
NRC TLD Direct Radiation Monitoring Network

Progress Report
October - December 1987

**U.S. Nuclear Regulatory
Commission**

NRC Region I

R. Struckmeyer, N. McNamara, L. Cohen



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ABSTRACT

This report presents the results of the NRC Direct Radiation Monitoring Network for the fourth quarter of 1987. It provides the ambient radiation levels measured in the vicinity of 75 sites throughout the United States. In addition, it describes the equipment used, monitoring station selection criteria, characterization of the dosimeter response, calibration procedures, statistical methods, intercomparison, and quality assurance program.

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SUMMARY

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 describes the program objectives, scope, and methodology of the monitoring program and presents the radiation levels measured during the fourth quarter of 1987. (Radiation level measurements are made at NRC licensed nuclear facilities under construction, as well as those in operation.) In addition, it describes the equipment used, monitoring station selection criteria, and quality assurance program.

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. The National Bureau of Standards (NBS) 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. NBS 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. Each site is monitored by arranging approximately 30 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.

Appendix A presents the radiation levels measured around the 75 facilities monitored during the Network for the fourth quarter of 1987. There are 72 different sets of dosimeters because, in some instances, two power reactor facilities are monitored by the same set of dosimeters (e.g., Kewaunee and Point Beach). 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 dosimeter 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 include stations which have been deleted, stations for which the TLD was lost during the quarter, or stations for which the TLD was damaged.

Four sets of information 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, and the net exposure normalized to a 90-day quarter (standard quarter). All measurements are listed with their respective random and total uncertainties.

The uncertainties are listed in the following format:

$$X \pm S_x; U_x$$

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

The second set of data summarizes the average net exposure measured in each of the 16 standard windrose sectors (see Table 1) around the facility, normalized to a standard quarter. Also this 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 control dosimeters, the average gross exposures, normalized to a standard quarter, are reported in these sets of data.

The third set of information describes geographic locations of the TLDs around the nuclear power plants. A detailed list of the TLD station locations for each site in the NRC program as of December 31, 1987 is included. Each location is designated by a station number and is completely identified by windrose sector, azimuth and radial distance from the site, and physical description. Specific details of the physical location have been omitted to maintain the security of the stations.

The fourth set of data illustrates the fourth quarter measured dose around a site. Due to the constraints of digitizing the entire monitoring area onto the limited space on the map, some TLD data are not included.

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.

Table 1
Standard Windrose Sectors
Used in Selecting TLD Station Locations

| Sector Name | Azimuth** |
|-------------|-------------------|
| N* | 348.75° - 11.25° |
| NNE | 11.25° - 33.75° |
| NE | 33.75° - 56.25° |
| ENE | 56.25° - 78.75° |
| E | 78.75° - 101.25° |
| ESE | 101.25° - 123.75° |
| SE | 146.25° - 168.75° |
| S | 168.75° - 191.25° |
| SSW | 191.25° - 213.75° |
| SW | 213.75° - 236.25° |
| WSW | 236.25° - 258.75° |
| W | 258.75° - 281.25° |
| WNW | 281.25° - 303.75° |
| NW | 303.75° - 326.25° |
| NNW | 326.75° - 348.75° |

*North (0° and 360°) is defined as True North.

**The principal airborne radioactivity release point (vent or stack) at each site is considered to be the center of a circle. The area of each circle is divided into 16 standard windrose sectors, each of 22.5° arc. These sectors are standardly used in the nuclear power industry to describe direction from a site.

1. INTRODUCTION

The NRC TLD Direct Radiation Monitoring Network was established in August 1979 by the NRC Office of Inspection and Enforcement (IE) to measure ambient radiation levels around NRC licensed facilities and to provide the NRC staff with prompt, independent data in emergency response and assessments. The need for such a Network was identified during the experiences at Three Mile Island (TMI) and subsequent reviews. The Network is a cooperative effort between NRR headquarters, NRC Regional Offices, and participating states. The operation of the program (consisting, in part, of processing badges, shipping and packaging, data processing, and reporting) is the responsibility of the Facilities Radiological Protection Branch, NRC Region I, in King of Prussia, Pennsylvania.

At most sites the TLD badges are exchanged and placed in the field locations by state agencies participating under a cooperative agreement with the NRC. For sites located in nonparticipating states, the field work is performed by individuals under contract to NRC. The dosimeters are exchanged, shipped, and processed in Region I on a quarterly schedule. The program is further described in the TMI Action Plan, Item III.D.2.4(2), NUREG-0660, "Nuclear Action Plan Developed as a Result of the TMI-2 Accident."

After the Three Mile Island accident, the NRC determined that relying solely on licensee estimates of population exposure during an accident situation was unacceptable. NRC decided to develop its own program to provide the data needed to independently assess the radiological impact of an accident. The principal objectives of this program are to:

- (1) Assure uniform treatment of dosimeters with respect to handling, shipping, calibrating, reading, and data processing for all monitored facilities in the United States;
- (2) Establish preoperational, baseline radiation dose levels, whenever possible, for each nuclear power reactor facility;
- (3) Provide ongoing environmental radiation dosimetry data during routine operations;
- (4) Provide post-accident estimates of population exposures;
- (5) Allow for independent verification of the adequacy of NRC licensees' environmental radiation monitoring program; and
- (6) Provide uniform, consistent environmental radiation monitoring data for use by the Congress, Federal and state agencies, the monitored facilities, and the public.

2. DOSIMETER SITE SELECTION CRITERIA

Since the variation in site characteristics is great, the staff endeavored to establish criteria that were as general as possible. The criteria have been used with great flexibility in the actual establishment of dosimetry stations in the field. In each case site data were obtained from information supplied by licensees in their Preliminary and Final Safety Analysis Reports (PSARs and FSARs), U.S. Geological Survey (USGS) topographical maps, Aerial Monitoring System (AMS) data, and state and local maps. Figure 1 illustrates the placement of dosimeters around a typical site.

2.1 TLD Network Stations Within Five Miles of the Plant Site

Around each site, TLD network stations are distributed in two concentric rings outside the licensee owner-controlled property. In each ring, one TLD station is located in each appropriate standard windrose sector. These sectors are defined in Table 1 and are those standardly used in the nuclear power industry. Dosimeter stations are not placed in sectors that consist entirely of open water or in sectors that are unoccupied or inaccessible. The inner ring is located between the licensee owner-controlled boundary and an imaginary circle of two miles radius centered on the site airborne radioactivity release point. The remaining stations are five miles or more from the plant site, as discussed below. One station is located at the nearest residence to the site.

Within five miles, five stations are placed side by side with those of the licensee to allow for independent verification of the licensee's environmental radiation monitoring program.

2.2 TLD Network Stations Beyond Five Miles of the Plant Site

Beyond five miles from the boundary of the owner-controlled area, TLD stations are also established at major population centers and at places of high public interest not already covered by the stations described above. Three stations are also established in a predominantly upwind direction to serve as indication of the ambient radiation levels that are not expected to be influenced by plant operations.

2.3 Emergency TLD Placement

In addition to the locations monitored during normal reactor operations, additional dosimeters would be placed around the site in the event of an incident during which continued releases of radioactive material were expected. The number and locations of such dosimeters would be determined by the anticipated duration and severity of the releases as well as the meteorological conditions prevailing during the incident.

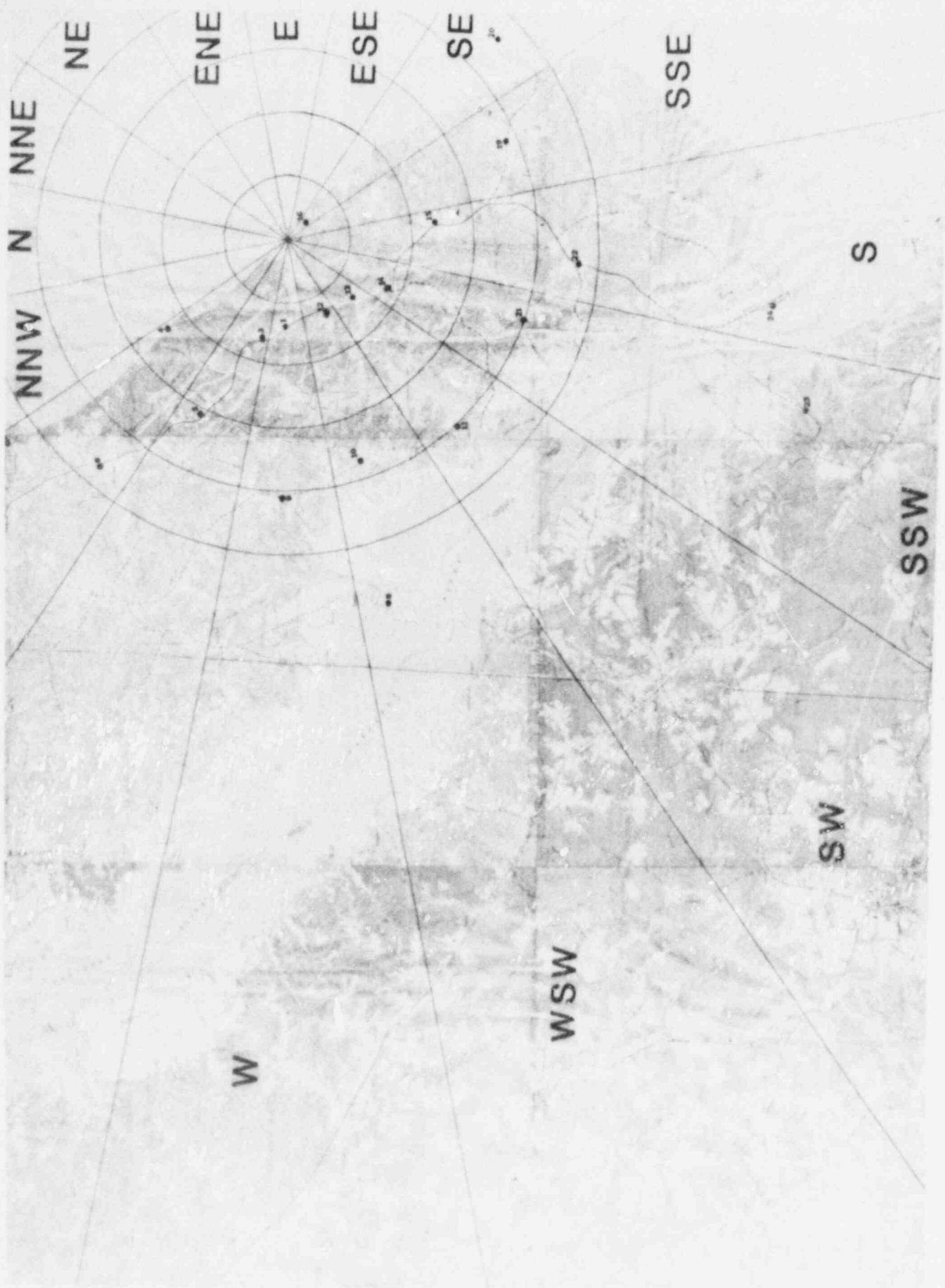


Figure 1 Illustration of Dosimeter Placement

3. EQUIPMENT AND GENERAL PROCEDURES

3.1 Dosimetry System

The NRC TLD program routinely employs the Panasonic* Model UD801 thermoluminescent dosimeter and Model UD 710A automatic dosimeter reader. A Panasonic Model UD 702E manual dosimeter reader is also available and may be taken to a site in the event of an incident which required the processing of dosimeters near the site. The dosimeter has four thermoluminescent elements to measure radiation exposure. It consists of two elements of natural lithium borate activated with copper ($\text{Li}_2\text{B}_4\text{O}_7:\text{Cu}$), and two elements of calcium sulfate activated with thulium ($\text{CaSO}_4:\text{Tm}$). One lithium borate element uses an "open" window of 14 mg/cm^2 to minimize attenuation of beta radiation; the other incorporates a 150 mg/cm^2 plastic filter.

Each of the two calcium sulfate elements in the badge is covered by a 700 mg/cm^2 lead filter to attenuate low-energy photon radiation in a manner that is intended to compensate for the over-response of calcium sulfate in this portion of energy spectrum. The average response of the two calcium sulfate elements is used to determine exposure during routine operations. (See Figure 2.) The energy dependence of the calcium sulfate elements as determined by the National Bureau of Standards (NBS) is shown in Table 3. For further details of the NBS testing, see NUREG/CR-2560, NUREG/CR-3120, and NUREG/CR-3775.

The automatic dosimeter reader consists of a badge transport and insertion mechanism, a heat source, a carbon-14 (C-14) activated reference light source, a light measurement system, and a microprocessor controller. Up to 500 TLD badges may be loaded into 10 magazines of the automatic sample changer that is attached to a reader, or single 50-badge magazines may be loaded manually. The magazine is automatically advanced to admit badges into the reading mechanism. In the mechanism, the dosimeter portion (card) of the badge is withdrawn from the holder. Each phosphor is then heated and its light output measured. When all four phosphors have been read, the card is inserted into the holder, the holder is lowered into the magazine, and the process is repeated for the next badge. (See Figure 3.) The manual dosimeter reader is similar in the reading process but dosimeters are manually inserted into the reader one at a time.

3.2 Field Container

The dosimeter for each station is placed in a moisture-resistant polyester pouch inside a polypropylene mesh cylindrical cartridge approximately 15 cm long and 5 cm in diameter. The thickness of the pouch is approximately 5.5 mg/cm^2 . The cartridge is attached by wire or polyester straps to a relatively permanent structure, usually a utility pole. This container provides physical security with minimum attenuation of photon radiation. It is placed approximately three meters above the ground to minimize vandalism.

*Mention of a specific product in this report does not constitute an endorsement by the U.S. Nuclear Regulatory Commission.

3.3 Exchange Procedures

Prior to shipment, all dosimeters are annealed at the Region I office and packaged for shipment. The packages are then mailed to the contractors, usually representatives of the radiological health department of the state in which the reactor is situated. In some instances, the NRC has contracted with private individuals to exchange the dosimeters.

The contractors receive the packages, travel to the sites, and exchange the dosimeters with those of the previous quarter. The contractors have been provided with lead casks in which they store the control dosimeters during the field period. At the end of the quarter, these control dosimeters are removed from the storage cask and returned by mail with the field dosimeters. The use of control dosimeters to estimate transit exposure is discussed in Section 5.

When returned to the NRC Region I office, the dosimeters are processed, using the automatic TLD reader. They are then recalibrated to establish the current response of the dosimeter and to check for dosimeter response variability.

Table 2
Calcium Sulfate Energy Response

| Panasonic Model UD 801 Dosimeter Response Per Unit Exposure Relative to That For Cesium-137 and Cobalt-60 Gamma Radiation | | |
|---|---|--------------|
| <u>Effective Energy (KeV)</u> | <u>Average (Element 3 + Element 4) Response</u> | |
| | <u>Cs-137</u> | <u>Co-60</u> |
| 38 | 0.39 | 0.45 |
| 70 | 0.80 | 0.92 |
| 117 | 0.54 | 0.63 |
| 167 | 0.70 | 0.81 |
| 210 | 0.79 | 0.90 |
| 662 | 1.00 | 1.14 |
| 1250 | 0.88 | 1.00 |

Conditions: Unidirectional beam of radiation.
Dosimeters mounted in Panasonic dosimeter hangers.

| ANSI N545-1975 Specification: | <u>Energy (keV)</u> | <u>Required Response</u> |
|-------------------------------|---------------------|--------------------------|
| | 80-300 | .80 - 1.20 |
| | <80 | <2 |

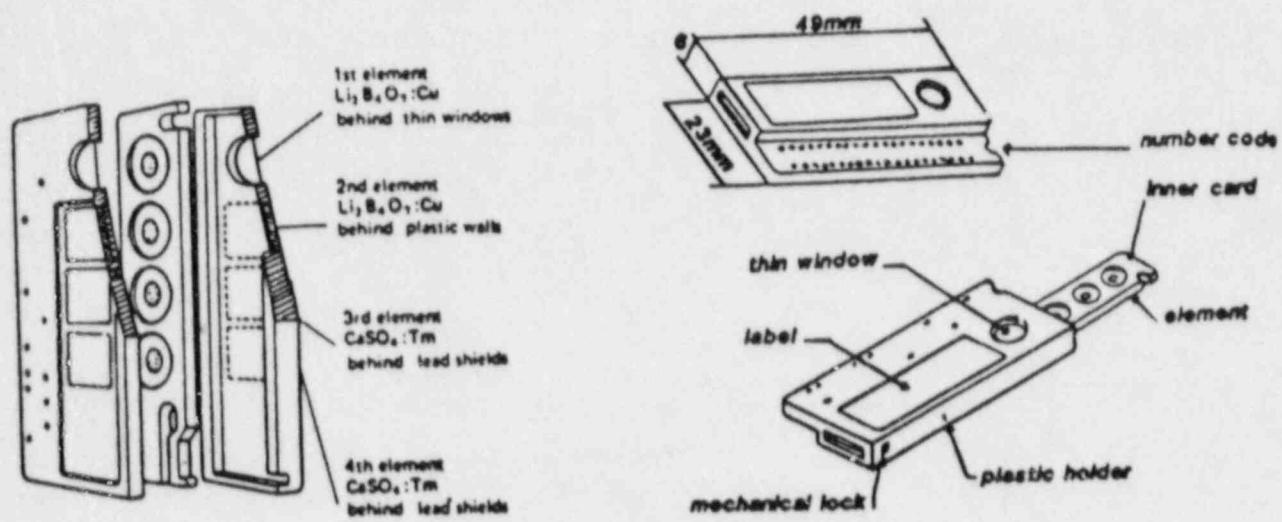


Figure 2 TLD Badge Construction

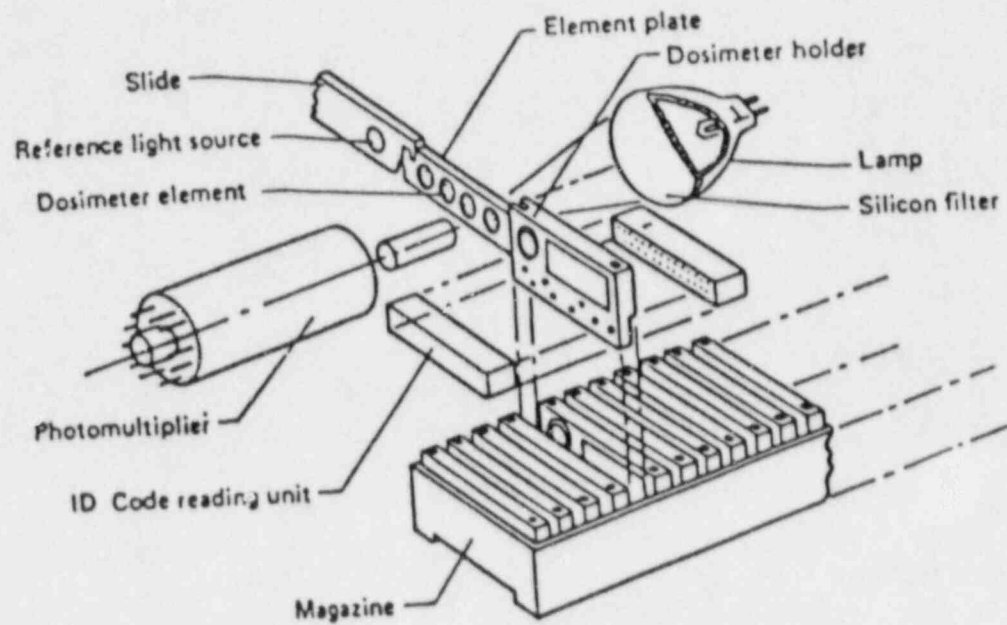


Figure 3 TLD Reader - Reading Method and Construction

4 CALIBRATION

4.1 Facilities

Two calibration facilities are available for use in the program. One facility contains a panoramic irradiator with a 120-cm diameter rotating table. The irradiator has a 120-millicurie cesium-137 gamma radiation source that delivers an approximate 2.3 mR/minute exposure rate at 50 cm from the source. The exposures received by the badges are monitored, using a 33cm³ air ionization chamber and a Victoreen model #550 high-precision electrometer calibrated by and traceable to the National Bureau of Standards. The ionization chamber is placed directly over the TLD badges; the radiation field around the table is uniform within $\pm 3\%$. The exposure period is controlled by the use of a timer accurate to within ± 0.1 seconds. The exposure rate on the table is periodically confirmed by exposing dosimeters provided and read by the National Bureau of Standards.

The NRC TLD program employed the Williston Elin TLD Irradiator (Model WE-2001)** in June 1986. The major components of the WE-2001 are the electronic console including the irradiation timer and the display module, a lead castle which contains the irradiation source (Cs-137), and the magazine rack. Up to 500 TLD badges may be loaded into 10 magazines of the automatic sample changer that is attached to a irradiator. The magazine is automatically advanced to admit TLDs into the irradiation chamber. The WE-2001 irradiator has been calibrated to determine the dose rate from its Cs-137 source. To verify the calibration curve, fifteen TLDs were exposed using the WE-2001 and were sent to the National Bureau of Standards to determine the delivered exposures. The results were in excellent agreement.

4.2 Procedures for Calibrating Dosimeters

During each calibration, each TLD badge is exposed to approximately 45 mR. The irradiated badges are stored for 24 hours before reading to allow for the rapid fading of the low-temperature glow peak of the lithium borate elements. After the badges have been read, the ratio of recorded exposure to delivered exposure is calculated and recorded for each of the four elements of each dosimeter. These element calibration factors are subsequently used to modify the raw element readings to determine exposure. The most recent determination of the element calibration factor is used in the exposure calculation. Furthermore, historical files of calibration factors are being maintained for each element of each dosimeter. These records permit detection of changes or trends in element calibration factors which would indicate either dosimeter or reader variability.

**Mention of a specific product in this report does not constitute an endorsement by the U.S. Nuclear Regulatory Commission.

5. ESTIMATION OF TRANSIT EXPOSURE

Field dosimeters receive exposure both while in transit to and from the placement contractor and while in storage at the contractor's facility, as well as while they are at their monitoring locations. To determine the field exposure, it is necessary to estimate this additional exposure, which is designated transit exposure.

Two control dosimeters are sent to each contractor to estimate the transit exposure. Control #1 remains unshielded, except when stored in the NRC-provided lead cask at the contractor's facility. Control #1 is placed in the shield when the field dosimeters are placed at their monitoring stations, and it is removed when the field dosimeters are collected. At all other times, it is kept with the field dosimeters. This cask provides 2.75 inches of lead shielding. Control #2 is no longer used. Control #3 is used to indicate whether a significant exposure was received by the dosimeters while in transit from the NRC office in King of Prussia, Pennsylvania, to the contractors. It is shipped unshielded with the new batch of dosimeters to the contractor and returned unshielded with the previous quarter's dosimeters. If an unacceptably high transit exposure is detected by this dosimeter as a result of its shipment to the site, a new set of field dosimeters will be sent to the contractor for an early exchange.

The exposure to Control #1 is the sum of the transit exposure and the exposure received while in storage during the quarter. The exposure rate during storage is estimated to be 0.09 ± 0.03 mR per day and is based on previous measurements. For information on how the exposure rate in the cask was previously estimated, refer to Appendix A of NUREG-0837, Volume 2, Number 4. The transit exposure to the field dosimeters is estimated by taking the difference between the exposure measured by Control #1 and the exposure calculated to have been received by Control #1 while in storage in the contractor's lead cask. The storage exposure rate is essentially due only to the cosmic ray component of the local natural background radiation.

Likely sources of transit exposure include shipments of medical and other radioisotopes in the mail, as well as natural terrestrial and cosmic radiation.

A summary of the control dosimeter placement and usage is included in Table 3 of this report.

Table 3

Control Dosimeter Summary

| | Control #1 | Control #3 |
|---|--|---|
| Purpose of Control: | Determination of round trip transit exposure | Determination of one-way transit exposure from NRC to field |
| During shipment to Contractor: | Unshielded, with field dosimeters | Unshielded, with field dosimeters |
| Storage Prior to Field Placement: | Unshielded, with field dosimeters | Unshielded, with field dosimeters |
| Storage During Quarter: | In storage cask | Not stored; returned with field dosimeters previous quarter |
| Storage After Field Exchange (prior to return): | Unshielded, with field dosimeters | In-transit shield with field dosimeters |
| During shipment to NRC | Unshielded, with field dosimeters | In-transit shield with field dosimeters |

6. STATISTICAL METHODS

The total uncertainty of the reported exposures is a combination of the random and systematic components of uncertainty. The random component is primarily the statistical uncertainty in the reading of the TLD elements themselves. Based on repeated known exposures, this uncertainty for the calcium sulfate elements used to determine exposure is estimated to be approximately three percent ($\pm 3\%$ for one standard deviation). There are several systematic components of uncertainty, and include:

| Source of Uncertainty | Value of Parameter | Uncertainty of Parameter |
|--|----------------------------|-----------------------------------|
| Energy-Directional Response | 1.0 | 0.14* |
| Fading | 1.0 | 0.05** |
| Calibration | Element Calibration Factor | 0.03 x Element Calibration Factor |
| Estimate of Storage Shield Exposure Rate | 0.0865 mR/day | 0.0265 mR/Day*** |

*Estimate based on NBS testing of dosimeters.

**Estimate based on NRC measurements of calcium sulfate element fading.

***Estimate reflects observed variation of past measurement of storage exposure rate.

These uncertainties are propagated according to established statistical methods for propagation of uncertainty. Since one component of the systematic uncertainty is greater than one-third the sum of all the components, the overall uncertainty was calculated by taking the square root of the sum of the variances of all the components. This is in accordance with U.S. Environmental Protection Agency (EPA) recommendations contained in "Upgrading Environmental Radiation Data" - Health Physics Society Committee Report HPSR-1, 1980. The uncertainty of the adjusted exposure is determined by combining the uncertainties of the gross and transit exposures.

The uncertainties are listed in the following format:

$$X \pm S_x; U_x$$

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

Example of Uncertainty Estimation

Assumptions: Gross Field Exposure = 25 mR
Control 1 Exposure = 10 mR
Time in Field = 90 days

A. Gross Field Exposure Uncertainty

$$\text{Random Uncertainty} = (25 \text{ mR})(0.03) = 0.75 \text{ mR}$$

Systematic Uncertainty:

$$\text{Calibration} = (25 \text{ mR})(0.03) = 0.75 \text{ mR}$$

$$\text{Fading} = (25 \text{ mR})(0.05) = 1.25 \text{ mR}$$

$$\text{Energy-Directional Dependence} = (25 \text{ mR})(0.14) = 3.50 \text{ mR}$$

$$\text{Total Uncertainty} = [(0.75)^2 + (1.25)^2 + (3.50)^2]^{1/2} = 3.86 \text{ mR}$$

$$\text{Gross Field Exposure} = 25 \pm 0.8 ; 3.9 \text{ mR}$$

B. Control 1 Exposure Uncertainty

$$\text{Random Uncertainty} = (10 \text{ mR})(0.03) = 0.30 \text{ mR}$$

Systematic Uncertainty:

$$\text{Calibration} = (10 \text{ mR})(0.03) = 0.30 \text{ mR}$$

$$\text{Fading} = (10 \text{ mR})(0.05) = 0.50 \text{ mR}$$

$$\text{Energy-Directional Dependence} = (10 \text{ mR})(0.14) = 1.40 \text{ mR}$$

$$\text{Total Uncertainty} = 1.55 \text{ mR}$$

$$\text{Control 1 Exposure} = 10 \pm 0.3 ; 1.6 \text{ mR}$$

C. Transit Exposure Uncertainty

The uncertainty of the transit exposure is determined by combining the uncertainty of the Control 1 measurement with the uncertainty of the storage exposure.

$$\text{Storage Exposure} = (90 \text{ days})(0.0865 \text{ mR/day}) = 7.78 \text{ mR}$$

$$\text{Storage Exposure Uncertainty} = (90 \text{ days})(0.0265 \text{ mR/day}) = 2.38 \text{ mR}$$

This uncertainty is treated as a systematic uncertainty. The transit exposure is estimated as the difference between the Control 1 measured exposure and the estimated storage exposure. The uncertainty is determined by combining their associated uncertainties.

$$\text{Transit Exposure} = (10 \text{ mR}) - (7.8 \text{ mR}) = 2.2 \text{ mR}$$

$$\text{Systematic Uncertainty of Transit Exposure} = 2.82 \text{ mR}$$

$$\text{Transit Exposure} = 2.2 \pm 0.3 ; 2.8 \text{ mR}$$

D. Net Field Exposure Uncertainty

The net field exposure is the difference between the gross field exposure and the transit exposure. The uncertainty is determined by combining the associated uncertainties.

$$\text{Net Field Exposure} = (25 \text{ mR}) - (2.2 \text{ mR}) = 22.8 \text{ mR}$$

$$\text{Random Uncertainty} = 0.9 \text{ mR}$$

$$\text{Systematic Uncertainty} = 4.7 \text{ mR}$$

$$\text{Net Field Exposure} = 22.8 \pm 0.9 ; 4.7 \text{ mR}$$

If the time had not been 90 days, the net field exposure and its associated uncertainties would be adjusted and reported as exposure per 90 days.

7. QUALITY ASSURANCE PROGRAM

The NRC TLD Quality Assurance (QA) program consists of the planned and systematic actions necessary to provide adequate confidence in the accuracy and precision of the measurements obtained through the NRC TLD Direct Radiation Monitoring Network. These measurements utilize instrumentation located in the Region I Dosimetry Laboratory. The QA program for these measurements has been established in order to:

- (1) Provide a means of relating the results of the measurements to the U.S. National Bureau of Standard (NBS), whenever possible;
- (2) Obtain a measure of confidence in the accuracy and precision of the data; and
- (3) Identify any deficiencies in monitoring and analyses so that corrective actions can be taken.

The following sections describe the procedures for ensuring the quality of proper measurements.

7.1 Dosimeter Quality Control

Before dosimeters are placed into service, they must pass the following tests:

7.1.1 Visual Inspection

Badges are visually inspected to ensure that the elements are of the correct type and have the right filtration.

7.1.2 Identification Number and Dosimeter Type

Dosimeters are read by the TLD reader and the badge identification numbers reported on the TLD reader output are compared with the corresponding numbers on the badge labels. Any deviations are corrected prior to dosimeter calibration or use.

7.1.3 Element Calibration Factors

Element calibration factors (see section 4 of this report) are determined for all dosimeters prior to their being placed into service. No dosimeter is used which has an element calibration factor less than 0.5.

7.2 Reader Quality Control

The calibration of the TLD reader is verified after any significant servicing or maintenance. In addition, a Quality Control (QC) check is routinely performed on the reader to determine system trends, to apply corrections as necessary, and to ensure that the system is operational. The WE-2001 irradiator described in Section 4.1 is used to irradiate each dosimeter element. These dosimeters were previously calibrated with a cesium-137 source (the panoramic irradiator described in Section 4.1) to establish their element correction factors. In addition, the following system parameters are measured and printed by the reader.

7.2.1 Sensitivity Correction Factor

Prior to reading a rack of 50 dosimeters, the TLD reader determines the sensitivity correction factor. This factor is the ratio of the mean of 10 reference light source measurements to a constant reference reading. This factor is automatically applied by the reader to all badge readings to correct for changes in light transmission through the reader's optics. The reader will not operate if this factor is greater than 1.1 or less than 0.9.

7.2.2 Dark Counts

The dark count (from electronic noise, light leaks, thermionic emissions) is measured by the reader before it reads each badge. The dark count is usually less than five counts. The reader will not operate if the measured dark count is greater than 20 counts.

7.3 Quality Assurance Audits

The NRC TLD Direct Radiation Monitoring Network is monitored on a regular basis by the NRC Region I Radiation Dosimetry Specialist. In addition to this continuing evaluation, the program will be audited by a member of management designated by the Region I Administrator. This audit ensures that all operations, maintenance, calibration, and quality control activities are being performed in accordance with approved procedures. The results of these audits will be documented and reported to the Region I Regional Administrator. Deficiencies identified will be resolved as soon as practicable and the Region I Regional Administrator is informed of their resolution.

8. INTERCOMPARISON

8.1 Description

The 8th International Intercomparison of Environmental Dosimeters was performed by the Environmental Measurements Laboratory (EML) of the Department of Energy in New York City, New York in 1986. One hundred and sixty-nine (169) foreign and domestic dosimetry laboratories participated in this study including the NRC TLD Laboratory.

The EML exposed dosimeters to (1) Field Site #1, (2) Field Site #2, and (3) a Cs-137 source. Those exposed dosimeters were then distributed to all participants to determine the net exposure.

The NRC TLD Laboratory read its exposed dosimeters (TLDs). The element calibration factors (ECF; $ECF = \text{known exposure/TLD reading}$) of those TLDs were then determined using a Cs-137 source. The net exposure was calculated by applying the ECF correction and subtracting the transit exposure.

8.2 Results

| Exposure Category | EML | NRC (Mean \pm S.D) | all Participants (Mean \pm S.D.) |
|-------------------------------|-------------------|-------------------------|---------------------------------------|
| Field Site 1 | 29.7 \pm 1.5 mR | 29.0 \pm 1.0 mR | 28.9 \pm 6.2 mR |
| Field Site 2 | 10.4 \pm 0.5 mR | 10.1 \pm 0.5 mR | 10.1 \pm 4.5 mR |
| Laboratory (Cs-137 Source) | 17.2 \pm 0.9 mR | 16.3 \pm 0.5 mR | 16.2 \pm 3.4 mR |

8.3 Discussion

The NRC's results of exposure to all categories are in excellent agreement with the EML.

9. SUMMARY OF OPERATING EXPERIENCES

Since the inception of this program, many problems common to environmental monitoring programs have been experienced. Many of the problems were associated with the field sampling. Environmental monitoring devices are vulnerable to vandalism and mischief. The manner in which NRC TLDs are packaged and installed was designed to protect the dosimeter from the elements and curious individuals. NRC TLD dosimeters have been vandalized, shot, melted in a forest fire, and stolen. The recovery rate (that is, the percentage of return) has averaged approximately 95% which has been acceptable, considering the nature and scope of the program.

Table 4 lists all licensed facilities included in the Network as of December 31, 1987.

The equipment and procedures used by the NRC TLD Direct Radiation Monitoring Network generally satisfied the requirements of the program for 1987. The NRC environmental radiation data base for the monitored sites became larger and more accurate. In the future, the NRC is planning to make use of the upwind control dosimeters and the expanding data base to evaluate possible plant contribution to the local radiation levels or to estimate the upper limit of such contributions, if no statistically significant contributions are measured.

