191.26 - 213.75 SSW	16.4 +- 1.4	3
213.76 - 236.25 SW	14.7 +- 0.0	1
236.26 - 258.75 WSW	19.0 +- 4.2	2
258.76 - 281.25 W	19.0 +- 3.0	3
281.26 - 303.75 WNW	11.0 +- 0.0	1
303.76 - 326.25 NW	18.7 +- 2.2	3
326.26 - 348.75 NNW	18.7 +- 3.5	3

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	19.8 +- 2.3	9
2 - 5	16.6 +- 3.4	11
> 5	17.7 +- 2.2	16
Upwind Control	15.7 +- 2.0	3

NRC TLD DOSES FOR SURRY AREA

Miles

Legend

Water

--- Railroads

Plant..site

— Highways

--- Roads

SUSQUEHANNA

TLD Direct Radiation Environmental Monitoring

For the period 970611-971002 114 Days

Field Time: 91 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	19	1.4	21.4 +- 0.6; 3.2		20.7 +- 0.7; 4.1		18.8 +- 1.1	
2	358	1.4	20.4 +- 0.6; 3.1		19.8 +- 0.7; 4.0		19.2 +- 1.0	
3	332	1.6	19.6 +- 0.6; 2.9		19.0 +- 0.6; 3.9		17.8 +- 1.1	
4	315	1.8	19.6 +- 0.6; 2.9		19.0 +- 0.6; 3.9		17.5 +- 1.1	
5	287	1.7	21.0 +- 0.6; 3.1		20.3 +- 0.7; 4.1		19.1 +- 1.4	
6	270	1.3	19.7 +- 0.6; 3.0		19.1 +- 0.6; 4.0		18.6 +- 1.1	
7	239	1.8	19.6 +- 0.6; 2.9		19.0 +- 0.6; 3.9		17.9 +- 1.3	
8	217	2.0	23.3 +- 0.7; 3.5		22.6 +- 0.7; 4.4		21.2 +- 1.4	
9	201	1.5	20.8 +- 0.6; 3.1		20.1 +- 0.7; 4.1		19.0 +- 1.4	
10	185	1.3	19.1 +- 0.6; 2.9		18.5 +- 0.6; 3.9		17.3 +- 1.3	
11	243	5.1	20.6 +- 0.6; 3.1		20.0 +- 0.7; 4.1		19.1 +- 1.0	
12	252	4.6	19.5 +- 0.6; 2.9		18.9 +- 0.6; 3.9		18.2 +- 1.0	
13	274	3.4	23.0 +- 0.7; 3.4		22.3 +- 0.7; 4.3		21.3 +- 1.3	
14	286	3.6	22.3 +- 0.7; 3.3		21.6 +- 0.7; 4.2		19.7 +- 1.1	
15	1	3.9	23.6 +- 0.7; 3.5		22.9 +- 0.7; 4.4		20.5 +- 1.5	
16	334	4.1	20.4 +- 0.6; 3.1		19.8 +- 0.7; 4.0		19.5 +- 1.2	
17	312	4.4	21.6 +- 0.6; 3.2		20.9 +- 0.7; 4.2		18.9 +- 1.3	
18	33	5.0	22.0 +- 0.7; 3.3		21.3 +- 0.7; 4.2		19.5 +- 1.2	
19	45	9.9	22.4 +- 0.7; 3.4		21.8 +- 0.7; 4.3		19.8 +- 1.1	
20	65	4.7	22.6 +- 0.7; 3.4		22.0 +- 0.7; 4.3		20.9 +- 1.2	
21	43	3.3	21.2 +- 0.6; 3.2		20.6 +- 0.7; 4.1		21.0 +- 1.5	
22	33	0.9	22.4 +- 0.7; 3.4		21.7 +- 0.7; 4.3		18.8 +- 1.9	
23	57	1.2	19.9 +- 0.6; 3.0		19.3 +- 0.6; 4.0		17.7 +- 1.2	
24	87	1.4	20.6 +- 0.6; 3.1		20.0 +- 0.7; 4.1		19.3 +- 1.1	
25	111	1.4	19.5 +- 0.6; 2.9		18.9 +- 0.6; 3.9		18.9 +- 1.2	
26	137	1.5	19.6 +- 0.6; 2.9		18.9 +- 0.6; 3.9		18.9 +- 1.1	
27	152	1.5	21.9 +- 0.7; 3.3		21.3 +- 0.7; 4.2		19.8 +- 1.0	
28	107	3.6	22.8 +- 0.7; 3.4		22.1 +- 0.7; 4.3		20.7 +- 1.3	
29	99	4.3	22.5 +- 0.7; 3.4		21.9 +- 0.7; 4.3		20.3 +- 1.0	
30	138	3.6	21.8 +- 0.7; 3.3		21.1 +- 0.7; 4.2		20.4 +- 1.1	
31	162	3.4	24.3 +- 0.7; 3.6		23.6 +- 0.8; 4.5		22.0 +- 1.3	
32	176	3.5	23.4 +- 0.7; 3.5		22.8 +- 0.7; 4.4		20.7 +- 1.4	
33	192	3.2	22.8 +- 0.7; 3.4		22.1 +- 0.7; 4.3		21.1 +- 1.2	
34	231	4.4	19.6 +- 0.6; 2.9		19.0 +- 0.6; 3.9		19.7 +- 1.1	
35	134	12.3	21.8 +- 0.7; 3.3		21.1 +- 0.7; 4.2		19.8 +- 1.6	
36	114	13.5	23.7 +- 0.7; 3.6		23.0 +- 0.7; 4.4		22.0 +- 1.4	
37	150	15.6	20.9 +- 0.6; 3.1		20.2 +- 0.7; 4.1		19.0 +- 1.4	

Transit Dose = 0.4 +- 0.2; 2.7

SUSQUEHANNA

For the period 970611-971002

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 +- 2.2	2
11.26 - 33.75 NNE	21.3 +- 0.5	3
33.76 - 56.25 NE	21.2 +- 0.9	2
56.26 - 78.75 ENE	20.6 +- 1.9	2
78.76 - 101.25 E	20.9 +- 1.3	2
101.26 - 123.75 ESE	20.5 +- 2.3	2
123.76 - 146.25 SE	20.0 +- 1.6	2
146.26 - 168.75 SSE	22.4 +- 1.6	2
168.76 - 191.25 S	20.6 +- 3.0	2
191.26 - 213.75 SSW	21.1 +- 1.4	2
213.76 - 236.25 SW	20.8 +- 2.6	2
236.26 - 258.75 WSW	19.3 +- 0.6	3
258.76 - 281.25 W	20.7 +- 2.3	2
281.26 - 303.75 WNW	21.0 +- 0.9	2
303.76 - 326.25 NW	20.0 +- 1.4	2
326.26 - 348.75 NNW	19.4 +- 0.6	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	19.9 +- 1.2	16
2 - 5	21.4 +- 1.3	16
> 5	20.9 +- 1.3	2
Upwind Control	21.5 +- 1.4	3