Table 4

Sites Monitored During
Fourth Quarter, 1987

| | | | |
|-----|-----------------------------|-----|----------------------|
| 1. | Arkansas Nuclear One | 37. | Millstone |
| 2. | Bear River 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. | D. C. Cook | 49. | Rancho Seco |
| 14. | Cooper | 50. | River Bend |
| 15. | Crystal River | 51. | Robinson |
| 16. | Davis-Besse | 52. | St. Lucie |
| 17. | Diablo Canyon | 53. | Salem/Hope Creek |
| 18. | Dresden | 54. | San Onofre |
| 19. | Duane Arnold | 55. | Seabrook |
| 20. | Farley | 56. | Sequoyah |
| 21. | Fermi | 57. | Shoreham |
| 22. | FitzPatrick/Nine Mile Point | 58. | South Texas |
| 23. | Fort Calhoun | 59. | Summer |
| 24. | Fort St. Vrain | 60. | Surry |
| 25. | Ginna | 61. | Susquehanna |
| 26. | Grand Gulf | 62. | Three Mile Island |
| 27. | Haddam Neck | 63. | Trojan |
| 28. | Harris | 64. | Turkey Point |
| 29. | Hatch | 65. | Vermont Yankee |
| 30. | Indian Point | 66. | Vogtle |
| 31. | Kewaunee/Point Beach | 67. | Washington Nuclear 2 |
| 32. | Lacrosse | 68. | Waterford |
| 33. | LaSalle | 69. | Watts Barr |
| 34. | Limerick | 70. | Wolf Creek |
| 35. | Maine Yankee | 71. | Yankee Rowe |
| 36. | McGuire | 72. | Zion |

APPENDIX A
ENVIRONMENTAL DIRECT RADIATION MONITORING DATA FOR
NRC-LICENSED NUCLEAR POWER REACTORS

ARKANSAS
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870915-880202 141 DAYS
 FIELD TIME 109 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE(mR) | | NET EXPOSURE RATE | |
|----------------|-------------------|---------------|-----------------------|------|-----------------------|------|
| | AZINLTH (deg.) | DIST (mi.) | + Rdm | Tot. | mR/Std. Qtr. + Rdm | Tot. |
| 001 | | 4 | 0.4 | 0.4 | 0.4 | 0.4 |
| 002 | 35 | 3 | 4.1 | 4.1 | 4.1 | 4.1 |
| 003 | | 32 | 1.1 | 1.1 | 1.1 | 1.1 |
| 004 | | 13 | 0.0 | 0.0 | 0.0 | 0.0 |
| 005 | | 5 | 0.0 | 0.0 | 0.0 | 0.0 |
| 006 | | 7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 007 | | 6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 008 | | 6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 009 | | 6 | 0.0 | 0.0 | 0.0 | 0.0 |
| 010 | | 2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 011 | 12 | 2 | 1.1 | 1.1 | 1.1 | 1.1 |
| 012 | 18 | 2 | 0.0 | 0.0 | 0.0 | 0.0 |
| 013 | 13 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 014 | 13 | 0 | 4.4 | 4.4 | 4.4 | 4.4 |
| 016 | 11 | 7 | 4.4 | 4.4 | 4.4 | 4.4 |
| 017 | 11 | 1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 018 | 11 | 1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 019 | 12 | 1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 020 | 11 | 1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 021 | 11 | 1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 022 | 11 | 1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 023 | 11 | 1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 024 | 11 | 4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 025 | 11 | 4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 026 | 11 | 4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 027 | 11 | 4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 028 | 11 | 4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 029 | 11 | 4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 030 | 11 | 4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 031 | 11 | 4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 032 | 11 | 4 | 0.0 | 0.0 | 0.0 | 0.0 |
| 033 | 11 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 039 | 11 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 040 | 14 | 7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 041 | 18 | 7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 042 | 31 | 10 | 0.0 | 0.0 | 0.0 | 0.0 |
| 043 | 18 | 10 | 0.0 | 0.0 | 0.0 | 0.0 |
| 044 | 31 | 10 | 0.0 | 0.0 | 0.0 | 0.0 |
| 045 | 4 | 7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 046 | 11 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 047 | 20 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 048 | 17 | 9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 049 | 15 | 0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TRANSIT DOSE = | 2.3 | + | 0.0 | 0.0 | 0.0 | 0.0 |

ING OR DAMAGED DOSIMETER

ARKANSAS
FOR THE PERIOD 870915-880202

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 16.2 \pm .1 | 2 |
| 11.25-33.75 (NNE) | 16.6 \pm .5 | 2 |
| 33.75-56.25 (NE) | 15.7 \pm 1.1 | 3 |
| 56.25-78.75 (ENE) | 17.8 \pm .7 | 2 |
| 78.75-101.25 (E) | 17.8 \pm 1.8 | 2 |
| 101.25-123.75 (ESE) | 16.8 \pm .8 | 6 |
| 123.75-146.25 (SE) | 15.9 \pm .4 | 2 |
| 146.25-168.75 (SSE) | 17.1 \pm .1 | 2 |
| 168.75-191.25 (S) | 17.2 \pm .6 | 2 |
| 191.25-213.75 (SSW) | 14.8 \pm .1 | 2 |
| 213.75-236.25 (SW) | 17.5 \pm 1.8 | 2 |
| 236.25-258.75 (WSW) | 15.1 \pm .7 | 2 |
| 258.75-281.25 (W) | 17.7 \pm 1.0 | 2 |
| 281.25-303.75 (WNW) | 16.7 \pm 1.7 | 2 |
| 303.75-326.25 (NW) | 16.1 \pm 1.3 | 4 |
| 326.25-348.75 (NNW) | 16.8 \pm 1.7 | 2 |
| | | |

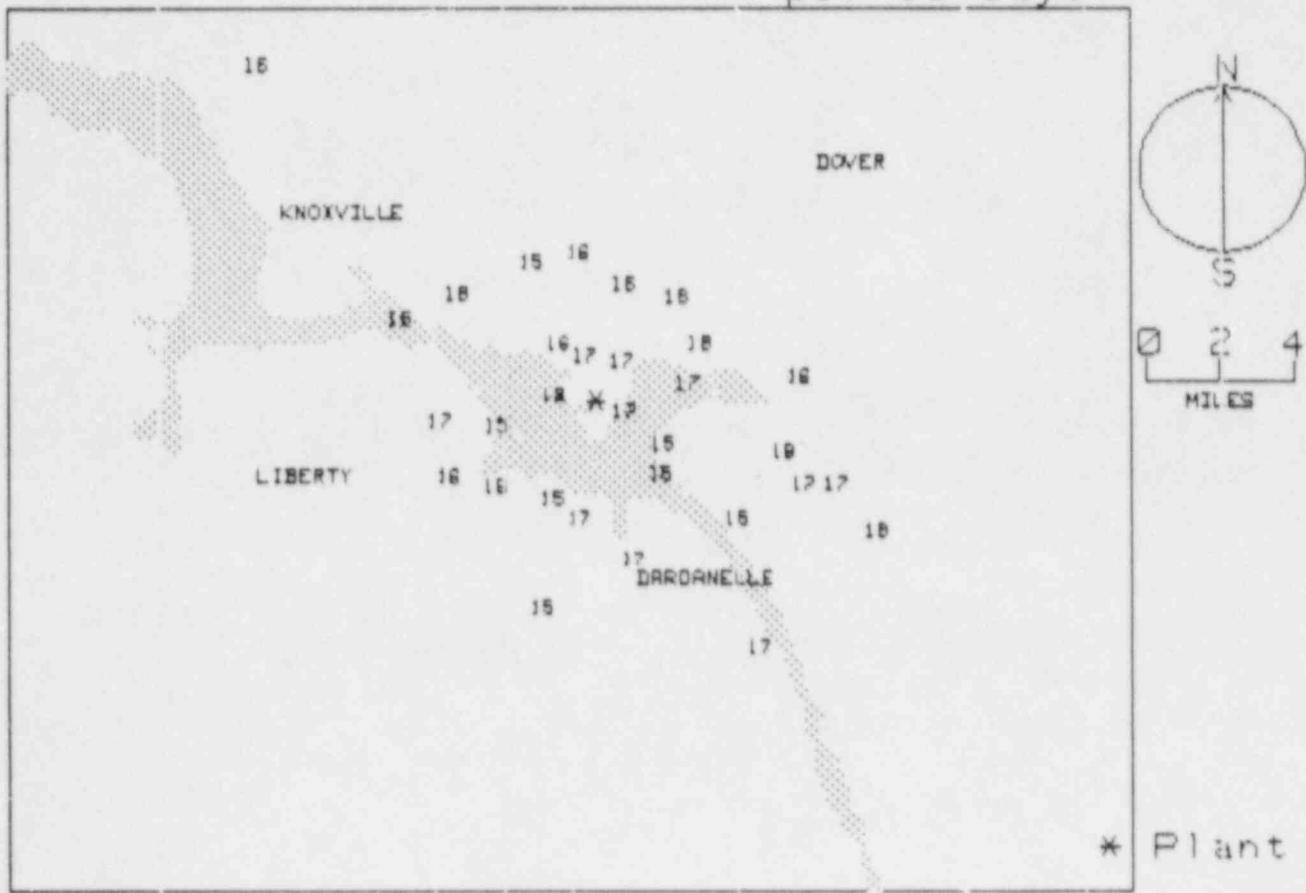
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 17.4 \pm 1.0 | 11 |
| 2-5 | 16.3 \pm 1.0 | 17 |
| >5 | 16.1 \pm 1.1 | 11 |
| UPWIND CONTROL DATA | 16.5 \pm .6 | 2 |

ARKANSAS

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|-----------------------------|
| 1 | .4 | 4 | S. OF HERSHEL BENNETT HOME |
| 2 | 4.1 | 353 | E. PT. CHURCH |
| 3 | 1.3 | 32 | N. OF U.S. 64 |
| 4 | 3.3 | 13 | N. OF FARM RD. |
| 5 | 1.5 | 53 | U.S. 64 & FARM RD. |
| 6 | 3.6 | 37 | MAP COORDINATE 522 |
| 7 | 2.5 | 78 | MISSION CEMETERY |
| 8 | 3.2 | 60 | COORDINATE 477 |
| 9 | .5 | 92 | METEOR. TOWER |
| 10 | 5.5 | 83 | COORDINATE 356 |
| 11 | 2.1 | 122 | COORDINATE 354 |
| 12 | 6.8 | 109 | AP&L (RUSSELLVILLE) |
| 13 | 2.6 | 138 | COORDINATE 372 |
| 14 | 4.9 | 130 | SKYLINE DR. |
| 16 | 4.4 | 167 | HWY. 22 & LITTLE HAYES CR. |
| 17 | .4 | 171 | MAY CEMETERY |
| 18 | 3.2 | 189 | HWY. 22 |
| 19 | 2.9 | 205 | HWY. 22 |
| 20 | 5.8 | 195 | SUNSET PT. |
| 21 | .5 | 235 | AP&L LODGE |
| 22 | 3.6 | 230 | HWY. 22 |
| 23 | 2.8 | 257 | PLEDGER CEMETERY |
| 24 | 4.5 | 243 | DELAWARE |
| 25 | 1.2 | 279 | SHALE PT. |
| 26 | 4.3 | 263 | RD. TO RIVER MTN. |
| 27 | .4 | 298 | SWAN CEMETERY |
| 28 | 5.8 | 293 | PINEY |
| 29 | 1.9 | 326 | LONDON |
| 30 | 4.8 | 308 | COORDINATE 621 |
| 31 | 1.3 | 345 | HWY. 64 |
| 32 | 4.2 | 335 | MARTIN CHAPEL |
| 33 | .8 | 110 | HOME OF D. W. DOUGLAS |
| 39 | 6.0 | 112 | RUSSELLVILLE HIGH SCHOOL |
| 40 | 8.0 | 147 | DARDANELL HIGH SCHOOL |
| 41 | 17.0 | 106 | ATKINS |
| 42 | 17.0 | 310 | CLARKSVILLE |
| 43 | 5.2 | 105 | POLYTECHNIC COLLEGE |
| 44 | 13.0 | 315 | LAMAR ELEMENTARY SCHOOL |
| 45 | 8.9 | 47 | DOVER HIGH SCHOOL |
| 46 | 8.3 | 115 | RUSSELLVILLE AIRPORT |
| 47 | 20.0 | 200 | DANVILLE UTILITY SUBSTATION |
| 48 | 19.0 | 179 | POST OFFICE |
| 49 | 22.0 | 150 | PERRY CASA HIGH SCHOOL |

NRC TLD DOSES FOR ARKANSAS AREA (mR per 90 days)



BEAVER VALLEY
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870918-880125 130 DAYS
 FIELD TIME 92 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|-------------|----------------|------------|---------------------|--------|-------------------|-------------|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | + Tot. | mR/Std. Dtr. | + Rdm; Tot. |
| 001 | 344 | 16. | 0.00 | 0.00 | 0.00 | 0.00 |
| 002 | 006 | 13. | 0.00 | 0.00 | 0.00 | 0.00 |
| 004 | 31 | 12. | 0.00 | 0.00 | 0.00 | 0.00 |
| 005 | 55 | 8.4 | 0.00 | 0.00 | 0.00 | 0.00 |
| 006 | 60 | 9.5 | 0.00 | 0.00 | 0.00 | 0.00 |
| 007 | 357 | 8.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| 008 | 110 | 4.3 | 0.00 | 0.00 | 0.00 | 0.00 |
| 009 | 110 | 2.2 | 0.00 | 0.00 | 0.00 | 0.00 |
| 010 | 91 | 2.4 | 0.00 | 0.00 | 0.00 | 0.00 |
| 011 | 77 | 3.7 | 0.00 | 0.00 | 0.00 | 0.00 |
| 012 | 153 | 4.2 | 0.00 | 0.00 | 0.00 | 0.00 |
| 013 | 170 | 4.4 | 0.00 | 0.00 | 0.00 | 0.00 |
| 014 | 190 | 4.4 | 0.00 | 0.00 | 0.00 | 0.00 |
| 015 | 200 | 3.5 | 0.00 | 0.00 | 0.00 | 0.00 |
| 016 | 204 | 6.6 | 0.00 | 0.00 | 0.00 | 0.00 |
| 017 | 208 | 7.0 | 0.00 | 0.00 | 0.00 | 0.00 |
| 018 | 212 | 3.2 | 0.00 | 0.00 | 0.00 | 0.00 |
| 019 | 214 | 4.4 | 0.00 | 0.00 | 0.00 | 0.00 |
| 020 | 214 | 4.4 | 0.00 | 0.00 | 0.00 | 0.00 |
| 021 | 215 | 6.6 | 0.00 | 0.00 | 0.00 | 0.00 |
| 022 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 023 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 024 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 025 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 026 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 027 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 028 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 029 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 030 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 031 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 032 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 033 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 034 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 035 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 036 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 037 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 038 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 039 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 040 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 041 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 042 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 043 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 044 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 045 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 046 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 047 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 048 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 049 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 050 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 051 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 052 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 053 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 054 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 055 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 056 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 057 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 058 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 059 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 060 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 061 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 062 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 063 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 064 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 065 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 066 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 067 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 068 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 069 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 070 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 071 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 072 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 073 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 074 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 075 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 076 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 077 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 078 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 079 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 080 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 081 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 082 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 083 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 084 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 085 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 086 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 087 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 088 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 089 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 090 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 091 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 092 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 093 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 094 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 095 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 096 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 097 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 098 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 099 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100 | 216 | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 |

BEAVER VALLEY
FOR THE PERIOD 870918-880125

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 21.0 \pm 2.0 | 4 |
| 11.25-33.75 (NNE) | 20.5 \pm 2.0 | 3 |
| 33.75-56.25 (NE) | 19.9 \pm 1.4 | 3 |
| 56.25-78.75 (ENE) | 19.1 \pm 1.2 | 3 |
| 78.75-101.25 (E) | 21.3 \pm 1.1 | 2 |
| 101.25-123.75 (ESE) | 18.4 \pm .1 | 2 |
| 123.75-146.25 (SE) | 19.8 \pm 0.0 | 1 |
| 146.25-168.75 (SSE) | 20.8 \pm 0.0 | 1 |
| 168.75-191.25 (S) | 18.6 \pm 1.2 | 4 |
| 191.25-213.75 (SSW) | 19.6 \pm .2 | 2 |
| 213.75-236.25 (SW) | 18.4 \pm .2 | 2 |
| 236.25-258.75 (WSW) | 21.0 \pm 0.0 | 1 |
| 258.75-281.25 (W) | 19.3 \pm 1.5 | 3 |
| 281.25-303.75 (WNW) | 19.7 \pm .4 | 2 |
| 303.75-326.25 (NW) | 20.5 \pm 3.0 | 2 |
| 326.25-348.75 (NNW) | 19.9 \pm .1 | 2 |
| | | |

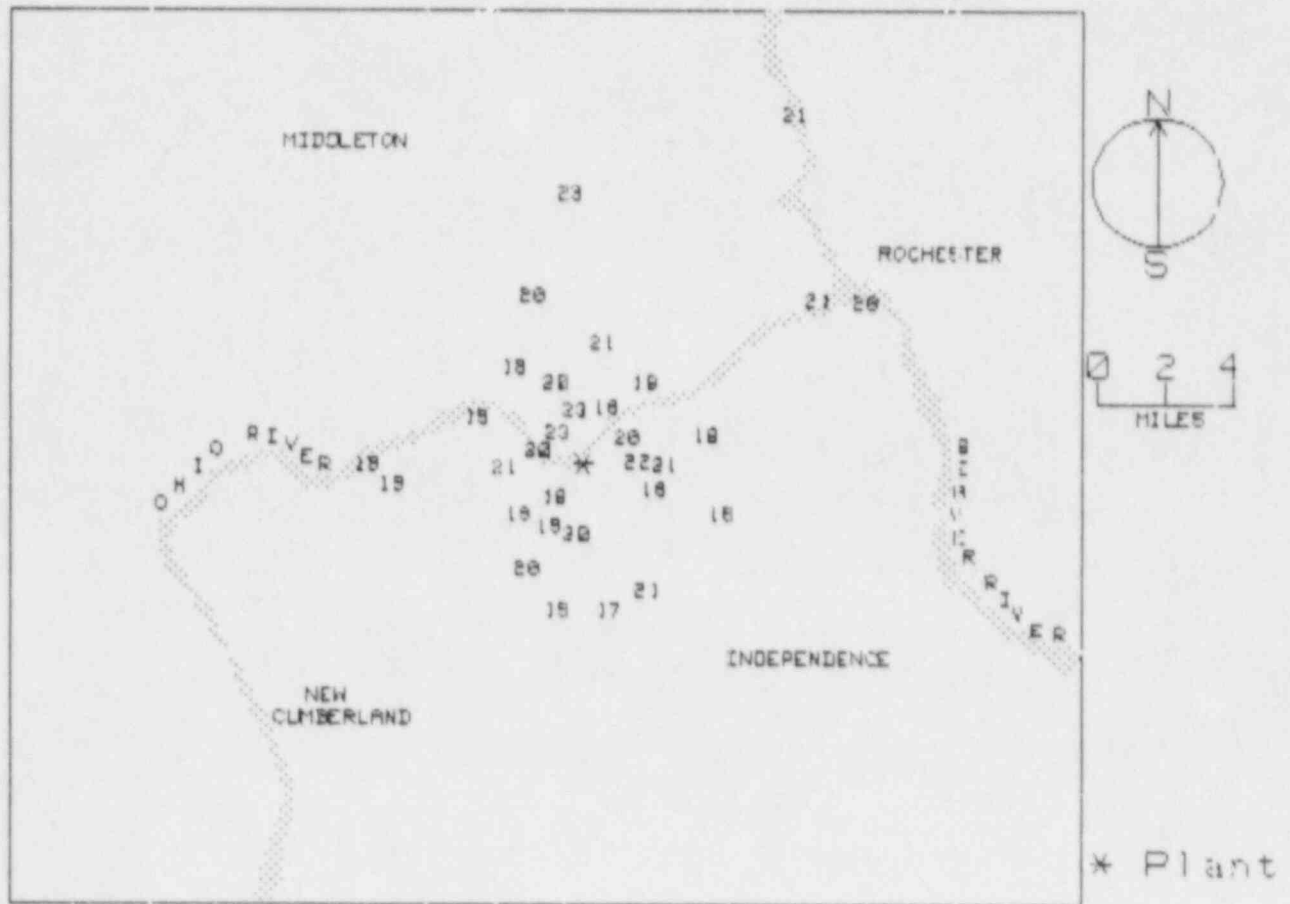
| DISTANCE (mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|--------------------------------|---|------------|
| 3-2 | 20.4 \pm 1.8 | 9 |
| 2-5 | 19.5 \pm 1.4 | 20 |
| >5 | 19.9 \pm 1.5 | 6 |
| UPWIND CONTROL DATA | 16.1 \pm 2.3 | 3 |

BEAVER VALLEY

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|------------------------|
| 1 | 16.0 | 344 | EAST PALESTINE ,OHIO |
| 2 | 13.0 | 6 | DARLINGTON |
| 4 | 12.0 | 31 | BEAVER FALLS |
| 5 | 8.4 | 55 | BEAVER |
| 6 | 9.5 | 60 | MONACA |
| 7 | 8.0 | 357 | ALIQIPPA |
| 8 | 4.3 | 110 | GREEN GARDEN ROAD |
| 9 | 2.2 | 110 | ROUTE 18 |
| 10 | 2.4 | 91 | ROUTE 18 |
| 11 | 3.7 | 77 | ROUTE 18 |
| 12 | 4.2 | 153 | ROUTE 18 |
| 13 | 4.4 | 170 | ROUTE 151 |
| 14 | 4.4 | 190 | ROUTE 30 |
| 15 | 3.5 | 208 | ROUTE 30 |
| 16 | 5.6 | 264 | ROUTE 30 |
| 17 | 6.3 | 270 | CHESTER, WEST VIRGINIA |
| 18 | 2.4 | 232 | HOOKESTOWN |
| 19 | 2.3 | 267 | HILL ROAD |
| 20 | 3.4 | 294 | GEORGETOWN |
| 21 | 1.4 | 286 | RIVER OPPOSITE MIDLAND |
| 22 | 1.3 | 220 | ROUTE 168 (FARM) |
| 23 | 2.3 | 255 | HILL ROAD |
| 24 | 2.1 | 209 | MC CLEARY ROAD |
| 25 | 2.1 | 186 | MC CLEARY ROAD |
| 26 | 2.2 | 190 | MC CLEARY ROAD |
| 27 | 2.0 | 125 | MC CLEARY ROAD |
| 28 | 1.6 | 87 | GREEN GARDEN ROAD |
| 29 | 1.5 | 59 | GREEN GARDEN ROAD |
| 30 | 1.2 | 50 | SHIPPINGPORT |
| 31 | 1.2 | 320 | MIDLAND |
| 32 | 3.5 | 325 | ROUTE 168 |
| 33 | 2.5 | 341 | EASTWOOD DRIVE |
| 34 | 5.2 | 343 | FAIRVIEW |
| 35 | 3.6 | 9 | ENGLE ROAD |
| 36 | 3.3 | 14 | ENGLE ROAD |
| 37 | 3.0 | 37 | OHIOVIEW |
| 38 | 1.0 | 22 | INDUSTRY |
| 39 | 1.6 | 351 | NORTH OF MIDLAND |
| 40 | 16.0 | 344 | EAST PALESTINE,OHIO |
| 41 | 16.0 | 344 | EAST PALESTINE,OHIO |

NRC TLD DOSES FOR BEAVER VALLEY AREA
(mR per 90 days)



BIG ROCK
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870915-880127 135 DAYS
 FIELD TIME 94 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE(mR) | | NET EXPOSURE RATE | |
|--------------------------|-------------------|---------------|-----------------------|------|-----------------------|------|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | Tot. | mR/Std. Qtr. + Rdm | Tot. |
| 001 | 208 | 4.9 | 21.5 | 1.6 | 12.3 | 7.7 |
| 002 | 220 | 3.6 | 21.6 | 1.6 | 12.4 | 7.7 |
| 003 | 204 | 2.4 | 20.8 | 1.6 | 11.6 | 7.7 |
| 004 | 176 | 3.3 | 21.2 | 1.6 | 12.0 | 7.7 |
| 005 | 161 | 4.6 | 21.4 | 1.6 | 12.2 | 7.7 |
| 006 | 133 | 4.7 | 23.4 | 1.7 | 14.1 | 9.4 |
| 007 | 116 | 3.7 | 23.7 | 1.7 | 14.4 | 9.4 |
| 008 | 111 | 4.7 | 24.2 | 1.7 | 14.0 | 9.4 |
| 009 | 98 | 4.5 | 23.1 | 1.7 | 13.0 | 9.4 |
| 010 | 88/ | 12. | 20.6 | 1.6 | 11.4 | 7.7 |
| 011 | 83/ | 16. | 23.4 | 1.7 | 14.1 | 9.4 |
| 012 | 83/ | 16. | 21.4 | 1.6 | 12.2 | 7.7 |
| 013 | 83/ | 16. | 20.6 | 1.6 | 11.4 | 7.7 |
| 014 | 77 | 3.4 | 21.6 | 1.6 | 12.4 | 7.7 |
| 015 | 95 | 1.0 | 24.1 | 1.7 | 14.7 | 9.4 |
| 016 | 118 | 2.0 | 23.0 | 1.7 | 13.7 | 9.4 |
| 017 | 134 | 2.0 | 23.4 | 1.7 | 14.1 | 9.4 |
| 018 | 222 | 1.9 | 18.0 | 1.6 | 9.0 | 7.7 |
| 019 | 194 | 1.4 | 24.0 | 1.7 | 15.0 | 9.4 |
| 020 | 179 | 1.5 | 21.9 | 1.7 | 12.9 | 7.7 |
| 021 | 153 | 1.1 | 24.1 | 1.7 | 14.7 | 9.4 |
| TRANSIT DOSE = 8.6 +- .5 | | | ; 6.0 | | | |

SIG ROCK
FOR THE PERIOD 870915-880127

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) +-Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | NO DATA+-NO DATA | 0 |
| 11.25-33.75 (NNE) | NO DATA+-NO DATA | 0 |
| 33.75-56.25 (NE) | NO DATA+-NO DATA | 0 |
| 56.25-78.75 (ENE) | 12.4 +- 0.0 | 1 |
| 78.75-101.25 (E) | 13.3 +- 1.7 | 3 |
| 101.25-123.75 (ESE) | 14.3 +- .6 | 3 |
| 123.75-146.25 (SE) | 14.1 +- .0 | 2 |
| 146.25-168.75 (SSE) | 13.5 +- 1.8 | 2 |
| 168.75-191.25 (S) | 12.3 +- .5 | 2 |
| 191.25-213.75 (SSW) | 13.1 +- 2.1 | 3 |
| 213.75-236.25 (SW) | 11.1 +- 1.9 | 2 |
| 236.25-258.75 (WSW) | NO DATA+-NO DATA | 0 |
| 258.75-281.25 (W) | NO DATA+-NO DATA | 0 |
| 281.25-303.75 (WNW) | NO DATA+-NO DATA | 0 |
| 303.75-326.25 (NW) | NO DATA+-NO DATA | 0 |
| 326.25-348.75 (NNW) | NO DATA+-NO DATA | 0 |
| | | |

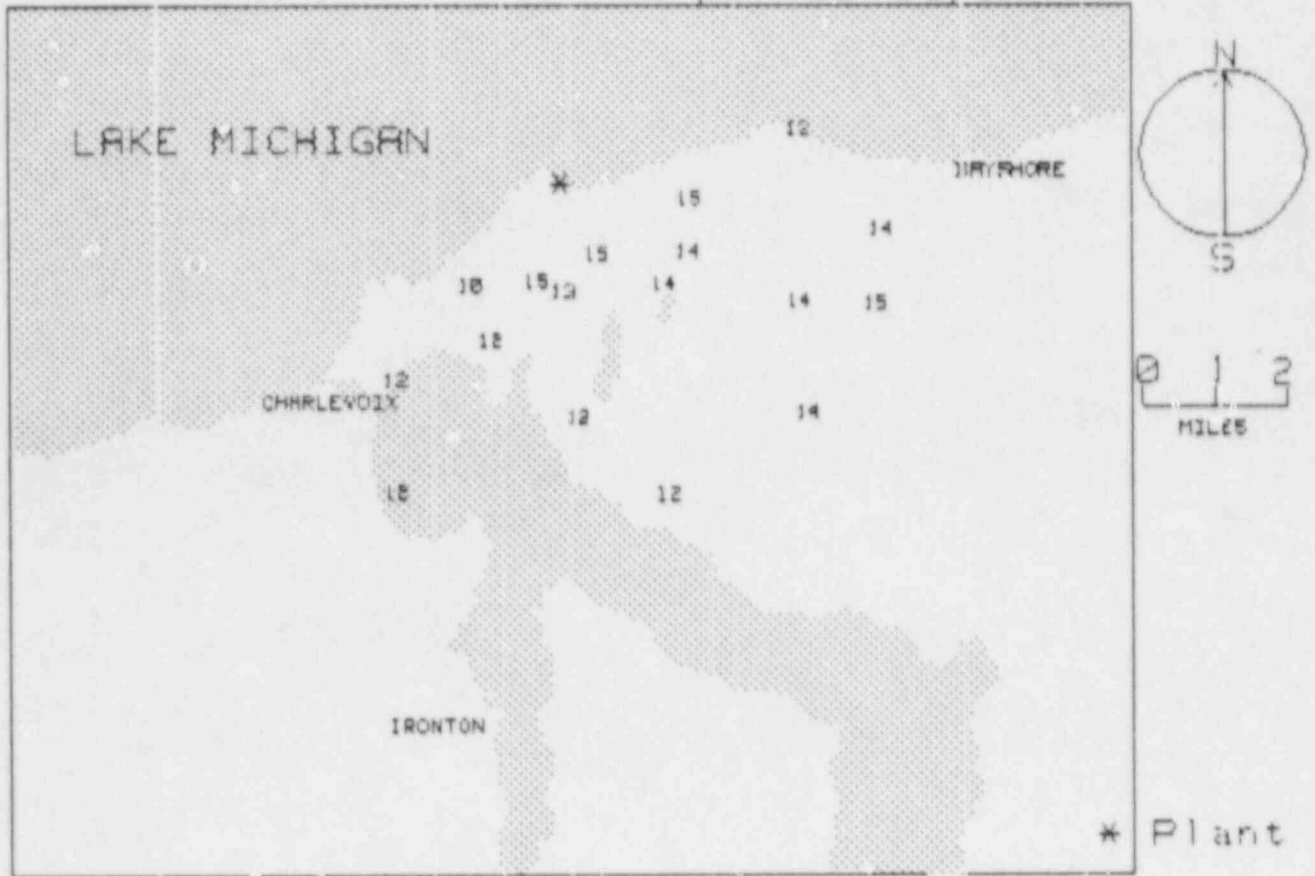
| DISTANCE (mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) +-Std.Dev. | # IN GROUP |
|--------------------------------|---|------------|
| 0-2 | 13.6 +- 1.9 | 7 |
| 2-5 | 13.0 +- 1.2 | 10 |
| >5 | 11.4 +- 0.0 | 1 |
| UPWIND CONTROL DATA | 12.6 +- 1.4 | 3 |

BIG ROCK

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|--|
| 1 | 4.9 | 208 | MICHIGAN 66 |
| 2 | 3.6 | 220 | PETOSKY (US 31) & PROSPECT |
| 3 | 2.4 | 204 | COUNTY RD. 56 |
| 4 | 3.3 | 176 | QUARTER LINE RD. |
| 5 | 4.6 | 161 | COUNTY RD. 56 |
| 6 | 4.7 | 133 | QUARTER LINE RD. & MAPLE GROVE RD. |
| 7 | 3.7 | 116 | STOLT RD. & MAPLE GROVE RD. |
| 8 | 4.7 | 111 | STOLT RD. & MURRAY RD. |
| 9 | 4.5 | 98 | MURRAY RD & BAY SHORE RD. |
| 10 | 12.0 | 88 | PETOSKY (MI) |
| 11 | 16.0 | 83 | BAYVIEW (MI) |
| 12 | 16.0 | 83 | BAYVIEW (MI) |
| 13 | 16.0 | 83 | BAYVIEW (MI) |
| 14 | 3.4 | 77 | US 31 |
| 15 | 1.8 | 96 | BURGESS RD. |
| 16 | 2.0 | 118 | OLD 31 RD. |
| 17 | 2.0 | 134 | OLD 31 RD. |
| 18 | 1.9 | 222 | PA-BA-SHAN LANE |
| 19 | 1.4 | 194 | NEAR US 31 |
| 20 | 1.5 | 179 | US 31 (NEAR CHARLOVOIX ROD & GUN CLUB) |
| 21 | 1.1 | 153 | US 31 |

NRC TLD DOSES FOR BIG ROCK POINT AREA
(mR per 90 days)



BRAIDWOOD
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870914-880202 142 DAYS
 FIELD TIME 99 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|--------------|----------------|------------|---------------------|--------------------|--------------------|--------------------|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdn; Tot. | - Rdn; Tot. | mR/Std. Qtr. | + Rdn; Tot. |
| 001 | 351 | .8 | MISSING OR DAMAGED | MISSING OR DAMAGED | MISSING OR DAMAGED | MISSING OR DAMAGED |
| 002 | 19 | 1.3 | 22.5 | 5.5 | 11.1 | 11.1 |
| 003 | 45 | 2.2 | 22.5 | 0.5 | 11.1 | 11.1 |
| 004 | 66 | 2.1 | 22.5 | 1.1 | 11.1 | 11.1 |
| 005 | 87 | 1.8 | 22.5 | 0.9 | 11.1 | 11.1 |
| 006 | 114 | 2.2 | 22.5 | 4.4 | 11.1 | 11.1 |
| 007 | 133 | 2.2 | 22.5 | 3.4 | 11.1 | 11.1 |
| 008 | 151 | 2.2 | 22.5 | 4.4 | 11.1 | 11.1 |
| 009 | 170 | 2.2 | 22.5 | 4.4 | 11.1 | 11.1 |
| 010 | 197 | 2.2 | 22.5 | 3.4 | 11.1 | 11.1 |
| 011 | 222 | 1.4 | 22.5 | 3.4 | 11.1 | 11.1 |
| 012 | 250 | 1.1 | 22.5 | 3.4 | 11.1 | 11.1 |
| 013 | 276 | 1.1 | 22.5 | 3.4 | 11.1 | 11.1 |
| 014 | 300 | 1.1 | 22.5 | 3.4 | 11.1 | 11.1 |
| 015 | 319 | 1.1 | 22.5 | 3.4 | 11.1 | 11.1 |
| 016 | 333 | 1.1 | 22.5 | 3.4 | 11.1 | 11.1 |
| 017 | 343 | 1.1 | 22.5 | 3.4 | 11.1 | 11.1 |
| 018 | 349 | 1.1 | 22.5 | 3.4 | 11.1 | 11.1 |
| 019 | 352 | 1.1 | 22.5 | 3.4 | 11.1 | 11.1 |
| 020 | 353 | 1.1 | 22.5 | 3.4 | 11.1 | 11.1 |
| 021 | 353 | 1.1 | 22.5 | 3.4 | 11.1 | 11.1 |
| 022 | 353 | 1.1 | 22.5 | 3.4 | 11.1 | 11.1 |
| 023 | 353 | 1.1 | 22.5 | 3.4 | 11.1 | 11.1 |
| 024 | 353 | 1.1 | 22.5 | 3.4 | 11.1 | 11.1 |
| 025 | 353 | 1.1 | 22.5 | 3.4 | 11.1 | 11.1 |
| 026 | 353 | 1.1 | 22.5 | 3.4 | 11.1 | 11.1 |
| 027 | 353 | 1.1 | 22.5 | 3.4 | 11.1 | 11.1 |
| 028 | 353 | 1.1 | 22.5 | 3.4 | 11.1 | 11.1 |
| 029 | 353 | 1.1 | 22.5 | 3.4 | 11.1 | 11.1 |
| 030 | 353 | 1.1 | 22.5 | 3.4 | 11.1 | 11.1 |
| 031 | 353 | 1.1 | 22.5 | 3.4 | 11.1 | 11.1 |
| 032 | 353 | 1.1 | 22.5 | 3.4 | 11.1 | 11.1 |
| 033 | 353 | 1.1 | 22.5 | 3.4 | 11.1 | 11.1 |
| 034 | 353 | 1.1 | 22.5 | 3.4 | 11.1 | 11.1 |
| 035 | 353 | 1.1 | 22.5 | 3.4 | 11.1 | 11.1 |
| 036 | 353 | 1.1 | 22.5 | 3.4 | 11.1 | 11.1 |
| 037 | 353 | 1.1 | 22.5 | 3.4 | 11.1 | 11.1 |
| 038 | 353 | 1.1 | 22.5 | 3.4 | 11.1 | 11.1 |
| 039 | 353 | 1.1 | 22.5 | 3.4 | 11.1 | 11.1 |
| 040 | 353 | 1.1 | 22.5 | 3.4 | 11.1 | 11.1 |
| TRANSIT DOSE | | | | | | |

BRAIDWOOD
FOR THE PERIOD 870914-880202

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 16.8 \pm .8 | 2 |
| 11.25-33.75 (NNE) | 15.5 \pm 3.1 | 3 |
| 33.75-56.25 (NE) | 14.1 \pm 2.0 | 3 |
| 56.25-78.75 (ENE) | 16.2 \pm .9 | 3 |
| 78.75-101.25 (E) | 17.0 \pm 2.3 | 4 |
| 101.25-123.75 (ESE) | 14.4 \pm 4.0 | 2 |
| 123.75-146.25 (SE) | 17.3 \pm .3 | 2 |
| 146.25-168.75 (SSE) | 16.4 \pm .2 | 2 |
| 168.75-191.25 (S) | 17.2 \pm 2.5 | 4 |
| 191.25-213.75 (SSW) | 17.1 \pm 0.0 | 1 |
| 213.75-236.25 (SW) | 17.1 \pm 3.5 | 2 |
| 236.25-258.75 (WSW) | 15.7 \pm 0.0 | 1 |
| 258.75-281.25 (W) | 17.3 \pm .3 | 3 |
| 281.25-303.75 (WNW) | 19.0 \pm 0.0 | 1 |
| 303.75-326.25 (NW) | 16.9 \pm .8 | 2 |
| 326.25-348.75 (NNW) | 15.2 \pm 5.5 | 2 |
| | | |

| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 15.8 \pm 2.1 | 11 |
| 2-5 | 16.5 \pm 2.0 | 13 |
| >5 | 16.8 \pm 2.5 | 13 |
| UPWIND CONTROL DATA | 18.1 \pm 3.4 | 2 |

BRAIDWOOD

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|--|
| 1 | .8 | 351 | IL-53 9TH POLE SW OF DIV. |
| 2 | 1.3 | 19 | N. OF RR/DIV. & IL-129 |
| 3 | 2.0 | 45 | IL-113/.5 MI E. OF IL-53 |
| 4 | 2.1 | 66 | ESSEX/.5 MI S. OF IL-113 |
| 5 | 1.8 | 87 | ESSEX/0.5 MI.S. OF SMILEY RD |
| 6 | 2.0 | 114 | ESSEX NR BRAIDWOOD TRAIN. CTR. |
| 7 | 2.7 | 133 | ESSEX/0.5 MI.S.OF COOPER/TAMEN BERRIES |
| 8 | 2.8 | 151 | COUNTY LINE/.5 MI W. OF ESSEX |
| 9 | 3.9 | 178 | W500N(PONDEROSA CLUB SIGN) |
| 10 | 2.8 | 197 | KANKAKEE & DONDANVILLE RDS |
| 11 | 1.4 | 222 | KANKAKEE NR HOUSE ON HILL |
| 12 | 1.1 | 252 | KANKAKEE NR GODLEY VILLAGE HALL |
| 13 | 1.0 | 261 | KANKAKEE N. OF RR TRACKS |
| 14 | 1.2 | 278 | KANKAKEE UNDER TRANS. LINES |
| 15 | 1.3 | 310 | KANKAKEE & IS-55 FRONTAGE |
| 16 | 1.6 | 335 | KENNEDY & ENGLISH STS. |
| 17 | 1.5 | 359 | BRAIDWOOD ELEM. SCH. |
| 18 | 3.5 | 18 | COAL CITY & CEMETARY RDS |
| 19 | 6.3 | 42 | WILMINGTON WATER TOWER |
| 20 | 5.7 | 69 | IL-102 & HINTZE |
| 21 | 6.8 | 86 | IL-102 OF RITCHIE |
| 22 | 10.0 | 100 | KANKAKEE ST PARK ENTRANCE |
| 23 | 4.9 | 45 | RIVER & JOHNSON RDS. |
| 24 | 4.2 | 70 | RIVER & IL-113 |
| 25 | 4.1 | 86 | ZILM RD(1 MI S. OF IL-113) |
| 26 | 4.4 | 113 | ZILM RD/37500S & 2240W |
| 27 | 6.4 | 142 | W1400N & N300W |
| 28 | 6.1 | 161 | W1600N & N300W |
| 29 | 6.1 | 180 | POLE AFTER BRIDGE IN MINES |
| 30 | 5.8 | 191 | W1900N & N300W |
| 31 | 5.8 | 230 | STORM RD & IL-53 |
| 32 | 5.3 | 266 | CARBON HILL & BRACEVILLE RDS |
| 33 | 4.1 | 289 | CARBON HILL & REED RDS |
| 34 | 4.3 | 315 | COAL CITY WATER TOWER |
| 35 | 4.5 | 333 | 5TH IN EILEEN BETW RR TRACKS |
| 36 | 5.9 | 0 | CECO & COOPER RDS |
| 37 | 5.3 | 21 | IL-129 S. OF IS-55 |
| 38 | 10.0 | 190 | OFF IL-17 ENTRY TO REDDICK |
| 39 | 13.0 | 224 | IL-47 & IL-17 (DWIGHT) |
| 40 | 13.0 | 224 | IL-47 & IL-17 (DWIGHT) |

MAP FOR BRAIDWOOD

Map will be provided for this site in the future.