NRC TLD DOSES FOR SUSQUEHANNA AREA

Miles

Legend

Water
Highways

Railroads
Roads

Plant..site

THREE MILE ISLAND

TLD Direct Radiation Environmental Monitoring

For the period 970611-971002 114 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	95	5.9	17.9	+- 0.5; 2.7	17.5	+- 0.6; 3.8	16.1	+- 1.4
2	102	3.9	20.0	+- 0.6; 3.0	19.5	+- 0.6; 4.0	18.3	+- 1.9
3	110	2.7	14.4	+- 0.4; 2.2	14.0	+- 0.5; 3.4	13.5	+- 2.4
4	162	1.8	17.4	+- 0.5; 2.6	17.0	+- 0.6; 3.7	15.6	+- 1.6
5	161	2.3	17.2	+- 0.5; 2.6	16.8	+- 0.6; 3.7	15.3	+- 1.7
6	152	1.1	16.9	+- 0.5; 2.5	16.5	+- 0.6; 3.7	16.1	+- 1.6
7	123	0.5	16.1	+- 0.5; 2.4	15.6	+- 0.5; 3.6	14.1	+- 1.6
8	87	0.4	16.6	+- 0.5; 2.5	16.2	+- 0.5; 3.6	16.2	+- 1.8
9	61	0.5	16.7	+- 0.5; 2.5	16.2	+- 0.5; 3.6	14.9	+- 1.5
10	1	1.7	17.3	+- 0.5; 2.6	16.9	+- 0.6; 3.7	15.2	+- 1.8
11	27	0.8	16.8	+- 0.5; 2.5	16.3	+- 0.5; 3.6	15.1	+- 1.6
12	48	1.0	17.1	+- 0.5; 2.6	16.7	+- 0.6; 3.7	15.6	+- 1.6
13	19	2.0	17.8	+- 0.5; 2.7	17.4	+- 0.6; 3.7	15.8	+- 1.8
14	358	2.4	16.9	+- 0.5; 2.5	16.4	+- 0.6; 3.6	14.4	+- 1.8
15	132	9.0	20.9	+- 0.6; 3.1	20.4	+- 0.7; 4.1	18.2	+- 1.8
16	0	3.0	Missing Dosimeter		No Net Data		14.3	+- 1.7
18	347	3.5	20.0	+- 0.6; 3.0	19.5	+- 0.6; 4.0	18.4	+- 1.8
19	343	3.1	18.8	+- 0.6; 2.8	18.3	+- 0.6; 3.8	16.7	+- 1.7
20	318	5.0	18.0	+- 0.5; 2.7	17.5	+- 0.6; 3.8	15.6	+- 1.8
21	348	2.7	14.3	+- 0.4; 2.1	13.9	+- 0.5; 3.4	12.5	+- 1.7
22	17	3.1	18.8	+- 0.6; 2.8	18.3	+- 0.6; 3.8	15.9	+- 1.7
23	64	3.7	15.5	+- 0.5; 2.3	15.0	+- 0.5; 3.5	12.9	+- 1.6
24	44	3.6	19.2	+- 0.6; 2.9	18.7	+- 0.6; 3.9	16.8	+- 1.8
25	327	0.4	14.6	+- 0.4; 2.2	14.2	+- 0.5; 3.4	12.8	+- 3.0
27	7	7.1	22.7	+- 0.7; 3.4	22.2	+- 0.7; 4.3	20.3	+- 1.8
29	293	0.4	18.0	+- 0.5; 2.7	17.5	+- 0.6; 3.8	15.8	+- 3.3
30	314	1.1	20.3	+- 0.6; 3.1	19.9	+- 0.6; 4.0	17.1	+- 3.2
31	303	8.6	15.5	+- 0.5; 2.3	15.1	+- 0.5; 3.5	13.6	+- 1.6
32	297	7.6	18.9	+- 0.6; 2.8	18.5	+- 0.6; 3.9	17.0	+- 1.7
33	302	5.8	15.5	+- 0.5; 2.3	15.1	+- 0.5; 3.5	13.3	+- 1.7
34	296	2.3	18.4	+- 0.6; 2.8	18.0	+- 0.6; 3.8	16.5	+- 1.6
35	308	1.8	17.3	+- 0.5; 2.6	16.8	+- 0.6; 3.7	16.5	+- 1.4
36	265	1.2	17.8	+- 0.5; 2.7	17.3	+- 0.6; 3.7	13.4	+- 1.9
37	256	1.4	16.4	+- 0.5; 2.5	16.0	+- 0.5; 3.6	13.8	+- 1.6
38	225	1.9	17.5	+- 0.5; 2.6	17.1	+- 0.6; 3.7	16.2	+- 1.5
39	204	2.0	15.3	+- 0.5; 2.3	14.9	+- 0.5; 3.5	13.1	+- 1.4
40	202	2.5	17.0	+- 0.5; 2.6	16.6	+- 0.6; 3.7	14.7	+- 1.5
41	184	12.6	20.6	+- 0.6; 3.1	20.1	+- 0.7; 4.0	16.7	+- 1.7
42	259	7.4	18.7	+- 0.6; 2.8	18.2	+- 0.6; 3.8	15.9	+- 1.7
43	268	6.2	17.6	+- 0.5; 2.6	17.2	+- 0.6; 3.7	16.3	+- 2.0
44	249	4.3	17.8	+- 0.5; 2.7	17.3	+- 0.6; 3.7	15.1	+- 1.6
45	221	0.5	17.7	+- 0.5; 2.7	17.2	+- 0.6; 3.7	13.1	+- 2.3
46	171	3.0	18.5	+- 0.6; 2.8	18.0	+- 0.6; 3.8	15.6	+- 1.8
47	177	5.7	17.6	+- 0.5; 2.6	17.1	+- 0.6; 3.7	15.1	+- 1.7
48	181	9.1	22.7	+- 0.7; 3.4	22.2	+- 0.7; 4.3	21.3	+- 2.0
49	199	1.0	17.2	+- 0.5; 2.6	16.7	+- 0.6; 3.7	14.8	+- 2.6
50	145	4.9	19.2	+- 0.6; 2.9	18.7	+- 0.6; 3.9	16.9	+- 2.3

Transit Dose = 0.3 +- 0.2; 2.7

THREE MILE ISLAND
For the period 970611-971002

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	18.5 +- 3.2	3
11.26 - 33.75 NNE	17.3 +- 1.0	3
33.76 - 56.25 NE	17.7 +- 1.4	2
56.26 - 78.75 ENE	15.6 +- 0.8	2
78.76 - 101.25 E	16.8 +- 0.9	2
101.26 - 123.75 ESE	16.4 +- 2.8	3
123.76 - 146.25 SE	19.6 +- 1.2	2
146.26 - 168.75 SSE	16.7 +- 0.2	3
168.76 - 191.25 S	19.4 +- 2.3	4
191.26 - 213.75 SSW	16.1 +- 1.0	3
213.76 - 236.25 SW	17.1 +- 0.1	2
236.26 - 258.75 WSW	17.3 +- 0.0	1
258.76 - 281.25 W	17.7 +- 0.7	2
281.26 - 303.75 WNW	16.8 +- 1.6	5
303.76 - 326.25 NW	18.7 +- 1.7	2
326.26 - 348.75 NNW	16.5 +- 2.9	4

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	16.6 +- 1.2	16
2 - 5	17.3 +- 1.8	16
> 5	18.5 +- 2.5	11
Upwind Control	16.7 +- 0.7	3

NRC TLD DOSES FOR THREE MILE ISLAND AREA

Miles

Legend

Water

--- Railroads

Plant site

— Highways

--- Roads

TROJAN

TLD Direct Radiation Environmental Monitoring

For the period 970609-971023 137 Days

Field Time: 92 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	340	0.6	19.7 +- 0.6; 3.0		14.2 +- 0.7; 4.2		12.6 +- 1.1	
2	334	1.5	17.8 +- 0.5; 2.7		12.3 +- 0.6; 4.0		14.5 +- 1.0	
3	340	1.7	19.7 +- 0.6; 3.0		14.2 +- 0.7; 4.2		11.9 +- 1.0	
4	328	3.9	17.1 +- 0.5; 2.6		11.6 +- 0.6; 3.9		12.4 +- 1.2	
5	308	4.6	19.5 +- 0.6; 2.9		14.0 +- 0.7; 4.2		14.4 +- 1.1	
6	312	4.5	20.6 +- 0.6; 3.1		15.0 +- 0.7; 4.3		15.0 +- 1.1	
7	267	4.6	19.8 +- 0.6; 3.0		14.2 +- 0.7; 4.2		14.8 +- 0.8	
8	274	3.8	21.0 +- 0.6; 3.2		15.4 +- 0.7; 4.3		15.3 +- 0.9	
9	279	1.7	20.8 +- 0.6; 3.1		15.2 +- 0.7; 4.3		14.9 +- 0.9	
10	263	2.0	20.8 +- 0.6; 3.1		15.3 +- 0.7; 4.3		15.4 +- 0.8	
11	245	1.6	21.8 +- 0.7; 3.3		16.3 +- 0.7; 4.4		15.9 +- 0.9	
12	223	1.2	23.2 +- 0.7; 3.5		17.6 +- 0.8; 4.6		16.4 +- 1.2	
13	196	1.1	21.9 +- 0.7; 3.3		16.3 +- 0.7; 4.4		15.4 +- 0.8	
14	180	1.2	18.9 +- 0.6; 2.8		13.4 +- 0.7; 4.1		14.1 +- 1.1	
15	165	1.7	20.2 +- 0.6; 3.0		14.7 +- 0.7; 4.2		13.0 +- 1.0	
16	212	3.9	Missing Dosimeter		No Net Data		16.2 +- 1.8	
17	230	3.5	22.4 +- 0.7; 3.4		16.8 +- 0.8; 4.5		15.6 +- 1.1	
18	162	9.3	21.7 +- 0.7; 3.3		16.1 +- 0.7; 4.4		15.7 +- 0.9	
19	172	5.0	22.5 +- 0.7; 3.4		16.9 +- 0.8; 4.5		15.6 +- 1.0	
20	334	5.8	18.5 +- 0.6; 2.8		13.0 +- 0.7; 4.1		12.9 +- 0.9	
21	345	5.5	17.7 +- 0.5; 2.7		12.2 +- 0.6; 4.0		13.3 +- 0.7	
22	356	5.5	17.6 +- 0.5; 2.6		12.1 +- 0.6; 4.0		12.2 +- 0.7	
23	8	3.9	17.1 +- 0.5; 2.6		11.6 +- 0.6; 3.9		11.8 +- 0.7	
24	15	3.7	18.5 +- 0.6; 2.8		13.0 +- 0.7; 4.1		13.3 +- 0.8	
25	27	1.9	16.4 +- 0.5; 2.5		10.9 +- 0.6; 3.9		12.1 +- 0.9	
26	37	2.1	21.4 +- 0.6; 3.2		15.8 +- 0.7; 4.4		14.7 +- 0.9	
27	60	2.9	21.4 +- 0.6; 3.2		15.9 +- 0.7; 4.4		14.9 +- 0.8	
28	55	4.5	18.7 +- 0.6; 2.8		13.2 +- 0.7; 4.1		13.7 +- 0.8	
29	69	1.6	17.2 +- 0.5; 2.6		11.8 +- 0.6; 4.0		12.3 +- 1.2	
30	83	3.9	17.6 +- 0.5; 2.6		12.1 +- 0.6; 4.0		12.7 +- 0.7	
31	93	2.7	21.3 +- 0.6; 3.2		15.7 +- 0.7; 4.4		15.4 +- 0.9	
32	119	2.2	20.9 +- 0.6; 3.1		15.3 +- 0.7; 4.3		15.4 +- 0.9	
33	106	5.3	21.5 +- 0.6; 3.2		15.9 +- 0.7; 4.4		15.0 +- 2.7	
34	134	2.5	18.4 +- 0.6; 2.8		12.9 +- 0.7; 4.1		12.5 +- 0.9	
35	145	4.7	18.8 +- 0.6; 2.8		13.3 +- 0.7; 4.1		13.0 +- 0.8	
36	270	17.0	20.9 +- 0.6; 3.1		15.3 +- 0.7; 4.3		15.0 +- 1.6	
37	270	17.0	22.4 +- 0.7; 3.4		16.8 +- 0.8; 4.5		16.2 +- 1.9	
38	270	17.0	21.5 +- 0.6; 3.2		16.0 +- 0.7; 4.4		16.1 +- 1.0	

Transit Dose = 5.2 +- 0.4; 3.1

TROJAN

For the period 970609-971023

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	11.9 +- 0.3	2
11.26 - 33.75 NNE	11.9 +- 1.4	2
33.76 - 56.25 NE	14.5 +- 1.8	2
56.26 - 78.75 ENE	13.8 +- 2.9	2
78.76 - 101.25 E	13.9 +- 2.6	2
101.26 - 123.75 ESE	15.6 +- 0.4	2
123.76 - 146.25 SE	13.1 +- 0.3	2
146.26 - 168.75 SSE	15.4 +- 1.0	2
168.76 - 191.25 S	15.1 +- 2.5	2
191.26 - 213.75 SSW	16.3 +- 0.0	1
213.76 - 236.25 SW	17.2 +- 0.5	2
236.26 - 258.75 WSW	16.3 +- 0.0	1
258.76 - 281.25 W	15.0 +- 0.5	4
281.26 - 303.75 WNW	No Data +- No Data	0
303.76 - 326.25 NW	14.5 +- 0.7	2
326.26 - 348.75 NNW	12.9 +- 1.1	6

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	14.3 +- 2.0	12
2 - 5	14.3 +- 1.7	17
> 5	13.9 +- 2.0	5
Upwind Control	16.0 +- 0.7	3

NRC TLD DOSES FOR TROJAN AREA

Miles

Legend

Water
Highways

Railroads
Roads

Plant..site

TURKEY POINT

TLD Direct Radiation Environmental Monitoring

For the period 970611-971022 134 Days

Field Time: 89 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	310	1.3	13.9 +- 0.4; 2.1		11.4 +- 0.5; 3.5		11.6 +- 2.0	
2	292	2.4	13.0 +- 0.4; 1.9		10.5 +- 0.5; 3.4		11.5 +- 2.2	
3	340	1.9	13.8 +- 0.4; 2.1		11.3 +- 0.5; 3.5		11.9 +- 1.8	
4	354	2.0	16.1 +- 0.5; 2.4		13.6 +- 0.6; 3.7		12.6 +- 2.2	
5	314	3.8	13.7 +- 0.4; 2.1		11.2 +- 0.5; 3.5		11.5 +- 1.9	
6	331	4.2	13.9 +- 0.4; 2.1		11.4 +- 0.5; 3.5		10.9 +- 1.9	
7	291	5.4	16.7 +- 0.5; 2.5		14.2 +- 0.6; 3.8		12.1 +- 2.4	
8	263	5.1	13.9 +- 0.4; 2.1		11.4 +- 0.5; 3.5		10.8 +- 2.0	
9	242	5.7	15.4 +- 0.5; 2.3		12.9 +- 0.6; 3.7		11.6 +- 2.4	
10	234	6.2	16.2 +- 0.5; 2.4		13.7 +- 0.6; 3.7		12.2 +- 1.4	
11	220	6.2	15.0 +- 0.5; 2.3		12.5 +- 0.5; 3.6		11.4 +- 2.1	
12	213	6.9	14.6 +- 0.4; 2.2		12.1 +- 0.5; 3.6		11.1 +- 2.0	
13	199	10.0	15.1 +- 0.5; 2.3		12.6 +- 0.5; 3.6		11.8 +- 1.9	
14	90	10.0	14.2 +- 0.4; 2.1		11.7 +- 0.5; 3.6		11.3 +- 2.4	
15	180	10.0	15.1 +- 0.5; 2.3		12.6 +- 0.5; 3.6		13.2 +- 1.9	
16	171	10.0	16.5 +- 0.5; 2.5		14.0 +- 0.6; 3.8		13.4 +- 1.9	
17	165	9.0	15.7 +- 0.5; 2.3		13.2 +- 0.6; 3.7		12.9 +- 2.0	
18	203	16.0	13.8 +- 0.4; 2.1		11.3 +- 0.5; 3.5		12.3 +- 1.7	
19	203	16.0	14.3 +- 0.4; 2.1		11.8 +- 0.5; 3.6		12.1 +- 2.1	
20	203	16.0	16.4 +- 0.5; 2.5		14.0 +- 0.6; 3.8		13.6 +- 1.8	
21	268	8.7	14.2 +- 0.4; 2.1		11.7 +- 0.5; 3.6		10.5 +- 2.0	
22	256	8.0	14.2 +- 0.4; 2.1		11.7 +- 0.5; 3.6		11.8 +- 1.9	
23	275	9.0	Missing Dosimeter		No Net Data		11.2 +- 2.2	
24	285	9.0	15.6 +- 0.5; 2.3		13.1 +- 0.6; 3.7		13.5 +- 2.1	
25	293	8.7	16.3 +- 0.5; 2.4		13.8 +- 0.6; 3.7		14.0 +- 2.1	
26	301	8.4	15.1 +- 0.5; 2.3		12.6 +- 0.5; 3.6		13.5 +- 1.9	
27	311	8.3	14.9 +- 0.4; 2.2		12.4 +- 0.5; 3.6		12.0 +- 1.7	
28	327	8.2	15.9 +- 0.5; 2.4		13.4 +- 0.6; 3.7		13.5 +- 1.9	
29	339	9.3	14.3 +- 0.4; 2.1		11.8 +- 0.5; 3.6		12.9 +- 1.8	
30	350	8.7	15.7 +- 0.5; 2.4		13.2 +- 0.6; 3.7		12.5 +- 2.3	
31	359	9.9	14.0 +- 0.4; 2.1		11.5 +- 0.5; 3.5		12.5 +- 1.7	
32	2	18.0	15.1 +- 0.5; 2.3		12.6 +- 0.5; 3.6		12.6 +- 1.4	
33	2	22.0	16.1 +- 0.5; 2.4		13.6 +- 0.6; 3.7		12.7 +- 1.8	
34	18	24.0	15.3 +- 0.5; 2.3		12.8 +- 0.6; 3.7		12.7 +- 2.0	
35	28	22.0	14.6 +- 0.4; 2.2		12.1 +- 0.5; 3.6		12.2 +- 2.7	
36	15	0.3	13.9 +- 0.4; 2.1		11.4 +- 0.5; 3.5		11.2 +- 1.8	
37	228	0.5	14.7 +- 0.4; 2.2		12.2 +- 0.5; 3.6		12.9 +- 1.9	

Transit Dose = 2.6 +- 0.3; 2.8

TURKEY POINT

For the period 970611-971022

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	12.9 +- 0.9	5
11.26 - 33.75 NNE	12.1 +- 0.7	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	11.7 +- 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	13.2 +- 0.0	1
168.76 - 191.25 S	13.3 +- 1.0	2
191.26 - 213.75 SSW	12.4 +- 0.4	2
213.76 - 236.25 SW	12.8 +- 0.8	3
236.26 - 258.75 WSW	12.3 +- 0.8	2
258.76 - 281.25 W	11.5 +- 0.2	2
281.26 - 303.75 WNW	12.8 +- 1.5	5
303.76 - 326.25 NW	11.7 +- 0.6	3
326.26 - 348.75 NNW	12.0 +- 1.0	4

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	12.0 +- 1.0	5
2 - 5	11.0 +- 0.5	3
> 5	12.7 +- 0.8	25
Upwind Control	12.4 +- 1.4	3