BROWNS FERRY
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870917-880205 142 DAYS
 FIELD TIME 84 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE(mR) | | NET EXPOSURE RATE | |
|----------------|-------------------|---------------|-----------------------|------|------------------------|------|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm; | Tot. | mR/Std. Qtr. + Rdm; | Tot. |
| 001 | 130 | 9.9 | 17.8 | +- | 14.7 | +- |
| 002 | 133 | 5.5 | 19.4 | +- | 16.3 | +- |
| 003 | 153 | 4.3 | 18.1 | +- | 15.6 | +- |
| 004 | 210 | 8.0 | 20.4 | +- | 17.4 | +- |
| 005 | 220 | 8.0 | 18.4 | +- | 15.2 | +- |
| 006 | 245 | 5.5 | 21.9 | +- | 19.0 | +- |
| 007 | 269 | 4.4 | 20.1 | +- | 17.1 | +- |
| 008 | 267 | 1.9 | 19.6 | +- | 16.6 | +- |
| 009 | 299 | 7.1 | 21.9 | +- | 19.1 | +- |
| 010 | 299 | 4.4 | 18.7 | +- | 15.6 | +- |
| 011 | 269 | 4.4 | 21.4 | +- | 18.8 | +- |
| 012 | 240 | 1.1 | 17.9 | +- | 14.0 | +- |
| 013 | 220 | 1.1 | 25.1 | +- | 22.4 | +- |
| 014 | 200 | 1.7 | 20.0 | +- | 17.0 | +- |
| 015 | 201 | 1.1 | 19.0 | +- | 16.2 | +- |
| 016 | 181 | 1.1 | 18.0 | +- | 15.1 | +- |
| 017 | 50 | 5.5 | 19.7 | +- | 16.7 | +- |
| 018 | 51 | 5.5 | 19.6 | +- | 16.5 | +- |
| 019 | 62 | 5.5 | 19.1 | +- | 16.1 | +- |
| 020 | 86 | 3.0 | 20.9 | +- | 17.9 | +- |
| 021 | 111 | 3.1 | 23.1 | +- | 20.3 | +- |
| 022 | 64 | 1.1 | 21.7 | +- | 18.8 | +- |
| 023 | 90 | 2.6 | 19.3 | +- | 16.2 | +- |
| 024 | 111 | 1.8 | 21.1 | +- | 18.2 | +- |
| 025 | 46 | 2.2 | 20.5 | +- | 17.5 | +- |
| 026 | 26 | 1.1 | 20.9 | +- | 18.0 | +- |
| 027 | 33 | 1.7 | 19.3 | +- | 16.2 | +- |
| 028 | 33 | 1.1 | 19.3 | +- | 16.2 | +- |
| 029 | 27 | 3.8 | 19.5 | +- | 16.5 | +- |
| 030 | 0 | 4.4 | 17.9 | +- | 14.0 | +- |
| 031 | 340 | 5.3 | 21.1 | +- | 18.0 | +- |
| 032 | 312 | 1.2 | 19.7 | +- | 16.7 | +- |
| 033 | 0 | 1.1 | 22.4 | +- | 19.4 | +- |
| 034 | 50 | 7.7 | 20.4 | +- | 17.4 | +- |
| 035 | 95 | 5.4 | 20.4 | +- | 17.4 | +- |
| 036 | 60 | 5.4 | 21.4 | +- | 18.4 | +- |
| 037 | 149 | 7.7 | 19.0 | +- | 15.0 | +- |
| 038 | 164 | 7.7 | 17.1 | +- | 13.0 | +- |
| TRANSIT DOSE = | 4.1 | +- | .3 | ; | 4.8 | |

BROWNS FERRY
FOR THE PERIOD 870917-880205

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 17.2 \pm 3.4 | 2 |
| 11.25-33.75 (NNE) | 17.2 \pm 1.1 | 2 |
| 33.75-56.25 (NE) | 17.0 \pm .5 | 4 |
| 56.25-78.75 (ENE) | 17.8 \pm 1.5 | 3 |
| 78.75-101.25 (E) | 17.2 \pm .9 | 3 |
| 101.25-123.75 (ESE) | 19.2 \pm 1.5 | 2 |
| 123.75-146.25 (SE) | 15.5 \pm 1.2 | 2 |
| 146.25-168.75 (SSE) | 14.9 \pm 1.0 | 3 |
| 168.75-191.25 (S) | 15.1 \pm 0.0 | 1 |
| 191.25-213.75 (SSW) | 16.8 \pm .9 | 2 |
| 213.75-236.25 (SW) | 18.8 \pm 5.1 | 2 |
| 236.25-258.75 (WSW) | 16.9 \pm 3.0 | 2 |
| 258.75-281.25 (W) | 17.8 \pm 1.0 | 2 |
| 281.25-303.75 (WNW) | 17.3 \pm 2.5 | 2 |
| 303.75-326.25 (NW) | 16.7 \pm 0.0 | 1 |
| 326.25-348.75 (NNW) | 17.0 \pm 1.0 | 3 |
| | | |

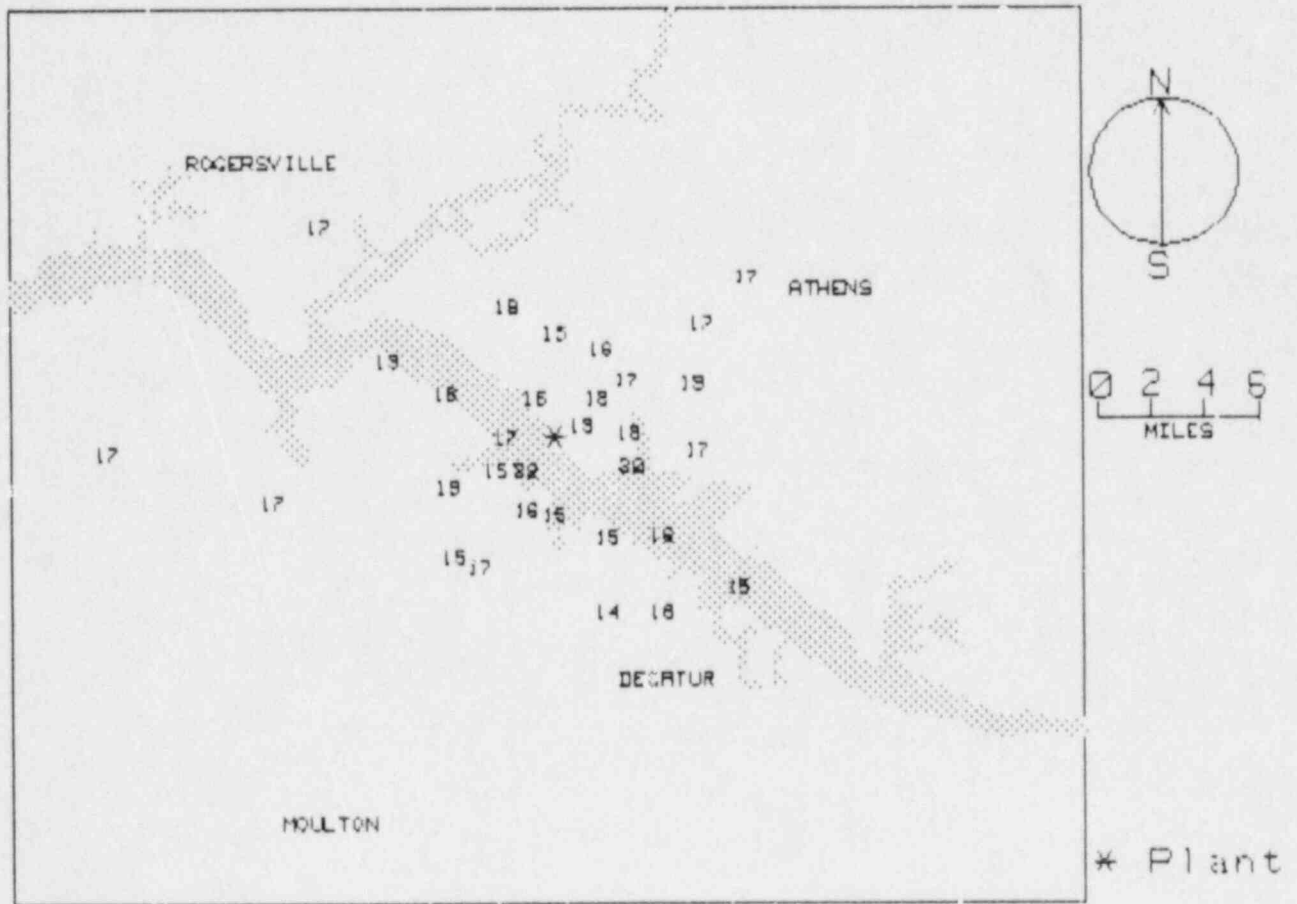
| DISTANCE (mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|--------------------------------|---|------------|
| 0-2 | 18.4 \pm 1.9 | 9 |
| 2-5 | 16.5 \pm 1.7 | 13 |
| >5 | 16.7 \pm 1.5 | 14 |
| UPWIND CONTROL DATA | 16.8 \pm .3 | 2 |

BROWNS FERRY

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|------------------------------|
| 1 | 9.0 | 130 | DECATUR |
| 2 | 5.5 | 133 | FINLEY IS. RD. |
| 3 | 4.3 | 153 | LEWIS LANE |
| 4 | 5.8 | 210 | TENN. VALLEY JR. HIGH SCHOOL |
| 5 | 6.0 | 220 | HILLSBORO |
| 6 | 4.5 | 245 | DAVID TEMPLE CH. |
| 7 | 1.9 | 269 | PORTER CEMETERY |
| 8 | 11.0 | 257 | COURTLAND HOSPITAL |
| 9 | 7.0 | 295 | SPRING CR. & LOCK RD. |
| 10 | 4.5 | 292 | MALLARD CR. RD. |
| 11 | 1.9 | 269 | LAKEVIEW CABINS |
| 12 | 2.6 | 240 | DAVIS FARM |
| 13 | 1.7 | 220 | BROWNS FERRY RD. |
| 14 | 17.0 | 268 | TOWN CREEK |
| 15 | 3.0 | 201 | BAKER BOTTOM RD. |
| 16 | 3.0 | 181 | STATE PIC STATION |
| 17 | 9.5 | 50 | ATHENS RD. & RT. 72 |
| 18 | 3.5 | 51 | ATHENS RD. & COW FORD RD. |
| 19 | 3.2 | 62 | OAK GROVE CHURCH |
| 20 | 2.8 | 86 | COW FORD RD. |
| 21 | 3.1 | 111 | END OF COW FORD RD. |
| 22 | 1.1 | 64 | COX CEMETERY |
| 23 | 26.0 | 90 | HUNTSVILLE |
| 24 | .8 | 111 | BFNP METEOROLOGICAL TOWER |
| 25 | 2.2 | 46 | LAWNGATE |
| 26 | 1.7 | 26 | INTERSECTION ON LAWNGATE RD. |
| 27 | 1.7 | 333 | POPULAR PT. |
| 28 | 1.0 | 335 | PARADISE SHORES |
| 29 | 3.8 | 27 | SEVEN MILE POST RD. & RT. 24 |
| 30 | 4.0 | 0 | RIPLEY CITY HALL |
| 31 | 5.3 | 340 | SNAKE RD. |
| 32 | 12.0 | 312 | ROLAND EZELL RESIDENCE |
| 33 | 1.5 | 0 | SHAW RD. & LAWNGATE RD. |
| 34 | 7.0 | 52 | TURNER CHAPEL SCHOOL |
| 35 | 5.4 | 95 | BEULAH BAY RD. |
| 36 | 5.6 | 68 | MOORESVILLE RD. |
| 37 | 7.8 | 149 | TVA SUBSTATION |
| 38 | 7.0 | 164 | TRINITY TOWN HALL |

NRC TLD DOSES FOR BROWNS FERRY AREA (mR per 90 days)



BRUNSWICK
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870914-880126 135 DAYS
 FIELD TIME 88 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|----------------|-------------------|---------------|---------------------|------|-----------------------|------|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | Tot. | mR/Std. Qtr. + Rdm | Tot. |
| 001 | 260 | 2.2 | 17.4 | +- | 13.3 | +- |
| 002 | 245 | 3.4 | 16.8 | +- | 12.7 | +- |
| 003 | 231 | 3.8 | 17.5 | +- | 13.4 | +- |
| 004 | 210 | 4.9 | 19.4 | +- | 15.3 | +- |
| 005 | 186 | 4.3 | 18.9 | +- | 14.8 | +- |
| 006 | 270 | 4.5 | 17.7 | +- | 13.6 | +- |
| 007 | 272 | 4.4 | 17.8 | +- | 13.9 | +- |
| 008 | 73 | 1.3 | 19.2 | +- | 15.1 | +- |
| 009 | 97 | 1.8 | 20.3 | +- | 16.3 | +- |
| 010 | 120 | 1.5 | 18.8 | +- | 14.5 | +- |
| 011 | 131 | 0.9 | 18.7 | +- | 14.6 | +- |
| 012 | 156 | 1.1 | 20.5 | +- | 16.4 | +- |
| 013 | 188 | 1.1 | 17.2 | +- | 13.1 | +- |
| 014 | 194 | 2.4 | 16.3 | +- | 12.1 | +- |
| 015 | 201 | 2.8 | 17.8 | +- | 13.8 | +- |
| 016 | 218 | 1.2 | 18.5 | +- | 14.4 | +- |
| 017 | 252 | 1.1 | 18.8 | +- | 14.7 | +- |
| 018 | 272 | 1.2 | 18.2 | +- | 14.1 | +- |
| 019 | 19 | 1.1 | 17.4 | +- | 13.3 | +- |
| 020 | 2 | 1.1 | 17.4 | +- | 13.3 | +- |
| 021 | 288 | 1.3 | 17.8 | +- | 13.7 | +- |
| 022 | 387 | 1.5 | 16.8 | +- | 12.7 | +- |
| 023 | 338 | 2.1 | 18.7 | +- | 14.6 | +- |
| 024 | 323 | 4.9 | 17.5 | +- | 13.4 | +- |
| 025 | 338 | 3.8 | 19.4 | +- | 15.3 | +- |
| 026 | 356 | 4.6 | 17.3 | +- | 13.2 | +- |
| 027 | 30 | 4.4 | 18.4 | +- | 14.3 | +- |
| 028 | 43 | 9.9 | MIS | OR | DAMAGED | DOSE |
| 029 | 50 | 9.9 | 18.8 | +- | 14.7 | +- |
| 030 | 59 | 9.9 | 18.8 | +- | 14.7 | +- |
| 031 | 65 | 9.9 | 18.8 | +- | 14.7 | +- |
| 032 | 74 | 10.0 | 19.3 | +- | 15.1 | +- |
| 033 | 80 | 11.1 | 18.8 | +- | 14.6 | +- |
| 034 | 127 | 17.1 | 18.8 | +- | 14.6 | +- |
| 035 | 157 | 18.1 | 18.8 | +- | 14.6 | +- |
| 036 | 202 | 18.4 | 18.8 | +- | 14.6 | +- |
| 037 | 202 | 18.4 | 18.8 | +- | 14.6 | +- |
| 038 | 202 | 18.4 | 18.8 | +- | 14.6 | +- |
| 039 | 202 | 18.4 | 18.8 | +- | 14.6 | +- |
| 040 | 202 | 18.4 | 18.8 | +- | 14.6 | +- |
| TRANSIT DOSE = | 4.4 | +- | .3 | ; | 5.1 | |

BRUNSWICK
FOR THE PERIOD 870914-880126

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 13.2 \pm .0 | 2 |
| 11.25-33.75 (NNE) | 13.6 \pm 1.0 | 4 |
| 33.75-56.25 (NE) | 14.2 \pm 0.0 | 1 |
| 56.25-78.75 (ENE) | 14.9 \pm .6 | 4 |
| 78.75-101.25 (E) | 15.2 \pm 1.5 | 2 |
| 101.25-123.75 (ESE) | 14.5 \pm 0.0 | 1 |
| 123.75-146.25 (SE) | 14.6 \pm 0.0 | 1 |
| 146.25-168.75 (SSE) | 16.4 \pm 0.0 | 1 |
| 168.75-191.25 (S) | 13.9 \pm 1.3 | 2 |
| 191.25-213.75 (SSW) | 13.4 \pm 1.7 | 3 |
| 213.75-236.25 (SW) | 13.9 \pm .8 | 2 |
| 236.25-258.75 (WSW) | 13.7 \pm 1.4 | 2 |
| 258.75-281.25 (W) | 14.0 \pm 1.3 | 5 |
| 281.25-303.75 (WNW) | 13.6 \pm .1 | 2 |
| 303.75-326.25 (NW) | 12.7 \pm .9 | 2 |
| 326.25-348.75 (NNW) | 14.5 \pm .2 | 2 |
| | | |

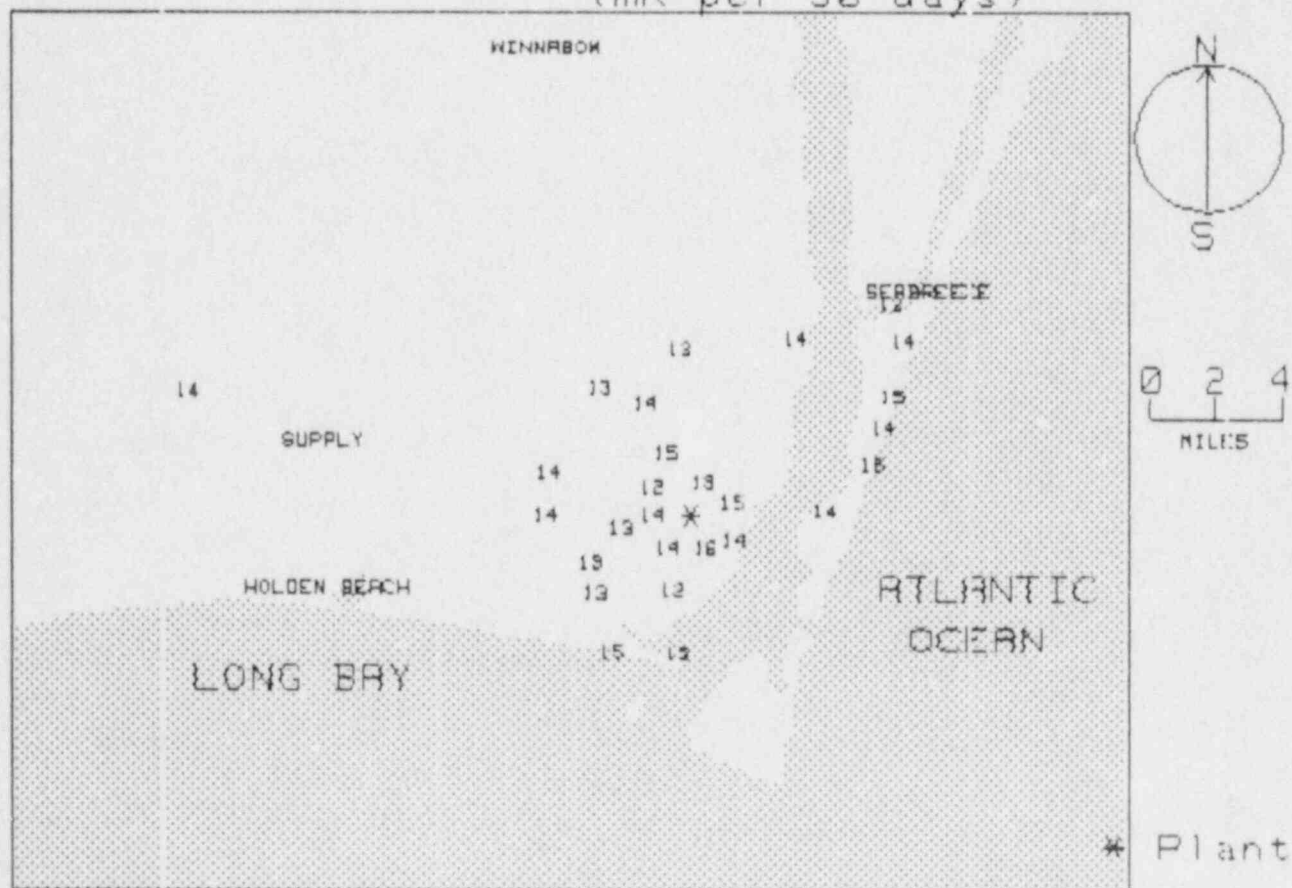
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 14.3 \pm 1.3 | 15 |
| 2-5 | 13.7 \pm .9 | 13 |
| >5 | 14.1 \pm 1.0 | 8 |
| UPWIND CONTROL DATA | 14.2 \pm .3 | 3 |

BRUNSWICK

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|------------------------------------|
| 1 | 2.2 | 260 | BEMC SUBSTATION RT. 133 |
| 2 | 3.4 | 245 | HWY. 133 & RD. 1101 |
| 3 | 3.8 | 231 | STANDARD PRODUCTS |
| 4 | 4.9 | 210 | CASWELL BEACH |
| 5 | 4.3 | 186 | FORT CASWELL DOCK |
| 6 | 4.5 | 270 | S. BRUNSWICK CO. LANDFILL |
| 7 | 4.4 | 272 | BRUNSWICK CO. LAND ON RT. 211 |
| 8 | 1.3 | 73 | HWY. 1528 (INTAKE CANAL) |
| 9 | 1.0 | 97 | HWY. 1528 (S. OF CANAL) |
| 10 | 1.5 | 120 | RD. 1534 |
| 11 | .9 | 131 | HWY. 1528 & RD. 1534 |
| 12 | 1.1 | 156 | SUBSTATION (RT. 1528) |
| 13 | 1.1 | 180 | HWY. 1527 |
| 14 | 2.4 | 194 | E. LEONARD & N. ATLANTIC ST. |
| 15 | 2.0 | 201 | E. 11TH ST. |
| 16 | 1.2 | 218 | HWY. 87 (N. OF HWY. 211) |
| 17 | 1.1 | 252 | HWY. 87 & BSEP ACCESS RD. |
| 18 | 1.2 | 272 | HWY. 87 (0.5 N. ACCESS RD.) |
| 19 | 1.1 | 19 | RD. 1525 (2.0 E. OF HWY. 87) |
| 20 | 1.1 | 2 | RD. 1525 (1.6 E. OF HWY. 87) |
| 21 | 1.3 | 288 | HWY. 87 (0.3 N. OF RD. 1525) |
| 22 | 1.5 | 307 | HWY. 87 (0.7 N. OF RD. 1525) |
| 23 | 2.1 | 338 | SUNNY PT. ACCESS RD. |
| 24 | 4.9 | 325 | BOILING SPRINGS LAKES |
| 25 | 3.8 | 338 | HWY. 133 & ORTON CR. |
| 26 | 5.2 | 356 | HWY. 133 (2 MILES N. OF ORTON CR.) |
| 27 | 6.4 | 30 | SUNNY PT. (N. GATE) |
| 28 | 9.0 | 43 | HWY. 421 (SNOW CUT) |
| 29 | 8.5 | 50 | RT. 421 & LUMBERTON ST. |
| 30 | 7.2 | 59 | RT. 421 & OCEAN VIEW DR. |
| 31 | 6.5 | 65 | KURE BEACH WATER TOWER |
| 32 | 5.8 | 74 | FORT FISHER AFB |
| 33 | 4.1 | 88 | FEDERAL PT. FERRY LANDING |
| 34 | 17.0 | 12 | SHIPYARD BLVD. & WORTH DR. |
| 35 | 18.0 | 16 | SHIPYARD BLVD. & NEWKIRK AVE. |
| 36 | 16.0 | 284 | SUPPLY (NC RT. 211 & RD. 1115) |
| 37 | 16.0 | 284 | SUPPLY (NC RT. 211 & RT. 17) |
| 38 | 16.0 | 285 | SUPPLY (NC RT. 17 & RD. 1115) |
| 39 | 4.6 | 287 | SR 1500 AT ANTIOCH CHURCH |
| 40 | .7 | 271 | 0.5 MILES E. OF HWY. 87 |

NRC TLD DOSES FOR BRUNSWICK AREA (mR per 90 days)



BYRON
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870914-880202 142 DAYS
 FIELD TIME 91 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|-------------|----------------|------------|---------------------|-----------|-------------------|---------------|
| | AZIMUTH (deg.) | DIST (mi.) | +/- | Rdm; Tot. | mR/Std. Qtr. | +/- Rdm; Tot. |
| 001 | 10 | 1.1 | 24.0 | +- .7 | 18.4 | +- .8 |
| 002 | 23 | 1.0 | 23.4 | +- .7 | 17.9 | +- .8 |
| 003 | 46 | 1.6 | 28.6 | +- .8 | 15.1 | +- .7 |
| 004 | 68 | 1.6 | 28.4 | +- .8 | 22.7 | +- .9 |
| 005 | 86 | 1.4 | 29.4 | +- .8 | 22.7 | +- .9 |
| 006 | 112 | 1.3 | 26.1 | +- .7 | 20.5 | +- .8 |
| 007 | 133 | 1.4 | 26.5 | +- .7 | 20.9 | +- .8 |
| 008 | 175 | 2.2 | 23.9 | +- .7 | 18.4 | +- .8 |
| 009 | 156 | 0.6 | 21.0 | +- .6 | 15.4 | +- .7 |
| 010 | 183 | 0.5 | 22.2 | +- .7 | 19.6 | +- .8 |
| 011 | 210 | 0.6 | 23.0 | +- .7 | 19.4 | +- .8 |
| 012 | 236 | 0.9 | 23.0 | +- .7 | 17.7 | +- .8 |
| 013 | 247 | 0.8 | 24.4 | +- .7 | 18.8 | +- .8 |
| 014 | 262 | 0.7 | 25.7 | +- .7 | 20.1 | +- .8 |
| 015 | 298 | 0.8 | 26.3 | +- .7 | 20.7 | +- .8 |
| 016 | 326 | 1.0 | 21.2 | +- .6 | 15.7 | +- .7 |
| 017 | 333 | 1.6 | 20.0 | +- .6 | 14.4 | +- .7 |
| 018 | 23 | 4.0 | 20.2 | +- .6 | 14.2 | +- .7 |
| 019 | 17 | 4.1 | 18.7 | +- .6 | 13.2 | +- .7 |
| 020 | 5 | 4.3 | 22.2 | +- .6 | 16.8 | +- .7 |
| 021 | 340 | 4.2 | 25.6 | +- .6 | 20.8 | +- .7 |
| 022 | 322 | 4.9 | 27.2 | +- .6 | 21.9 | +- .7 |
| 023 | 384 | 6.9 | 20.8 | +- .6 | 15.1 | +- .7 |
| 024 | 278 | 4.8 | 20.7 | +- .6 | 15.1 | +- .7 |
| 025 | 244 | 4.6 | 20.9 | +- .6 | 15.6 | +- .7 |
| 026 | 224 | 4.8 | 20.1 | +- .6 | 14.4 | +- .7 |
| 027 | 213 | 5.2 | 20.5 | +- .6 | 14.4 | +- .7 |
| 028 | 289 | 14. | 18.8 | +- .6 | 13.6 | +- .7 |
| 029 | 215 | 13. | 22.0 | +- .6 | 16.8 | +- .7 |
| 030 | 215 | 13. | 22.2 | +- .6 | 17.0 | +- .7 |
| 031 | 284 | 4.6 | 19.0 | +- .6 | 13.6 | +- .7 |
| 032 | 178 | 4.4 | 22.0 | +- .6 | 16.8 | +- .7 |
| 033 | 155 | 0.9 | 22.1 | +- .6 | 16.8 | +- .7 |
| 034 | 138 | 4.6 | 20.0 | +- .6 | 14.4 | +- .7 |
| 035 | 118 | 4.4 | 22.1 | +- .6 | 16.8 | +- .7 |
| 036 | 81 | 0.8 | 21.6 | +- .6 | 16.1 | +- .7 |
| 037 | 78 | 0.8 | 24.1 | +- .6 | 18.8 | +- .7 |
| 038 | 45 | 4.0 | 20.0 | +- .6 | 14.4 | +- .7 |
| 039 | 48 | 6.8 | 23.1 | +- .6 | 17.7 | +- .7 |
| 040 | 45 | 15. | 19.5 | +- .6 | 14.8 | +- .7 |
| 041 | 328 | 0.8 | 26.0 | +- .6 | 21.0 | +- .7 |

TRANSIT DOSE = 5.0 +- .4 ; 5.5

BYRON
FOR THE PERIOD 870914-880202

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 17.5 \pm 1.3 | 2 |
| 11.25-33.75 (NNE) | 15.2 \pm 2.4 | 3 |
| 33.75-56.25 (NE) | 15.3 \pm 1.5 | 4 |
| 56.25-78.75 (ENE) | 20.7 \pm 3.0 | 2 |
| 78.75-101.25 (E) | 19.9 \pm 5.4 | 2 |
| 101.25-123.75 (ESE) | 18.5 \pm 2.8 | 2 |
| 123.75-146.25 (SE) | 17.8 \pm 4.3 | 2 |
| 146.25-168.75 (SSE) | 16.0 \pm .8 | 2 |
| 168.75-191.25 (S) | 18.2 \pm 1.4 | 3 |
| 191.25-213.75 (SSW) | 15.9 \pm 3.1 | 3 |
| 213.75-236.25 (SW) | 16.2 \pm 2.2 | 2 |
| 236.25-258.75 (WSW) | 17.1 \pm 2.5 | 2 |
| 258.75-281.25 (W) | 17.6 \pm 3.5 | 2 |
| 281.25-303.75 (WNW) | 20.7 \pm 0.0 | 1 |
| 303.75-326.25 (NW) | 18.4 \pm 3.4 | 4 |
| 326.25-348.75 (NNW) | 19.7 \pm .3 | 2 |
| | | |

| DISTANCE (mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|--------------------------------|---|------------|
| 0-2 | 19.1 \pm 2.4 | 16 |
| 2-5 | 16.4 \pm 2.5 | 17 |
| >5 | 16.0 \pm 1.9 | 5 |
| UPWIND CONTROL DATA | 15.5 \pm 1.9 | 3 |

BYRON

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|----------------------------------|
| 1 | 1.1 | 10 | CLOSEST FARM |
| 2 | 1.0 | 23 | N. GERMAN CHURCH RD. |
| 3 | 1.6 | 46 | N. GERMAN CHURCH RD. |
| 4 | 1.6 | 68 | N. BLACK WALNUT RD. |
| 5 | 1.4 | 86 | N. BLACK WALNUT RD. |
| 6 | 1.3 | 112 | N. BLACK WALNUT RD. |
| 7 | 1.4 | 133 | E. HOLCOMB RD. |
| 8 | 2.2 | 175 | N. GERMAN CHURCH RD. |
| 9 | .6 | 156 | E. PLEASANT GROVE RD. |
| 10 | .5 | 183 | E. PLEASANT GROVE RD. |
| 11 | .6 | 210 | E. PLEASANT GROVE RD. |
| 12 | .9 | 236 | N. RAZORVILLE RD. |
| 13 | .8 | 247 | N. RAZORVILLE RD. |
| 14 | .7 | 262 | N. RAZORVILLE RD. |
| 15 | .8 | 298 | N. RAZORVILLE RD. |
| 16 | 1.0 | 326 | N. RAZORVILLE RD. |
| 17 | 1.6 | 333 | N. RAZORVILLE RD. |
| 18 | 4.0 | 23 | BYRON WATER TOWER |
| 19 | 4.1 | 17 | COLFAX ST NR SCH |
| 20 | 4.3 | 5 | E. MILL RD. |
| 21 | 4.2 | 340 | CONGER RD/RT IL 72 |
| 22 | 4.9 | 322 | IL 72/N STONE SCH RD |
| 23 | 6.9 | 304 | IL 72 IN LEAF RIVER |
| 24 | 4.8 | 270 | N SILVER CR RD(SO OF MIDTOWN RD) |
| 25 | 4.6 | 244 | N LIMEKILN RD |
| 26 | 4.8 | 224 | IL 64 E OF OREGON |
| 27 | 5.2 | 213 | 4TH/ADAMS |
| 28 | 14.0 | 209 | IL 2/BROADWAY GR DET |
| 29 | 13.0 | 215 | S RIDGE RD/W HOUSE RD |
| 30 | 13.0 | 215 | S RIDGE RD/W HOUSE RD |
| 31 | 4.6 | 204 | IL 64/DAYSVILLE RD |
| 32 | 4.4 | 178 | IL 64/N GER CH RD |
| 33 | 3.9 | 155 | E BRICK RD |
| 34 | 4.6 | 138 | E BRICK RD/S CHANA RD |
| 35 | 4.4 | 118 | N. STILLMAN RD |
| 36 | 3.8 | 81 | E WELD PARK RD/N COX RD |
| 37 | 5.5 | 70 | IL 72/N STILLMAN RD |
| 38 | 4.0 | 45 | IL 72/E KISHWAUKEE RD |
| 39 | 6.8 | 40 | MCCORMICK CAMP |
| 40 | 15.0 | 45 | IL 51 S OF US 20 |
| 41 | 3.0 | 320 | N RIVER RD/E HALF MI RD |

MAP FOR BYRON

Map will be provided for this site in the future.

CALLAWAY
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870917-880127 133 DAYS
 FIELD TIME 89 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE(mR) | | NET EXPOSURE RATE | | | |
|----------------|----------------|------------|------------------------------|-------|-------------------|-------------|-----|--|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | Tot. | mR/Std. Dtr. | + Rdm; Tot. | | |
| 001 | 247 | 2.1 | 29.1 | +- .9 | 4.4 | 24.3 +- 1.0 | 7.0 | |
| 002 | 259 | 1.4 | 28.2 | +- .8 | 4.2 | 23.4 +- .9 | 6.9 | |
| 003 | 282 | 1.3 | 26.6 | +- .8 | 4.0 | 21.8 +- .9 | 6.7 | |
| 004 | 304 | 1.3 | 29.1 | +- .9 | 4.4 | 24.3 +- 1.0 | 7.0 | |
| 005 | 330 | 1.7 | 21.0 | +- .6 | 3.1 | 16.1 +- .7 | 5.3 | |
| 006 | 1 | 1.7 | 21.8 | +- .7 | 3.3 | 16.9 +- .8 | 5.3 | |
| 007 | 23 | 2 | 24.2 | +- .7 | 3.6 | 19.3 +- .8 | 5.5 | |
| 008 | 77 | 1.7 | 22.6 | +- .7 | 3.4 | 17.7 +- .8 | 5.4 | |
| 009 | 85 | 1.4 | 23.3 | +- .7 | 3.5 | 18.4 +- .8 | 5.5 | |
| 010 | 98 | 1.5 | 21.5 | +- .6 | 3.0 | 16.6 +- .7 | 5.0 | |
| 011 | 121 | 2 | 28.6 | +- .9 | 4.0 | 23.8 +- .9 | 6.9 | |
| 012 | 140 | 2 | 26.8 | +- .8 | 3.9 | 21.2 +- .9 | 7.0 | |
| 013 | 158 | 2.2 | 23.5 | +- .7 | 3.5 | 18.6 +- .8 | 5.5 | |
| 014 | 183 | 3.7 | 23.9 | +- .7 | 3.6 | 19.1 +- .8 | 5.5 | |
| 015 | 188 | 1.7 | 23.8 | +- .7 | 3.6 | 18.9 +- .8 | 5.5 | |
| 016 | 202 | 1.7 | 22.8 | +- .7 | 3.4 | 17.9 +- .8 | 5.4 | |
| 017 | 237 | 1.7 | 25.2 | +- .8 | 3.6 | 20.4 +- .9 | 5.4 | |
| 018 | 312 | 11 | 19.6 | +- .6 | 2.9 | 14.7 +- .7 | 5.2 | |
| 019 | 292 | 10 | 22.5 | +- .7 | 3.4 | 17.6 +- .8 | 5.4 | |
| 020 | 268 | 9 | 22.6 | +- .7 | 3.4 | 17.7 +- .8 | 5.4 | |
| 021 | 247 | 8 | 28.9 | +- .9 | 4.0 | 24.1 +- 1.0 | 6.0 | |
| 022 | 225 | 8 | 21.4 | +- .6 | 3.0 | 16.5 +- .7 | 5.0 | |
| 023 | 220 | 8 | MISSING OR DAMAGED DOSIMETER | | | | | |
| 024 | 205 | 5.5 | 25.6 | +- .8 | 3.6 | 20.8 +- .9 | 5.7 | |
| 025 | 157 | 4.4 | 27.2 | +- .9 | 4.1 | 22.4 +- .9 | 6.0 | |
| 026 | 134 | 5.5 | 22.6 | +- .7 | 3.4 | 17.7 +- .8 | 5.4 | |
| 027 | 115 | 4.4 | 23.1 | +- .7 | 3.4 | 19.3 +- .8 | 5.4 | |
| 028 | 95 | 3.3 | 27.5 | +- .8 | 4.1 | 22.7 +- .9 | 6.0 | |
| 029 | 67 | 3.3 | 25.5 | +- .7 | 3.6 | 20.7 +- .9 | 5.7 | |
| 030 | 48 | 4.4 | 22.8 | +- .7 | 3.4 | 17.7 +- .8 | 5.4 | |
| 031 | 14 | 5.5 | 25.8 | +- .7 | 3.6 | 20.8 +- .9 | 5.7 | |
| 032 | 2 | 5.5 | 24.1 | +- .7 | 3.5 | 19.9 +- .9 | 5.7 | |
| 033 | 335 | 3.3 | 26.5 | +- .7 | 3.6 | 21.9 +- .9 | 5.7 | |
| 034 | 288 | 4.4 | 22.1 | +- .7 | 3.3 | 17.2 +- .8 | 5.4 | |
| 035 | 310 | 5.5 | 24.2 | +- .7 | 3.5 | 19.4 +- .9 | 5.4 | |
| 036 | 264 | 3.2 | 18.3 | +- .6 | 2.7 | 13.4 +- .7 | 5.1 | |
| 037 | 237 | 3.0 | 27.8 | +- .8 | 4.0 | 22.1 +- .9 | 5.7 | |
| 038 | 270 | 15 | 24.8 | +- .7 | 3.5 | 19.1 +- .8 | 5.4 | |
| 039 | 270 | 15 | 25.5 | +- .8 | 3.6 | 20.7 +- .9 | 5.7 | |
| 040 | 203 | 20 | 23.7 | +- .7 | 3.5 | 18.8 +- .8 | 5.4 | |
| TRANSIT DOSE = | | 5.1 +- .4 | | | 5.4 | | | |

CALLAWAY
FOR THE PERIOD 870917-880127

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std. Dev. | # IN GROUP |
|---------------------|--|------------|
| 348.75-11.25 (N) | 18.1 \pm 1.6 | 2 |
| 11.25-33.75 (NNE) | 20.0 \pm 1.0 | 2 |
| 33.75-56.25 (NE) | 17.1 \pm 0.0 | 1 |
| 56.25-78.75 (ENE) | 19.2 \pm 2.1 | 2 |
| 78.75-101.25 (E) | 19.2 \pm 3.1 | 3 |
| 101.25-123.75 (ESE) | 23.5 \pm .4 | 2 |
| 123.75-146.25 (SE) | 19.9 \pm 2.4 | 2 |
| 146.25-168.75 (SSE) | 20.5 \pm 2.7 | 2 |
| 168.75-191.25 (S) | 19.0 \pm .1 | 2 |
| 191.25-213.75 (SSW) | 19.3 \pm 2.0 | 2 |
| 213.75-236.25 (SW) | 16.5 \pm 0.0 | 1 |
| 236.25-258.75 (WSW) | 22.7 \pm 1.6 | 4 |
| 258.75-281.25 (W) | 18.2 \pm 5.0 | 3 |
| 281.25-303.75 (WNW) | 18.9 \pm 2.5 | 3 |
| 303.75-326.25 (NW) | 19.4 \pm 4.8 | 3 |
| 326.25-348.75 (NNW) | 15.8 \pm .3 | 2 |
| | | |

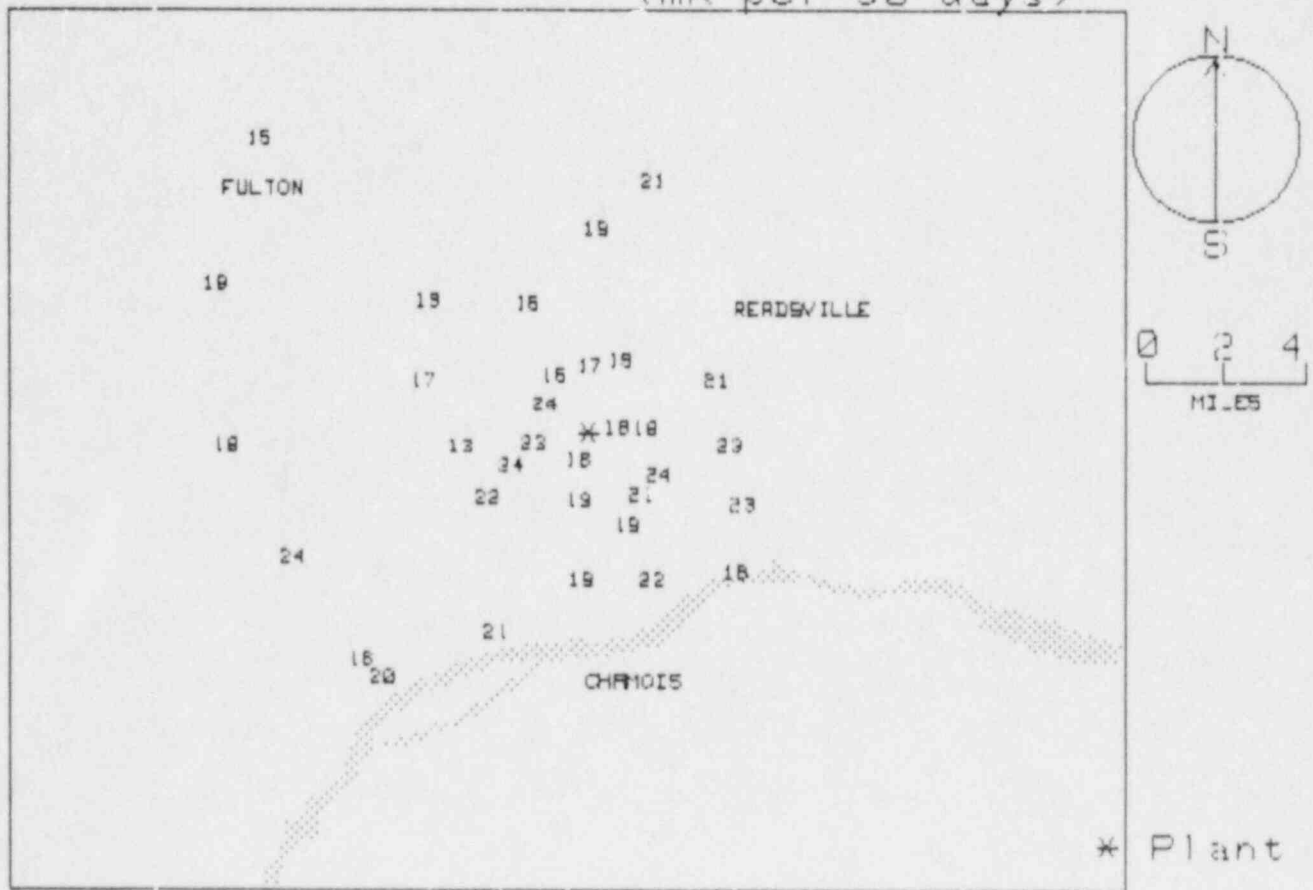
| DISTANCE (mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std. Dev. | # IN GROUP |
|--------------------------------|--|------------|
| 0-2 | 19.8 \pm 2.6 | 14 |
| 2-5 | 19.6 \pm 3.3 | 13 |
| >5 | 19.0 \pm 2.6 | 9 |
| UPWIND CONTROL DATA | 19.5 \pm 1.0 | 8 |