NRC TLD DOSES FOR TURKEY POINT AREA

Miles

Legend

Water

— Highways

--- Railroads

--- Roads

★ Plant..site

VERMONT YANKEE

TLD Direct Radiation Environmental Monitoring

For the period 970611-971020 132 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	142	1.0	22.1 +- 0.7; 3.3		18.3 +- 0.8; 4.7		15.7 +- 1.4	
2	158	1.0	21.9 +- 0.7; 3.3		18.1 +- 0.8; 4.7		16.6 +- 1.0	
3	184	1.3	20.4 +- 0.6; 3.1		16.5 +- 0.8; 4.5		15.9 +- 1.0	
4	201	1.4	22.1 +- 0.7; 3.3		18.3 +- 0.8; 4.7		16.5 +- 1.5	
5	220	1.6	22.2 +- 0.7; 3.3		18.4 +- 0.8; 4.7		16.7 +- 1.6	
6	157	3.4	20.3 +- 0.6; 3.0		16.4 +- 0.8; 4.5		16.8 +- 2.3	
7	189	4.9	21.0 +- 0.6; 3.2		17.2 +- 0.8; 4.6		16.3 +- 1.3	
8	201	13.0	19.6 +- 0.6; 2.9		15.7 +- 0.7; 4.4		15.9 +- 1.1	
9	208	5.8	20.9 +- 0.6; 3.1		17.0 +- 0.8; 4.5		16.0 +- 1.3	
10	232	3.7	23.4 +- 0.7; 3.5		19.7 +- 0.8; 4.8		18.4 +- 1.6	
11	277	2.9	20.4 +- 0.6; 3.1		16.5 +- 0.8; 4.5		17.3 +- 1.7	
12	292	1.4	21.7 +- 0.6; 3.2		17.9 +- 0.8; 4.6		16.9 +- 1.7	
13	314	1.4	21.4 +- 0.6; 3.2		17.6 +- 0.8; 4.6		16.3 +- 1.5	
14	310	4.2	20.6 +- 0.6; 3.1		16.7 +- 0.8; 4.5		16.1 +- 0.9	
15	299	4.3	20.6 +- 0.6; 3.1		16.7 +- 0.8; 4.5		16.1 +- 1.1	
16	270	4.5	18.4 +- 0.6; 2.8		14.4 +- 0.7; 4.3		14.3 +- 1.2	
17	331	5.0	21.0 +- 0.6; 3.2		17.2 +- 0.8; 4.6		16.9 +- 1.0	
18	290	19.0	24.1 +- 0.7; 3.6		20.5 +- 0.9; 4.9		18.5 +- 1.7	
19	290	19.0	21.3 +- 0.6; 3.2		17.5 +- 0.8; 4.6		17.5 +- 1.8	
20	290	19.0	21.2 +- 0.6; 3.2		17.4 +- 0.8; 4.6		17.8 +- 1.8	
21	359	3.2	21.5 +- 0.6; 3.2		17.7 +- 0.8; 4.6		16.7 +- 1.4	
23	334	2.2	21.8 +- 0.7; 3.3		18.0 +- 0.8; 4.6		15.9 +- 1.5	
24	4	0.9	21.9 +- 0.7; 3.3		18.2 +- 0.8; 4.7		16.9 +- 1.2	
25	30	1.0	19.1 +- 0.6; 2.9		15.1 +- 0.7; 4.3		15.5 +- 1.4	
26	72	1.5	21.5 +- 0.6; 3.2		17.7 +- 0.8; 4.6		17.3 +- 1.0	
27	44	0.7	20.9 +- 0.6; 3.1		17.0 +- 0.8; 4.5		16.3 +- 1.3	
28	39	2.8	22.7 +- 0.7; 3.4		19.0 +- 0.8; 4.8		17.6 +- 1.8	
29	25	3.8	23.8 +- 0.7; 3.6		20.2 +- 0.9; 4.9		19.2 +- 1.7	
30	72	2.7	23.5 +- 0.7; 3.5		19.8 +- 0.8; 4.9		18.5 +- 1.8	
31	85	2.0	20.7 +- 0.6; 3.1		16.8 +- 0.8; 4.5		16.6 +- 1.3	
32	111	1.8	21.5 +- 0.6; 3.2		17.7 +- 0.8; 4.6		16.5 +- 1.2	
33	134	4.0	20.9 +- 0.6; 3.1		17.1 +- 0.8; 4.5		16.2 +- 1.1	
34	151	6.0	20.6 +- 0.6; 3.1		16.7 +- 0.8; 4.5		14.7 +- 1.2	
35	111	4.3	22.1 +- 0.7; 3.3		18.4 +- 0.8; 4.7		18.4 +- 1.3	
36	92	4.7	23.6 +- 0.7; 3.5		20.0 +- 0.9; 4.9		18.9 +- 1.5	
37	50	15.0	25.7 +- 0.8; 3.9		22.2 +- 0.9; 5.1		21.0 +- 1.4	
39	222	0.3	22.3 +- 0.7; 3.3		18.5 +- 0.8; 4.7		17.9 +- 1.3	
40	250	3.0	21.8 +- 0.7; 3.3		18.0 +- 0.8; 4.7		16.9 +- 1.4	

Transit Dose = 5.0 +- 0.4; 2.9

VERMONT YANKEE
For the period 970611-971020

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 +- 0.3	2
11.26 - 33.75 NNE	17.6 +- 3.6	2
33.76 - 56.25 NE	19.4 +- 2.6	3
56.26 - 78.75 ENE	18.8 +- 1.5	2
78.76 - 101.25 E	18.4 +- 2.2	2
101.26 - 123.75 ESE	18.0 +- 0.5	2
123.76 - 146.25 SE	17.7 +- 0.9	2
146.26 - 168.75 SSE	17.1 +- 0.9	3
168.76 - 191.25 S	16.8 +- 0.5	2
191.26 - 213.75 SSW	17.0 +- 1.3	3
213.76 - 236.25 SW	18.9 +- 0.7	3
236.26 - 258.75 WSW	18.0 +- 0.0	1
258.76 - 281.25 W	15.4 +- 1.5	2
281.26 - 303.75 WNW	17.3 +- 0.8	2
303.76 - 326.25 NW	17.2 +- 0.6	2
326.26 - 348.75 NNW	17.6 +- 0.6	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	17.6 +- 1.0	14
2 - 5	17.8 +- 1.6	17
> 5	17.9 +- 2.9	4
Upwind Control	18.5 +- 1.8	3

NRC TLD DOSES FOR VERMONT YANKEE AREA

Miles

0 2 4

Legend

Water
Highways

Railroads
Roads

Plant..site

VOGTLE (GA)

TLD Direct Radiation Environmental Monitoring

For the period 970611-971030 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	298	1.6	17.6 +- 0.5; 2.6	14.2 +- 0.6; 3.8	14.3 +- 1.8
2	309	1.6	19.0 +- 0.6; 2.8	15.6 +- 0.6; 4.0	14.2 +- 1.9
3	336	1.4	18.5 +- 0.6; 2.8	15.1 +- 0.6; 3.9	14.2 +- 2.4
4	270	1.3	19.6 +- 0.6; 2.9	16.1 +- 0.6; 4.0	14.0 +- 2.1
5	247	1.2	20.0 +- 0.6; 3.0	16.5 +- 0.7; 4.1	14.9 +- 2.0
6	215	1.2	22.0 +- 0.7; 3.3	18.5 +- 0.7; 4.3	18.1 +- 2.0
7	205	1.2	19.7 +- 0.6; 3.0	16.3 +- 0.6; 4.0	17.4 +- 1.9
8	180	1.1	18.7 +- 0.6; 2.8	15.3 +- 0.6; 3.9	17.2 +- 1.8
9	153	1.2	20.2 +- 0.6; 3.0	16.8 +- 0.7; 4.1	15.9 +- 2.1
10	134	3.2	21.7 +- 0.7; 3.3	18.2 +- 0.7; 4.2	17.1 +- 1.8
11	103	1.1	17.0 +- 0.5; 2.6	13.7 +- 0.6; 3.8	12.6 +- 2.5
12	134	3.3	19.7 +- 0.6; 2.9	16.2 +- 0.6; 4.0	14.8 +- 1.8
13	123	4.2	19.7 +- 0.6; 3.0	16.3 +- 0.6; 4.0	15.2 +- 1.8
14	141	4.6	19.7 +- 0.6; 2.9	16.2 +- 0.6; 4.0	14.3 +- 3.4
15	153	5.3	17.8 +- 0.5; 2.7	14.5 +- 0.6; 3.8	13.3 +- 1.9
16	162	6.3	20.0 +- 0.6; 3.0	16.6 +- 0.7; 4.1	15.3 +- 2.0
17	157	7.3	19.2 +- 0.6; 2.9	15.8 +- 0.6; 4.0	16.9 +- 2.8
18	191	4.8	17.8 +- 0.5; 2.7	14.4 +- 0.6; 3.8	13.7 +- 1.8
19	208	4.7	17.7 +- 0.5; 2.7	14.3 +- 0.6; 3.8	13.2 +- 2.1
20	232	4.9	17.6 +- 0.5; 2.6	14.3 +- 0.6; 3.8	13.6 +- 2.0
21	250	5.6	19.9 +- 0.6; 3.0	16.5 +- 0.7; 4.0	14.8 +- 2.0
22	264	4.3	19.2 +- 0.6; 2.9	15.8 +- 0.6; 4.0	14.3 +- 2.2
23	301	4.2	17.1 +- 0.5; 2.6	13.8 +- 0.6; 3.8	14.3 +- 2.2
24	308	4.6	18.7 +- 0.6; 2.8	15.3 +- 0.6; 3.9	14.3 +- 2.6
25	329	6.7	18.6 +- 0.6; 2.8	15.2 +- 0.6; 3.9	15.9 +- 2.8
26	258	15.0	21.5 +- 0.6; 3.2	18.0 +- 0.7; 4.2	17.4 +- 2.1
27	300	13.0	19.0 +- 0.6; 2.9	15.6 +- 0.6; 4.0	17.0 +- 1.7
28	330	30.0	Missing Dosimeter	No Net Data	14.2 +- 1.9

Transit Dose = 2.9 +- 0.3; 2.9

VOGTLE (GA)
For the period 970611-971030

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	15.0 +- 1.8	2
123.76 - 146.25 SE	16.9 +- 1.2	3
146.26 - 168.75 SSE	15.9 +- 1.0	4
168.76 - 191.25 S	14.9 +- 0.6	2
191.26 - 213.75 SSW	15.3 +- 1.4	2
213.76 - 236.25 SW	16.4 +- 3.0	2
236.26 - 258.75 WSW	16.5 +- 0.0	2
258.76 - 281.25 W	16.0 +- 0.3	2
281.26 - 303.75 WNW	14.0 +- 0.3	2
303.76 - 326.25 NW	15.4 +- 0.2	2
326.26 - 348.75 NNW	15.2 +- 0.1	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	15.8 +- 1.4	10
2 - 5	15.5 +- 1.4	10
> 5	15.7 +- 0.9	5
Upwind Control	16.8 +- 1.7	2