CALLAWAY

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|-------------------------------------|
| 1 | 2.1 | 247 | HWY CC ON PN 18769 |
| 2 | 1.4 | 259 | HWY CC ON PN 18747 |
| 3 | 1.3 | 282 | HWY AD ON PN 185588 |
| 4 | 1.3 | 304 | HWY CC ON PN 18450 |
| 5 | 1.7 | 330 | HWY CC AND D - PN 28613 |
| 6 | 1.7 | 1 | RT O AND DD - PN 28139 |
| 7 | 2.0 | 23 | RT O - UNION CITY ST. - PN 31094 |
| 8 | .7 | 77 | RT DD - PN 28151 |
| 9 | 1.4 | 85 | RT DD - GRAVEL RD - PN 30956 |
| 10 | 1.5 | 98 | RT DD - FARM HOUSE |
| 11 | 2.0 | 121 | RT DD - PN 2 N 310 |
| 12 | 2.0 | 140 | RT DD - PN 06871 |
| 13 | 2.5 | 158 | RT DD - PN 06851 |
| 14 | 3.7 | 183 | RT DD & HWY 94 - PN 06754 |
| 15 | 1.7 | 188 | RT 336(MICRO TWR)PN-18716 |
| 16 | .7 | 202 | RT 336(HEAVY HAUL RD) NO # |
| 17 | .7 | 237 | RT 336-NO PN-NEAR PARK LOT |
| 18 | 11.0 | 312 | NE OF FULTON ON 2-PN21544 |
| 19 | 10.0 | 292 | RT C-S. OF FULTON- NO PN |
| 20 | 9.0 | 268 | RT C - PN 53655 |
| 21 | 8.0 | 247 | RT C - RANCH HOUSE PN 5/40 |
| 22 | 8.0 | 225 | RT C-S CALLOWAY RII SCH PN5/25K |
| 23 | 8.0 | 220 | RT C-RIVERVIEW NURS HM PN 5V/1 |
| 24 | 5.5 | 205 | RT C - SKIP 7 DEBS STORE(POST) |
| 25 | 4.0 | 157 | HWY 94-NEAR GRAY BARN PN 12182 |
| 26 | 5.0 | 134 | PORTLAND-NEAR CH BELL PN 125/11 |
| 27 | 4.2 | 115 | HWY 94 & RT D - PN 11935 |
| 28 | 3.5 | 95 | RT D - PN 13000 |
| 29 | 3.4 | 67 | RT D - PN 12955 |
| 30 | 4.5 | 48 | RT D (PAST RT K) PN 12818 |
| 31 | 6.5 | 14 | YUCATAN BAPTIST CH. PN 12670 |
| 32 | 5.1 | 2 | BEFORE MOHEGAN RD. PN 19139 |
| 33 | 3.6 | 335 | RT CC - POLE(L. SIDE OF RD) |
| 34 | 4.3 | 288 | RT O - PN 18145 |
| 35 | 5.2 | 310 | GRAVEL RD. - PN 17516 |
| 36 | 3.2 | 264 | RT AD - BRIDGE POST(RT. SIDE) |
| 37 | 3.0 | 237 | RT CC - POLE AT X SEC WITH SIDE RD. |
| 38 | 15.0 | 270 | NEW BLOOMFIELD - BEHIND STORE |
| 39 | 15.0 | 270 | NEW BLOOMFIELD - BEHIND STORE |
| 40 | 20.0 | 203 | HOLTS SUMMIT-BY CHIROPRACTIC CLINIC |

NRC TLD DOSES FOR CALLAWAY AREA (mR per 90 days)



CALVERT CLIFFS
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 871016-880125 102 DAYS
 FIELD TIME 99 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | | NET EXPOSURE RATE | | | |
|----------------|-------------------|---------------|---------------------|------|------|-------------------|-----|------|-------------|
| | AZIMUTH (deg.) | DIST (mi.) | + - | Rdm; | Tot. | mR/Std. Dtr. | + - | Rdm; | Tot. |
| 001 | 275 | 1.5 | 14.9 | +- | .4 | 2.2 | | | NO NET DATA |
| 003 | 284 | 1.7 | 14.3 | +- | .4 | 2.1 | | | NO NET DATA |
| 004 | 323 | 2.4 | 13.8 | +- | .4 | 2.1 | | | NO NET DATA |
| 005 | 297 | 3.1 | 14.7 | +- | .4 | 2.2 | | | NO NET DATA |
| 006 | 324 | 4.7 | 15.1 | +- | .5 | 2.3 | | | NO NET DATA |
| 007 | 324 | 5.5 | 13.3 | +- | .4 | 2.0 | | | NO NET DATA |
| 008 | 256 | 6.1 | 13.5 | +- | .4 | 2.0 | | | NO NET DATA |
| 009 | 273 | 4.1 | 16.2 | +- | .5 | 2.4 | | | NO NET DATA |
| 010 | 253 | 3.7 | 15.4 | +- | .5 | 2.3 | | | NO NET DATA |
| 011 | 238 | 4 | 12.8 | +- | .4 | 1.9 | | | NO NET DATA |
| 012 | 243 | 1.3 | 13.3 | +- | .4 | 2.0 | | | NO NET DATA |
| 013 | 222 | 1.5 | 16.5 | +- | .5 | 2.5 | | | NO NET DATA |
| 014 | 208 | 1.8 | 11.9 | +- | .4 | 1.8 | | | NO NET DATA |
| 015 | 176 | 2.4 | 17.9 | +- | .5 | 2.7 | | | NO NET DATA |
| 016 | 160 | 1.5 | 15.8 | +- | .5 | 2.4 | | | NO NET DATA |
| 019 | 159 | 3.8 | 14.1 | +- | .4 | 2.1 | | | NO NET DATA |
| 020 | 139 | 4.7 | 13.6 | +- | .4 | 2.0 | | | NO NET DATA |
| 021 | 201 | 4 | 14.4 | +- | .4 | 2.2 | | | NO NET DATA |
| 022 | 187 | 4.7 | 13.5 | +- | .4 | 2.0 | | | NO NET DATA |
| 023 | 201 | 8.7 | 14.2 | +- | .4 | 2.1 | | | NO NET DATA |
| 024 | 198 | 7.8 | 12.8 | +- | .4 | 1.9 | | | NO NET DATA |
| 025 | 325 | 6.7 | 12.6 | +- | .4 | 1.9 | | | NO NET DATA |
| 026 | 314 | 11. | 11.7 | +- | .4 | 1.8 | | | NO NET DATA |
| 027 | 314 | 11. | 12.8 | +- | .4 | 1.9 | | | NO NET DATA |
| 028 | 315 | 10. | 16.6 | +- | .5 | 2.5 | | | NO NET DATA |
| 029 | 186 | 12. | 15.4 | +- | .5 | 2.3 | | | NO NET DATA |

NO TRANSIT DOSE CALCULATED (TLD CONTROLS MISSING OR OTHERWISE NOT COMPLETE)

CALVERT CLIFFS
FOR THE PERIOD 871016-880125

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | NO DATA+-NO DATA | 0 |
| 11.25-33.75 (NNE) | NO DATA+-NO DATA | 0 |
| 33.75-56.25 (NE) | NO DATA+-NO DATA | 0 |
| 56.25-78.75 (ENE) | NO DATA+-NO DATA | 0 |
| 78.75-101.25 (E) | NO DATA+-NO DATA | 0 |
| 101.25-123.75 (ESE) | NO DATA+-NO DATA | 0 |
| 123.75-146.25 (SE) | 12.4 \pm 0.0 | 1 |
| 146.25-168.75 (SSE) | 13.6 \pm 1.1 | 2 |
| 168.75-191.25 (S) | 13.5 \pm 2.1 | 4 |
| 191.25-213.75 (SSW) | 12.2 \pm 1.3 | 3 |
| 213.75-236.25 (SW) | 13.3 \pm 2.3 | 2 |
| 236.25-258.75 (WSW) | 12.8 \pm 1.0 | 3 |
| 258.75-281.25 (W) | 14.1 \pm .9 | 2 |
| 281.25-303.75 (WNW) | 13.2 \pm .3 | 2 |
| 303.75-326.25 (NW) | 12.4 \pm 1.0 | 4 |
| 326.25-348.75 (NNW) | NO DATA+-NO DATA | 0 |
| | | |

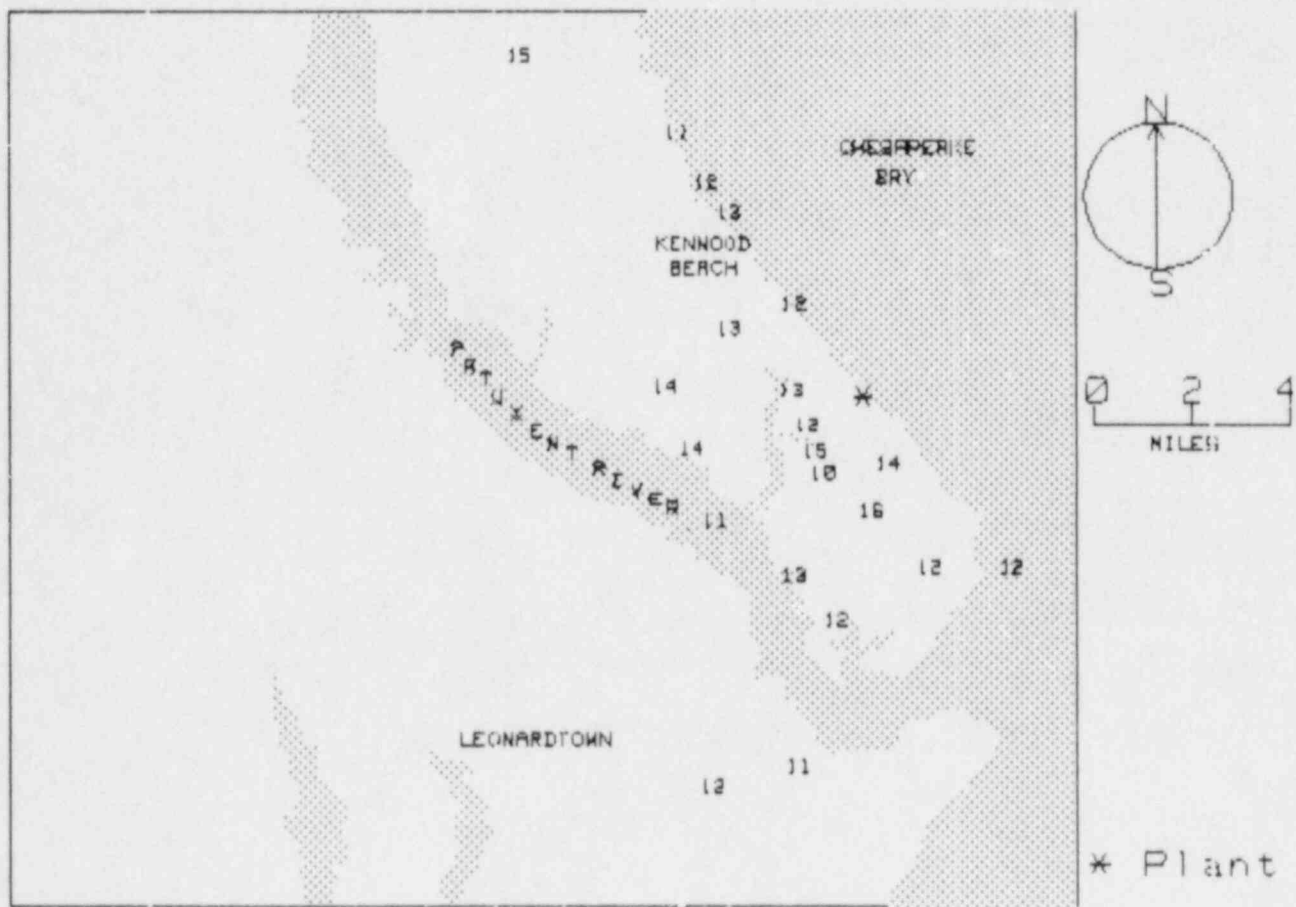
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 13.1 \pm 1.5 | 6 |
| 2-5 | 13.3 \pm 1.3 | 11 |
| >5 | 12.4 \pm .9 | 6 |
| UPWIND CONTROL DATA | 12.4 \pm 2.3 | 3 |

CALVERT CLIFFS

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|------------------------------------|
| 1 | 1.5 | 275 | ROUTE 2, KNOTTY PINE |
| 3 | 1.7 | 284 | ROUTE 2 |
| 4 | 2.4 | 323 | LONG BEACH |
| 5 | 3.1 | 297 | ROUTE 2 AND PARRAN ROAD |
| 6 | 4.7 | 324 | ROUTE 2, CLIFFS MOTEL |
| 7 | 5.5 | 324 | GOVERNOR RUN |
| 8 | 6.1 | 256 | BROOMES ISLAND |
| 9 | 4.1 | 273 | ROUTE 265(BOWEN ROAD) |
| 10 | 3.7 | 253 | WALLVILLE |
| 11 | 4.0 | 230 | ST. LEONARD CREEK |
| 12 | 1.3 | 243 | ROUTE 2 |
| 13 | 1.5 | 222 | ROUTE 2(JOHNS CREEK) |
| 14 | 1.8 | 208 | LUSBY |
| 15 | 2.4 | 176 | ROUTE 2, MIDDLEHAM CHAPEL |
| 16 | 1.5 | 160 | CAMP CANOY(BEFORE GEORGE'S GARAGE) |
| 19 | 3.8 | 159 | ROUTE 497&LITTLE COVE POINT ROAD |
| 20 | 4.7 | 139 | COVE POINT |
| 21 | 4.0 | 201 | MILL BRIDGE ROAD & TURNER FORD |
| 22 | 4.7 | 187 | APPEAL |
| 23 | 8.7 | 201 | S.PAXTUENT BEACH RD. |
| 24 | 7.8 | 190 | SOLOMONS ISLAND |
| 25 | 6.7 | 325 | SCIENTIST CLIFFS |
| 26 | 11.0 | 314 | PRINCE FREDERICK |
| 27 | 11.0 | 314 | PRINCE FREDERICK |
| 28 | 10.0 | 315 | PRINCE FREDERICK |
| 29 | 12.0 | 186 | LEXINGTON PARK |

NRC TLD DOSES FOR CALVERT CLIFFS AREA
(mR per 90 days)



CATAWBA
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870917-880202 139 DAYS
 FIELD TIME 91 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | | NET EXPOSURE RATE | | | |
|----------------|-------------------|---------------|------------------------------|------|------|-------------------|-----|-----------|--|
| | AZIMUTH (deg.) | DIST (mi.) | +/- | Rdm; | Tot. | mR/Std. Qtr. | +/- | Rdm; Tot. | |
| 001 | 134 | 0.1 | 25.4 | +- | .8 | 17.8 | +- | .9 | |
| 002 | 162 | 0.4 | 21.9 | +- | .7 | 13.8 | +- | .8 | |
| 003 | 132 | 0.8 | 25.9 | +- | .6 | 17.8 | +- | .8 | |
| 004 | 111 | 1.3 | 23.9 | +- | .7 | 15.8 | +- | .8 | |
| 005 | 045 | 0.7 | 23.2 | +- | .7 | 14.8 | +- | .8 | |
| 006 | 298 | 1.3 | 23.9 | +- | .7 | 15.8 | +- | .8 | |
| 007 | 004 | 0.6 | 23.0 | +- | .7 | 14.8 | +- | .8 | |
| 008 | 332 | 1.5 | 26.3 | +- | .8 | 17.8 | +- | .8 | |
| 009 | 318 | 1.6 | 19.1 | +- | .6 | 10.8 | +- | .8 | |
| 010 | 176 | 1.8 | 22.9 | +- | .7 | 14.8 | +- | .8 | |
| 011 | 203 | 1.5 | 23.2 | +- | .7 | 14.8 | +- | .8 | |
| 012 | 225 | 1.5 | 25.9 | +- | .8 | 17.8 | +- | .8 | |
| 013 | 250 | 1.9 | 19.9 | +- | .6 | 11.8 | +- | .8 | |
| 014 | 270 | 1.4 | 20.2 | +- | .6 | 11.8 | +- | .8 | |
| 015 | 331 | 3.0 | 18.7 | +- | .6 | 10.4 | +- | .7 | |
| 016 | 311 | 3.9 | 17.8 | +- | .5 | 9.5 | +- | .7 | |
| 017 | 296 | 9.5 | 24.5 | +- | .7 | 16.1 | +- | .9 | |
| 018 | 324 | 4.8 | MISSING OR DAMAGED DOSIMETER | | | | | | |
| 019 | 352 | 4.8 | 18.7 | +- | .6 | 10.4 | +- | .7 | |
| 020 | 022 | 4.8 | 24.5 | +- | .7 | 16.1 | +- | .9 | |
| 021 | 290 | 3.9 | 21.7 | +- | .6 | 13.4 | +- | .8 | |
| 022 | 266 | 4.8 | 24.6 | +- | .7 | 16.2 | +- | .9 | |
| 023 | 251 | 4.8 | 17.4 | +- | .5 | 9.2 | +- | .7 | |
| 024 | 229 | 3.9 | 18.2 | +- | .5 | 9.7 | +- | .7 | |
| 025 | 202 | 4.4 | 25.1 | +- | .8 | 16.8 | +- | .9 | |
| 026 | 051 | 4.3 | 25.8 | +- | .8 | 16.7 | +- | .9 | |
| 027 | 064 | 7.9 | 18.3 | +- | .5 | 10.8 | +- | .7 | |
| 028 | 061 | 4.9 | 23.8 | +- | .7 | 14.7 | +- | .8 | |
| 029 | 049 | 1.9 | MISSING OR DAMAGED DOSIMETER | | | | | | |
| 030 | 064 | 1.8 | 22.1 | +- | .7 | 13.8 | +- | .8 | |
| 031 | 087 | 1.6 | 21.3 | +- | .6 | 13.8 | +- | .8 | |
| 032 | 121 | 2.6 | 22.8 | +- | .7 | 14.8 | +- | .8 | |
| 033 | 114 | 7.6 | 19.6 | +- | .6 | 11.3 | +- | .7 | |
| 034 | 093 | 4.5 | 23.8 | +- | .7 | 14.8 | +- | .8 | |
| 035 | 132 | 4.3 | 26.7 | +- | .8 | 18.3 | +- | .9 | |
| 036 | 163 | 8.9 | 19.8 | +- | .6 | 10.7 | +- | .7 | |
| 037 | 173 | 4.9 | 21.4 | +- | .6 | 13.1 | +- | .8 | |
| 038 | 157 | 4.6 | 25.8 | +- | .8 | 17.8 | +- | .9 | |
| 039 | 248 | 10. | 22.9 | +- | .7 | 14.8 | +- | .8 | |
| 040 | 229 | 12. | 23.4 | +- | .7 | 15.1 | +- | .8 | |
| 041 | 218 | 13. | MISSING OR DAMAGED DOSIMETER | | | | | | |
| 042 | 213 | 16. | 25.7 | +- | .8 | 17.3 | +- | .9 | |
| TRANSIT DOSE = | | | 8.1 | +- | .5 | 6.5 | | | |

CATAWBA
FOR THE PERIOD 870917-880202

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std. Dev. | # IN GROUP |
|---------------------|--|------------|
| 348.75-11.25 (N) | 12.5 \pm 3.0 | 2 |
| 11.25-33.75 (NNE) | 16.1 \pm 0.0 | 1 |
| 33.75-56.25 (NE) | 15.8 \pm 1.3 | 2 |
| 56.25-78.75 (ENE) | 12.8 \pm 2.5 | 3 |
| 78.75-101.25 (E) | 13.8 \pm 1.2 | 2 |
| 101.25-123.75 (ESE) | 13.8 \pm 2.2 | 3 |
| 123.75-146.25 (SE) | 17.6 \pm .6 | 3 |
| 146.25-168.75 (SSE) | 13.9 \pm 3.4 | 3 |
| 168.75-191.25 (S) | 13.8 \pm 1.0 | 2 |
| 191.25-213.75 (SSW) | 15.8 \pm 1.4 | 2 |
| 213.75-236.25 (SW) | 13.7 \pm 5.4 | 2 |
| 236.25-258.75 (WSW) | 11.8 \pm 2.7 | 3 |
| 258.75-281.25 (W) | 14.1 \pm 3.1 | 2 |
| 281.25-303.75 (WNW) | 15.0 \pm 1.5 | 3 |
| 303.75-326.25 (NW) | 10.1 \pm .9 | 2 |
| 326.25-348.75 (NNW) | 14.2 \pm 5.3 | 2 |
| | | |

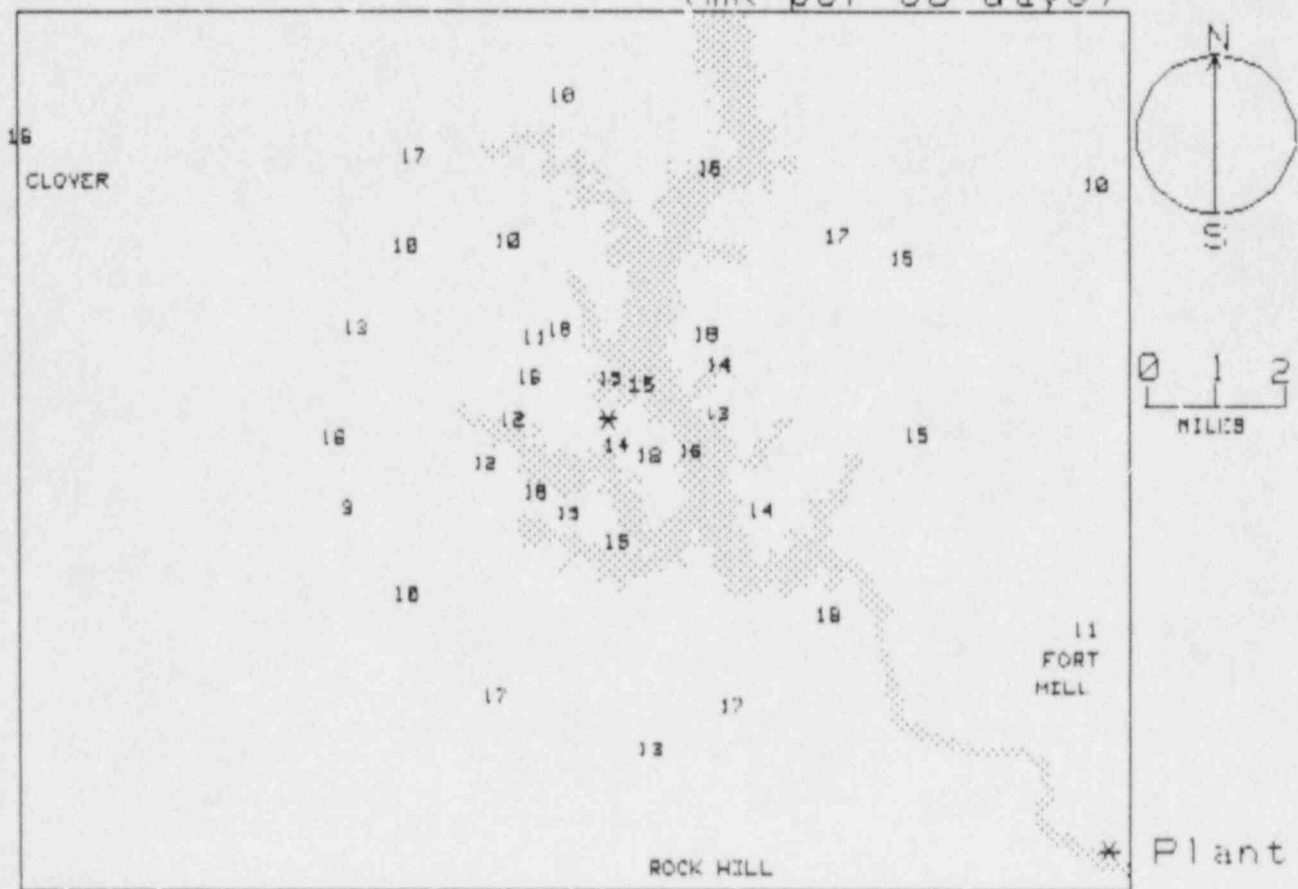
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std. Dev. | # IN GROUP |
|-------------------------------|--|------------|
| 0-2 | 14.7 \pm 2.2 | 16 |
| 2-5 | 13.8 \pm 3.1 | 16 |
| >5 | 12.5 \pm 2.6 | 5 |
| UPWIND CONTROL DATA | 16.2 \pm 1.6 | 2 |

CATAWBA

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|---|
| 1 | .1 | 134 | CATAWBA OVERLOOK CENTER |
| 2 | .4 | 162 | DISCHARGE CANAL |
| 3 | .8 | 132 | CONCORD RD. |
| 4 | 1.3 | 111 | ENT. COMMODORE YACHT CLUB |
| 5 | .7 | 45 | BLUEBIRD LN. |
| 6 | 1.3 | 298 | DUKE POWER SUBSTATION |
| 7 | .6 | 4 | DPC ENVIRON. MONITOR. STATION |
| 8 | 1.5 | 332 | HV POWER LINES |
| 9 | 1.6 | 318 | JCT HWY 274 & LIBERTY HILL RD. |
| 10 | 1.8 | 176 | S. OF MARTHA'S VINEYARD RD. |
| 11 | 1.5 | 203 | ALLISON CR. RD.(W. OF BARDALE RD.) |
| 12 | 1.5 | 225 | ALLISON CR. RD.(W. OF GRANVILLA RD) |
| 13 | 1.9 | 250 | ALLISON CR. PRESBYTERIAN CHURCH |
| 14 | 1.4 | 270 | ALLISON CREEK LANDING |
| 15 | 3.0 | 331 | BETHEL BAPTIST CHURCH |
| 16 | 3.9 | 311 | BETHEL SCHOOL |
| 17 | 9.5 | 296 | CLOVER POST OFFICE |
| 18 | 4.8 | 324 | CHANDLER RD OFF BETHEL SCH. RD |
| 19 | 4.8 | 352 | BETHEL LUMBER CO. |
| 20 | 4.0 | 22 | HUNGRY FISHERMAN RESTAURANT |
| 21 | 3.9 | 290 | INTERSEC. C.R. 114 & 152 |
| 22 | 4.0 | 266 | INTERSEC. HWY 49 & C.R. 54 |
| 23 | 4.0 | 251 | INTERSEC. HWYS 54 & 80 |
| 24 | 3.9 | 229 | HV POWER LINE (HWY 54) |
| 25 | 4.4 | 202 | CARTER LUMBER CO. |
| 26 | 4.3 | 51 | HV POWER LINE (HWY 49 & PLEASANT HILL RD) |
| 27 | 7.9 | 64 | CAROWINDS AMUSEMENT PARK |
| 28 | 4.9 | 61 | INTERSEC. HAMILTON & STEELE CR. RDS |
| 29 | 1.9 | 49 | INTERSEC. SNUG HARBOR & KILABASH RDS |
| 30 | 1.3 | 64 | S. ON SNUG HARBOR RD |
| 31 | 1.6 | 87 | JUNC. BANKHEAD RD & WILBANKS RD |
| 32 | 2.6 | 121 | TEGA CAY (DPC SUBSTATION) |
| 33 | 7.6 | 114 | C&S SUPERETTE (FT. MILL) |
| 34 | 4.5 | 93 | FT. MILL TELEPHONE CO. |
| 35 | 4.3 | 132 | US WILDLIFE RESOURCES STATION |
| 36 | 8.9 | 163 | VILLAGE GAS PUMPS (C.R. 274) |
| 37 | 4.9 | 173 | BRYANT AIRPORT |
| 38 | 4.6 | 157 | JCT TWIN LAKES RD & HOMESTEAD RD |
| 39 | 10.0 | 248 | YORK COUNTY HEALTH CENTER |
| 40 | 12.0 | 229 | PHILADELPHIA UNITED CHURCH |
| 41 | 13.0 | 218 | JCT. HWY 321 & DAVES RD |
| 42 | 16.0 | 213 | FIRE DEPT & POST OFF. (McCONNELLS, SC) |

NRC TLD DOSES FOR CATAWBA AREA (mR per 90 days)



CLINTON
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870914-880202 142 DAYS
 FIELD TIME 91 DAYS

| NRC STATION | LOCATION | | GROSS | | NET EXPOSURE RATE | | |
|----------------|--------------------|---------------|--------------|-------------|-------------------|-------------|-------|
| | AZIMLTH/ (deg.) | DIST (mi.) | EXPOSURE(mR) | + Rdm; Tot. | mR/Std. Qtr. | + Rdm; Tot. | |
| 001 | 352 | 0.6 | 27.4 | +- .8 | 4.1 | 22.9 | +- .9 |
| 002 | 7 | 0.7 | 22.0 | +- .7 | 3.3 | 17.5 | +- .7 |
| 003 | 26 | 0.8 | 24.1 | +- .7 | 3.3 | 19.6 | +- .8 |
| 004 | 165 | 0.7 | 23.7 | +- .7 | 3.3 | 19.3 | +- .8 |
| 005 | 187 | 0.5 | 23.3 | +- .7 | 3.3 | 18.8 | +- .8 |
| 006 | 223 | 0.6 | 23.3 | +- .7 | 3.3 | 18.8 | +- .8 |
| 007 | 238 | 6.0 | 22.4 | +- .7 | 3.3 | 18.8 | +- .8 |
| 008 | 62 | 1.9 | 22.1 | +- .7 | 3.3 | 17.7 | +- .8 |
| 009 | 78 | 1.0 | 23.0 | +- .7 | 3.3 | 19.3 | +- .8 |
| 010 | 79 | 2.6 | 21.3 | +- .6 | 3.3 | 16.9 | +- .8 |
| 011 | 104 | 2.3 | 21.9 | +- .7 | 3.3 | 17.5 | +- .8 |
| 012 | 115 | 3.0 | 18.9 | +- .6 | 3.3 | 14.4 | +- .8 |
| 013 | 127 | 3.2 | 22.0 | +- .7 | 3.3 | 17.6 | +- .8 |
| 014 | 160 | 2.1 | 22.0 | +- .7 | 3.3 | 18.9 | +- .8 |
| 015 | 180 | 3.0 | 24.4 | +- .7 | 3.3 | 19.9 | +- .8 |
| 016 | 203 | 3.2 | 22.1 | +- .7 | 3.3 | 17.9 | +- .8 |
| 017 | 235 | 3.7 | 24.3 | +- .7 | 3.3 | 19.3 | +- .8 |
| 018 | 255 | 3.0 | 25.0 | +- .7 | 3.3 | 20.0 | +- .8 |
| 019 | 275 | 3.0 | 23.0 | +- .7 | 3.3 | 19.0 | +- .8 |
| 020 | 302 | 3.9 | 22.2 | +- .7 | 3.3 | 17.9 | +- .8 |
| 021 | 305 | 3.0 | 22.2 | +- .7 | 3.3 | 17.9 | +- .8 |
| 022 | 332 | 3.0 | 21.0 | +- .7 | 3.3 | 16.7 | +- .8 |
| 023 | 350 | 3.6 | 22.6 | +- .7 | 3.3 | 18.0 | +- .8 |
| 024 | 350 | 4.6 | 24.0 | +- .7 | 3.3 | 20.0 | +- .8 |
| 025 | 20 | 3.9 | 21.1 | +- .6 | 3.3 | 16.0 | +- .8 |
| 026 | 46 | 3.0 | 23.0 | +- .7 | 3.3 | 18.0 | +- .8 |
| 027 | 62 | 3.0 | 20.0 | +- .6 | 3.3 | 15.0 | +- .8 |
| 028 | 90 | 4.0 | 19.0 | +- .6 | 3.3 | 14.0 | +- .8 |
| 029 | 115 | 3.2 | 21.0 | +- .6 | 3.3 | 16.0 | +- .8 |
| 030 | 120 | 3.1 | 21.0 | +- .6 | 3.3 | 16.0 | +- .8 |
| 031 | 153 | 3.0 | 22.0 | +- .7 | 3.3 | 17.0 | +- .8 |
| 032 | 173 | 3.2 | 21.0 | +- .6 | 3.3 | 16.0 | +- .8 |
| 033 | 205 | 4.7 | 22.3 | +- .7 | 3.3 | 17.7 | +- .8 |
| 034 | 236 | 5.4 | 22.1 | +- .7 | 3.3 | 17.4 | +- .8 |
| 035 | 252 | 5.0 | 21.0 | +- .7 | 3.3 | 16.4 | +- .8 |
| 036 | 263 | 6.0 | 19.3 | +- .6 | 3.3 | 14.3 | +- .8 |
| 037 | 272 | 4.0 | 22.0 | +- .7 | 3.3 | 17.6 | +- .8 |
| 038 | 280 | 4.0 | 22.1 | +- .7 | 3.3 | 17.7 | +- .8 |
| 039 | 297 | 7.0 | 18.7 | +- .6 | 3.3 | 14.4 | +- .8 |
| 040 | 315 | 5.1 | 22.4 | +- .7 | 3.3 | 18.0 | +- .8 |
| 041 | 342 | 4.0 | 23.4 | +- .7 | 3.3 | 18.9 | +- .8 |
| 042 | 65/ | 10. | 22.8 | +- .7 | 3.3 | 18.0 | +- .8 |
| 043 | 148 | 14. | 20.4 | +- .6 | 3.3 | 15.0 | +- .8 |
| 044 | 148 | 14. | 22.4 | +- .7 | 3.3 | 17.9 | +- .8 |
| 044 | 206 | 15. | 18.7 | +- .6 | 3.3 | 14.2 | +- .8 |

TRANSIT DOSE = 4.2 +- .4 ; 5.2

CLINTON
FOR THE PERIOD 870914-880202

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 20.0 \pm 2.7 | 3 |
| 11.25-33.75 (NNE) | 18.2 \pm 2.1 | 2 |
| 33.75-56.25 (NE) | 18.5 \pm 0.0 | 1 |
| 56.25-78.75 (ENE) | 17.9 \pm 1.3 | 4 |
| 78.75-101.25 (E) | 16.1 \pm 1.0 | 2 |
| 101.25-123.75 (ESE) | 16.2 \pm 1.6 | 3 |
| 123.75-146.25 (SE) | 17.4 \pm .3 | 2 |
| 146.25-168.75 (SSE) | 18.6 \pm .5 | 3 |
| 168.75-191.25 (S) | 18.6 \pm 1.4 | 3 |
| 191.25-213.75 (SSW) | 17.7 \pm .1 | 2 |
| 213.75-236.25 (SW) | 18.7 \pm 1.1 | 3 |
| 236.25-258.75 (WSW) | 18.6 \pm 1.7 | 3 |
| 258.75-281.25 (W) | 17.3 \pm 2.2 | 3 |
| 281.25-303.75 (WNW) | 16.8 \pm 2.0 | 3 |
| 303.75-326.25 (NW) | 17.7 \pm .4 | 2 |
| 326.25-348.75 (NNW) | 18.5 \pm .6 | 2 |
| | | |

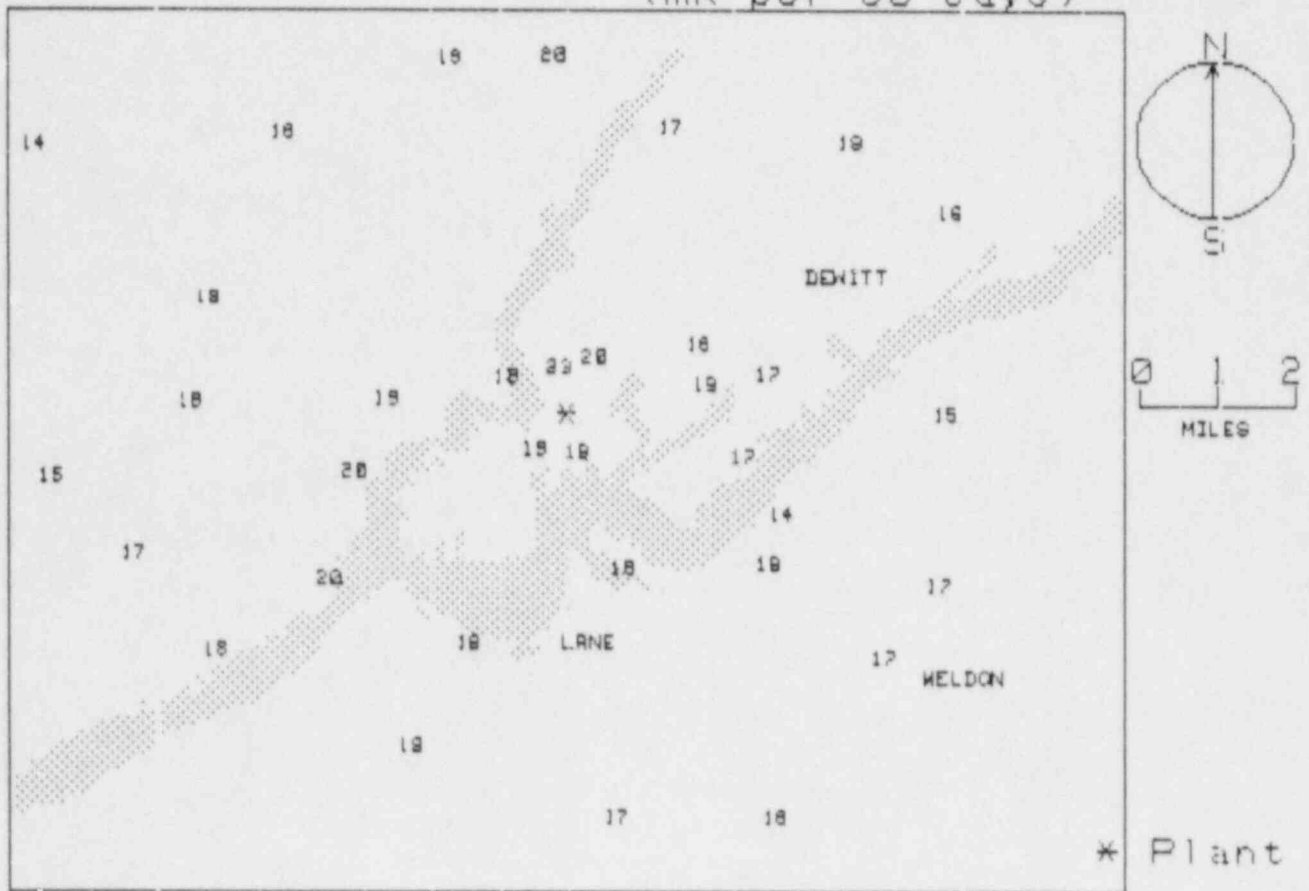
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 18.8 \pm 1.5 | 12 |
| 2-5 | 18.0 \pm 1.6 | 18 |
| >5 | 16.8 \pm 1.3 | 11 |
| UPWIND CONTROL DATA | 16.0 \pm 1.6 | 3 |