NRC TLD DOSES FOR VOGTLE AREA

Miles

Legend

Water

Railroads

Roads

Plant..site

VOGTLE (SC)

TLD Direct Radiation Environmental Monitoring

For the period 970611-971030 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
31	357	5.2	24.3 +- 0.7; 3.6	18.6 +- 0.8; 4.6	17.9 +- 3.8
32	26	4.9	18.2 +- 0.5; 2.7	12.7 +- 0.6; 4.0	12.7 +- 2.6
33	17	3.2	19.7 +- 0.6; 3.0	14.2 +- 0.7; 4.2	13.0 +- 2.4
34	36	3.9	20.7 +- 0.6; 3.1	15.2 +- 0.7; 4.3	14.2 +- 2.4
35	48	2.4	25.2 +- 0.8; 3.8	19.6 +- 0.8; 4.7	19.0 +- 2.8
36	69	2.8	20.3 +- 0.6; 3.0	14.8 +- 0.7; 4.2	14.7 +- 2.5
37	74	4.4	20.8 +- 0.6; 3.1	15.3 +- 0.7; 4.3	14.3 +- 3.8
38	94	4.5	20.6 +- 0.6; 3.1	15.1 +- 0.7; 4.2	14.0 +- 2.6

Transit Dose = 5.0 +- 0.4; 3.1

VOGTLE (SC)
For the period 970611-971030

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 +- 0.0	1
11.26 - 33.75 NNE	13.5 +- 1.1	2
33.76 - 56.25 NE	17.4 +- 3.1	2
56.26 - 78.75 ENE	15.0 +- 0.3	2
78.76 - 101.25 E	15.1 +- 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	15.3 +- 2.1	7
> 5	18.6 +- 0.0	1
Upwind Control	No Data +- No Data	0

NRC TLD DOSES FOR VOGTLE AREA

Miles

0 2 4

Legend

Water

Railroads

Roads

Plant..site

WASHINGTON NUCLEAR 2

TLD Direct Radiation Environmental Monitoring

For the period 970609-971002 116 Days

Field Time: 92 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	174	12.0	20.8 +- 0.6; 3.1		17.9 +- 0.7; 4.2		18.0 +- 0.9	
2	163	11.0	21.1 +- 0.6; 3.2		18.2 +- 0.7; 4.2		17.7 +- 0.9	
3	161	9.0	20.2 +- 0.6; 3.0		17.3 +- 0.7; 4.1		17.4 +- 0.8	
4	152	5.0	21.8 +- 0.7; 3.3		18.8 +- 0.7; 4.3		19.0 +- 0.9	
5	195	2.0	21.5 +- 0.6; 3.2		18.6 +- 0.7; 4.2		18.0 +- 0.7	
6	220	1.5	22.2 +- 0.7; 3.3		19.2 +- 0.7; 4.3		18.4 +- 1.1	
7	92	3.0	23.2 +- 0.7; 3.5		20.2 +- 0.7; 4.4		19.4 +- 1.1	
8	155	1.0	21.5 +- 0.6; 3.2		18.5 +- 0.7; 4.2		17.5 +- 1.0	
9	130	0.5	22.7 +- 0.7; 3.4		19.7 +- 0.7; 4.4		18.5 +- 1.0	
10	70	0.5	23.0 +- 0.7; 3.4		20.0 +- 0.7; 4.4		18.8 +- 1.0	
11	25	0.8	23.0 +- 0.7; 3.5		20.0 +- 0.7; 4.4		18.7 +- 0.9	
12	315	0.5	22.0 +- 0.7; 3.3		19.0 +- 0.7; 4.3		18.9 +- 1.0	
13	290	0.5	30.0 +- 0.9; 4.5		26.9 +- 0.9; 5.2		23.4 +- 2.5	
14	270	0.5	22.5 +- 0.7; 3.4		19.5 +- 0.7; 4.3		18.8 +- 1.0	
15	245	1.8	21.6 +- 0.6; 3.2		18.6 +- 0.7; 4.2		18.7 +- 0.8	
16	285	3.0	21.9 +- 0.7; 3.3		18.9 +- 0.7; 4.3		19.2 +- 0.8	
17	240	4.0	20.6 +- 0.6; 3.1		17.6 +- 0.7; 4.1		17.4 +- 0.9	
18	198	7.0	20.7 +- 0.6; 3.1		17.8 +- 0.7; 4.1		17.4 +- 1.1	
19	173	8.5	22.2 +- 0.7; 3.3		19.2 +- 0.7; 4.3		18.5 +- 0.9	
20	150	20.0	21.2 +- 0.6; 3.2		18.2 +- 0.7; 4.2		18.5 +- 0.8	
21	114	7.0	21.8 +- 0.7; 3.3		18.8 +- 0.7; 4.3		18.6 +- 1.1	
22	120	8.0	21.7 +- 0.7; 3.3		18.8 +- 0.7; 4.3		18.1 +- 0.9	
23	134	6.0	25.2 +- 0.8; 3.8		22.1 +- 0.8; 4.6		20.5 +- 1.1	
24	110	4.0	25.3 +- 0.8; 3.8		22.2 +- 0.8; 4.7		22.3 +- 1.2	
25	85	5.0	23.1 +- 0.7; 3.5		20.1 +- 0.7; 4.4		19.1 +- 0.8	
26	65	5.0	24.6 +- 0.7; 3.7		21.6 +- 0.8; 4.6		20.8 +- 1.0	
27	53	4.0	22.2 +- 0.7; 3.3		19.2 +- 0.7; 4.3		18.4 +- 1.2	
28	44	8.0	23.5 +- 0.7; 3.5		20.5 +- 0.8; 4.5		20.2 +- 1.0	
29	33	10.0	24.1 +- 0.7; 3.6		21.1 +- 0.8; 4.5		19.1 +- 1.5	
30	8	9.5	23.1 +- 0.7; 3.5		20.1 +- 0.7; 4.4		20.1 +- 0.9	
31	215	15.0	20.7 +- 0.6; 3.1		17.7 +- 0.7; 4.1		17.6 +- 0.7	

Transit Dose = 2.6 +- 0.3; 2.9

WASHINGTON NUCLEAR 2
For the period 970609-971002

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	20.1 +- 0.0	1
11.26 - 33.75 NNE	20.6 +- 0.7	2
33.76 - 56.25 NE	19.9 +- 0.9	2
56.26 - 78.75 ENE	20.8 +- 1.1	2
78.76 - 101.25 E	20.1 +- 0.1	2
101.26 - 123.75 ESE	19.9 +- 2.0	3
123.76 - 146.25 SE	20.9 +- 1.7	2
146.26 - 168.75 SSE	18.2 +- 0.6	5
168.76 - 191.25 S	19.2 +- 0.0	1
191.26 - 213.75 SSW	18.2 +- 0.6	2
213.76 - 236.25 SW	19.2 +- 0.0	1
236.26 - 258.75 WSW	18.1 +- 0.7	2
258.76 - 281.25 W	19.5 +- 0.0	1
281.26 - 303.75 WNW	22.9 +- 5.6	2
303.76 - 326.25 NW	19.0 +- 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	20.0 +- 2.5	10
2 - 5	19.8 +- 1.5	8
> 5	19.3 +- 1.5	11
Upwind Control	17.8 +- 0.1	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 970609-971029 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	101	0.4	19.8 +- 0.6; 3.0	16.8 +- 0.7; 4.1	15.8 +- 1.2
2	116	1.1	17.6 +- 0.5; 2.6	14.6 +- 0.6; 3.8	14.8 +- 1.9
3	132	1.3	21.1 +- 0.6; 3.2	18.2 +- 0.7; 4.2	18.0 +- 1.3
4	160	1.8	Missing Dosimeter	No Net Data	15.6 +- 1.3
5	183	1.4	Damaged Dosimeter	No Net Data	15.8 +- 1.3
6	202	1.2	19.2 +- 0.6; 2.9	16.3 +- 0.6; 4.0	15.8 +- 1.5
7	226	1.2	18.6 +- 0.6; 2.8	15.6 +- 0.6; 4.0	15.4 +- 1.0
8	248	1.3	20.2 +- 0.6; 3.0	17.2 +- 0.7; 4.1	17.2 +- 1.1
9	265	1.9	16.8 +- 0.5; 2.5	13.8 +- 0.6; 3.8	14.2 +- 1.9
10	186	4.2	20.4 +- 0.6; 3.1	17.4 +- 0.7; 4.1	17.3 +- 0.9
11	315	4.4	16.7 +- 0.5; 2.5	13.8 +- 0.6; 3.8	16.1 +- 1.3
12	328	4.1	20.9 +- 0.6; 3.1	17.9 +- 0.7; 4.2	17.3 +- 1.0
13	309	0.8	19.4 +- 0.6; 2.9	16.4 +- 0.7; 4.0	15.3 +- 0.9
14	273	0.9	21.1 +- 0.6; 3.2	18.2 +- 0.7; 4.2	17.0 +- 2.1
15	292	0.8	16.4 +- 0.5; 2.5	13.4 +- 0.6; 3.7	13.3 +- 1.3
16	335	0.5	17.7 +- 0.5; 2.7	14.8 +- 0.6; 3.9	13.8 +- 0.9
17	120	4.3	18.1 +- 0.5; 2.7	15.1 +- 0.6; 3.9	14.2 +- 1.1
18	145	3.5	19.7 +- 0.6; 3.0	16.7 +- 0.7; 4.1	14.7 +- 1.3
19	153	8.1	18.9 +- 0.6; 2.8	16.0 +- 0.6; 4.0	16.1 +- 1.2
20	133	8.1	19.7 +- 0.6; 3.0	16.8 +- 0.7; 4.1	16.0 +- 1.1
21	116	6.7	19.2 +- 0.6; 2.9	16.3 +- 0.6; 4.0	15.4 +- 1.3
22	95	4.3	18.4 +- 0.6; 2.8	15.5 +- 0.6; 3.9	15.4 +- 1.0
23	86	2.6	20.6 +- 0.6; 3.1	17.6 +- 0.7; 4.2	15.6 +- 1.1
24	66	4.2	22.0 +- 0.7; 3.3	19.0 +- 0.7; 4.3	18.4 +- 1.2
25	37	3.5	20.5 +- 0.6; 3.1	17.5 +- 0.7; 4.2	16.9 +- 1.1
26	23	3.8	19.2 +- 0.6; 2.9	16.2 +- 0.6; 4.0	14.6 +- 1.0
27	350	4.9	19.5 +- 0.6; 2.9	16.5 +- 0.7; 4.0	15.6 +- 0.9
28	335	5.0	18.8 +- 0.6; 2.8	15.8 +- 0.6; 4.0	15.8 +- 1.1
29	6	2.8	17.9 +- 0.5; 2.7	15.0 +- 0.6; 3.9	14.1 +- 1.0
30	356	1.1	21.1 +- 0.6; 3.2	18.1 +- 0.7; 4.2	16.2 +- 1.9
31	15	0.8	17.6 +- 0.5; 2.6	14.6 +- 0.6; 3.8	15.8 +- 1.7
32	40	0.8	17.1 +- 0.5; 2.6	14.2 +- 0.6; 3.8	13.8 +- 1.4
33	69	1.1	Missing Dosimeter	No Net Data	15.4 +- 2.7
34	292	15.0	19.9 +- 0.6; 3.0	16.9 +- 0.7; 4.1	15.6 +- 1.6
35	282	27.0	21.1 +- 0.6; 3.2	18.1 +- 0.7; 4.2	17.7 +- 1.6
36	268	21.0	19.3 +- 0.6; 2.9	16.4 +- 0.6; 4.0	14.5 +- 1.6

Transit Dose = 2.8 +- 0.3; 2.9

WATERFORD

For the period 970609-971029

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 +- 1.5	3
11.26 - 33.75 NNE	15.4 +- 1.1	2
33.76 - 56.25 NE	15.8 +- 2.4	2
56.26 - 78.75 ENE	19.0 +- 0.0	1
78.76 - 101.25 E	16.6 +- 1.1	3
101.26 - 123.75 ESE	15.3 +- 0.8	3
123.76 - 146.25 SE	17.2 +- 0.8	3
146.26 - 168.75 SSE	16.0 +- 0.0	1
168.76 - 191.25 S	17.4 +- 0.0	1
191.26 - 213.75 SSW	16.3 +- 0.0	1
213.76 - 236.25 SW	15.6 +- 0.0	1
236.26 - 258.75 WSW	17.2 +- 0.0	1
258.76 - 281.25 W	16.0 +- 3.1	2
281.26 - 303.75 WNW	13.4 +- 0.0	1
303.76 - 326.25 NW	15.1 +- 1.8	2
326.26 - 348.75 NNW	16.2 +- 1.6	3

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	15.9 +- 1.7	14
2 - 5	16.5 +- 1.4	13
> 5	16.3 +- 0.4	3
Upwind Control	17.1 +- 0.9	3

NRC TLD DOSES FOR WATERFORD AREA

Miles

Legend

Water

— Highways

--- Railroads

--- Roads

★ Plant..site

WATTS BAR

TLD Direct Radiation Environmental Monitoring

For the period 970611-971021 133 Days

Field Time: 93 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		19.4 +- 0.7; 4.1		17.3 +- 2.1	
2	314	2.1	Missing Dosimeter		No Net Data		17.4 +- 2.1	
3	297	1.9	21.3 +- 0.6; 3.2		19.5 +- 0.7; 4.1		17.3 +- 2.2	
4	272	2.0	19.9 +- 0.6; 3.0		18.2 +- 0.6; 4.0		16.9 +- 2.2	
5	251	1.9	22.4 +- 0.7; 3.4		20.6 +- 0.7; 4.2		19.1 +- 2.2	
6	235	1.8	24.3 +- 0.7; 3.6		22.5 +- 0.8; 4.4		20.3 +- 2.4	
7	230	3.8	24.1 +- 0.7; 3.6		22.2 +- 0.7; 4.4		19.6 +- 2.3	
8	208	3.6	18.6 +- 0.6; 2.8		16.9 +- 0.6; 3.8		18.0 +- 2.2	
9	249	4.2	23.3 +- 0.7; 3.5		21.5 +- 0.7; 4.3		16.4 +- 3.0	
10	266	3.1	19.9 +- 0.6; 3.0		18.2 +- 0.6; 4.0		16.8 +- 2.2	
11	289	3.3	17.9 +- 0.5; 2.7		16.2 +- 0.6; 3.7		14.4 +- 1.9	
12	310	4.7	17.6 +- 0.5; 2.6		16.0 +- 0.6; 3.7		14.6 +- 2.1	
13	337	3.6	18.4 +- 0.6; 2.8		16.8 +- 0.6; 3.8		15.9 +- 2.8	
14	330	7.0	17.9 +- 0.5; 2.7		16.3 +- 0.6; 3.8		15.4 +- 2.1	
15	350	4.7	Missing Dosimeter		No Net Data		18.7 +- 2.3	
16	7	1.1	25.2 +- 0.8; 3.8		23.3 +- 0.8; 4.5		20.4 +- 2.5	
17	23	1.6	Missing Dosimeter		No Net Data		13.4 +- 2.3	
18	41	2.3	19.2 +- 0.6; 2.9		17.5 +- 0.6; 3.9		16.2 +- 2.2	
19	69	1.3	22.7 +- 0.7; 3.4		20.9 +- 0.7; 4.3		18.8 +- 2.0	
20	89	1.2	20.9 +- 0.6; 3.1		19.1 +- 0.7; 4.1		19.4 +- 2.2	
21	114	1.1	19.5 +- 0.6; 2.9		17.8 +- 0.6; 3.9		16.1 +- 2.2	
22	141	1.0	23.3 +- 0.7; 3.5		21.5 +- 0.7; 4.3		19.0 +- 2.1	
23	163	1.1	26.3 +- 0.8; 3.9		24.4 +- 0.8; 4.7		22.0 +- 2.4	
24	187	1.1	20.6 +- 0.6; 3.1		18.8 +- 0.6; 4.0		18.3 +- 2.8	
25	203	1.2	17.3 +- 0.5; 2.6		15.7 +- 0.6; 3.7		17.1 +- 2.7	
26	184	5.9	24.7 +- 0.7; 3.7		22.9 +- 0.8; 4.5		18.6 +- 3.0	
27	176	4.5	21.7 +- 0.7; 3.3		19.9 +- 0.7; 4.1		17.6 +- 2.4	
28	161	3.5	20.4 +- 0.6; 3.1		18.7 +- 0.6; 4.0		16.5 +- 2.2	
29	144	3.0	20.6 +- 0.6; 3.1		18.9 +- 0.7; 4.0		16.8 +- 2.3	
30	117	3.1	21.0 +- 0.6; 3.1		19.2 +- 0.7; 4.1		16.0 +- 2.4	
31	97	4.0	19.9 +- 0.6; 3.0		18.2 +- 0.6; 4.0		16.4 +- 2.3	
32	76	4.1	17.7 +- 0.5; 2.7		16.0 +- 0.6; 3.7		14.2 +- 2.3	
33	32	4.1	20.7 +- 0.6; 3.1		19.0 +- 0.7; 4.0		17.0 +- 2.1	
34	36	4.7	16.3 +- 0.5; 2.4		14.7 +- 0.5; 3.6		13.8 +- 2.0	
35	38	19.0	19.6 +- 0.6; 2.9		17.9 +- 0.6; 3.9		16.2 +- 2.4	
36	38	19.0	18.8 +- 0.6; 2.8		17.1 +- 0.6; 3.8		17.1 +- 3.1	
37	38	19.0	20.8 +- 0.6; 3.1		19.0 +- 0.7; 4.0		17.4 +- 2.3	

Transit Dose = 1.1 +- 0.3; 2.8

WATTS BAR

For the period 970611-971021

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	23.3 +- 0.0	1
11.26 - 33.75 NNE	19.0 +- 0.0	1
33.76 - 56.25 NE	16.1 +- 2.0	2
56.26 - 78.75 ENE	18.5 +- 3.4	2
78.76 - 101.25 E	18.7 +- 0.6	2
101.26 - 123.75 ESE	18.5 +- 1.0	2
123.76 - 146.25 SE	20.2 +- 1.8	2
146.26 - 168.75 SSE	21.5 +- 4.0	2
168.76 - 191.25 S	20.5 +- 2.1	3
191.26 - 213.75 SSW	16.3 +- 0.8	2
213.76 - 236.25 SW	22.3 +- 0.2	2
236.26 - 258.75 WSW	21.1 +- 0.6	2
258.76 - 281.25 W	18.2 +- 0.0	2
281.26 - 303.75 WNW	17.9 +- 2.3	2
303.76 - 326.25 NW	16.0 +- 0.0	1
326.26 - 348.75 NNW	17.5 +- 1.7	3