CLINTON

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|------------------------------------|
| 1 | .6 | 352 | ALONG IL. 54 |
| 2 | .7 | 7 | ON IL. POWER CO. RD. |
| 3 | .8 | 26 | ON I.P.C. RD.(NE) |
| 4 | .5 | 165 | ON I.P.C. RD.(S) |
| 5 | .5 | 187 | ON I.P.C. RD.(S) |
| 6 | .6 | 223 | ON I.P.C. RD.(S) |
| 7 | .8 | 238 | ON I.P.C. RD.(S) |
| 8 | 1.9 | 62 | IL. 54 & COUNTY 10 INTERSECTION |
| 9 | 1.8 | 78 | ON CTY. 10(NEXT INTER.) |
| 10 | 2.6 | 79 | DEWITT(T-INTER.) |
| 11 | 2.3 | 104 | MASCOUTINE ST. PK. |
| 12 | 3.0 | 115 | ON COUNTY 14 |
| 13 | 3.2 | 127 | CTY. 14 & CTY. 5(INTER.) |
| 14 | 2.1 | 160 | ON CTY. 5(CLINTON LK. MARINA SIGN) |
| 15 | 3.0 | 180 | ON IL. 10(DAY CAMP SIGN) |
| 16 | 3.2 | 203 | IL. 10 & CTY. 12(INTER.) |
| 17 | 3.7 | 235 | W. ACCESS RD.(TRANS. LINE) |
| 18 | 2.8 | 255 | W. ACCESS RD.(INTER) |
| 19 | 2.3 | 275 | W. ACCESS RD.(NEAR IL. 54) |
| 20 | .9 | 302 | ON IL. 54(R.R. XING) |
| 21 | .8 | 305 | ON IL. 54(VISITOR CNTR.) |
| 22 | .6 | 332 | ON IL. 54 |
| 23 | 4.6 | 358 | INTER. E. OF CTY. 16 |
| 24 | 3.9 | 20 | ON CTY. 10 |
| 25 | 5.0 | 46 | ON CTY. 10 |
| 26 | 5.5 | 62 | IL. 54 & IL. 48(INTER.) |
| 27 | 4.8 | 90 | ON IL. 48 |
| 28 | 5.2 | 115 | ON IL. 48 |
| 29 | 5.1 | 128 | ON IL. 10(NEAR WELDON) |
| 30 | 5.8 | 153 | CTY. 14 & CTY. 15(INTER.) |
| 31 | 5.2 | 173 | CTY. 15 & CTY. 5(INTER.) |
| 32 | 4.7 | 205 | ON CTY. 15 |
| 33 | 5.4 | 236 | ON CTY. 18(WELDON SPRINGS FK.) |
| 34 | 5.8 | 252 | ON CTY. 1 |
| 35 | 6.6 | 263 | CLINTON-EISNER AGENCY STORE(SUBST) |
| 36 | 4.8 | 272 | ON CTY. 1 |
| 37 | 4.8 | 288 | ON CTY 1 |
| 38 | 7.6 | 297 | WAPPELLA WATER TOWER |
| 39 | 5.1 | 315 | ON CTY. 10 |
| 40 | 4.8 | 342 | ON CTY. 16 |
| 41 | 10.0 | 65 | FARMER CITY STATE BANK |
| 42 | 14.0 | 148 | ARGENTA MUNIC. BLDG. |
| 43 | 14.0 | 148 | ARGENTA MUNIC. BLDG. |
| 44 | 15.0 | 206 | EMERY(R.R. XING) |

NRC TLD DOSES FOR CLINTON AREA
(mR per 90 days)



COMANCHE PK.
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870915-880127 135 DAYS
 FIELD TIME 78 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|----------------|-------------------|---------------|------------------------|--------|-------------------|-------------|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | - Tot. | mR/Std. Qtr. | + Rdm; Tot. |
| 001 | 306 | 1.4 | 17.7 | +- | 15.3 | +- |
| 002 | 285 | 1.5 | 18.7 | +- | 16.4 | +- |
| 003 | 268 | 1.1 | 17.5 | +- | 15.0 | +- |
| 004 | 253 | .9 | 18.2 | +- | 15.9 | +- |
| 005 | 218 | 1.0 | 13.9 | +- | 16.7 | +- |
| 006 | 200 | 1.1 | 16.9 | +- | 14.4 | +- |
| 007 | 180 | 1.4 | 18.4 | +- | 16.4 | +- |
| 008 | 163 | 1.6 | 18.8 | +- | 16.8 | +- |
| 009 | 148 | 1.1 | 18.8 | +- | 16.8 | +- |
| 010 | 118 | 1.1 | 18.8 | +- | 16.4 | +- |
| 011 | 93 | 1.1 | 21.4 | +- | 16.9 | +- |
| 012 | 73 | 1.4 | 20.2 | +- | 16.9 | +- |
| 013 | 53 | 1.7 | 16.9 | +- | 14.3 | +- |
| 014 | 34 | 4.3 | 16.9 | +- | 14.4 | +- |
| 015 | 18 | 7.9 | 21.1 | +- | 16.4 | +- |
| 016 | 1 | 4.4 | 16.9 | +- | 16.9 | +- |
| 017 | 22 | 4.4 | 17.9 | +- | 16.4 | +- |
| 018 | 42 | 4.4 | 18.8 | +- | 16.4 | +- |
| 019 | 62 | 4.4 | 17.4 | +- | 16.4 | +- |
| 020 | 82 | 4.4 | 17.4 | +- | 16.4 | +- |
| 021 | 102 | 4.4 | 17.4 | +- | 16.4 | +- |
| 022 | 122 | 4.4 | 18.4 | +- | 16.4 | +- |
| 023 | 142 | 4.4 | 18.4 | +- | 16.4 | +- |
| 024 | 162 | 4.4 | 17.9 | +- | 16.4 | +- |
| 025 | 182 | 4.4 | 18.1 | +- | 16.4 | +- |
| 026 | 202 | 4.4 | 17.4 | +- | 16.4 | +- |
| 027 | 222 | 4.4 | 17.4 | +- | 16.4 | +- |
| 028 | 242 | 4.4 | 17.4 | +- | 16.4 | +- |
| 029 | 262 | 4.4 | 17.4 | +- | 16.4 | +- |
| 030 | 282 | 4.4 | 18.4 | +- | 16.4 | +- |
| 031 | 302 | 4.4 | 17.4 | +- | 16.4 | +- |
| 032 | 322 | 4.4 | 19.4 | +- | 16.4 | +- |
| 033 | 342 | 4.4 | 18.4 | +- | 16.4 | +- |
| 034 | 362 | 4.4 | 18.4 | +- | 16.4 | +- |
| 035 | 382 | 4.4 | 19.4 | +- | 16.4 | +- |
| 036 | 402 | 4.4 | 18.4 | +- | 16.4 | +- |
| 037 | 422 | 4.4 | 18.4 | +- | 16.4 | +- |
| 038 | 442 | 4.4 | 18.4 | +- | 16.4 | +- |
| 039 | 462 | 4.4 | 18.4 | +- | 16.4 | +- |
| 040 | 482 | 4.4 | 19.4 | +- | 16.4 | +- |
| 041 | 502 | 4.4 | 19.4 | +- | 16.4 | +- |
| 042 | 522 | 4.4 | 17.4 | +- | 16.4 | +- |
| 043 | 542 | 4.4 | 19.4 | +- | 16.4 | +- |
| 044 | 562 | 4.4 | 16.4 | +- | 16.4 | +- |
| 045 | 582 | 4.4 | 18.4 | +- | 16.4 | +- |
| 046 | 602 | 4.4 | 18.4 | +- | 16.4 | +- |
| 047 | 622 | 4.4 | 18.4 | +- | 16.4 | +- |
| TRANSIT DOSE = | | | 4.4 | +- | 3.3 | +- |

MISSING OR DAMAGED DOSIMETER

COMANCHE PK.
FOR THE PERIOD 870915-880127

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 15.7 \pm .1 | 2 |
| 11.25-33.75 (NNE) | 15.8 \pm 1.6 | 3 |
| 33.75-56.25 (NE) | 15.5 \pm .8 | 2 |
| 56.25-78.75 (ENE) | 18.2 \pm 0.0 | 1 |
| 78.75-101.25 (E) | 18.2 \pm 2.5 | 3 |
| 101.25-123.75 (ESE) | 16.4 \pm 2.0 | 4 |
| 123.75-146.25 (SE) | 16.6 \pm .8 | 3 |
| 146.25-168.75 (SSE) | 15.1 \pm 1.3 | 3 |
| 168.75-191.25 (S) | 18.0 \pm 1.6 | 3 |
| 191.25-213.75 (SSW) | 16.0 \pm 2.2 | 2 |
| 213.75-236.25 (SW) | 15.7 \pm 1.1 | 3 |
| 236.25-258.75 (WSW) | 15.7 \pm 1.4 | 5 |
| 258.75-281.25 (W) | 14.8 \pm .4 | 3 |
| 281.25-303.75 (WNW) | 16.5 \pm .2 | 4 |
| 303.75-326.25 (NW) | 15.9 \pm .6 | 3 |
| 326.25-348.75 (NNW) | 16.0 \pm .7 | 2 |
| | | |

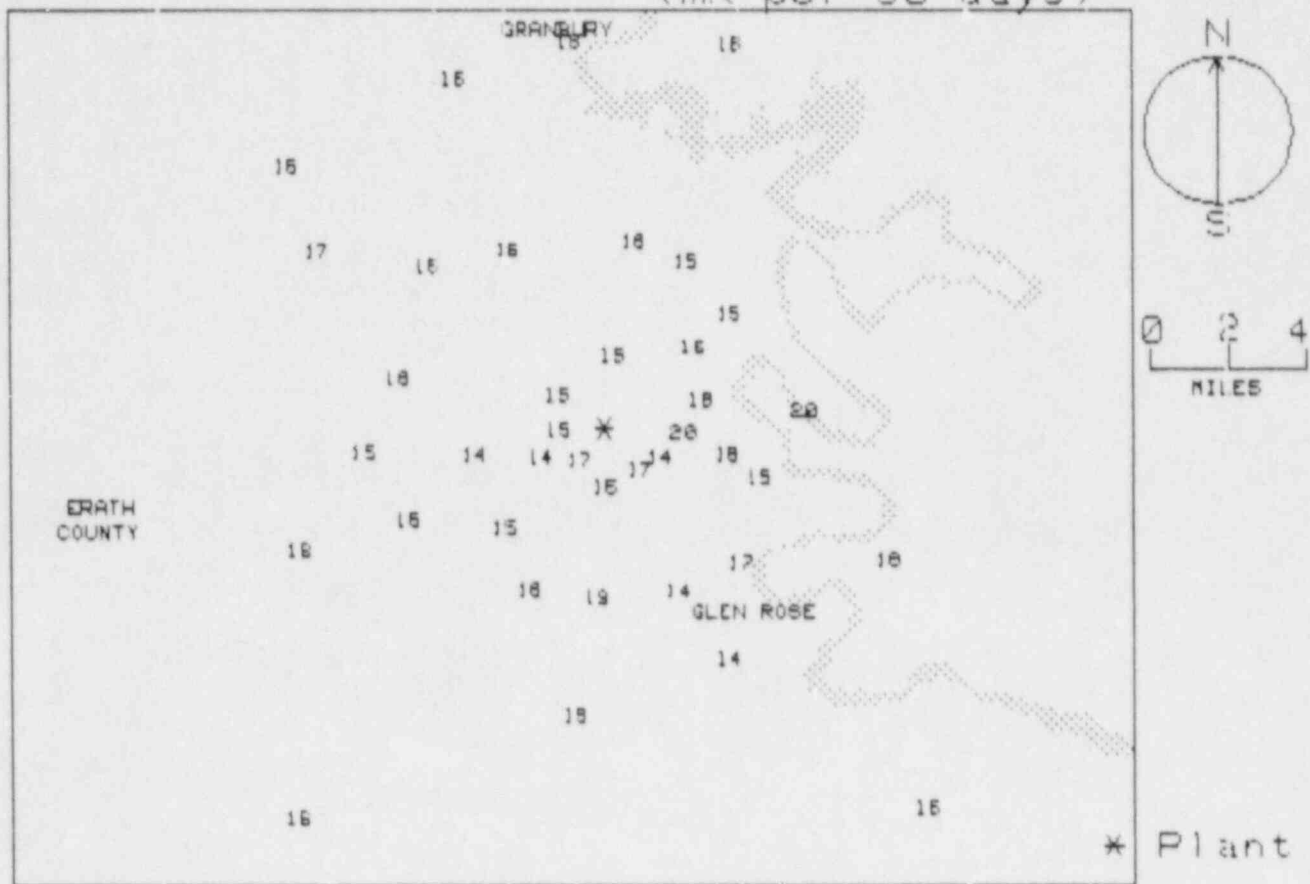
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 15.7 \pm 1.4 | 15 |
| 2-5 | 16.4 \pm 1.7 | 15 |
| >5 | 16.5 \pm 1.2 | 16 |
| UPWIND CONTROL DATA | NO DATA | NO DATA |

COMANCHE PK.

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|------------------------------|
| 1 | 1.4 | 306 | SITE OF TEXAS TLD#1 |
| 2 | 1.5 | 285 | SITE OF TEXAS TLD#2 |
| 3 | 1.1 | 268 | SITE OF TEXAS TLD#3 |
| 4 | .9 | 253 | SITE OF TEXAS TLD#4 |
| 5 | 1.0 | 218 | SITE OF TEXAS TLD#5 |
| 6 | 1.0 | 200 | SITE OF TEXAS TLD#6 |
| 7 | 1.4 | 180 | ST OF TEX#7 |
| 8 | 1.6 | 163 | SITE OF TEXAS TLD#8 |
| 9 | 1.3 | 140 | SITE OF TEXAS TLD#9 |
| 10 | 1.5 | 118 | SITE OF TEXAS TLD#10 |
| 11 | 1.9 | 93 | SITE OF TEXAS TLD#11 |
| 12 | 2.4 | 73 | SITE OF TEXAS TLD#12 |
| 13 | 1.7 | 245 | FM201-0.6 MI S. OF GATE |
| 14 | 4.3 | 156 | HWY 67 AT 201 |
| 15 | 7.0 | 186 | HWY 67-WARD RANCH(CEMETARY) |
| 16 | 4.1 | 183 | HWY 67 AT 205 |
| 17 | 4.3 | 205 | DINOSAUR ST. PARK |
| 18 | 3.4 | 225 | UTILITY POLE(OFF HWY 201) |
| 19 | 5.2 | 245 | RUNNING M RANCH |
| 20 | 5.8 | 264 | SIREN POLE #19 |
| 21 | 3.2 | 258 | SIREN POLE #7 |
| 22 | 5.1 | 284 | SIREN POLE #18 |
| 23 | 5.8 | 313 | HWY 206 & 51 |
| 24 | 4.9 | 332 | HWY 212(LONE STAR PET. GATE) |
| 25 | 4.6 | 9 | HWY 144 & 2425 |
| 26 | 4.5 | 26 | RD 310A |
| 27 | 4.1 | 47 | HWY 310 & 2425 |
| 28 | 1.8 | 6 | SITE OF TEXAS TLD#14 |
| 29 | 1.9 | 16 | SITE OF TEXAS TLD#13 |
| 30 | 3.0 | 102 | HAPPY HILLS CHILD. HOME |
| 31 | 3.9 | 108 | FM RD 200 |
| 32 | 4.6 | 135 | HWY 67 AT 144 |
| 33 | 6.3 | 152 | HWY 56-CABLE SIGN |
| 34 | 2.9 | 47 | HWY 144 & 2425 |
| 35 | 4.8 | 85 | SITE OF TEXAS TLD#39 |
| 36 | 7.5 | 115 | HWY 200 & 402 |
| 37 | 9.4 | 355 | HOOD CITY HOSP. |
| 38 | 9.2 | 337 | HWY 377 & 203 |
| 39 | 9.9 | 310 | CITY OF TULAR |
| 40 | 8.1 | 302 | FM RD 201 |
| 41 | 7.9 | 248 | RD 201 & 2157 |
| 42 | .5 | 90 | ON SITE(COMMANCHE PK PLANK) |
| 43 | 9.8 | 18 | SITE OF TEXAS TLD#30 |
| 44 | 1.7 | 263 | NEXT TO MAIN GATE |
| 45 | 12.0 | 218 | CHALK MT(JACKSONS TEXACO) |
| 46 | 12.0 | 140 | CITY OF BRAZOS PT. |
| 47 | 21.0 | 301 | CITY OF LIPAN |

NRC TLD DOSES FOR COMANCHE PEAK AREA (mR per 90 days)



COOPER
TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
FOR THE PERIOD 870915-880127 135 DAYS
FIELD TIME 85 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|------------------------------|----------------|------------|---------------------|------|-------------------|-------------|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | Tot. | mR/Std. Qtr. | + Rdm; Tot. |
| 001 | 36 | 0.4 | 2.0 | 2.0 | 19.4 | + |
| 002 | | | 2.0 | 2.0 | 17.7 | + |
| 003 | | | 2.0 | 2.0 | 17.7 | + |
| 004 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 005 | 47 | | 2.0 | 2.0 | 17.7 | + |
| 006 | 48 | | 2.0 | 2.0 | 17.7 | + |
| 007 | 74 | | 2.0 | 2.0 | 17.7 | + |
| 008 | 57 | | 2.0 | 2.0 | 17.7 | + |
| 009 | 57 | | 2.0 | 2.0 | 17.7 | + |
| 010 | 9 | | 2.0 | 2.0 | 17.7 | + |
| 011 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 012 | 14 | | 2.0 | 2.0 | 17.7 | + |
| 013 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 014 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 015 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 016 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 017 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 018 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 019 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 020 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 021 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 022 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 023 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 024 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 025 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 026 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 027 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 028 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 029 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 030 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 031 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 032 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 033 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 034 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 035 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 036 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 037 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 038 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 039 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 040 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 041 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 042 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 043 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 044 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 045 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 046 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 047 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 048 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 049 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 050 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 051 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 052 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 053 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 054 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 055 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 056 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 057 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 058 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 059 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 060 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 061 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 062 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 063 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 064 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 065 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 066 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 067 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 068 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 069 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 070 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 071 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 072 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 073 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 074 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 075 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 076 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 077 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 078 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 079 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 080 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 081 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 082 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 083 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 084 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 085 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 086 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 087 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 088 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 089 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 090 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 091 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 092 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 093 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 094 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 095 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 096 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 097 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 098 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 099 | 11 | | 2.0 | 2.0 | 17.7 | + |
| 100 | 11 | | 2.0 | 2.0 | 17.7 | + |
| MISSING OR DAMAGED DOSIMETER | | | | | | |

COOPER
FOR THE PERIOD 870915-880127

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | * IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 18.6 \pm 1.1 | 2 |
| 11.25-33.75 (NNE) | 18.2 \pm 1.0 | 2 |
| 33.75-56.25 (NE) | 17.8 \pm 2.5 | 3 |
| 56.25-78.75 (ENE) | 17.9 \pm 2.1 | 2 |
| 78.75-101.25 (E) | 18.7 \pm 1.4 | 3 |
| 101.25-123.75 (ESE) | 17.8 \pm 2.1 | 2 |
| 123.75-146.25 (SE) | 18.2 \pm 1.3 | 2 |
| 146.25-168.75 (SSE) | 18.9 \pm .6 | 2 |
| 168.75-191.25 (S) | 21.0 \pm 0.0 | 1 |
| 191.25-213.75 (SSW) | 21.2 \pm 1.2 | 3 |
| 213.75-236.25 (SW) | 17.7 \pm .3 | 2 |
| 236.25-258.75 (WSW) | 19.6 \pm 1.0 | 2 |
| 258.75-281.25 (W) | 19.4 \pm .7 | 4 |
| 281.25-303.75 (WNW) | 20.3 \pm 2.5 | 3 |
| 303.75-326.25 (NW) | 15.2 \pm 0.0 | 1 |
| 326.25-348.75 (NNW) | 19.2 \pm 2.0 | 4 |
| | | |

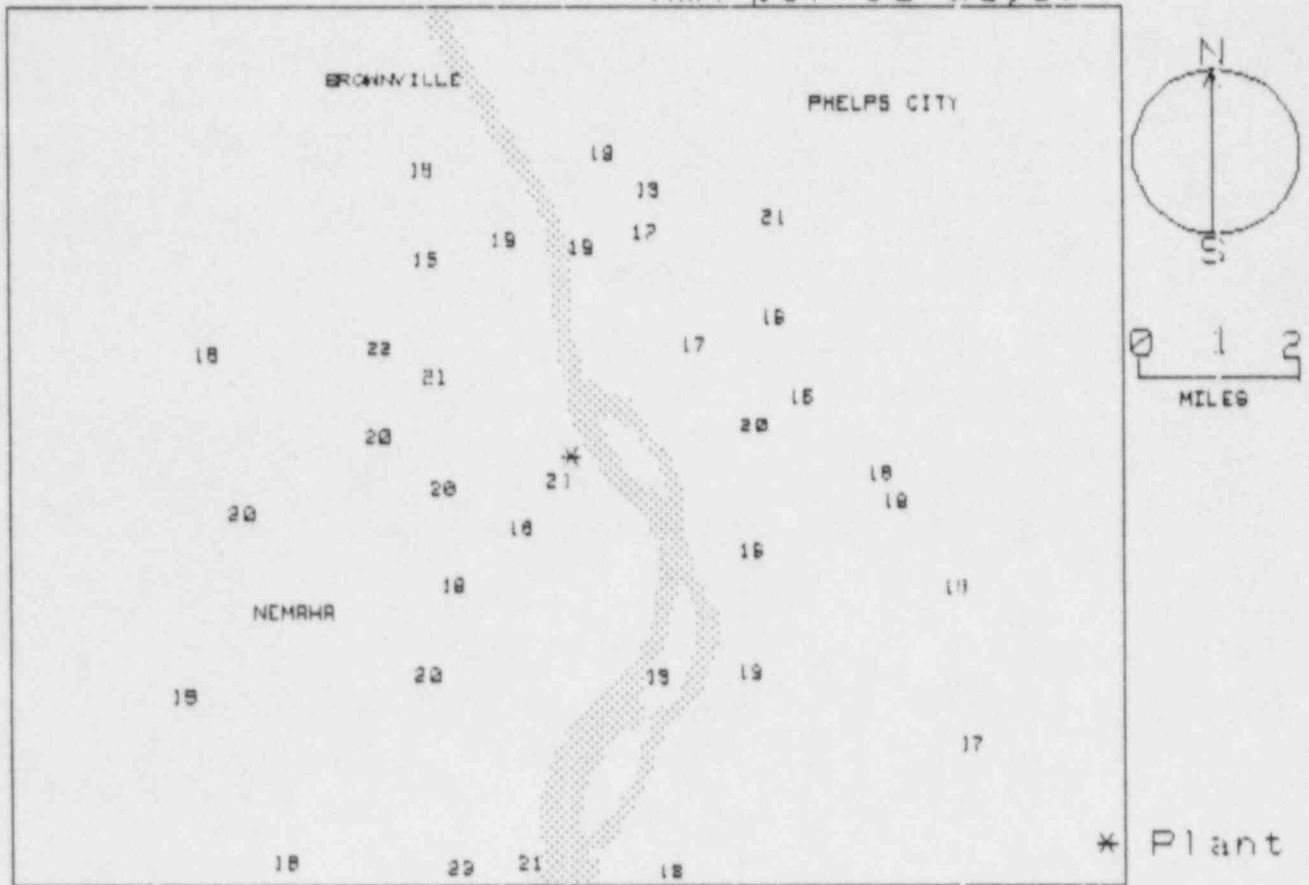
| DISTANCE (mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | * IN GROUP |
|--------------------------------|---|------------|
| 0-2 | 19.1 \pm 1.7 | 6 |
| 2-5 | 18.8 \pm 1.9 | 27 |
| >5 | 19.1 \pm 1.5 | 5 |
| UPWIND CONTROL DATA | 18.9 \pm 1.2 | 3 |

COOPER

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|-------------------------------------|
| 1 | 2.4 | 363 | STATE RECREATION AREA |
| 2 | 3.5 | 6 | 0.5 MILES N. OF US 136 |
| 3 | 2.7 | 18 | 0.6 MILES S. OF US 136 |
| 4 | 3.2 | 16 | 1.5 MILES W. OF HWY. U |
| 5 | 1.9 | 47 | 0.9 MILES W. OF PHELPS CITY |
| 6 | 3.6 | 48 | PHELPS CITY |
| 7 | 2.7 | 75 | HWY. U (1.5 MILES S. OF US 136) |
| 8 | 2.8 | 55 | HWY. U (0.5 MILES S. OF US 136) |
| 9 | 2.1 | 80 | FARMHOUSE |
| 10 | 3.7 | 98 | LANGDON |
| 11 | 2.3 | 118 | LANGDON |
| 12 | 4.6 | 109 | GRAIN STG. BIN |
| 13 | 3.2 | 141 | BM 883 |
| 14 | 5.6 | 126 | ROCK CREEK DITCH |
| 15 | 2.7 | 159 | PAST END OF HWY. U |
| 16 | 4.9 | 167 | HWY. 67 (2.3 MI. S OF L. NEMAHA R.) |
| 17 | .3 | 205 | PLANT ENTRANCE |
| 18 | 4.7 | 186 | HWY. 67 (2.3 MI. S OF L. NEMAHA R.) |
| 19 | 3.0 | 213 | N. OF NEMAHA BRIDGE |
| 20 | 4.9 | 195 | HWY. 67 (2.3 MI. S OF L. NEMAHA R.) |
| 21 | 2.8 | 222 | NEMAHA ELEVATOR |
| 22 | 5.7 | 215 | HWY. 67 (2.3 MI. S OF L. NEMAHA R.) |
| 23 | 1.5 | 256 | HWY. 67 (N. OF RD. TO REACTOR) |
| 24 | 5.2 | 238 | HWY. 67 (0.2 MI. S OF L. NEMAHA R.) |
| 25 | 2.2 | 276 | HWY. 67 (2 MILES S. OF US 136) |
| 26 | 3.8 | 268 | HWY. 67 (3 MILES S. OF US 136) |
| 27 | 1.8 | 381 | HWY. 67 (1.3 MILES S. OF US 136) |
| 28 | 4.3 | 286 | US 136 (2.6 MI. W OF SOUTHBOUND 67) |
| 29 | 2.8 | 324 | HWY. 67 & US 136 |
| 30 | 3.7 | 333 | HWY. 67 (1 MILE N. OF US 136) |
| 31 | 2.6 | 343 | BROWNVILLE |
| 32 | 3.7 | 333 | US 136 (0.6 MI. W OF SOUTHBOUND 67) |
| 33 | 1.8 | 215 | MOORE RESIDENCE |
| 34 | 18.8 | 173 | FALLS CITY |
| 35 | 23.8 | 333 | NEBRASKA CITY |
| 36 | 19.8 | 218 | US 73 & US 75 |
| 37 | 7.8 | 64 | ROCK PORT |
| 38 | 9.8 | 329 | PERU |
| 39 | 10.8 | 276 | AUBURN |
| 40 | 2.5 | 388 | HAPPY HOLLOW SCHOOL |
| 42 | 3.5 | 93 | HWY. U & E (LANGDON) |
| 43 | 2.2 | 278 | LANGDON HWY U & E |
| 49 | 1.6 | 245 | NO LOCATION INFORMATION! |

NRC TLD DOSES FOR COOPER AREA (mR per 90 days)



CRYSTAL RIVER
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870917-880126 132 DAYS
 FIELD TIME 90 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|----------------|----------------|------------|------------------------------|-------|-------------------|-------------|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm; Tot. | | mR/Std. Qtr. | + Rdm; Tot. |
| 006 | 61 | 4.2 | 16.9 | +- .5 | 11.6 | +- .6 |
| 007 | 68 | 3.8 | 14.6 | +- .4 | 9.4 | +- .5 |
| 008 | 20 | 5.2 | 16.4 | +- .5 | 11.2 | +- .5 |
| 009 | 6 | 5.4 | 20.2 | +- .7 | 14.9 | +- .7 |
| 010 | 48 | 5.0 | 17.4 | +- .5 | 12.2 | +- .5 |
| 011 | 34 | 4.8 | 17.3 | +- .5 | 12.0 | +- .5 |
| 012 | 18 | 4.8 | 16.9 | +- .5 | 11.7 | +- .5 |
| 013 | 9 | 3.8 | 17.5 | +- .5 | 12.3 | +- .5 |
| 014 | 55 | 4.1 | 15.5 | +- .5 | 10.3 | +- .5 |
| 015 | 89 | 1.8 | 19.6 | +- .6 | 14.3 | +- .6 |
| 016 | 113 | 5.0 | MISSING OR DAMAGED DOSIMETER | | | |
| 017 | 133 | 5.5 | 16.7 | +- .5 | 11.4 | +- .5 |
| 018 | 74 | 8.1 | 15.6 | +- .5 | 10.4 | +- .5 |
| 019 | 127 | 7.6 | 16.7 | +- .5 | 11.5 | +- .5 |
| 020 | 158 | 12 | 16.9 | +- .5 | 11.6 | +- .5 |
| 021 | 159 | 13 | 16.3 | +- .5 | 11.1 | +- .5 |
| 022 | 158 | 13 | 16.2 | +- .5 | 11.0 | +- .5 |
| 023 | 158 | 21 | 15.6 | +- .5 | 10.4 | +- .5 |
| 024 | 158 | 21 | 15.3 | +- .5 | 10.1 | +- .5 |
| 025 | 56 | 6.1 | 18.1 | +- .6 | 12.9 | +- .6 |
| 026 | 357 | 5.2 | 17.6 | +- .5 | 12.3 | +- .5 |
| 027 | 98 | 13 | 17.3 | +- .5 | 12.0 | +- .5 |
| 028 | 148 | 4.8 | 17.6 | +- .5 | 12.3 | +- .5 |
| TRANSIT DOSE = | | | 5.2 | +- .4 | | |

CRYSTAL RIVER
FOR THE PERIOD 870917-880126

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std. Dev. | # IN GROUP |
|---------------------|--|------------|
| 348.75-11.25 (N) | 13.6 \pm 1.8 | 2 |
| 11.25-33.75 (NNE) | 11.2 \pm 0.0 | 1 |
| 33.75-56.25 (NE) | 11.1 \pm 2.5 | 2 |
| 56.25-78.75 (ENE) | 11.0 \pm .8 | 2 |
| 78.75-101.25 (E) | 12.2 \pm 1.7 | 4 |
| 101.25-123.75 (ESE) | NO DATA \pm NO DATA | 0 |
| 123.75-146.25 (SE) | 11.7 \pm .5 | 3 |
| 146.25-168.75 (SSE) | 11.4 \pm .4 | 2 |
| 168.75-191.25 (S) | NO DATA \pm NO DATA | 0 |
| 191.25-213.75 (SSW) | NO DATA \pm NO DATA | 0 |
| 213.75-236.25 (SW) | NO DATA \pm NO DATA | 0 |
| 236.25-258.75 (WSW) | NO DATA \pm NO DATA | 0 |
| 258.75-281.25 (W) | NO DATA \pm NO DATA | 0 |
| 281.25-303.75 (WNW) | NO DATA \pm NO DATA | 0 |
| 303.75-326.25 (NW) | 11.7 \pm 0.0 | 1 |
| 326.25-348.75 (NNW) | 12.1 \pm .1 | 2 |
| | | |

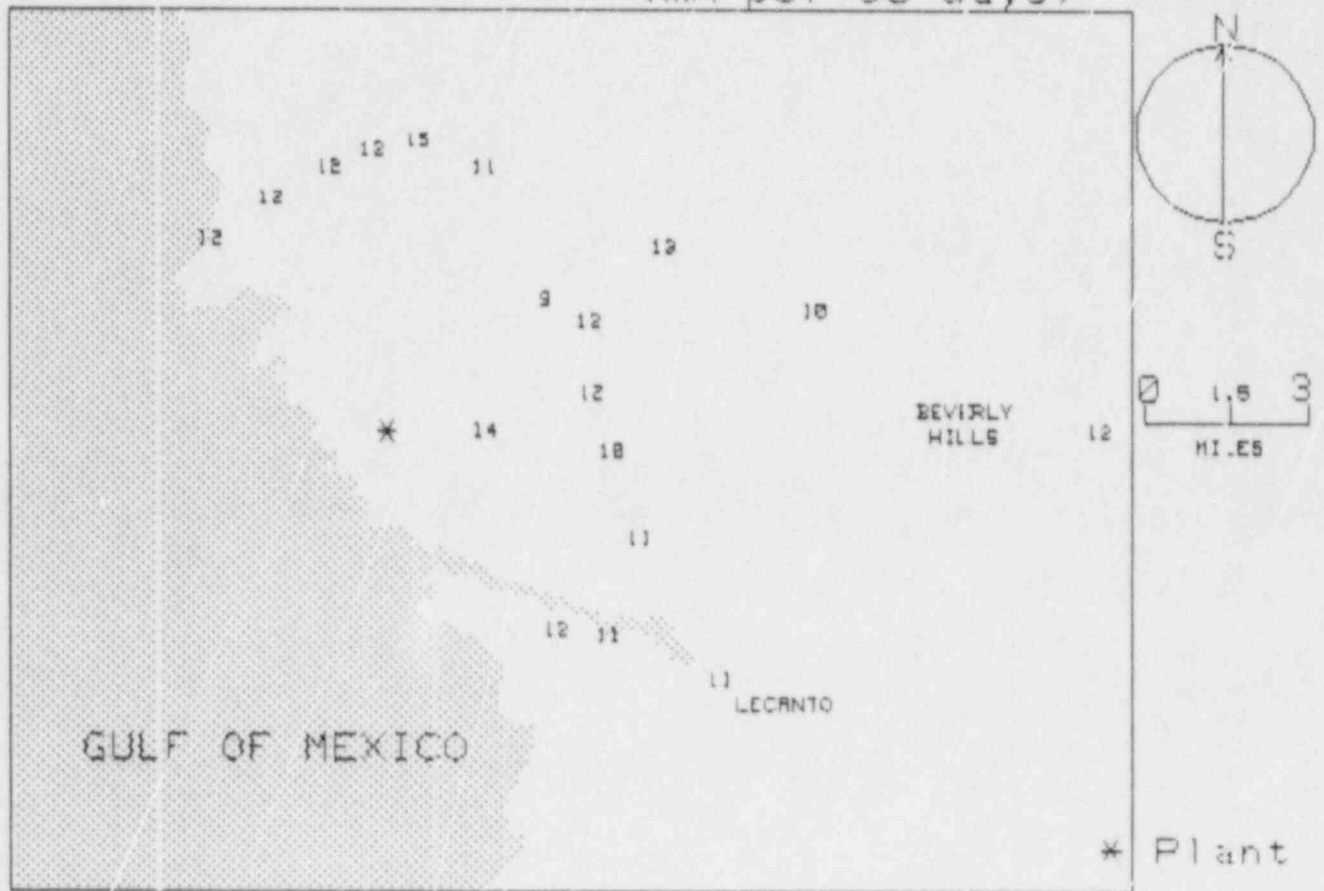
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std. Dev. | # IN GROUP |
|-------------------------------|--|------------|
| 0-2 | 14.3 \pm 0.0 | 1 |
| 2-5 | 11.5 \pm 1.1 | 8 |
| >5 | 11.8 \pm 1.3 | 10 |
| UPWIND CONTROL DATA | 10.5 \pm .5 | 3 |

CRYSTAL RIVER

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|-----------------------------------|
| 6 | 4.2 | 61 | BASSWOOD RD & CALADIUM ST. |
| 7 | 3.8 | 50 | RT. 19 |
| 8 | 5.2 | 20 | RT. 40 & RT. 19 |
| 9 | 5.4 | 6 | CRACKERTOWN |
| 10 | 5.0 | 348 | COAST GUARD STATION |
| 11 | 4.8 | 334 | RT. 40 |
| 12 | 4.8 | 318 | PUMPKIN ISLAND |
| 13 | 3.8 | 79 | RED LEVEL BAPTIST CHURCH |
| 14 | 4.1 | 95 | TALLAHASSEE RD. |
| 15 | 1.8 | 89 | PLANT ACCESS ROAD |
| 16 | 5.0 | 113 | OAK LANE RD. |
| 17 | 5.5 | 133 | STATE ARCHEOLOGICAL SITE |
| 18 | 8.1 | 74 | DEROSA VILLAGE |
| 19 | 7.6 | 127 | RT. 19 & RT. 495 |
| 20 | 12.0 | 150 | HOMOSASSA SPRINGS |
| 21 | 13.0 | 159 | HOMOSASSA |
| 22 | 13.0 | 150 | RT. 19 |
| 23 | 21.0 | 150 | RIGHT ROAD OFF RT. 19 |
| 24 | 21.0 | 150 | RIGHT ROAD OFF RT. 19 |
| 25 | 6.1 | 56 | CORP. OF ENGINEERS SPILLWAY & DAM |
| 26 | 5.2 | 357 | RIVERSIDE RD. & 52ND ST. |
| 27 | 13.0 | 90 | BEVERLY HILLS |
| 28 | 4.8 | 140 | MARINE SCIENCE STATION |

NRC TLD DOSES FOR CRYSTAL RIVER AREA (mR per 90 days)



DAVIS BESSE
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870916-880127 134 DAYS
 FIELD TIME 85 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|----------------|-------------------|---------------|------------------------|------|-----------------------|------|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | Tot. | mR/Std. Qtr. + Rdm | Tot. |
| 001 | 50 | 0.6 | 17.3 | 17.3 | 12.0 | 12.0 |
| 002 | 86 | 0.9 | 17.1 | 17.1 | 12.0 | 12.0 |
| 003 | 116 | 1.4 | 16.0 | 16.0 | 12.0 | 12.0 |
| 004 | 172 | 0.8 | 20.0 | 20.0 | 15.0 | 15.0 |
| 005 | 200 | 1.5 | 21.7 | 21.7 | 17.4 | 17.4 |
| 006 | 226 | 1.0 | 19.4 | 19.4 | 15.0 | 15.0 |
| 007 | 249 | 1.5 | 21.4 | 21.4 | 17.1 | 17.1 |
| 008 | 267 | 1.0 | 21.1 | 21.1 | 16.0 | 16.0 |
| 009 | 285 | 1.0 | 21.6 | 21.6 | 17.3 | 17.3 |
| 010 | 306 | 1.5 | 19.0 | 19.0 | 14.0 | 14.0 |
| 011 | 344 | 0.9 | 15.7 | 15.7 | 11.1 | 11.1 |
| 012 | 142 | 4.4 | 20.3 | 20.3 | 15.0 | 15.0 |
| 013 | 158 | 4.4 | 21.9 | 21.9 | 17.0 | 17.0 |
| 014 | 168 | 3.0 | 19.1 | 19.1 | 14.0 | 14.0 |
| 015 | 200 | 4.4 | 21.6 | 21.6 | 17.0 | 17.0 |
| 016 | 230 | 4.4 | 17.7 | 17.7 | 12.0 | 12.0 |
| 017 | 240 | 4.4 | 22.6 | 22.6 | 18.0 | 18.0 |
| 018 | 260 | 3.0 | 19.9 | 19.9 | 15.0 | 15.0 |
| 019 | 270 | 3.0 | 22.0 | 22.0 | 18.0 | 18.0 |
| 020 | 275 | 3.0 | 17.1 | 17.1 | 12.0 | 12.0 |
| 021 | 132 | 3.0 | 21.0 | 21.0 | 17.0 | 17.0 |
| 022 | 210 | 0.8 | 19.4 | 19.4 | 15.0 | 15.0 |
| TRANSIT DOSE = | 5.2 | + | .4 | 5.2 | | |

DAVIS BESSE
FOR THE PERIOD 870916-880127

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | NO DATA+-NO DATA | 0 |
| 11.25-33.75 (NNE) | 12.8 \pm 0.0 | 1 |
| 33.75-56.25 (NE) | 12.8 \pm 0.0 | 1 |
| 56.25-78.75 (ENE) | NO DATA+-NO DATA | 0 |
| 78.75-101.25 (E) | 12.8 \pm 0.0 | 1 |
| 101.25-123.75 (ESE) | 12.3 \pm 0.0 | 1 |
| 123.75-146.25 (SE) | 16.0 \pm 0.0 | 1 |
| 146.25-168.75 (SSE) | 17.6 \pm 0.0 | 1 |
| 168.75-191.25 (S) | 15.2 \pm .7 | 2 |
| 191.25-213.75 (SSW) | 17.4 \pm .1 | 2 |
| 213.75-236.25 (SW) | 14.1 \pm 1.3 | 2 |
| 236.25-258.75 (WSW) | 17.7 \pm .9 | 2 |
| 258.75-281.25 (W) | 16.2 \pm .9 | 2 |
| 281.25-303.75 (WNW) | 18.0 \pm .9 | 2 |
| 303.75-326.25 (NW) | 14.6 \pm 0.0 | 1 |
| 326.25-348.75 (NNW) | 11.1 \pm 0.0 | 1 |
| | | |

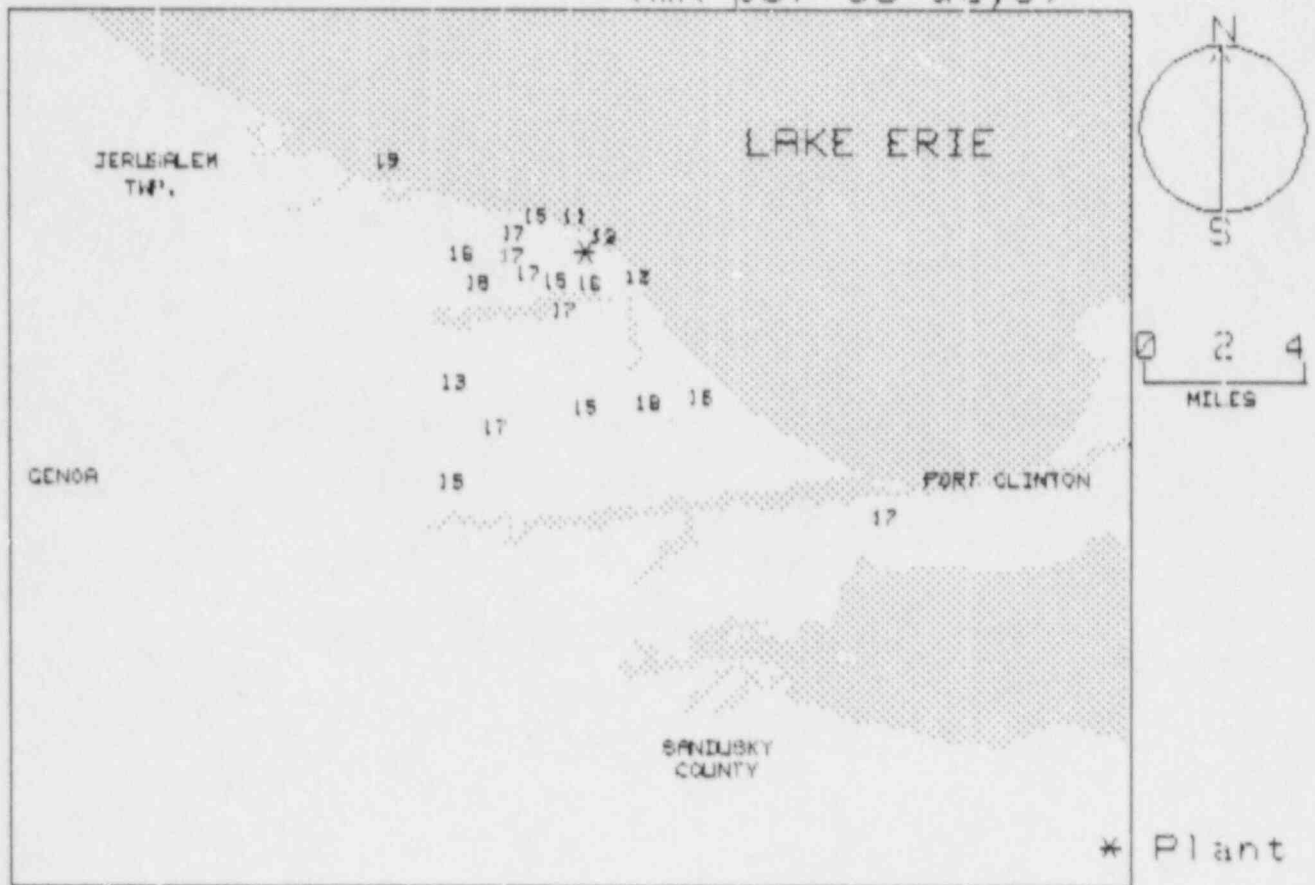
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 14.6 \pm 2.3 | 12 |
| 2-5 | 16.1 \pm 1.8 | 7 |
| >5 | 18.6 \pm 0.0 | 1 |
| UPWIND CONTROL DATA | 16.0 \pm 1.4 | 2 |

DAVIS BESSE

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|--|
| 1 | .6 | 50 | SITE BOUNDARY NEAR INTAKE |
| 2 | .9 | 86 | SITE BOUNDARY |
| 3 | 1.4 | 116 | SITE BOUNDARY - FOUSSAINT F. STORM DRAIN |
| 4 | .8 | 172 | SITE BOUNDARY - LOCUST PT. & RIVER |
| 5 | 1.5 | 200 | ALONG LEVTZ |
| 6 | 1.0 | 226 | RT. 2 AT FENCE BOUNDARY |
| 7 | 1.5 | 249 | ZETZER RD. |
| 8 | 1.8 | 267 | HUMPHREY & DUFF WASHA |
| 9 | 1.8 | 285 | RT. 2 & HUMPHREY |
| 10 | 1.5 | 306 | LONG BEACH - HUMPHREY & HOLLYWOOD |
| 11 | .9 | 344 | SAND BEACH - RUSSELL RD. |
| 12 | 4.5 | 142 | ERIE INDUSTRIAL PARK |
| 13 | 4.0 | 158 | RYMERS RD. & RT. 15 |
| 14 | 3.8 | 180 | RT. 15 & TOUSSAINT RD. |
| 15 | 4.8 | 207 | BEHLMAN RD. & BIER |
| 16 | 4.5 | 225 | GENZMAN RD. & RT. 190 |
| 17 | 2.7 | 254 | EARL MOORE FARM - BOYLEN RD. |
| 18 | 3.0 | 269 | HWY. 19 UNDER TRANSMISSION LINES |
| 19 | 5.3 | 295 | MM-CC STATE PARK (ADMINISTRATION BUILDING) |
| 20 | .5 | 25 | RESIDENCE |
| 21 | 9.7 | 132 | 4TH & MADISON |
| 22 | 6.5 | 210 | CHURCH & WALNUT |

NRC TLD DOSES FOR DAVIS-BESSE AREA
(mR per 90 days)



D.C. COOK
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870915-880127 135 DAYS
 FIELD TIME 97 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | | NET EXPOSURE RATE | | |
|----------------|----------------|------------|------------------------------|-------|------|-------------------|-------|-------|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | - Rdm | Tot. | mR/Std. Dtr. | + Rdm | - Rdm |
| 001 | 54 | 1.7 | 20.0 | +- | .6 | 14.0 | +- | .7 |
| 002 | 67 | 1.3 | 25.4 | +- | .6 | 18.9 | +- | .6 |
| 003 | 89 | 1.1 | 19.6 | +- | .6 | 13.6 | +- | .7 |
| 004 | 58 | 0.7 | 18.3 | +- | .5 | 13.4 | +- | .6 |
| 005 | 19 | 2.3 | 19.6 | +- | .6 | 13.6 | +- | .7 |
| 006 | 111 | 1.6 | 20.3 | +- | .6 | 14.3 | +- | .7 |
| 007 | 135 | 1.5 | 19.3 | +- | .6 | 13.3 | +- | .6 |
| 008 | 158 | 1.4 | 26.9 | +- | .6 | 19.3 | +- | .6 |
| 009 | 171 | 1.9 | 19.1 | +- | .6 | 13.1 | +- | .6 |
| 010 | 199 | 1.5 | 19.7 | +- | .6 | 13.7 | +- | .7 |
| 011 | 195 | 3.9 | 19.2 | +- | .6 | 13.2 | +- | .6 |
| 012 | 200 | 6.6 | 21.0 | +- | .6 | 14.0 | +- | .7 |
| 013 | 179 | 3.9 | 20.9 | +- | .6 | 14.0 | +- | .7 |
| 014 | 151 | 4.4 | MISSING OR DAMAGED DOSIMETER | | | | | |
| 015 | 130 | 4.6 | 23.4 | +- | .7 | 17.1 | +- | .7 |
| 016 | 110 | 3.7 | 23.3 | +- | .7 | 17.0 | +- | .7 |
| 017 | 88 | 3.6 | 20.5 | +- | .6 | 14.4 | +- | .7 |
| 018 | 67 | 3.0 | 20.4 | +- | .6 | 14.3 | +- | .7 |
| 019 | 24 | 3.0 | 20.0 | +- | .6 | 13.9 | +- | .7 |
| 020 | 43 | 3.3 | 25.7 | +- | .8 | 19.2 | +- | .8 |
| 021 | 26 | 9.9 | MISSING OR DAMAGED DOSIMETER | | | | | |
| 022 | 121 | 10. | 20.1 | +- | .6 | 14.1 | +- | .7 |
| 023 | 121 | 10. | 20.1 | +- | .6 | 14.1 | +- | .7 |
| 024 | 121 | 10. | 23.6 | +- | .7 | 17.3 | +- | .7 |
| TRANSIT DOSE = | | | 4.9 | +- | .4 | | | |
| | | | | | 5.6 | | | |

D.C. COOK
FOR THE PERIOD 870915-880127

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | NO DATA+-NO DATA | 0 |
| 11.25-33.75 (NNE) | 13.8 \pm .2 | 2 |
| 33.75-56.25 (NE) | 16.6 \pm 3.7 | 2 |
| 56.25-78.75 (ENE) | 15.2 \pm 3.4 | 3 |
| 78.75-101.25 (E) | 14.0 \pm .6 | 2 |
| 101.25-123.75 (ESE) | 15.6 \pm 1.9 | 2 |
| 123.75-146.25 (SE) | 15.2 \pm 2.7 | 2 |
| 146.25-168.75 (SSE) | 19.5 \pm 0.0 | 1 |
| 168.75-191.25 (S) | 13.8 \pm 1.2 | 2 |
| 191.25-213.75 (SSW) | 13.8 \pm .8 | 3 |
| 213.75-236.25 (SW) | NO DATA+-NO DATA | 0 |
| 236.25-258.75 (WSW) | NO DATA+-NO DATA | 0 |
| 258.75-281.25 (W) | NO DATA+-NO DATA | 0 |
| 281.25-303.75 (WNW) | NO DATA+-NO DATA | 0 |
| 303.75-326.25 (NW) | NO DATA+-NO DATA | 0 |
| 326.25-348.75 (NNW) | NO DATA+-NO DATA | 0 |
| | | |

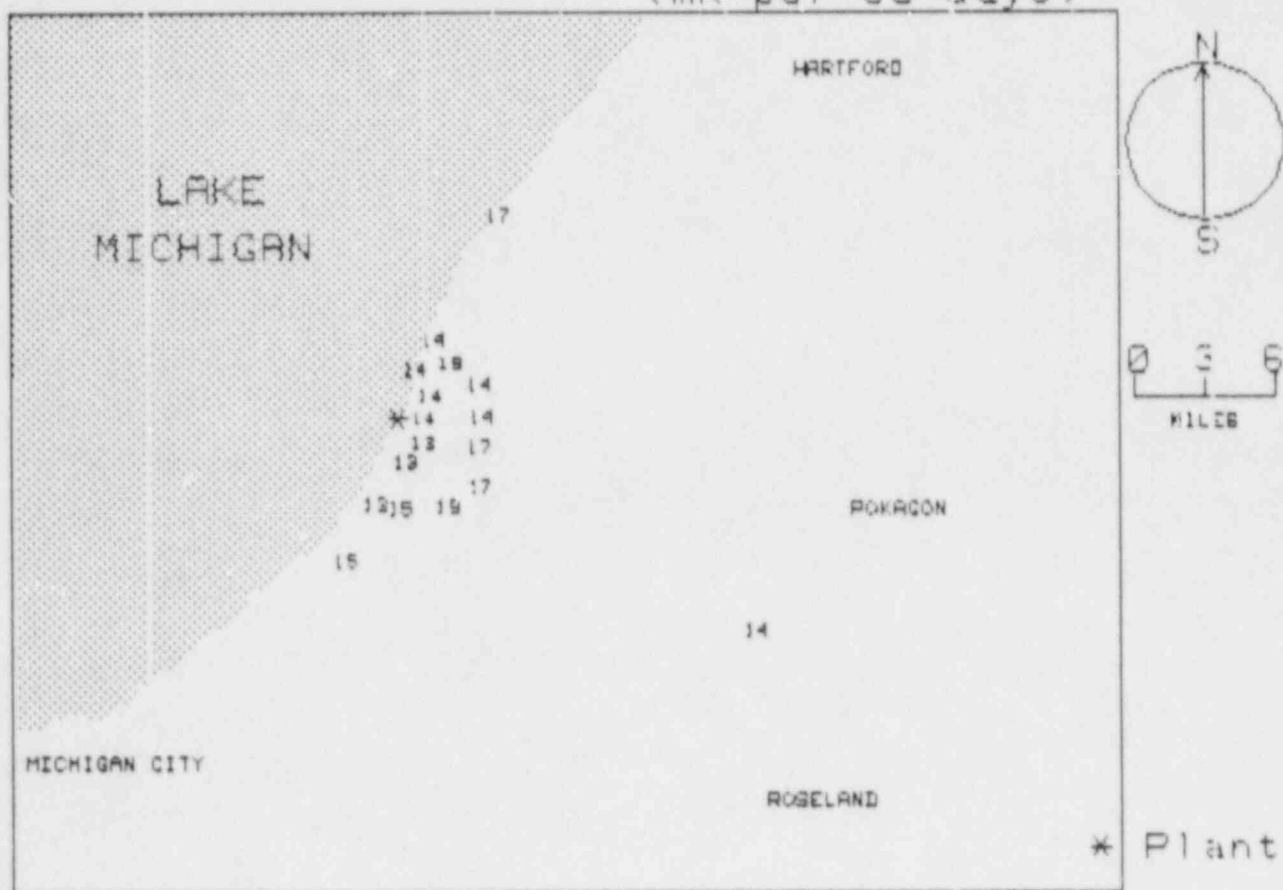
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 14.7 \pm 2.6 | 9 |
| 2-5 | 15.3 \pm 2.0 | 9 |
| >5 | 14.8 \pm 0.0 | 1 |
| UPWIND CONTROL DATA | 15.1 \pm 1.9 | 9 |

D.C. COOK

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|-----------------------------------|
| 1 | 1.7 | 54 | RED ARROW HWY. (US 31) |
| 2 | 1.3 | 67 | RED ARROW HWY. & LINCO RD. |
| 3 | 1.1 | 89 | RED ARROW HWY. & ROAD TO PLANT |
| 4 | .7 | 58 | WILLOW RD. |
| 5 | 2.3 | 19 | GRAND MERE RD. |
| 6 | 1.6 | 111 | JERICO RD. & LIVINGSTON RD. |
| 7 | 1.5 | 135 | GAST RD. |
| 8 | 1.4 | 158 | LEMON CREEK RD. & RED ARROW HWY. |
| 9 | 1.9 | 171 | RED ARROW HWY. |
| 10 | 1.5 | 199 | DUNEWOOD DR. |
| 11 | 3.9 | 195 | HILDEBRANT RD. |
| 12 | 6.6 | 200 | SAWYER RD. & RED ARROW HWY. |
| 13 | 3.9 | 179 | SNOW RD. & BALDWIN RD. |
| 14 | 4.4 | 151 | SNOW RD. & DATE RD. |
| 15 | 4.6 | 130 | CLEVELAND AVE. & SKALA RD. |
| 16 | 3.7 | 110 | CLEVELAND AVE. & LEMON CREEK RD. |
| 17 | 3.6 | 88 | CLEVELAND AVE. & MARRS RD. |
| 18 | 3.8 | 67 | CLEVELAND AVE. & ROCKY WOOD RD. |
| 19 | 3.8 | 24 | THORNTON RD & MARQUETTE WOODS RD. |
| 20 | 3.3 | 43 | JOHN BEEVS RD. |
| 21 | 9.9 | 26 | DOWNTOWN ST. JOSEPH (MI) |
| 22 | 18.0 | 121 | HILES (MI) |
| 23 | 18.0 | 121 | HILES (MI) |
| 24 | 18.0 | 121 | HILES (MI) |

NRC TLD DOSES FOR D.C. COOK AREA
(mR per 90 days)



DIABLO CANYON
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870914-880128 137 DAYS
 FIELD TIME 91 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|----------------|-------------------|---------------|------------------------------|-----|-----------------------------|-----|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm; Tot. | | mR/Std. Dtr. + Rdm; Tot. | |
| 001 | 125 | 1.0 | 26.5 +- .8 | 4.0 | 21.0 +- .9 | 6.7 |
| 002 | 119 | 4.2 | 26.1 +- .8 | 3.9 | 20.6 +- .9 | 6.7 |
| 003 | 107 | 6.9 | 21.0 +- .7 | 3.3 | 16.4 +- .7 | 6.3 |
| 004 | 109 | 11. | 22.0 +- .7 | 3.4 | 17.3 +- .8 | 6.4 |
| 005 | 110 | 14. | 23.2 +- .7 | 3.5 | 17.7 +- .8 | 6.4 |
| 006 | 60 | 9.6 | 22.5 +- .7 | 3.4 | 17.0 +- .8 | 6.4 |
| 007 | 359 | 11. | 22.5 +- .7 | 3.4 | 17.0 +- .8 | 6.4 |
| 008 | 359 | 6.6 | MISSING OR DAMAGED DOSIMETER | | | |
| 009 | 339 | 4.7 | 18.6 +- .6 | 2.0 | 13.2 +- .7 | 6.1 |
| 010 | 328 | 3.0 | 19.4 +- .6 | 2.9 | 14.0 +- .7 | 6.2 |
| 011 | 332 | 1.3 | 17.9 +- .5 | 2.7 | 12.5 +- .7 | 6.0 |
| 012 | 37 | 21. | 27.0 +- .8 | 4.0 | 21.5 +- .9 | 6.7 |
| 013 | 37 | 21. | 27.2 +- .8 | 4.1 | 21.7 +- .9 | 6.8 |
| 014 | 37 | 21. | 27.1 +- .8 | 4.1 | 21.6 +- .9 | 6.8 |
| TRANSIT DOSE = | | | 5.2 +- .4 | ; | 5.5 | |

DIABLO CANYON
FOR THE PERIOD 870914-880128

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 17.0 \pm 0.0 | 1 |
| 11.25-33.75 (NNE) | NO DATA+-NO DATA | 0 |
| 33.75-56.25 (NE) | NO DATA+-NO DATA | 0 |
| 56.25-78.75 (ENE) | 17.0 \pm 0.0 | 1 |
| 78.75-101.25 (E) | NO DATA+-NO DATA | 0 |
| 101.25-123.75 (ESE) | 18.0 \pm 1.0 | 4 |
| 123.75-146.25 (SE) | 21.0 \pm 0.0 | 1 |
| 146.25-168.75 (SSE) | NO DATA+-NO DATA | 0 |
| 168.75-191.25 (S) | NO DATA+-NO DATA | 0 |
| 191.25-213.75 (SSW) | NO DATA+-NO DATA | 0 |
| 213.75-236.25 (SW) | NO DATA+-NO DATA | 0 |
| 236.25-258.75 (WSW) | NO DATA+-NO DATA | 0 |
| 258.75-281.25 (W) | NO DATA+-NO DATA | 0 |
| 281.25-303.75 (WNW) | NO DATA+-NO DATA | 0 |
| 303.75-326.25 (NW) | NO DATA+-NO DATA | 0 |
| 326.25-348.75 (NNW) | 13.2 \pm .7 | 3 |
| | | |

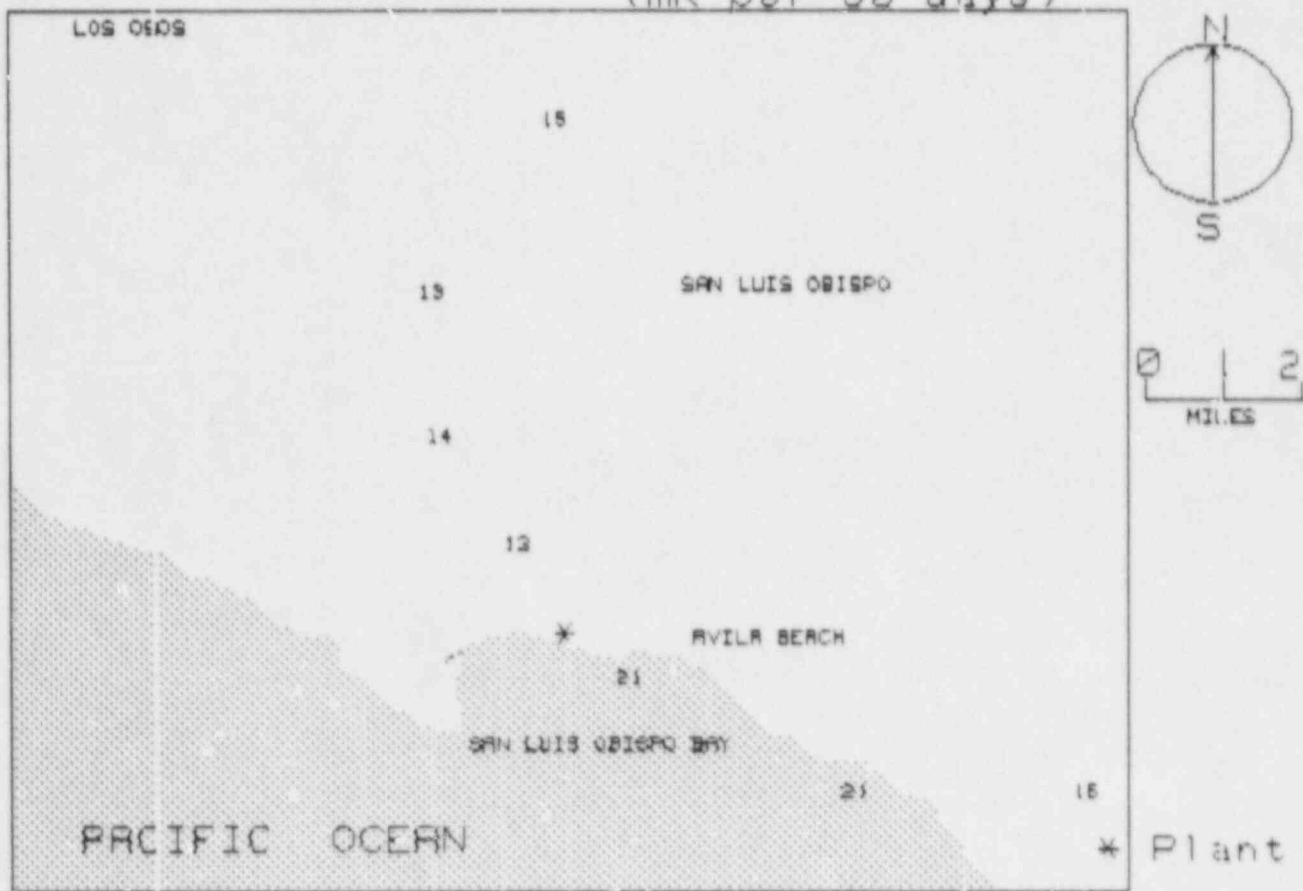
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 16.7 \pm 6.0 | 2 |
| 2-5 | 15.9 \pm 4.1 | 3 |
| >5 | 17.1 \pm .5 | 5 |
| UPWIND CONTROL DATA | 21.6 \pm .1 | 3 |

DIABLO CANYON

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|-------------------------------|
| 1 | 1.0 | 125 | SITE ENTRANCE RD. |
| 2 | 4.2 | 119 | SITE ENTRANCE RD. |
| 3 | 6.9 | 107 | SAN MIGUEL ST. |
| 4 | 11.0 | 109 | CORNER NAOMI AVE. |
| 5 | 14.0 | 113 | CORNER ATLANTIC CITY AVE. |
| 6 | 9.6 | 68 | PREFUMO CANYON RD. |
| 7 | 11.0 | 359 | PG&E MORROW BAY PLANT |
| 8 | 6.6 | 359 | PECHO VALLEY RD. |
| 9 | 4.7 | 339 | MONTANO DeORO PARK |
| 10 | 3.0 | 328 | PRIV. RD. END OF PECHO VALLEY |
| 11 | 1.3 | 332 | PRIV. RD. N. OF PLANT |
| 12 | 21.0 | 37 | SAN DIEGO RD. |
| 13 | 21.0 | 37 | SAN DIEGO RD. |
| 14 | 21.0 | 37 | SAN DIEGO RD. |

NRC TLD DOSES FOR DIABLO CANYON AREA (mR per 90 days)



DRESDEN
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870914-880202 142 DAYS
 FIELD TIME 98 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|----------------|----------------|------------|---------------------|-------|-------------------|---------------|
| | AZIMUTH (deg.) | DIST (mi.) | +/- Rdm; Tot. | | mR/Std. Qtr. | +/- Rdm; Tot. |
| 001 | 70 | 4.2 | 23.7 | +- .7 | 19.1 | +- .7 |
| 002 | 92 | 3.9 | 26.1 | +- .8 | 21.0 | +- .8 |
| 003 | 119 | 3.2 | 24.6 | +- .7 | 19.9 | +- .7 |
| 004 | 134 | 1.3 | MISSING OR DAMAGED | | DOSIMETER | |
| 005 | 115 | 1.1 | 22.4 | +- .7 | 17.7 | +- .7 |
| 006 | 100 | 1.1 | 23.9 | +- .7 | 19.0 | +- .7 |
| 007 | 179 | 0.9 | 26.4 | +- .8 | 21.0 | +- .8 |
| 008 | 166 | 0.8 | 22.5 | +- .7 | 17.7 | +- .7 |
| 009 | 205 | 0.8 | 26.2 | +- .8 | 21.4 | +- .8 |
| 010 | 204 | 0.7 | 24.2 | +- .7 | 19.7 | +- .7 |
| 011 | 200 | 0.9 | 21.9 | +- .7 | 17.4 | +- .7 |
| 012 | 200 | 1.1 | 22.0 | +- .7 | 17.6 | +- .7 |
| 013 | 100 | 4.4 | 21.0 | +- .7 | 16.6 | +- .7 |
| 014 | 170 | 4.4 | 23.0 | +- .7 | 18.4 | +- .7 |
| 015 | 127 | 4.4 | 24.0 | +- .7 | 19.0 | +- .7 |
| 016 | 104 | 4.4 | 24.0 | +- .7 | 19.0 | +- .7 |
| 017 | 109 | 4.7 | 24.4 | +- .7 | 19.0 | +- .7 |
| 018 | 200 | 4.1 | 24.4 | +- .7 | 19.0 | +- .7 |
| 019 | 200 | 4.1 | 24.4 | +- .7 | 19.0 | +- .7 |
| 020 | 204 | 4.4 | 24.4 | +- .7 | 19.0 | +- .7 |
| 021 | 200 | 4.4 | 24.4 | +- .7 | 19.0 | +- .7 |
| 022 | 200 | 4.4 | 23.7 | +- .7 | 19.0 | +- .7 |
| 023 | 200 | 4.4 | MISSING OR DAMAGED | | DOSIMETER | |
| 024 | 111 | 4.4 | 23.5 | +- .7 | 18.9 | +- .7 |
| 025 | 70 | 4.4 | MISSING OR DAMAGED | | DOSIMETER | |
| 026 | 1 | 4.4 | 22.4 | +- .7 | 18.0 | +- .7 |
| 027 | 1 | 4.4 | 22.4 | +- .7 | 18.0 | +- .7 |
| 028 | 200 | 4.4 | 22.4 | +- .7 | 18.0 | +- .7 |
| 029 | 200 | 4.4 | 22.4 | +- .7 | 18.0 | +- .7 |
| 030 | 200 | 4.4 | 22.4 | +- .7 | 18.0 | +- .7 |
| 031 | 200 | 4.4 | 22.4 | +- .7 | 18.0 | +- .7 |
| 032 | 200 | 4.4 | 22.4 | +- .7 | 18.0 | +- .7 |
| 033 | 200 | 4.4 | 22.4 | +- .7 | 18.0 | +- .7 |
| 034 | 200 | 4.4 | 22.4 | +- .7 | 18.0 | +- .7 |
| 035 | 200 | 4.4 | 22.4 | +- .7 | 18.0 | +- .7 |
| 036 | 200 | 4.4 | 22.4 | +- .7 | 18.0 | +- .7 |
| 037 | 200 | 4.4 | 22.4 | +- .7 | 18.0 | +- .7 |
| 038 | 200 | 4.4 | 22.4 | +- .7 | 18.0 | +- .7 |
| 039 | 200 | 4.4 | 22.4 | +- .7 | 18.0 | +- .7 |
| 040 | 200 | 4.4 | 22.4 | +- .7 | 18.0 | +- .7 |
| TRANSIT DOSE = | 2.9 | +- .3 | | | | |

DRESDEN
FOR THE PERIOD 870914-880202

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 21.8 \pm 2.6 | 2 |
| 11.25-33.75 (NNE) | 21.2 \pm 1.8 | 2 |
| 33.75-56.25 (NE) | 20.8 \pm 2.6 | 3 |
| 56.25-78.75 (ENE) | 20.2 \pm 1.6 | 2 |
| 78.75-101.25 (E) | 21.1 \pm .3 | 2 |
| 101.25-123.75 (ESE) | 18.0 \pm 1.4 | 2 |
| 123.75-146.25 (SE) | 18.4 \pm 1.3 | 2 |
| 146.25-168.75 (SSE) | 18.2 \pm .4 | 2 |
| 168.75-191.25 (S) | 19.3 \pm 2.0 | 4 |
| 191.25-213.75 (SSW) | 20.4 \pm 1.3 | 2 |
| 213.75-236.25 (SW) | 25.4 \pm 4.8 | 2 |
| 236.25-258.75 (WSW) | 19.0 \pm 1.4 | 3 |
| 258.75-281.25 (W) | 19.8 \pm 1.1 | 2 |
| 281.25-303.75 (WNW) | 20.2 \pm 0.0 | 1 |
| 303.75-326.25 (NW) | 19.8 \pm 1.4 | 2 |
| 326.25-348.75 (NNW) | 23.9 \pm 0.0 | 1 |
| | | |

| DISTANCE(m.) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 21.3 \pm 2.6 | 16 |
| 2-5 | 19.4 \pm 1.3 | 13 |
| >5 | 19.3 \pm 1.0 | 5 |
| UPWIND CONTROL DATA | 21.4 \pm 1.3 | 3 |

DRESDEN

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|------------------------------------|
| 1 | 4.2 | 70 | FRONTAGE RD. |
| 2 | 3.9 | 92 | FRONTAGE RD. |
| 3 | 3.2 | 119 | TOWNLIN RD. |
| 4 | 1.3 | 134 | WILL RD. & TOWNLIN RD. |
| 5 | 1.5 | 115 | RIVER RD. |
| 6 | 1.9 | 180 | DRESDEN RD. |
| 7 | .5 | 179 | PLANT ENTRANCE |
| 8 | .7 | 166 | THORENSEN RD. |
| 9 | .5 | 205 | COLLINS RD. |
| 10 | .7 | 224 | COLLINS RD. |
| 11 | .9 | 250 | COLLINS RD. |
| 12 | 1.6 | 263 | COLLINS RD. |
| 13 | 4.0 | 180 | DRESDEN RD. |
| 14 | 4.8 | 158 | MURPHY RD. |
| 15 | 4.2 | 137 | GREEN RD. |
| 16 | 8.4 | 134 | MAIN ST. |
| 17 | 7.4 | 189 | BROADWAY ST. |
| 18 | 4.1 | 203 | CARPER RD. |
| 19 | 3.8 | 231 | JUGTOWN RD. |
| 20 | 6.4 | 244 | PINE BLUFF RD. |
| 21 | 8.6 | 258 | NETTLE ST. |
| 22 | 4.4 | 269 | CEMETERY RD. |
| 23 | 3.3 | 295 | TABLER RD. |
| 24 | 3.9 | 311 | SAND RIDGE RD. |
| 25 | 4.7 | 340 | MINOOKA RD. |
| 26 | 4.4 | 7 | WABENA AVE. |
| 27 | 2.0 | 1 | RIDGE RD. |
| 28 | 1.7 | 327 | McLINDON RD. |
| 29 | 1.4 | 318 | HANSEL RD. |
| 30 | 1.9 | 301 | CEMETERY RD. |
| 31 | 1.5 | 30 | HANSEL RD. |
| 32 | 1.9 | 48 | RD. IN SECTS. 19 & 30 (T.34N-R.9E) |
| 33 | 1.4 | 76 | RD. IN SECTS. 19 & 30 (T.34N-R.9E) |
| 34 | 1.4 | 90 | RD. IN SECTS. 19 & 30 (T.34N-R.9E) |
| 35 | 4.5 | 26 | CHANNAHON RD |
| 36 | 3.6 | 42 | CENTER ST. |
| 37 | 12.0 | 52 | NEAR BRANDON RD. |
| 38 | 24.0 | 274 | N. 31ST. |
| 39 | 24.0 | 274 | N. 31ST. |
| 40 | 24.0 | 275 | E. 24TH ST. |

MAP FOR DRESDEN

Map will be provided for this site in the future.

DUANE ARNOLD
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870916-880127 134 DAYS
 FIELD TIME 101 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE(mR) | | NET EXPOSURE RATE | | |
|--------------------------------|-------------------|---------------|------------------------------|------|-----------------------|------|--|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | Tot. | mR/Std. Dtr. + Rdm | Tot. | |
| 001 | 163 | 9.7 | 21.8 | 3.3 | 18.5 | 5.0 | |
| 002 | 170 | 6.2 | 22.0 | 3.3 | 18.6 | 5.0 | |
| 003 | 180 | 3.5 | 19.8 | 3.0 | 16.7 | 4.8 | |
| 004 | 216 | 2.9 | 23.9 | 3.6 | 20.3 | 5.1 | |
| 005 | 201 | 2.5 | 20.8 | 3.1 | 17.5 | 4.9 | |
| 006 | 213 | 1.0 | 23.3 | 3.5 | 19.7 | 5.1 | |
| 007 | 248 | 1.0 | 22.9 | 3.4 | 19.4 | 5.1 | |
| 008 | 279 | 1.0 | MISSING OR DAMAGED DOSIMETER | | | | |
| 009 | 298 | 1.0 | 23.4 | 3.5 | 19.8 | 5.1 | |
| 010 | 320 | 1.5 | 22.0 | 3.3 | 18.6 | 5.0 | |
| 011 | 343 | 1.0 | 25.7 | 3.0 | 21.9 | 5.3 | |
| 012 | 359 | 1.2 | 21.2 | 3.2 | 17.9 | 4.9 | |
| 013 | 237 | 0.5 | 22.7 | 3.4 | 19.2 | 5.0 | |
| 014 | 259 | 3.9 | 24.5 | 3.7 | 20.8 | 5.2 | |
| 015 | 272 | 5.0 | 18.5 | 3.0 | 15.5 | 4.7 | |
| 016 | 285 | 5.0 | 22.2 | 3.3 | 18.8 | 5.0 | |
| 017 | 308 | 4.5 | 21.9 | 3.3 | 18.5 | 5.0 | |
| 018 | 340 | 4.5 | 20.0 | 3.0 | 16.0 | 4.6 | |
| 019 | 291 | 15. | 21.6 | 3.3 | 18.3 | 5.0 | |
| 020 | 291 | 15. | 24.9 | 3.7 | 21.2 | 5.2 | |
| 021 | 291 | 15. | 19.4 | 3.2 | 16.2 | 4.6 | |
| 022 | 350 | 6.1 | 19.3 | 3.2 | 16.1 | 4.6 | |
| 023 | 7 | 2.9 | 18.9 | 3.0 | 15.9 | 4.6 | |
| 024 | 28 | 3.0 | 22.5 | 3.4 | 19.1 | 5.0 | |
| 025 | 39 | 3.5 | 21.5 | 3.3 | 18.1 | 4.9 | |
| 026 | 64 | 3.0 | 22.9 | 3.4 | 19.4 | 5.1 | |
| 027 | 50 | 1.9 | 18.4 | 3.0 | 15.4 | 4.7 | |
| 028 | 72 | 2.3 | 20.9 | 3.1 | 17.7 | 4.9 | |
| 029 | 91 | 3.0 | 19.1 | 3.2 | 15.9 | 4.6 | |
| 030 | 93 | 1.0 | 24.6 | 3.7 | 20.9 | 5.2 | |
| 031 | 113 | 2.0 | 24.7 | 3.7 | 21.0 | 5.2 | |
| 032 | 141 | 1.6 | 18.6 | 3.0 | 15.6 | 4.7 | |
| 033 | 153 | 1.5 | 23.4 | 3.5 | 19.9 | 5.1 | |
| 034 | 177 | 1.2 | 19.1 | 3.2 | 15.9 | 4.6 | |
| 035 | 153 | 4.2 | 21.0 | 3.1 | 17.7 | 4.9 | |
| 036 | 135 | 4.1 | 21.5 | 3.2 | 18.1 | 4.9 | |
| 037 | 111 | 4.6 | 21.7 | 3.2 | 18.3 | 5.0 | |
| 038 | 123 | 5.1 | 22.9 | 3.4 | 19.4 | 5.1 | |
| 039 | 132 | 7.0 | 19.2 | 3.2 | 16.1 | 4.6 | |
| 040 | 139 | 7.6 | 19.3 | 3.2 | 16.2 | 4.6 | |
| TRANSIT DOSE = 1.1 +- .3 ; 4.5 | | | | | | | |

DUANE ARNOLD
FOR THE PERIOD 870916-880127

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 16.7 \pm 1.1 | 3 |
| 11.25-33.75 (NNE) | 19.1 \pm 0.0 | 1 |
| 33.75-56.25 (NE) | 16.8 \pm 2.0 | 2 |
| 56.25-78.75 (ENE) | 18.5 \pm 1.2 | 2 |
| 78.75-101.25 (E) | 18.5 \pm 3.4 | 2 |
| 101.25-123.75 (ESE) | 19.8 \pm 1.4 | 3 |
| 123.75-146.25 (SE) | 16.5 \pm 1.1 | 4 |
| 146.25-168.75 (SSE) | 18.7 \pm 1.1 | 3 |
| 168.75-191.25 (S) | 17.1 \pm 1.3 | 3 |
| 191.25-213.75 (SSW) | 18.6 \pm 1.6 | 2 |
| 213.75-236.25 (SW) | 20.3 \pm 0.0 | 1 |
| 236.25-258.75 (WSW) | 19.3 \pm .2 | 2 |
| 258.75-281.25 (W) | 18.2 \pm 3.7 | 2 |
| 281.25-303.75 (WNW) | 19.3 \pm .7 | 2 |
| 303.75-326.25 (NW) | 18.8 \pm .1 | 2 |
| 326.25-348.75 (NNW) | 19.3 \pm 3.6 | 2 |
| | | |