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	20.1 +- 2.4	13
2 - 5	18.1 +- 2.0	16
> 5	19.6 +- 4.6	2
Upwind Control	18.0 +- 1.0	3

NRC TLD DOSES FOR WATTS BAR AREA

Miles

Legend

Water
Highways

Railroads
Roads

Plant..site

WOLF CREEK

TLD Direct Radiation Environmental Monitoring

For the period 970609-971027 141 Days

Field Time: 87 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	316	2.9	23.8	+-	0.7; 3.6	18.2	+-	0.8; 4.9	19.4	+- 1.4
2	330	1.8	23.2	+-	0.7; 3.5	17.5	+-	0.8; 4.8	18.4	+- 1.1
3	360	2.8	23.6	+-	0.7; 3.5	18.0	+-	0.8; 4.8	18.5	+- 1.2
4	355	1.6	25.8	+-	0.8; 3.9	20.3	+-	0.9; 5.1	19.2	+- 1.2
5	31	1.8	25.2	+-	0.8; 3.8	19.6	+-	0.9; 5.0	19.4	+- 1.2
6	47	2.0	21.9	+-	0.7; 3.3	16.2	+-	0.8; 4.6	16.6	+- 1.4
7	70	1.6	22.6	+-	0.7; 3.4	16.9	+-	0.8; 4.7	17.6	+- 1.1
8	90	1.7	24.1	+-	0.7; 3.6	18.5	+-	0.9; 4.9	20.0	+- 1.3
9	111	2.4	22.9	+-	0.7; 3.4	17.3	+-	0.8; 4.8	19.3	+- 1.2
10	137	2.5	23.6	+-	0.7; 3.5	18.0	+-	0.8; 4.8	18.9	+- 1.0
11	157	3.4	25.2	+-	0.8; 3.8	19.7	+-	0.9; 5.0	20.4	+- 1.1
12	184	3.3	24.4	+-	0.7; 3.7	18.9	+-	0.9; 4.9	19.8	+- 1.1
13	213	2.9	20.6	+-	0.6; 3.1	14.8	+-	0.8; 4.5	18.6	+- 2.1
14	233	2.4	23.5	+-	0.7; 3.5	17.8	+-	0.8; 4.8	19.5	+- 1.4
15	248	2.2	24.0	+-	0.7; 3.6	18.3	+-	0.9; 4.9	18.9	+- 1.2
16	278	2.1	24.5	+-	0.7; 3.7	18.9	+-	0.9; 5.0	19.3	+- 1.1
17	270	3.4	20.6	+-	0.6; 3.1	14.9	+-	0.8; 4.5	15.6	+- 0.9
18	263	4.2	25.0	+-	0.7; 3.7	19.4	+-	0.9; 5.0	21.1	+- 1.5
19	257	5.0	24.5	+-	0.7; 3.7	18.9	+-	0.9; 4.9	19.3	+- 1.0
20	280	3.9	22.0	+-	0.7; 3.3	16.3	+-	0.8; 4.7	18.1	+- 1.3
21	298	3.9	24.3	+-	0.7; 3.6	18.7	+-	0.9; 4.9	19.4	+- 1.0
22	319	4.8	22.8	+-	0.7; 3.4	17.1	+-	0.8; 4.7	17.5	+- 1.2
23	332	5.0	22.3	+-	0.7; 3.3	16.7	+-	0.8; 4.7	19.0	+- 1.5
24	19	3.9	24.6	+-	0.7; 3.7	19.0	+-	0.9; 5.0	19.2	+- 1.0
25	35	4.4	21.5	+-	0.6; 3.2	15.8	+-	0.8; 4.6	16.6	+- 1.0
26	67	4.3	21.9	+-	0.7; 3.3	16.3	+-	0.8; 4.6	17.7	+- 1.2
27	88	4.1	21.9	+-	0.7; 3.3	16.3	+-	0.8; 4.6	19.0	+- 1.9
28	110	4.5	25.2	+-	0.8; 3.8	19.6	+-	0.9; 5.0	19.5	+- 1.0
29	128	4.4	23.4	+-	0.7; 3.5	17.8	+-	0.8; 4.8	19.6	+- 1.5
30	112	16.0	20.5	+-	0.6; 3.1	14.7	+-	0.8; 4.5	16.5	+- 1.4
31	127	9.4	21.8	+-	0.7; 3.3	16.1	+-	0.8; 4.6	16.6	+- 0.8
32	62	11.0	21.9	+-	0.7; 3.3	16.2	+-	0.8; 4.6	16.9	+- 1.4
33	153	5.2	21.9	+-	0.7; 3.3	16.2	+-	0.8; 4.6	18.2	+- 1.6
34	174	4.7	22.5	+-	0.7; 3.4	16.9	+-	0.8; 4.7	19.9	+- 1.5
35	197	5.2	24.8	+-	0.7; 3.7	19.2	+-	0.9; 5.0	20.5	+- 1.5
36	224	4.8	24.2	+-	0.7; 3.6	18.6	+-	0.9; 4.9	18.2	+- 0.8
37	220	13.8	22.4	+-	0.7; 3.4	16.7	+-	0.8; 4.7	15.5	+- 0.8
38	253	6.5	24.1	+-	0.7; 3.6	18.5	+-	0.9; 4.9	20.2	+- 1.3
39	278	10.0	24.0	+-	0.7; 3.6	18.4	+-	0.9; 4.9	18.6	+- 1.3
40	285	15.0	20.8	+-	0.6; 3.1	15.1	+-	0.8; 4.5	16.5	+- 0.9
41	292	6.7	23.0	+-	0.7; 3.5	17.4	+-	0.8; 4.8	17.8	+- 1.4
42	345	13.0	25.1	+-	0.8; 3.8	19.5	+-	0.9; 5.0	20.0	+- 1.3
43	5	7.5	24.2	+-	0.7; 3.6	18.6	+-	0.9; 4.9	19.1	+- 1.3
44	20	8.3	24.6	+-	0.7; 3.7	19.0	+-	0.9; 5.0	19.7	+- 1.0
45	315	7.5	25.0	+-	0.8; 3.8	19.4	+-	0.9; 5.0	20.6	+- 1.3
46	341	7.7	26.0	+-	0.8; 3.9	20.4	+-	0.9; 5.1	19.9	+- 1.1
47	355	1.0	22.0	+-	0.7; 3.3	16.3	+-	0.8; 4.7	18.2	+- 1.2

Transit Dose = 6.2 +- 0.4; 3.1

WOLF CREEK

For the period 970609-971027

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	18.3 +- 1.6	4
11.26 - 33.75 NNE	19.2 +- 0.3	3
33.76 - 56.25 NE	16.0 +- 0.3	2
56.26 - 78.75 ENE	16.5 +- 0.4	3
78.76 - 101.25 E	17.4 +- 1.6	2
101.26 - 123.75 ESE	17.2 +- 2.4	3
123.76 - 146.25 SE	17.3 +- 1.0	3
146.26 - 168.75 SSE	17.9 +- 2.5	2
168.76 - 191.25 S	17.9 +- 1.4	2
191.26 - 213.75 SSW	17.0 +- 3.1	2
213.76 - 236.25 SW	17.7 +- 1.0	3
236.26 - 258.75 WSW	18.6 +- 0.3	3
258.76 - 281.25 W	17.6 +- 1.9	5
281.26 - 303.75 WNW	17.1 +- 1.9	3
303.76 - 326.25 NW	18.3 +- 1.2	3
326.26 - 348.75 NNW	18.5 +- 1.7	4

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	17.9 +- 1.6	7
2 - 5	17.7 +- 1.4	25
> 5	17.7 +- 1.8	15
Upwind Control	No Data +- No Data	0