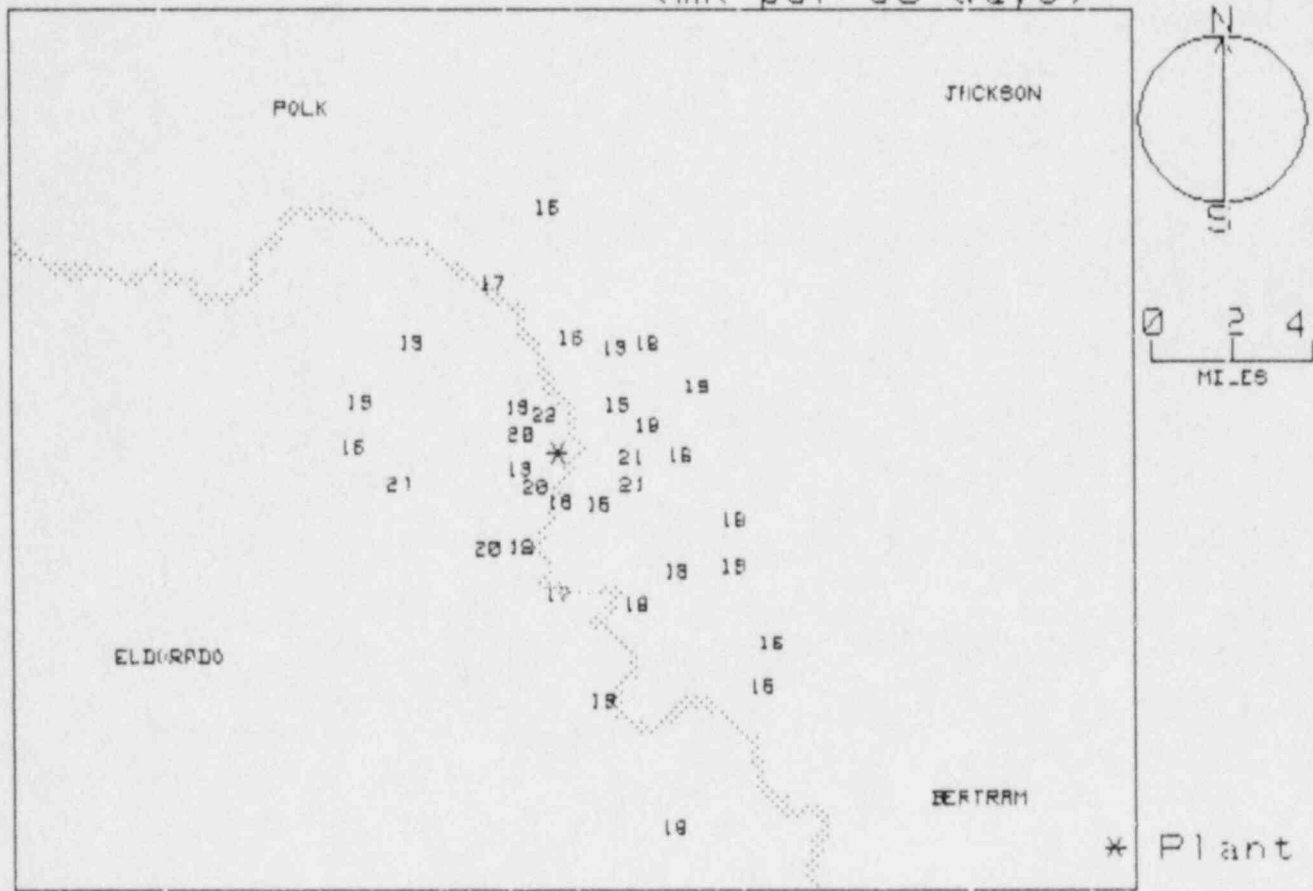
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 18.9 \pm 2.1 | 13 |
| 2-5 | 18.0 \pm 1.5 | 17 |
| >5 | 17.5 \pm 1.5 | 6 |
| UPWIND CONTROL DATA | 18.8 \pm 2.4 | 3 |

DUANE ARNOLD

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|--|
| 1 | 9.7 | 163 | EDGEWOOD RD. |
| 2 | 6.2 | 170 | HWY. 94 (COVINGTON) |
| 3 | 3.5 | 180 | PUBLIC USE AREA #11 (CHAIN BRIDGE RD) |
| 4 | 2.9 | 216 | BLAIRS FERRY RD & HWY 94 |
| 5 | 2.5 | 201 | MAJOR JCT IN PALO (E36 & W36) |
| 6 | 1.0 | 213 | COMP RD |
| 7 | 1.0 | 248 | S. OF R.R. ON W36 (PALO MARSH RD) |
| 8 | 1.0 | 279 | W36 PAST SMALL BRIDGE |
| 9 | 1.0 | 298 | W36 E. SIDE FENCEPOST |
| 10 | 1.5 | 320 | W36 & MCCLINTOCK RD. |
| 11 | 1.0 | 343 | MCCLINTOCK RD.-E. |
| 12 | 1.2 | 359 | N. ON PRIVATE DRIVE |
| 13 | .5 | 237 | POWER PLANT RD. |
| 14 | 3.9 | 259 | BEAR CREEK RD AFTER CURVE |
| 15 | 5.0 | 272 | SHELLSBURG |
| 16 | 5.0 | 285 | W26 |
| 17 | 4.5 | 308 | E24 |
| 18 | 4.5 | 340 | E24 IN 'LEWIS PRESERVE' (LEWIS ACC. RD) |
| 19 | 15.0 | 291 | 2ND AVE-VINTON LUTHERAN HOME |
| 20 | 15.0 | 291 | VINTON LUTHERAN HOME |
| 21 | 15.0 | 291 | HWY. 101 |
| 22 | 6.1 | 358 | SUMMIT & IOWA STS (in CENTER PT) |
| 23 | 2.9 | 7 | HWY. 150 (CENTER POINT RD) |
| 24 | 3.0 | 28 | QUAIL RIDGE RD |
| 25 | 3.5 | 39 | HWY 150 (TULL LN & CENTER PT RD) |
| 26 | 3.8 | 64 | HWY 150 (HAGERMAN RD & CENTER PT RD) |
| 27 | 1.9 | 50 | PONDS LANE |
| 28 | 2.3 | 72 | ON FENCE POST (STANDLER RD) |
| 29 | 3.0 | 91 | FRONT DRIVE IN TODDVILLE |
| 30 | 1.8 | 93 | FEATHER RIDGE RD & WICKIUP HILL RD |
| 31 | 2.0 | 113 | N. OF KUEHL RESIDENCE (FEATHER RIDGE RD) |
| 32 | 1.6 | 141 | MORRIS HILLS RD & HORSESHOE LANE RD |
| 33 | 1.5 | 153 | MORRIS HILLS RD AT INTERSECTION |
| 34 | 1.2 | 177 | FENCEPOST NEAR N. GATE (MORRIS HILLS RD) |
| 35 | 4.2 | 153 | BLAIRS FERRY RD AT CURVE |
| 36 | 4.1 | 135 | MILBURN RD. & OAK GROVE RD |
| 37 | 4.6 | 111 | CENTER POINT RD & SINGER HILL LANE |
| 38 | 5.1 | 123 | CENTER POINT RD & TOWER TERRACE RD |
| 39 | 7.0 | 132 | 1ST AVE & CENTER PT RD in HIAWATHA |
| 40 | 7.6 | 139 | J AVE & MAPLEWOOD DR in CEDAR RAPIDS |

NRC TLD DOSES FOR DJANE ARNOLD AREA (mR per 90 days)



FARLEY
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870917-880205 142 DAYS
 FIELD TIME 100 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | | | |
|----------------|-------------------|---------------|------------------------------|------|-----------------------|------|-----|--|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | Tot. | mR/Std. Qtr. + Rdm | Tot. | | |
| 001 | 268 | 15. | 18.3 | 0.5 | 15.8 | 0.6 | 4.9 | |
| 002 | 252 | 7.8 | MISSING OR DAMAGED DOSIMETER | | | | | |
| 003 | 217 | 6.1 | 19.7 | 0.6 | 16.2 | 0.6 | 5.0 | |
| 004 | 155 | 5.7 | 21.3 | 0.6 | 17.2 | 0.6 | 5.1 | |
| 005 | 170 | 5.1 | 18.0 | 0.6 | 15.4 | 0.6 | 4.9 | |
| 006 | 197 | 4.5 | 19.4 | 0.6 | 16.0 | 0.6 | 4.9 | |
| 007 | 191 | 2.4 | 22.0 | 0.6 | 19.0 | 0.6 | 5.0 | |
| 008 | 200 | 1.0 | 19.3 | 0.6 | 15.0 | 0.6 | 4.7 | |
| 009 | 220 | 1.0 | 16.0 | 0.6 | 12.0 | 0.6 | 4.7 | |
| 010 | 254 | 1.9 | 19.0 | 0.6 | 15.0 | 0.6 | 4.7 | |
| 011 | 300 | 1.9 | 19.0 | 0.6 | 15.0 | 0.6 | 4.7 | |
| 012 | 319 | 1.1 | 19.0 | 0.6 | 15.0 | 0.6 | 4.7 | |
| 013 | 338 | 1.0 | 17.3 | 0.6 | 14.0 | 0.6 | 4.4 | |
| 014 | 356 | 1.1 | 18.0 | 0.6 | 14.4 | 0.6 | 4.4 | |
| 015 | 16 | 1.3 | 18.0 | 0.6 | 15.4 | 0.6 | 4.4 | |
| 016 | 22 | 1.3 | 19.0 | 0.6 | 16.1 | 0.6 | 4.5 | |
| 017 | 33 | 1.3 | 19.0 | 0.6 | 15.0 | 0.6 | 4.4 | |
| 018 | 33 | 1.3 | 19.0 | 0.6 | 15.0 | 0.6 | 4.4 | |
| 019 | 33 | 1.3 | 19.0 | 0.6 | 15.0 | 0.6 | 4.4 | |
| 020 | 33 | 1.3 | 19.0 | 0.6 | 15.0 | 0.6 | 4.4 | |
| 021 | 33 | 1.3 | 19.0 | 0.6 | 15.0 | 0.6 | 4.4 | |
| 022 | 33 | 1.3 | 17.7 | 0.6 | 14.4 | 0.6 | 4.4 | |
| 023 | 33 | 1.3 | 18.0 | 0.6 | 14.4 | 0.6 | 4.4 | |
| 024 | 33 | 1.3 | 19.0 | 0.6 | 15.0 | 0.6 | 4.4 | |
| 025 | 34 | 1.3 | 17.3 | 0.6 | 14.4 | 0.6 | 4.4 | |
| 026 | 34 | 1.3 | 20.0 | 0.6 | 16.0 | 0.6 | 4.5 | |
| 027 | 38 | 1.3 | 19.0 | 0.6 | 15.0 | 0.6 | 4.4 | |
| 028 | 12 | 1.1 | 19.0 | 0.6 | 15.0 | 0.6 | 4.4 | |
| 029 | 15 | 1.1 | 20.0 | 0.6 | 16.0 | 0.6 | 4.5 | |
| 030 | 14 | 1.1 | 17.0 | 0.6 | 14.0 | 0.6 | 4.4 | |
| 031 | 13 | 1.0 | 17.0 | 0.6 | 14.0 | 0.6 | 4.4 | |
| 032 | 11 | 1.0 | 19.0 | 0.6 | 15.0 | 0.6 | 4.4 | |
| 033 | 7 | 1.0 | 17.0 | 0.6 | 14.0 | 0.6 | 4.4 | |
| 034 | 5 | 1.0 | 16.0 | 0.6 | 13.0 | 0.6 | 4.4 | |
| 035 | 3 | 1.4 | 20.0 | 0.6 | 16.0 | 0.6 | 4.5 | |
| 036 | 1 | 1.4 | 20.0 | 0.6 | 16.0 | 0.6 | 4.5 | |
| 037 | 0 | 1.0 | 19.0 | 0.6 | 15.0 | 0.6 | 4.4 | |
| 038 | 0 | 1.0 | 20.0 | 0.6 | 16.0 | 0.6 | 4.5 | |
| 039 | 0 | 1.0 | 21.0 | 0.6 | 17.0 | 0.6 | 4.5 | |
| TRANSIT DOSE | | | 1.7 | 0.3 | 4.7 | | | |

FARLEY
FOR THE PERIOD 870917-880205

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | NO DATA--NO DATA | 0 |
| 11.25-33.75 (NNE) | 18.8 \pm 2.8 | 3 |
| 33.75-56.25 (NE) | 18.3 \pm 6.0 | 2 |
| 56.25-78.75 (ENE) | 14.7 \pm 1.9 | 3 |
| 78.75-101.25 (E) | 15.8 \pm 0.0 | 1 |
| 101.25-123.75 (ESE) | 15.8 \pm 0.0 | 1 |
| 123.75-146.25 (SE) | 14.7 \pm .8 | 3 |
| 146.25-168.75 (SSE) | 17.4 \pm .3 | 2 |
| 168.75-191.25 (S) | 17.2 \pm 2.6 | 2 |
| 191.25-213.75 (SSW) | 15.8 \pm .1 | 2 |
| 213.75-236.25 (SW) | 14.9 \pm 1.0 | 3 |
| 236.25-258.75 (WSW) | 16.2 \pm 1.6 | 4 |
| 258.75-281.25 (W) | 15.5 \pm .5 | 3 |
| 281.25-303.75 (WNW) | 16.0 \pm .3 | 2 |
| 303.75-326.25 (NW) | 16.8 \pm 0.0 | 2 |
| 326.25-348.75 (NNW) | 14.2 \pm .2 | 2 |
| | | |

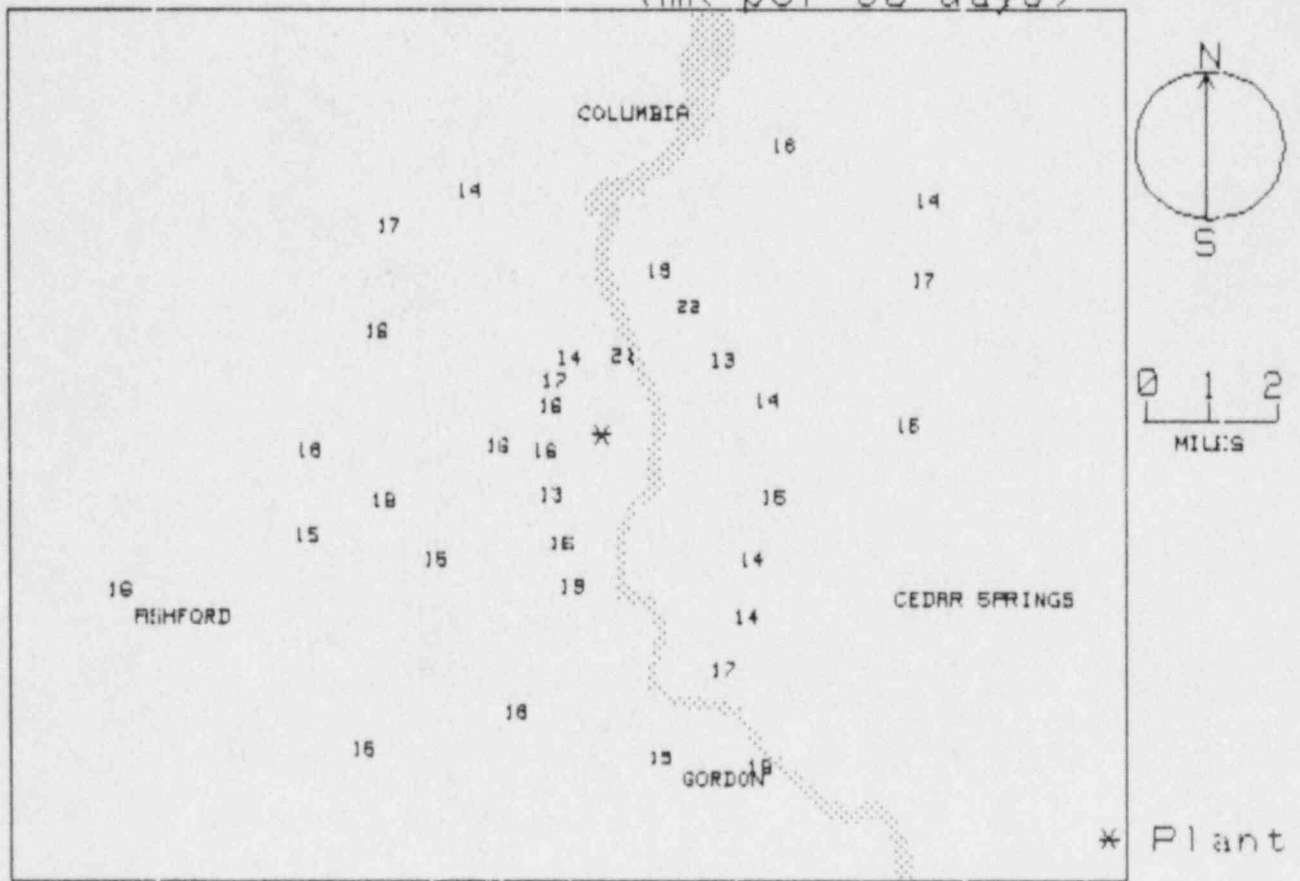
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 16.0 \pm 2.2 | 9 |
| 2-5 | 16.3 \pm 2.3 | 18 |
| >5 | 15.8 \pm 1.1 | 8 |
| UPWIND CONTROL DATA | 17.6 \pm 1.3 | 3 |

FARLEY

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|-----------------------|
| 1 | 15.0 | 268 | DOTHAN |
| 2 | 7.8 | 252 | ASHFORD (AL) |
| 3 | 6.1 | 217 | PANSEY (AL) |
| 4 | 5.7 | 155 | GORDANS LANDING (AL) |
| 5 | 5.1 | 170 | MARSH RESIDENCE |
| 6 | 4.5 | 197 | PHIL. CHURCH RD. |
| 7 | 2.4 | 191 | HWY. 95 AT CEDAR CR. |
| 8 | 1.8 | 200 | UNION SPRING CH. RD. |
| 9 | 1.2 | 220 | WHATLEY FARM |
| 10 | .9 | 254 | FRONT GATE (AT SITE) |
| 11 | .9 | 300 | HWY. 95 |
| 12 | 1.1 | 319 | HWY. 95 (FARLEY SITE) |
| 13 | 1.3 | 338 | DAMSITE RD. |
| 14 | 1.2 | 256 | PIC STATION |
| 15 | 1.3 | 16 | DAMSITE RD. |
| 16 | 1.6 | 264 | RT. 42 |
| 17 | 3.5 | 253 | LANDFILL |
| 18 | 3.2 | 233 | UNION SPRING CH. |
| 19 | 4.5 | 267 | OKAY GROVE CH. |
| 20 | 3.8 | 295 | RT. 75 & RT. 33 |
| 21 | 4.6 | 315 | HWY. 52 (AL) |
| 22 | 4.3 | 332 | HWY. 52 (AL) |
| 23 | 4.8 | 351 | COLUMBIA (AL) |
| 24 | 5.3 | 32 | HILTON (GA) |
| 25 | 6.2 | 54 | SAWHATCHEE (GA) |
| 26 | 5.5 | 64 | RD. 26 (GA) |
| 27 | 4.7 | 88 | CEDAR SPRINGS TOWER |
| 28 | 5.1 | 124 | CEDAR SPRINGS |
| 29 | 4.1 | 153 | HWY. 273 (GA) |
| 30 | 3.6 | 142 | HWY. 370 (GA) |
| 31 | 3.0 | 130 | HWY. 370 (GA) |
| 32 | 2.8 | 110 | HWY. 370 (GA) |
| 33 | 2.6 | 78 | HWY. 370 (GA) |
| 34 | 2.2 | 58 | RD. 31 |
| 35 | 2.4 | 34 | RD. 31 |
| 36 | 2.7 | 19 | ANDERS LOCK & DAM RD. |
| 37 | 10.0 | 284 | WEBB (AL) |
| 38 | 15.0 | 289 | HWY. 431 (AL) |
| 39 | 15.0 | 293 | AL HWY. 431 |

NRC TLD DOSES FOR FARLEY AREA
(mR per 90 days)



FERMI
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870915-880127 135 DAYS
 FIELD TIME 99 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|--------------------------|-------------------|---------------|------------------------------|------|-----------------------|------|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | Tot. | mR/Std. Dtr. + Rdm | Tot. |
| 001 | 38 | 2.1 | MISSING OR DAMAGED DOSIMETER | | | |
| 002 | 22 | 2.3 | 22.5 | 3.4 | 14.4 | 6.5 |
| 003 | 350 | 1.8 | 30.0 | 4.5 | 21.2 | 7.0 |
| 004 | 345 | 1.9 | MISSING OR DAMAGED DOSIMETER | | | |
| 005 | 346 | 1.4 | 25.9 | 3.9 | 17.5 | 6.7 |
| 006 | 310 | 1.3 | 25.2 | 3.0 | 16.8 | 6.7 |
| 007 | 298 | 1.4 | 23.5 | 3.5 | 15.3 | 6.6 |
| 008 | 277 | 1.6 | 23.2 | 3.5 | 15.0 | 6.5 |
| 009 | 238 | 1.0 | 22.7 | 3.4 | 14.6 | 6.5 |
| 010 | 225 | 1.5 | MISSING OR DAMAGED DOSIMETER | | | |
| 011 | 193 | 0.8 | 25.9 | 3.9 | 17.5 | 6.7 |
| 012 | 183 | 0.9 | 23.1 | 3.5 | 14.9 | 6.5 |
| 013 | 175 | 0.8 | 24.1 | 3.6 | 15.9 | 6.6 |
| 014 | 260 | 1.7 | 25.6 | 3.8 | 17.2 | 6.7 |
| 015 | 245 | 2.5 | 21.5 | 3.2 | 13.5 | 6.4 |
| 016 | 236 | 5.0 | 26.8 | 4.0 | 18.3 | 6.8 |
| 017 | 225 | 6.8 | 19.0 | 2.9 | 11.2 | 6.3 |
| 018 | 250 | 7.8 | 20.2 | 3.0 | 12.3 | 6.4 |
| 019 | 277 | 6.0 | 20.0 | 3.0 | 12.1 | 6.3 |
| 020 | 297 | 6.0 | 24.4 | 3.7 | 16.1 | 6.6 |
| 021 | 320 | 3.8 | 22.7 | 3.4 | 14.6 | 6.5 |
| 022 | 340 | 4.7 | 23.7 | 3.5 | 15.6 | 6.6 |
| 023 | 358 | 4.3 | 24.9 | 3.7 | 16.6 | 6.7 |
| 024 | 23 | 5.0 | 27.9 | 4.2 | 19.3 | 6.9 |
| 025 | 25 | 7.0 | 20.6 | 3.1 | 12.7 | 6.4 |
| 026 | 0 | 7.0 | MISSING OR DAMAGED DOSIMETER | | | |
| 027 | 342 | 8.0 | 22.2 | 3.3 | 14.2 | 6.5 |
| 028 | 320 | 9.5 | 23.2 | 3.5 | 15.0 | 6.6 |
| 029 | 290 | 11. | 25.7 | 3.8 | 17.0 | 6.7 |
| 030 | 270 | 11. | 27.4 | 4.1 | 18.9 | 6.8 |
| 031 | 245 | 10. | 23.5 | 3.5 | 15.3 | 6.6 |
| 032 | 220 | 11. | 25.5 | 3.8 | 17.2 | 6.7 |
| 033 | 270 | 15. | 19.6 | 2.9 | 11.0 | 6.6 |
| 034 | 270 | 15. | 22.6 | 3.4 | 14.5 | 6.6 |
| 035 | 290 | 16. | 22.9 | 3.4 | 14.7 | 6.6 |
| 036 | 350 | 0.8 | 20.1 | 3.0 | 12.2 | 6.6 |
| 037 | 330 | 0.7 | 20.7 | 3.1 | 12.6 | 6.4 |
| 038 | 310 | 0.7 | 21.5 | 3.2 | 13.5 | 6.4 |
| 039 | 23/ | 10. | 20.6 | 3.0 | 12.0 | 6.6 |
| 040 | 0 | 9.0 | 26.6 | 4.0 | 18.1 | 6.8 |
| 041 | 348 | 9.0 | 21.2 | 3.2 | 13.2 | 6.4 |
| TRANSIT DOSE = 6.6 +- .4 | | | ; 6.3 | | | |

FERMI
FOR THE PERIOD 870915-880127

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std. Dev. | # IN GROUP |
|---------------------|--|------------|
| 348.75-11.25 (N) | 17.0 \pm 3.6 | 4 |
| 11.25-33.75 (NNE) | 16.6 \pm 3.6 | 4 |
| 33.75-56.25 (NE) | NO DATA--NO DATA | 0 |
| 56.25-78.75 (ENE) | NO DATA--NO DATA | 0 |
| 78.75-101.25 (E) | NO DATA--NO DATA | 0 |
| 101.25-123.75 (ESE) | NO DATA--NO DATA | 0 |
| 123.75-146.25 (SE) | NO DATA--NO DATA | 0 |
| 146.25-168.75 (SSE) | NO DATA--NO DATA | 0 |
| 168.75-191.25 (S) | 15.4 \pm .7 | 2 |
| 191.25-213.75 (SSW) | 17.5 \pm 0.0 | 1 |
| 213.75-236.25 (SW) | 15.6 \pm 3.0 | 3 |
| 236.25-258.75 (WSW) | 13.9 \pm 1.3 | 4 |
| 258.75-281.25 (W) | 15.8 \pm 2.9 | 4 |
| 281.25-303.75 (WNW) | 16.2 \pm 1.0 | 3 |
| 303.75-326.25 (NW) | 15.0 \pm 1.4 | 4 |
| 326.25-348.75 (NNW) | 14.6 \pm 1.9 | 5 |
| | | |

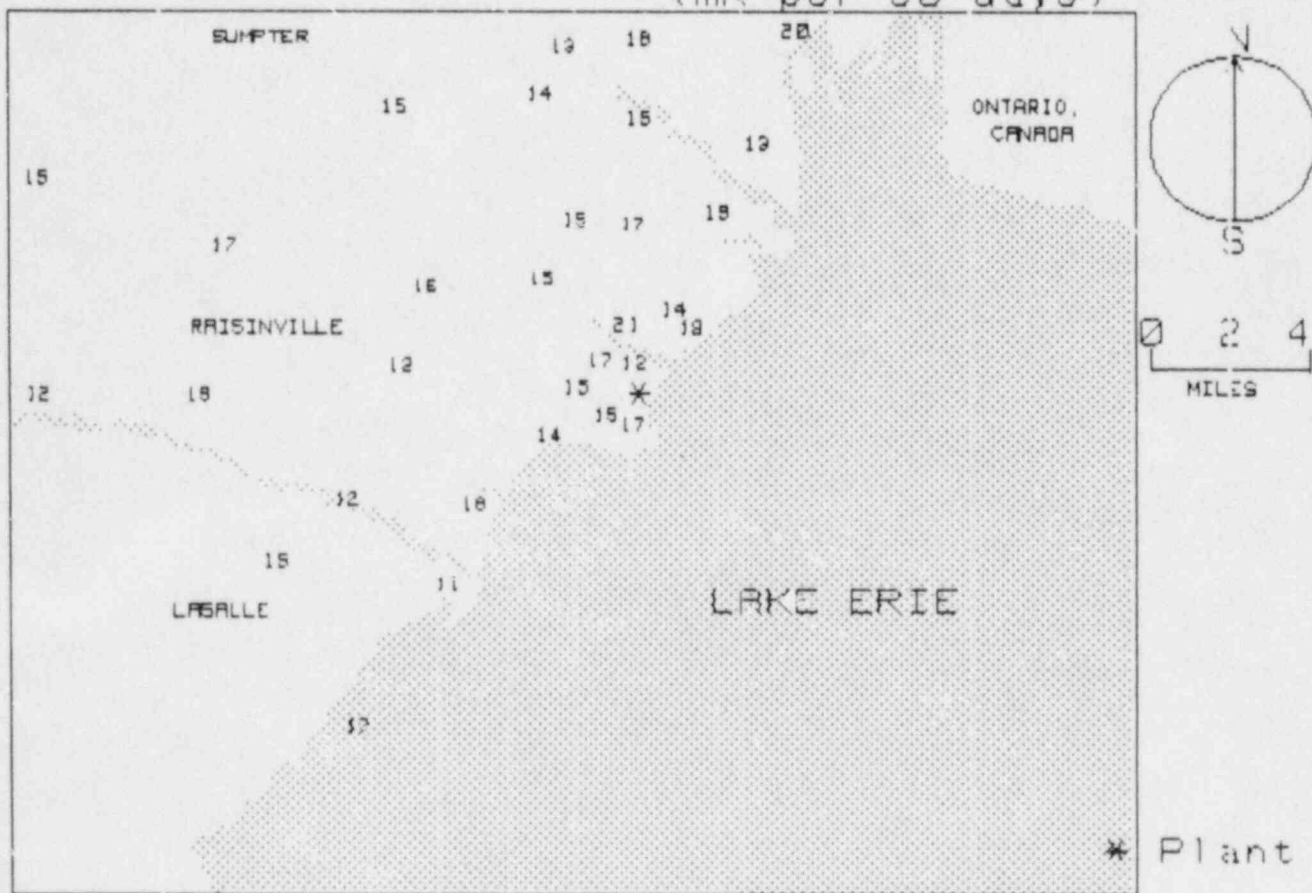
| DISTANCE (mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std. Dev. | # IN GROUP |
|--------------------------------|--|------------|
| 0-2 | 15.7 \pm 2.4 | 13 |
| 2-5 | 16.0 \pm 2.1 | 7 |
| >5 | 15.3 \pm 2.7 | 14 |
| UPWIND CONTROL DATA | 13.7 \pm 1.6 | 3 |

FERMI

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|-----------------------------|
| 1 | 2.1 | 38 | ESTRAL BEACH |
| 2 | 2.3 | 22 | PORT SUNLIGHT |
| 3 | 1.8 | 350 | STRONG&TROMBLY RDS. |
| 4 | 1.9 | 345 | SWAN VIEW DR. |
| 5 | 1.4 | 346 | POST&LEROUX RDS. |
| 6 | 1.3 | 310 | M.SMITH FARM |
| 7 | 1.4 | 298 | FERMI DR.&LEROUX RD. |
| 8 | 1.6 | 277 | TOLL(N. DIXIE&LEROUX RDS.) |
| 9 | 1.0 | 238 | FERMI ENTRANCE |
| 10 | 1.5 | 225 | ELM AND MAIN ST. |
| 11 | .8 | 193 | VENT PIPE(PT. AUX PEAX RD.) |
| 12 | .9 | 183 | DEWEY RD. |
| 13 | .8 | 175 | LONG RD. |
| 14 | 1.7 | 260 | JEFFERSON HIGH SCH. |
| 15 | 2.5 | 245 | WOODLAND BEACH |
| 16 | 5.0 | 236 | STERLING PARK |
| 17 | 6.8 | 225 | ENTRANCE TO DECO |
| 18 | 7.8 | 250 | ST. MARY'S PARK |
| 19 | 6.0 | 277 | DECO SUBSTATION |
| 20 | 6.0 | 297 | RT. 24&BUHL RD. |
| 21 | 3.8 | 320 | NEWPORT POST OFFICE |
| 22 | 4.7 | 340 | BRANDO&LABO RDS. |
| 23 | 4.3 | 358 | LABO&N.DIXIE HWY. |
| 24 | 5.0 | 23 | SHOOTING RANGE |
| 25 | 7.0 | 25 | CAMPAU RD. |
| 26 | 7.0 | 0 | S.ROCKWOOD |
| 27 | 8.0 | 342 | ROCKWOOD RD. |
| 28 | 9.5 | 320 | CARLETON TOWN |
| 29 | 11.0 | 290 | FINZEL RD. |
| 30 | 11.0 | 270 | RAISINVILLE RD. |
| 31 | 10.0 | 245 | HERR RD. |
| 32 | 11.0 | 220 | MORTAR RD. |
| 33 | 15.0 | 270 | LEWIS RD. |
| 34 | 15.0 | 270 | LEWIS RD. |
| 35 | 16.0 | 290 | MAYBEE RD. |
| 36 | .8 | 350 | TOLL-FISHER RD.(SITE) |
| 37 | .7 | 330 | TOLL RD.(SITE BOUNDRY) |
| 38 | .7 | 310 | TOLL RD.(SITE BOUNDRY) |
| 39 | 10.0 | 23 | GIBRALTAR & TURNPIKE |
| 40 | 9.0 | 0 | CAHILL RD. |
| 41 | 9.0 | 348 | RT. 24 & GIBRALTAR RDS. |

NRC TLD DOSES FOR FERMI AREA (mR per 90 days)



FITZPATRICK/NINE MI.
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870918-880125 130 DAYS
 FIELD TIME 89 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | | NET EXPOSURE RATE | | | | |
|----------------|-------------------|---------------|------------------------------|-----|------|-------------------|------|-----------|-----|--|
| | AZIMUTH (deg.) | DIST (mi.) | + - | Rdm | Tot. | mR/Std. Qtr. | + - | Rdm; Tot. | | |
| 001 | 230 | 6.9 | 18.8 | +- | .6 | 2.8 | 13.8 | +- .7 | 6.1 | |
| 002 | 184 | 14 | 20.2 | +- | .6 | 3.0 | 15.3 | +- .7 | 6.2 | |
| 003 | 122 | 8.4 | 19.2 | +- | .6 | 2.9 | 14.3 | +- .7 | 6.1 | |
| 004 | 76 | 11. | 19.4 | +- | .6 | 2.9 | 14.5 | +- .7 | 6.2 | |
| 005 | 91 | 6.8 | 20.0 | +- | .6 | 3.0 | 15.1 | +- .7 | 6.2 | |
| 006 | 112 | 4.3 | 20.4 | +- | .6 | 3.1 | 15.5 | +- .7 | 6.2 | |
| 007 | 138 | 4.3 | 19.7 | +- | .6 | 2.9 | 14.8 | +- .7 | 6.2 | |
| 008 | 152 | 3.6 | 20.4 | +- | .6 | 3.1 | 15.5 | +- .7 | 6.2 | |
| 009 | 183 | 3.9 | 20.0 | +- | .6 | 3.0 | 15.1 | +- .7 | 6.2 | |
| 010 | 205 | 4.5 | 19.9 | +- | .6 | 3.0 | 15.0 | +- .7 | 6.2 | |
| 011 | 220 | 4.4 | 17.1 | +- | .5 | 2.6 | 12.1 | +- .6 | 6.0 | |
| 012 | 230 | 6.1 | 19.8 | +- | .6 | 3.0 | 14.9 | +- .7 | 6.2 | |
| 013 | 245 | 1.8 | 18.7 | +- | .6 | 2.8 | 13.8 | +- .7 | 6.1 | |
| 014 | 223 | 1.8 | 19.3 | +- | .6 | 2.9 | 14.4 | +- .7 | 6.1 | |
| 015 | 204 | 2 | MISSING OR DAMAGED DOSIMETER | | | | | | | |
| 016 | 181 | 1.8 | 21.3 | +- | .6 | 3.2 | 16.4 | +- .7 | 6.3 | |
| 017 | 157 | 1.9 | 19.5 | +- | .6 | 2.9 | 14.6 | +- .7 | 6.2 | |
| 018 | 137 | 1.6 | 19.5 | +- | .6 | 2.9 | 14.6 | +- .7 | 6.2 | |
| 019 | 115 | 1.2 | 17.3 | +- | .5 | 2.6 | 12.4 | +- .6 | 6.0 | |
| 020 | 92 | 1.1 | 20.2 | +- | .6 | 3.0 | 15.3 | +- .7 | 6.2 | |
| 021 | 229 | 20. | 19.9 | +- | .6 | 3.0 | 15.0 | +- .7 | 6.2 | |
| 022 | 229 | 20. | 18.2 | +- | .5 | 2.7 | 13.3 | +- .7 | 6.1 | |
| 023 | 229 | 20. | 21.3 | +- | .6 | 3.2 | 16.4 | +- .7 | 6.3 | |
| 024 | 196 | 8 | MISSING OR DAMAGED DOSIMETER | | | | | | | |
| 025 | 168 | 7.2 | 18.1 | +- | .5 | 2.7 | 13.1 | +- .7 | 6.1 | |
| 026 | 152 | .6 | 19.9 | +- | .6 | 3.0 | 15.0 | +- .7 | 6.2 | |
| TRANSIT DOSE = | | | 5.1 | +- | .4 | ; | 5.4 | | | |

FITZPATRICK/NINE MI.
FOR THE PERIOD 870918-880125

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | NO DATA--NO DATA | 0 |
| 11.25-33.75 (NNE) | NO DATA--NO DATA | 0 |
| 33.75-56.25 (NE) | NO DATA--NO DATA | 0 |
| 56.25-78.75 (ENE) | 14.5 \pm 0.0 | 1 |
| 78.75-101.25 (E) | 15.2 \pm .1 | 2 |
| 101.25-123.75 (ESE) | 14.0 \pm 1.6 | 3 |
| 123.75-146.25 (SE) | 14.7 \pm .1 | 2 |
| 146.25-168.75 (SSE) | 14.5 \pm 1.0 | 4 |
| 168.75-191.25 (S) | 15.6 \pm .7 | 3 |
| 191.25-213.75 (SSW) | 15.0 \pm 0.0 | 1 |
| 213.75-236.25 (SW) | 13.8 \pm 1.2 | 4 |
| 236.25-258.75 (WSW) | 13.8 \pm 0.4 | 1 |
| 258.75-281.25 (W) | NO DATA--NO DATA | 0 |
| 281.25-303.75 (WNW) | NO DATA--NO DATA | 0 |
| 303.75-326.25 (NW) | NO DATA--NO DATA | 0 |
| 326.25-348.75 (NNW) | NO DATA--NO DATA | 0 |

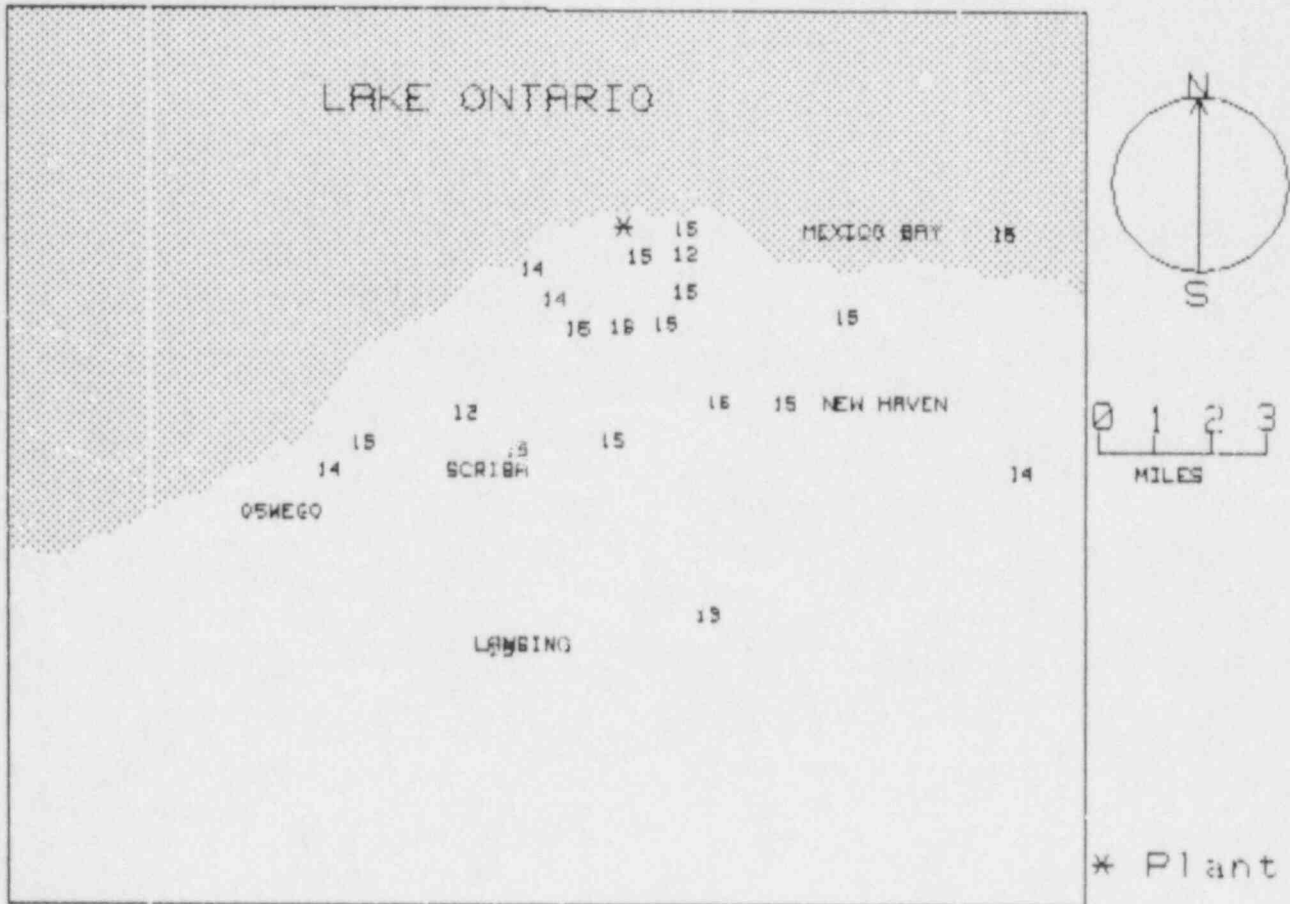
| DISTANCE (mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|--------------------------------|---|------------|
| 0-2 | 14.5 \pm 1.2 | 8 |
| 2-5 | 14.7 \pm 1.3 | 6 |
| >5 | 14.4 \pm .7 | 7 |
| UPWIND CONTROL DATA | 14.9 \pm 1.5 | 3 |

FITZPATRICK/NINE MI.