NRC TLD DOSES FOR WOLF CREEK AREA

Miles

Legend

Water
Highways

Railroads
Roads

Plant..site

YANKEE ROWE

TLD Direct Radiation Environmental Monitoring

For the period 970611-971030 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	0.8	23.7 +- 0.7; 3.6	18.1 +- 0.7; 4.3	18.1 +- 1.9
2	265	14.0	22.5 +- 0.7; 3.4	17.0 +- 0.7; 4.2	15.9 +- 1.2
3	137	12.0	23.5 +- 0.7; 3.5	17.9 +- 0.7; 4.3	16.0 +- 1.5
5	85	2.2	23.8 +- 0.7; 3.6	18.1 +- 0.7; 4.3	15.7 +- 1.7
6	118	2.6	24.4 +- 0.7; 3.7	18.7 +- 0.7; 4.4	15.5 +- 1.5
7	137	2.1	24.8 +- 0.7; 3.7	19.1 +- 0.8; 4.5	17.4 +- 1.7
8	153	1.7	22.7 +- 0.7; 3.4	17.2 +- 0.7; 4.2	16.1 +- 1.1
9	176	1.1	22.8 +- 0.7; 3.4	17.2 +- 0.7; 4.2	15.9 +- 1.3
10	203	0.5	25.2 +- 0.8; 3.8	19.4 +- 0.8; 4.5	17.0 +- 2.0
11	219	0.6	23.6 +- 0.7; 3.5	18.0 +- 0.7; 4.3	16.8 +- 1.3
12	239	1.1	23.6 +- 0.7; 3.5	18.0 +- 0.7; 4.3	18.8 +- 2.5
13	272	1.8	26.9 +- 0.8; 4.0	21.0 +- 0.8; 4.7	17.5 +- 2.1
14	292	1.3	26.5 +- 0.8; 4.0	20.6 +- 0.8; 4.6	18.1 +- 2.0
15	315	1.6	26.2 +- 0.8; 3.9	20.4 +- 0.8; 4.6	18.4 +- 2.0
16	348	1.4	25.3 +- 0.8; 3.8	19.5 +- 0.8; 4.5	18.0 +- 1.7
17	358	2.8	24.3 +- 0.7; 3.6	18.6 +- 0.7; 4.4	16.8 +- 1.8
18	21	2.8	21.3 +- 0.6; 3.2	15.9 +- 0.7; 4.1	15.1 +- 1.7
19	43	5.8	24.0 +- 0.7; 3.6	18.4 +- 0.7; 4.4	16.7 +- 1.2
20	75	6.0	26.9 +- 0.8; 4.0	21.0 +- 0.8; 4.7	18.0 +- 1.9
21	98	6.0	21.8 +- 0.7; 3.3	16.3 +- 0.7; 4.1	14.9 +- 1.4
22	104	5.2	19.4 +- 0.6; 2.9	14.2 +- 0.6; 3.9	13.7 +- 1.3
23	133	5.7	23.2 +- 0.7; 3.5	17.6 +- 0.7; 4.3	14.0 +- 1.7
24	157	7.5	22.3 +- 0.7; 3.3	16.8 +- 0.7; 4.2	14.4 +- 1.6
25	184	6.3	24.9 +- 0.7; 3.7	19.1 +- 0.8; 4.5	16.3 +- 1.9
27	225	5.9	24.9 +- 0.7; 3.7	19.2 +- 0.8; 4.5	17.3 +- 1.6
29	269	3.5	26.1 +- 0.8; 3.9	20.3 +- 0.8; 4.6	17.4 +- 1.9
32	342	3.3	24.8 +- 0.7; 3.7	19.1 +- 0.8; 4.5	17.2 +- 1.6
34	48	7.3	24.3 +- 0.7; 3.6	18.6 +- 0.7; 4.4	17.4 +- 1.6
35	39	2.3	19.8 +- 0.6; 3.0	14.6 +- 0.6; 4.0	14.0 +- 1.6
47	260	9.6	23.0 +- 0.7; 3.4	17.4 +- 0.7; 4.3	16.7 +- 1.3
48	261	9.0	26.2 +- 0.8; 3.9	20.3 +- 0.8; 4.6	18.7 +- 1.6

Transit Dose = 3.8 +- 0.4; 3.2

YANKEE ROWE

For the period 970611-971030

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	18.3 +- 0.4	2
11.26 - 33.75 NNE	15.9 +- 0.0	1
33.76 - 56.25 NE	17.2 +- 2.3	3
56.26 - 78.75 ENE	21.0 +- 0.0	1
78.76 - 101.25 E	17.2 +- 1.3	2
101.26 - 123.75 ESE	16.4 +- 3.2	2
123.76 - 146.25 SE	18.2 +- 0.8	3
146.26 - 168.75 SSE	17.0 +- 0.3	2
168.76 - 191.25 S	18.2 +- 1.4	2
191.26 - 213.75 SSW	19.4 +- 0.0	1
213.76 - 236.25 SW	18.6 +- 0.8	2
236.26 - 258.75 WSW	18.0 +- 0.0	1
258.76 - 281.25 W	19.4 +- 2.1	3
281.26 - 303.75 WNW	20.6 +- 0.0	1
303.76 - 326.25 NW	20.4 +- 0.0	1
326.26 - 348.75 NNW	19.3 +- 0.3	2

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	18.9 +- 1.4	10
2 - 5	18.0 +- 1.9	8
> 5	17.8 +- 1.8	11
Upwind Control	18.9 +- 2.1	2

NRC TLD DOSES FOR YANKEE ROWE AREA

Miles

Legend

Water

Highways

--- Railroads

--- Roads

Plant..site

ZION

TLD Direct Radiation Environmental Monitoring

For the period 970609-971021 135 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	310 0.8	18.5 +- 0.6; 2.8	14.8 +- 0.6; 3.9	15.4 +- 1.5
2	192 1.0	17.5 +- 0.5; 2.6	13.8 +- 0.6; 3.8	13.1 +- 1.1
3	187 1.9	19.7 +- 0.6; 3.0	15.9 +- 0.7; 4.0	14.6 +- 1.4
4	219 2.4	Missing Dosimeter	No Net Data	17.4 +- 1.3
5	257 1.8	Missing Dosimeter	No Net Data	16.9 +- 1.5
6	250 1.2	19.4 +- 0.6; 2.9	15.7 +- 0.6; 4.0	16.2 +- 1.4
7	293 1.6	19.2 +- 0.6; 2.9	15.5 +- 0.6; 4.0	17.0 +- 1.0
8	310 1.8	18.7 +- 0.6; 2.8	14.9 +- 0.6; 3.9	14.9 +- 1.4
9	343 2.6	19.6 +- 0.6; 2.9	15.8 +- 0.7; 4.0	15.4 +- 1.4
10	356 4.5	17.9 +- 0.5; 2.7	14.2 +- 0.6; 3.9	14.6 +- 1.1
11	337 4.5	20.3 +- 0.6; 3.0	16.5 +- 0.7; 4.1	16.9 +- 1.1
12	310 4.0	21.9 +- 0.7; 3.3	18.1 +- 0.7; 4.3	18.9 +- 1.6
13	293 3.5	24.9 +- 0.7; 3.7	20.9 +- 0.8; 4.6	19.8 +- 1.4
14	280 4.5	23.3 +- 0.7; 3.5	19.4 +- 0.7; 4.4	18.8 +- 1.3
15	232 3.2	23.1 +- 0.7; 3.5	19.2 +- 0.7; 4.4	18.0 +- 1.4
16	220 3.5	22.5 +- 0.7; 3.4	18.6 +- 0.7; 4.3	18.2 +- 1.2
17	198 4.5	22.1 +- 0.7; 3.3	18.3 +- 0.7; 4.3	16.4 +- 1.5
18	206 2.8	20.5 +- 0.6; 3.1	16.8 +- 0.7; 4.1	15.5 +- 1.4
19	327 1.7	19.9 +- 0.6; 3.0	16.1 +- 0.7; 4.1	15.5 +- 1.5
20	197 15.0	22.0 +- 0.7; 3.3	18.1 +- 0.7; 4.3	19.2 +- 1.3
21	352 7.9	19.3 +- 0.6; 2.9	15.6 +- 0.6; 4.0	15.1 +- 1.2
22	348 9.3	20.5 +- 0.6; 3.1	16.8 +- 0.7; 4.1	15.3 +- 1.5
23	336 8.5	19.0 +- 0.6; 2.9	15.3 +- 0.6; 4.0	17.7 +- 1.9
24	314 5.8	23.0 +- 0.7; 3.4	19.1 +- 0.7; 4.4	17.6 +- 1.2
25	220 6.3	21.1 +- 0.6; 3.2	17.3 +- 0.7; 4.2	16.6 +- 1.1
26	195 8.0	19.7 +- 0.6; 2.9	15.9 +- 0.7; 4.0	15.6 +- 1.2
28	197 15.0	22.5 +- 0.7; 3.4	18.6 +- 0.7; 4.3	18.8 +- 1.2
30	320 9.8	25.2 +- 0.8; 3.8	21.2 +- 0.8; 4.6	18.6 +- 1.6
31	229 8.0	21.3 +- 0.6; 3.2	17.5 +- 0.7; 4.2	16.7 +- 1.1
32	193 15.0	21.2 +- 0.6; 3.2	17.4 +- 0.7; 4.2	18.7 +- 1.7

Transit Dose = 3.2 +- 0.3; 3.0

ZION

For the period 970609-971021

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	14.9 +- 0.9	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	15.9 +- 0.0	1
191.26 - 213.75 SSW	16.2 +- 1.9	4
213.76 - 236.25 SW	18.1 +- 0.9	4
236.26 - 258.75 WSW	15.7 +- 0.0	1
258.76 - 281.25 W	19.4 +- 0.0	1
281.26 - 303.75 WNW	18.2 +- 3.9	2
303.76 - 326.25 NW	17.6 +- 2.8	5
326.26 - 348.75 NNW	16.1 +- 0.6	5

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	15.2 +- 0.8	7
2 - 5	17.8 +- 2.0	10
> 5	17.3 +- 2.0	8
Upwind Control	18.1 +- 0.6	3

NRC TLD DOSES FOR ZION AREA

Miles

Legend

Water
Highways

Railroads
Roads

Plant site

Sites Monitored During the Third Quarter 1997

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. South Texas
21. Fermi	57. St. Lucie
22. FitzPatrick/Nine Mile Point	58. Summer
23. Fort Calhoun	59. Surry
24. Fort St. Vrain	60. Susquehanna
25. Ginna	61. Three Mile Island
26. Grand Gulf	62. Trojan
27. Haddam Neck	63. Turkey Point
28. Harris	64. Vermont Yankee
29. Hatch	65. Vogtle
30. Indian Point	66. Washington Nuclear 2
31. Kewaunee/Point Beach	67. Waterford
32. Lacrosse	68. Watts Bar
33. LaSalle	69. Wolf Creek
34. Limerick	70. Yankee Rowe
35. Maine Yankee	71. Zion
36. McGuire	