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|------------------------|
| 1 | 6.9 | 230 | OAK HILL SCHOOL |
| 2 | 14.0 | 184 | FULTON |
| 3 | 8.4 | 122 | MEXICO |
| 4 | 11.0 | 76 | SELKIRK SHORES PARK |
| 5 | 6.8 | 91 | MEXICO PT. BOAT LAUNCH |
| 6 | 4.3 | 112 | DEMSTER BEACH RD. |
| 7 | 4.3 | 138 | ALBRIGHT RD. |
| 8 | 3.6 | 152 | MIDDLE RD. |
| 9 | 3.9 | 183 | DUKE RD. |
| 10 | 4.5 | 205 | CREMERY RD. |
| 11 | 4.4 | 220 | 2 RIDGE FARM |
| 12 | 6.1 | 230 | ST. PAUL'S ST. |
| 13 | 1.8 | 245 | LAKEVIEW WATERFRONT |
| 14 | 1.8 | 223 | LAKEVIEW RD. |
| 15 | 2.0 | 204 | MINER RD. |
| 16 | 1.8 | 181 | HOPKINS RESIDENCE |
| 17 | 1.9 | 157 | PARKHURST RD. |
| 18 | 1.6 | 137 | DAWNS BEAUTY SHOP |
| 19 | 1.2 | 115 | LAKE RD. |
| 20 | 1.1 | 92 | NOYES RESIDENCE |
| 21 | 20.0 | 229 | FAIR HAVEN STATE PARK |
| 22 | 20.0 | 229 | FAIR HAVEN STATE PARK |
| 23 | 20.0 | 229 | FAIR HAVEN STATE PARK |
| 24 | 8.0 | 196 | FROST ROAD |
| 25 | 7.2 | 168 | O'CONNOR RD. |
| 26 | .6 | 152 | NEAREST RESIDENT |

NRC TLD DOSES FOR NINE MILE PT/J.FITZPATRICK AREA
 (mR per 90 days)



FT. CALHOUN
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870915-880127 135 DAYS
 FIELD TIME 84 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|----------------|-------------------|---------------|------------------------------|------|-----------------------|------|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | Tot. | mR/Std. Qtr. + Rdm | Tot. |
| 001 | 358 | 2.0 | 23.2 | +.7 | 18.8 | +.8 |
| 002 | 351 | 4.6 | 24.4 | +.7 | 20.2 | +.9 |
| 003 | 30 | 2.5 | 23.6 | +.7 | 19.3 | +.9 |
| 004 | 27 | 4.6 | 25.1 | +.8 | 20.9 | +.9 |
| 005 | 53 | 1.9 | 25.4 | +.8 | 21.2 | +.9 |
| 006 | 37 | 3.9 | 24.8 | +.7 | 20.6 | +.9 |
| 007 | 76 | 2.3 | 24.9 | +.7 | 20.7 | +.9 |
| 008 | 59 | 2.2 | 24.3 | +.7 | 20.0 | +.9 |
| 009 | 100 | 3.3 | 20.9 | +.6 | 16.4 | +.9 |
| 010 | 88 | 3.6 | 23.7 | +.7 | 19.4 | +.9 |
| 011 | 122 | 3.3 | 23.2 | +.7 | 18.8 | +.9 |
| 012 | 105 | 2.7 | 22.7 | +.7 | 18.4 | +.9 |
| 013 | 145 | 1.9 | 23.4 | +.7 | 19.1 | +.9 |
| 014 | 128 | 3.5 | 23.4 | +.7 | 19.1 | +.9 |
| 015 | 157 | 1.9 | 24.6 | +.7 | 20.4 | +.9 |
| 016 | 150 | 4.4 | 26.3 | +.8 | 22.2 | +.9 |
| 017 | 173 | 3.0 | 25.7 | +.8 | 21.5 | +.9 |
| 018 | 173 | 3.0 | 24.4 | +.7 | 20.2 | +.9 |
| 019 | 212 | 3.0 | 24.4 | +.7 | 20.2 | +.9 |
| 020 | 204 | 3.0 | 24.4 | +.7 | 20.2 | +.9 |
| 021 | 233 | 4.2 | 26.2 | +.8 | 22.1 | +.9 |
| 022 | 224 | 4.8 | 26.4 | +.8 | 22.3 | +.9 |
| 023 | 239 | 3.8 | 26.5 | +.8 | 22.4 | +.9 |
| 024 | 243 | 3.8 | 24.8 | +.7 | 20.7 | +.9 |
| 025 | 269 | 3.3 | 26.8 | +.8 | 22.7 | +.9 |
| 026 | 262 | 3.3 | 26.8 | +.8 | 22.7 | +.9 |
| 027 | 288 | 3.3 | 26.8 | +.8 | 22.7 | +.9 |
| 028 | 292 | 3.3 | 24.4 | +.7 | 20.2 | +.9 |
| 029 | 311 | 3.4 | 24.5 | +.7 | 20.3 | +.9 |
| 030 | 318 | 3.5 | 24.8 | +.7 | 20.6 | +.9 |
| 031 | 340 | 3.3 | 24.8 | +.7 | 20.6 | +.9 |
| 032 | 338 | 3.3 | 25.4 | +.7 | 21.2 | +.9 |
| 033 | 182 | 3.3 | 25.1 | +.7 | 20.9 | +.9 |
| 035 | 127 | 3.3 | 23.4 | +.7 | 19.1 | +.9 |
| 039 | 158 | 3.3 | 24.6 | +.7 | 20.3 | +.9 |
| 040 | 73 | 3.3 | 25.3 | +.7 | 21.0 | +.9 |
| 043 | 29 | 3.3 | 24.4 | +.7 | 20.2 | +.9 |
| 044 | 65 | 3.3 | 24.4 | +.7 | 20.2 | +.9 |
| 045 | 182 | 4.4 | 24.2 | +.7 | 19.9 | +.9 |
| 047 | 298 | 4.4 | 23.8 | +.7 | 19.5 | +.9 |
| 048 | 13 | 14. | 26.7 | +.8 | 22.6 | +.9 |
| 049 | 207 | 19. | MISSING OR DAMAGED DOSIMETER | | | |
| TRANSIT DOSE = | | 5.6 | +.4 | 5.3 | | |

FT. CALHOUN
FOR THE PERIOD 870915-880127

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 19.5 \pm .9 | 2 |
| 11.25-33.75 (NNE) | 19.4 \pm 1.5 | 3 |
| 33.75-56.25 (NE) | 20.9 \pm .4 | 2 |
| 56.25-78.75 (ENE) | 19.9 \pm 1.4 | 4 |
| 78.75-101.25 (E) | 17.9 \pm 2.2 | 2 |
| 101.25-123.75 (ESE) | 18.6 \pm .3 | 2 |
| 123.75-146.25 (SE) | 19.1 \pm .8 | 3 |
| 146.25-168.75 (SSE) | 21.0 \pm 1.0 | 3 |
| 168.75-191.25 (S) | 20.6 \pm .7 | 4 |
| 191.25-213.75 (SSW) | 20.0 \pm .1 | 2 |
| 213.75-236.25 (SW) | 22.2 \pm .1 | 2 |
| 236.25-258.75 (WSW) | 19.2 \pm 1.6 | 2 |
| 258.75-281.25 (W) | 21.7 \pm .3 | 2 |
| 281.25-303.75 (WNW) | 20.4 \pm 1.0 | 3 |
| 303.75-326.25 (NW) | 20.6 \pm .6 | 2 |
| 326.25-348.75 (NNW) | 20.9 \pm .5 | 2 |
| | | |

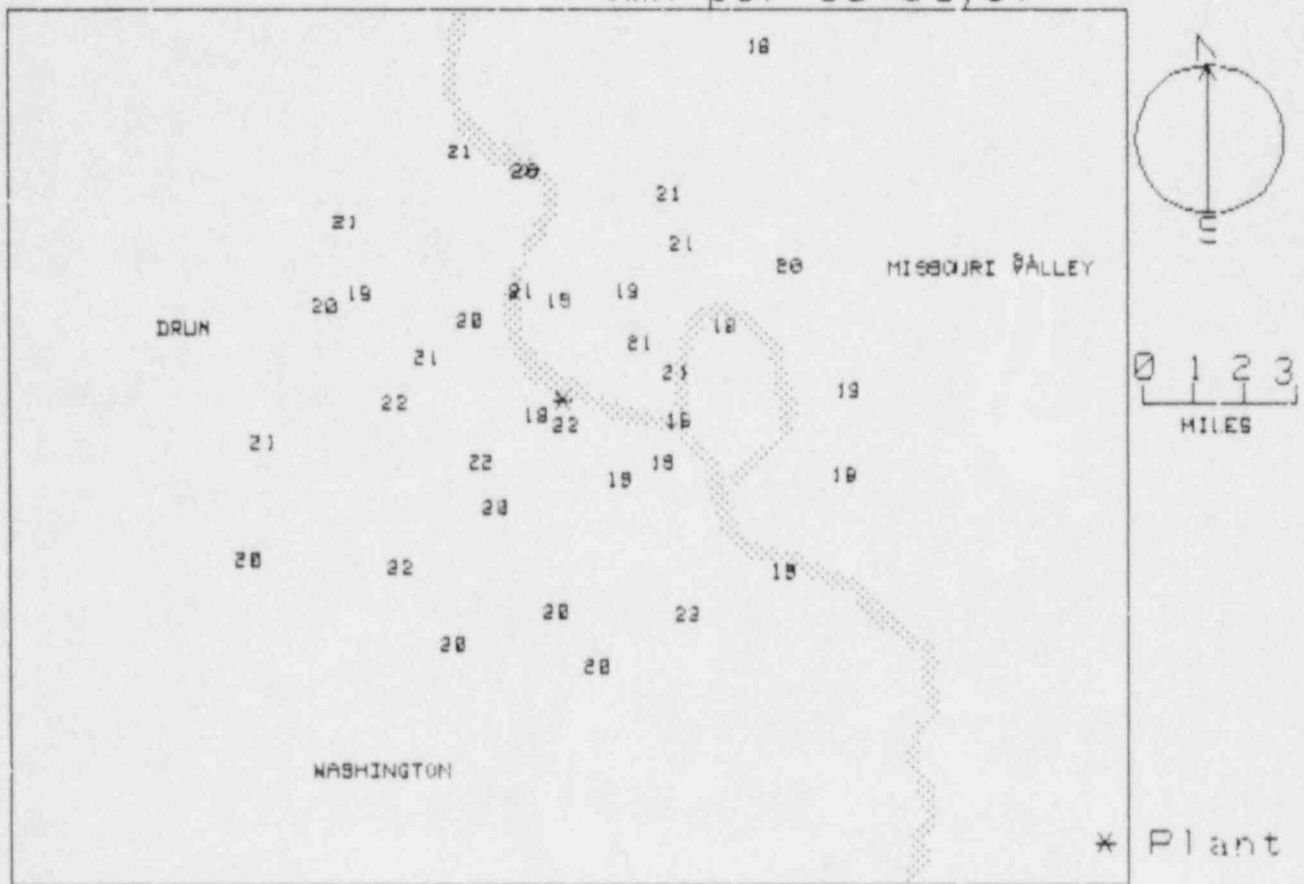
| DISTANCE (mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|--------------------------------|---|------------|
| 0-2 | 20.3 \pm 1.4 | 8 |
| 2-5 | 20.1 \pm 1.4 | 20 |
| >5 | 20.0 \pm 1.1 | 12 |
| UPWIND CONTROL DATA | 22.6 \pm 0.0 | 1 |

FT. CALHOUN

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|--|
| 1 | 2.0 | 358 | DIRT RD. (1 MILE E. OF MISSOURI R.) |
| 2 | 4.6 | 351 | COTTONWOOD MARINA |
| 3 | 2.5 | 30 | HWY. 30 (2 MILES E. OF MISSOURI R.) |
| 4 | 4.6 | 27 | OLD SOLDIER R. DITCH |
| 5 | 1.9 | 53 | DIRT FARM RD. NEAR US 30 |
| 6 | 3.9 | 37 | GRAVEL RD. NEAR US 30 |
| 7 | 2.3 | 76 | DeSOTO REFUGE |
| 8 | 5.2 | 59 | CALIF. JUNCT. (1ST INTERSEC. N OF RR) |
| 9 | 2.3 | 100 | RIVER GAUGING STATION |
| 10 | 5.6 | 88 | FARM RD. NEAR US 30 |
| 11 | 2.3 | 122 | DeSOTO REFUGE ENTRANCE GATE |
| 12 | 5.7 | 105 | FARMHOUSE NEAR US 30 |
| 13 | 1.9 | 145 | DeSOTO |
| 14 | 5.5 | 128 | TRAILER PARK |
| 15 | 1.9 | 157 | INTERSECTION P226 & P39 |
| 16 | 4.9 | 150 | CEMETERY (CLAY RD.) |
| 17 | .5 | 173 | NEAR PLANT ENTRANCE |
| 18 | 5.3 | 173 | INTERSECTION P39 & P132 |
| 19 | 2.5 | 212 | COUNTY RD. P35 (AT INTERSEC- GRAVEL RD) |
| 20 | 5.3 | 204 | COUNTY RD. P34 (0.5 MI. E OF HWY 133) |
| 21 | 2.0 | 233 | COUNTY RD. P35 (1.3 MI N OF RD. P128) |
| 22 | 4.6 | 224 | HWY. 133 (3.4 MILES S. OF BLAIR) |
| 23 | .6 | 239 | 1 MILE N. ON HWY. 73 FROM PLANT ENTRANCE |
| 24 | 6.9 | 243 | KENHARD |
| 25 | 3.3 | 269 | HWY. 30 & 133 |
| 26 | 5.9 | 262 | COUNTY RDS. P26 & P27 |
| 27 | 2.8 | 288 | BLAIR |
| 28 | 5.0 | 292 | BLAIR FARMHOUSE |
| 29 | 2.4 | 311 | TELEPHONE POLE STORAGE AREA |
| 30 | 5.5 | 310 | US 73 NEAR ROAD TO CHURCH |
| 31 | 2.3 | 340 | FIRST INTERSECTION W. OF BLAIR RD. |
| 32 | 5.3 | 338 | COTTONWOOD MARINA |
| 33 | .5 | 182 | GREENHOUSE PLANT ENTRANCE |
| 35 | 2.2 | 127 | SMITH FARM |
| 39 | 5.0 | 150 | FORT ATKINSON |
| 40 | 9.5 | 73 | MISSOURI VALLEY |
| 43 | 8.0 | 29 | MODALE SCHOOL |
| 44 | 3.5 | 65 | PICNIC AREA - DeSOTO REFUGE |
| 45 | 4.2 | 182 | SCHOOL #8 |
| 47 | 4.5 | 298 | DANA COLLEGE |
| 48 | 14.0 | 13 | MONDAMIN TOWN HALL |
| 49 | 19.0 | 207 | ELKHORN |

NRC TLD DOSES FOR FORT CALHOUN AREA (mR per 90 days)



FT. ST. VRAIN
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870915-880216 155 DAYS
 FIELD TIME 103 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE(mR) | | NET EXPOSURE RATE | | |
|----------------|-------------------|---------------|------------------------------|-----------|-------------------|-------------|--|
| | AZIMUTH (deg.) | DIST (mi.) | + - | Rdm; Tot. | + - | Rdm; Tot. | |
| 001 | 0 | 0.8 | 45.2 | + - 1.4 | 6.8 | NO NET DATA | |
| 002 | 2 | 3.3 | 44.4 | + - 1.3 | 6.7 | NO NET DATA | |
| 003 | 29 | 2.6 | 44.9 | + - 1.3 | 6.7 | NO NET DATA | |
| 004 | 17 | 5.4 | 48.0 | + - 1.4 | 7.2 | NO NET DATA | |
| 005 | 54 | 2.1 | 43.0 | + - 1.3 | 6.5 | NO NET DATA | |
| 006 | 48 | 4.8 | 44.8 | + - 1.3 | 6.7 | NO NET DATA | |
| 007 | 76 | 2.6 | 46.3 | + - 1.4 | 6.9 | NO NET DATA | |
| 008 | 58 | 4.2 | 45.0 | + - 1.4 | 6.8 | NO NET DATA | |
| 009 | 100 | 1.5 | 45.9 | + - 1.4 | 6.9 | NO NET DATA | |
| 010 | 87 | 4.5 | 42.5 | + - 1.3 | 6.4 | NO NET DATA | |
| 011 | 118 | 1.6 | 49.9 | + - 1.5 | 7.5 | NO NET DATA | |
| 012 | 104 | 3.0 | 42.7 | + - 1.3 | 6.4 | NO NET DATA | |
| 013 | 143 | 1.6 | 44.7 | + - 1.3 | 6.7 | NO NET DATA | |
| 014 | 128 | 4.5 | 44.9 | + - 1.3 | 6.7 | NO NET DATA | |
| 015 | 168 | 2.3 | 42.6 | + - 1.3 | 6.4 | NO NET DATA | |
| 016 | 148 | 4.6 | 43.9 | + - 1.3 | 6.6 | NO NET DATA | |
| 017 | 182 | 0.8 | 41.3 | + - 1.2 | 6.3 | NO NET DATA | |
| 018 | 175 | 4.8 | 43.8 | + - 1.3 | 6.6 | NO NET DATA | |
| 019 | 210 | 0.9 | 43.8 | + - 1.3 | 6.6 | NO NET DATA | |
| 020 | 200 | 2.9 | 44.2 | + - 1.3 | 6.6 | NO NET DATA | |
| 021 | 234 | 1.3 | 45.1 | + - 1.4 | 6.8 | NO NET DATA | |
| 022 | 216 | 3.3 | 42.3 | + - 1.3 | 6.6 | NO NET DATA | |
| 023 | 254 | 2.5 | 41.5 | + - 1.2 | 6.3 | NO NET DATA | |
| 024 | 244 | 3.8 | 41.7 | + - 1.2 | 6.3 | NO NET DATA | |
| 025 | 278 | 1.5 | 41.6 | + - 1.2 | 6.3 | NO NET DATA | |
| 026 | 263 | 5.4 | 44.4 | + - 1.3 | 6.7 | NO NET DATA | |
| 027 | 297 | 1.7 | 40.9 | + - 1.2 | 6.1 | NO NET DATA | |
| 028 | 284 | 5.8 | 42.8 | + - 1.3 | 6.6 | NO NET DATA | |
| 029 | 317 | 0.9 | 41.7 | + - 1.3 | 6.3 | NO NET DATA | |
| 030 | 305 | 4.2 | MISSING OR DAMAGED DOSIMETER | | | | |
| 031 | 338 | 1.4 | 42.2 | + - 1.3 | 6.3 | NO NET DATA | |
| 032 | 330 | 5.0 | 39.9 | + - 1.2 | 6.0 | NO NET DATA | |
| 033 | 267 | 6.5 | 44.1 | + - 1.3 | 6.6 | NO NET DATA | |
| 034 | 130 | 3.7 | 41.5 | + - 1.2 | 6.3 | NO NET DATA | |
| 035 | 270 | 0.1 | 45.2 | + - 1.4 | 6.8 | NO NET DATA | |
| 038 | 345 | 6.7 | 44.9 | + - 1.3 | 6.7 | NO NET DATA | |
| 039 | 10 | 6.0 | 44.4 | + - 1.3 | 6.7 | NO NET DATA | |
| 040 | 63 | 6.0 | 41.1 | + - 1.2 | 6.2 | NO NET DATA | |
| 041 | 165 | 12. | 45.5 | + - 1.4 | 6.8 | NO NET DATA | |
| 042 | 240 | 13. | 48.1 | + - 1.4 | 7.2 | NO NET DATA | |
| 045 | 198 | 11. | 44.0 | + - 1.3 | 6.6 | NO NET DATA | |
| 046 | 39 | 16. | 43.0 | + - 1.3 | 6.5 | NO NET DATA | |
| 047 | 357 | 17. | 41.1 | + - 1.2 | 6.2 | NO NET DATA | |
| 048 | 171 | 18. | 41.8 | + - 1.3 | 6.3 | NO NET DATA | |
| 049 | 360 | 0.5 | 46.9 | + - 1.4 | 7.0 | NO NET DATA | |

NO TRANSIT DOSE CALCULATED (TLD CONTROLS MISSING OR OTHERWISE NOT COMPLETE)

FT. ST. VRAIN
FOR THE PERIOD 870915-880216

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | NET AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 25.8 \pm .3 | 3 |
| 11.25-33.75 (NNE) | 27.0 \pm 1.3 | 2 |
| 33.75-56.25 (NE) | 25.3 \pm .8 | 3 |
| 56.25-78.75 (ENE) | 25.6 \pm 1.6 | 3 |
| 78.75-101.25 (E) | 25.7 \pm 1.4 | 2 |
| 101.25-123.75 (ESE) | 26.9 \pm 3.0 | 2 |
| 123.75-146.25 (SE) | 25.4 \pm 1.1 | 3 |
| 146.25-168.75 (SSE) | 25.5 \pm .8 | 3 |
| 168.75-191.25 (S) | 24.7 \pm 1.0 | 2 |
| 191.25-213.75 (SSW) | 25.5 \pm .1 | 3 |
| 213.75-236.25 (SW) | 25.4 \pm 1.1 | 2 |
| 236.25-258.75 (WSW) | 25.4 \pm 2.2 | 3 |
| 258.75-281.25 (W) | 25.4 \pm .9 | 4 |
| 281.25-303.75 (WNW) | 24.0 \pm .5 | 2 |
| 303.75-326.25 (NW) | 24.2 \pm 0.0 | 1 |
| 326.25-348.75 (NNW) | 24.6 \pm 1.4 | 3 |
| | | |

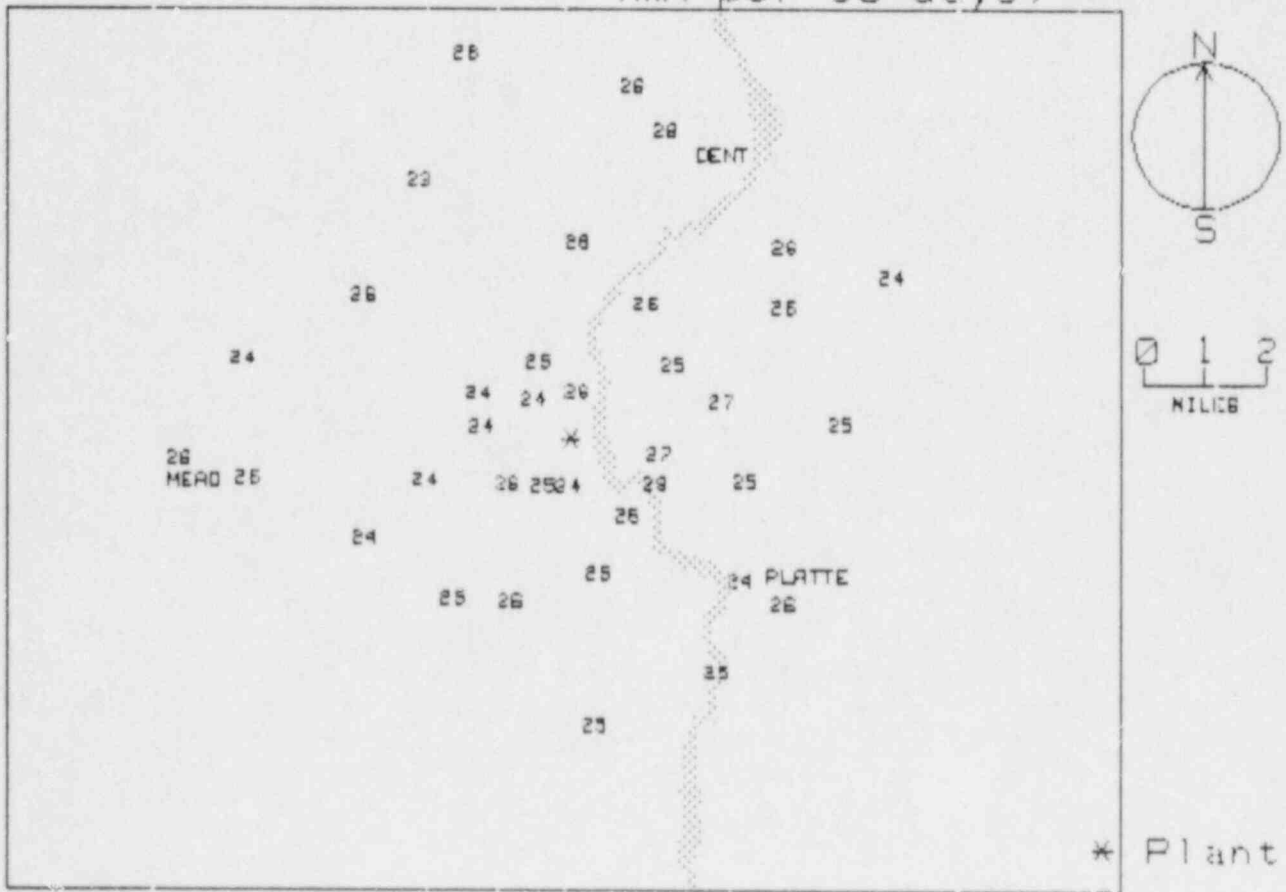
| DISTANCE (mi) FROM THE REACTOR | NET AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|--------------------------------|---|------------|
| 0-2 | 25.5 \pm 1.5 | 12 |
| 2-5 | 25.1 \pm .9 | 18 |
| >5 | 25.8 \pm 1.2 | 11 |
| UPWIND CONTROL DATA | 25.1 \pm 1.8 | 3 |

FT. ST. VRAIN

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|--|
| 1 | .8 | 8 | 0.7 MILES N. & 0.1 MILES E. OF REACTOR |
| 2 | 3.3 | 2 | RD 42 |
| 3 | 2.6 | 29 | RD 23 & RD 40 |
| 4 | 5.4 | 17 | RD 46 & RD 23 |
| 5 | 2.1 | 54 | FARM HOUSE ON RD 38 |
| 6 | 4.8 | 48 | HWY. 60 & RD 42 |
| 7 | 2.6 | 76 | RD. 25 |
| 8 | 4.2 | 58 | HWY. 60 & RD. 40 |
| 9 | 1.5 | 100 | RD. 23 |
| 10 | 4.5 | 87 | RD. 36 & RD. 29 |
| 11 | 1.6 | 118 | RD. 23 |
| 12 | 3.0 | 104 | RD. 34 |
| 13 | 1.6 | 143 | RD. 32 & RD. 21 |
| 14 | 4.5 | 128 | HILES MILLER DAIRY |
| 15 | 2.3 | 168 | RD. 21 AT BEEMAN'S DITCH |
| 16 | 4.6 | 148 | RD. 28 |
| 17 | .8 | 182 | RD. 34 |
| 18 | 4.8 | 175 | RD. 26 |
| 19 | .9 | 210 | RD. 19 & RD. 34 |
| 20 | 2.9 | 200 | RD. 19 & HWY. 66 |
| 21 | 1.3 | 234 | RD. 34 |
| 22 | 3.3 | 216 | RD. 17 |
| 23 | 2.5 | 254 | RD. 34 & RD. 15 |
| 24 | 3.8 | 244 | RD. 13 & RD. 32 |
| 25 | 1.5 | 278 | RD. 17 & RD. 36 |
| 26 | 5.4 | 263 | RD. 34 |
| 27 | 1.7 | 297 | RD. 17 & RD. 36 1/2 |
| 28 | 5.6 | 284 | RD. 38 |
| 29 | .9 | 317 | RD. 36 1/2 & RD. 19 |
| 30 | 4.2 | 305 | RD. 13 & RD. 40 |
| 31 | 1.4 | 338 | RD. 19 & RD. 38 |
| 32 | 5.0 | 330 | RD. 44 & RD. 15 |
| 33 | 6.5 | 267 | MEAD ELEMENTARY SCHOOL |
| 34 | 3.7 | 130 | PLATTEVILLE ELEMENTARY SCHOOL |
| 35 | .1 | 270 | VISTOR'S CENTER AT PLANT |
| 38 | 6.7 | 345 | LETFORD ELEMENTARY SCHOOL |
| 39 | 6.0 | 10 | MILLIKEN MIDDLE SCHOOL |
| 40 | 6.0 | 63 | GILCREST |
| 41 | 12.0 | 165 | FT. LUPTON |
| 42 | 13.0 | 248 | LONGMONT SCHOOL |
| 45 | 11.0 | 198 | FREDERICK JR./SR. HIGH SCHOOL |
| 46 | 16.0 | 39 | GREELEY ELECTRICAL SUBSTATION |
| 47 | 17.0 | 357 | NINDSOR |
| 48 | 18.0 | 171 | BRIGHTON |
| 49 | .5 | 360 | RD. 19 |

NRC TLD DOSES FOR FT. ST. VRAIN AREA
(mR per 90 days)



GINNA
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870918-880125 130 DAYS
 FIELD TIME 91 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|----------------|-------------------|---------------|------------------------|--------|-------------------|-------------|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | - Tot. | mR/Std. Qtr. | + Rdm; Tot. |
| 001 | 95 | 1.7 | 20.2 | +- | 15.9 | +- |
| 002 | 108 | 1.1 | 17.4 | +- | 13.2 | +- |
| 003 | 142 | 1.7 | 18.5 | +- | 14.2 | +- |
| 004 | 154 | 1.5 | 19.7 | +- | 15.4 | +- |
| 005 | 174 | 1.4 | 19.7 | +- | 15.5 | +- |
| 006 | 212 | 1.6 | 17.8 | +- | 13.9 | +- |
| 007 | 244 | 1.3 | 19.2 | +- | 14.9 | +- |
| 008 | 230 | 1.6 | 19.2 | +- | 15.0 | +- |
| 010 | 266 | 1.5 | 19.3 | +- | 15.0 | +- |
| 011 | 264 | 4.6 | 20.7 | +- | 16.4 | +- |
| 012 | 245 | 3.8 | 18.8 | +- | 13.8 | +- |
| 013 | 235 | 4.2 | 19.8 | +- | 14.7 | +- |
| 014 | 200 | 3.9 | 19.2 | +- | 14.4 | +- |
| 015 | 178 | 3.4 | 19.8 | +- | 15.1 | +- |
| 016 | 160 | 3.7 | 18.9 | +- | 14.7 | +- |
| 017 | 134 | 3.8 | 17.3 | +- | 13.1 | +- |
| 018 | 115 | 4.3 | 19.7 | +- | 15.4 | +- |
| 019 | 88 | 4.4 | 19.2 | +- | 14.9 | +- |
| 020 | 98 | 6.2 | 16.5 | +- | 12.4 | +- |
| 021 | 123 | 7.8 | 17.1 | +- | 13.0 | +- |
| 022 | 151 | 11.1 | 19.5 | +- | 15.0 | +- |
| 023 | 165 | 12.1 | 18.1 | +- | 13.9 | +- |
| 024 | 212 | 14.1 | 24.3 | +- | 20.0 | +- |
| 025 | 223 | 13.1 | 17.7 | +- | 13.5 | +- |
| 026 | 242 | 16.1 | 18.6 | +- | 14.3 | +- |
| 027 | 254 | 14.1 | 20.8 | +- | 16.0 | +- |
| 028 | 234 | 6.9 | 19.1 | +- | 14.8 | +- |
| 029 | 185 | 3.3 | 19.8 | +- | 15.1 | +- |
| 030 | 264 | 1.5 | 17.8 | +- | 13.9 | +- |
| TRANSIT DOSE = | 4.0 | +- | .3 | +- | .1 | +- |

GINNA
FOR THE PERIOD 870018-880105

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Ctr.) \pm Std. Dev. | # IN GROUP |
|---------------------|--|------------|
| 348.75-11.25 (N) | NO DATA+-NO DATA | 0 |
| 11.25-33.75 (NNE) | NO DATA+-NO DATA | 0 |
| 33.75-56.25 (NE) | NO DATA+-NO DATA | 0 |
| 56.25-78.75 (ENE) | NO DATA+-NO DATA | 0 |
| 78.75-101.25 (E) | 15.1 \pm .8 | 3 |
| 101.25-123.75 (ESE) | 13.9 \pm 1.1 | 4 |
| 123.75-146.25 (SE) | 10.7 \pm .8 | 2 |
| 146.25-168.75 (SSE) | 15.1 \pm .4 | 3 |
| 168.75-191.25 (S) | 15.3 \pm .4 | 3 |
| 191.25-213.75 (SSW) | 16.2 \pm 3.4 | 3 |
| 213.75-236.25 (SW) | 14.5 \pm .7 | 4 |
| 236.25-258.75 (WSW) | 14.4 \pm .8 | 2 |
| 258.75-281.25 (W) | 15.7 \pm 1.0 | 2 |
| 281.25-303.75 (WNW) | NO DATA+-NO DATA | 0 |
| 303.75-326.25 (NW) | NO DATA+-NO DATA | 0 |
| 326.25-348.75 (NNW) | NO DATA+-NO DATA | 0 |
| | | |

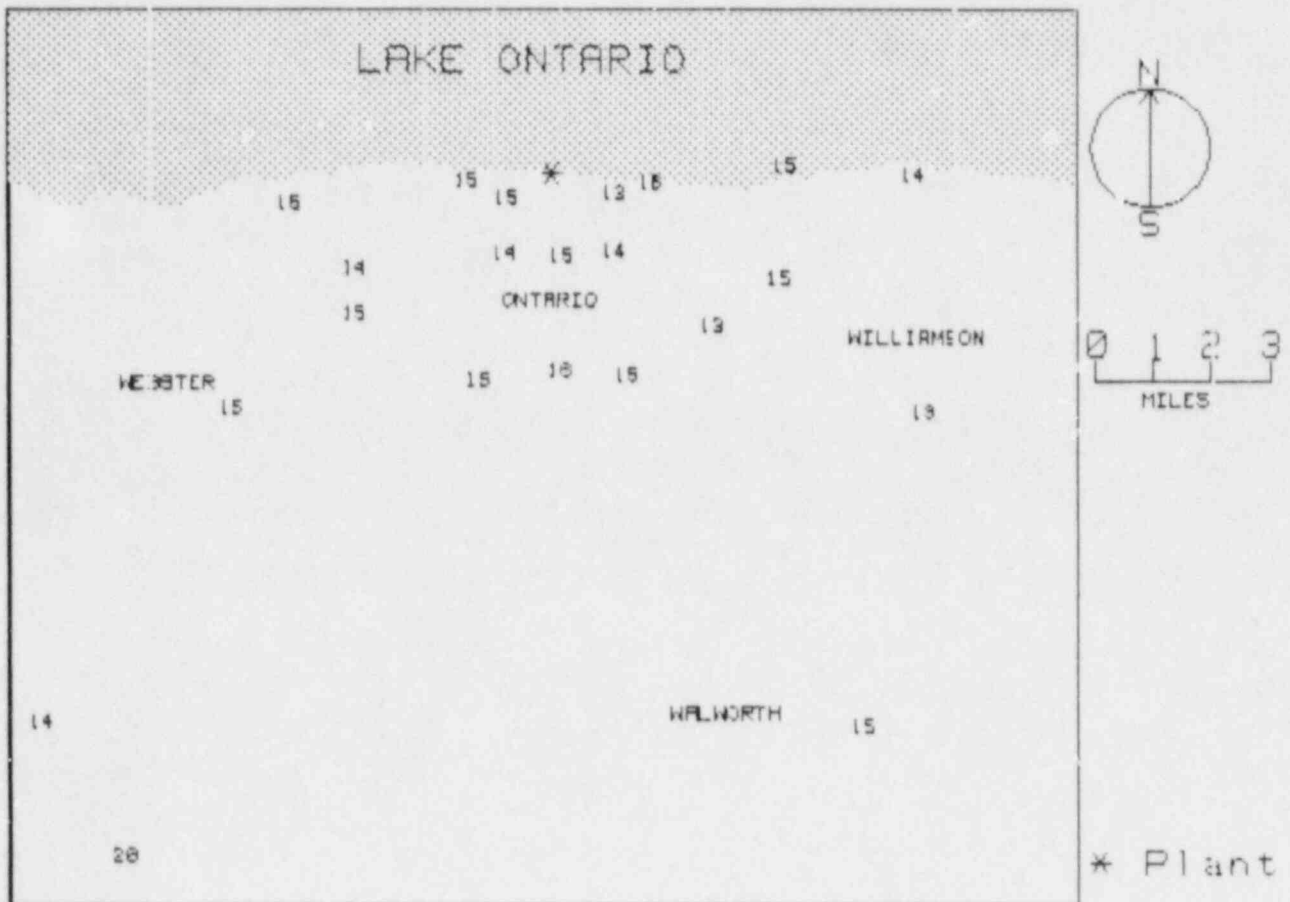
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Ctr.) \pm Std. Dev. | # IN GROUP |
|-------------------------------|--|------------|
| 0-2 | 14.8 \pm .9 | 10 |
| 2-5 | 14.9 \pm 1.0 | 9 |
| >5 | 14.8 \pm 2.4 | 7 |
| UPWIND CONTROL DATA | 14.3 \pm 1.5 | 3 |

GINNA

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|---------------------------------------|
| 1 | 1.7 | 95 | ONTARIO BOAT LAUNCH |
| 2 | 1.1 | 108 | LAKE RD. & KNICKERBOCKER RD. |
| 3 | 1.7 | 142 | KNICKERBOCKER RD. & BRICK CHURCH RD. |
| 4 | 1.5 | 154 | BRICK CHURCH RD. |
| 5 | 1.4 | 174 | ONTARIO CENTER RD. & BRICK CHURCH RD. |
| 6 | 1.6 | 212 | SLOCUM RD. & BRICK CHURCH RD. |
| 7 | .9 | 244 | LAKE RD. & SLOCUM RD. |
| 8 | .6 | 230 | LAKE RD. |
| 10 | 1.5 | 266 | EAGLE CLIFF FARM |
| 11 | 4.6 | 264 | LAKE RD. & SALT RD. |
| 12 | 3.8 | 245 | COUNTY LINE RD. & WOODWARD RD. |
| 13 | 4.2 | 235 | COUNTY LINE RD. & BERG RD. |
| 14 | 3.8 | 200 | RT. 104 (SUBSTATION #204) |
| 15 | 3.4 | 178 | RT. 104 (SUBSTATION #205) |
| 16 | 3.7 | 160 | RT. 104 & FURNACE RD. |
| 17 | 3.8 | 134 | FISHER RD & KENYON RD. |
| 18 | 4.3 | 115 | SEELY RD. & STONY LONESOME RD. |
| 19 | 4.0 | 88 | STONY LONESOME RD. & LAKE RD. |
| 20 | 6.2 | 90 | PULTNEYVILLE |
| 21 | 7.6 | 123 | WILLIAMSON |
| 22 | 11.0 | 151 | MARION |
| 23 | 12.0 | 105 | SODUS |
| 24 | 14.0 | 212 | FAIRPORT |
| 25 | 13.0 | 223 | PENFIELD |
| 26 | 16.0 | 242 | ROCHESTER MUSEUM |
| 27 | 14.0 | 254 | IRONDEQUIT TOWN HALL |
| 28 | 6.9 | 234 | WEBSTER |
| 29 | .3 | 105 | FARM IN FRONT OF PLANT |
| 30 | 15.0 | 264 | ROCHESTER |

NRC TLD DOSES FOR GINNA AREA
(mR per 90 days)



GRAND GULF
 TLJ DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870917-880126 132 DAYS
 FIELD TIME 92 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|----------------|-------------------|---------------|------------------------|------------|-------------------|---------------|
| | AZIMUTH (deg.) | DIST (mi.) | + - Rdm; Tot. | | mR/Std. Qtr. | + - Rdm; Tot. |
| 001 | 337 | 2.7 | 21.8 | +- .7 | 17.5 | +- .7 |
| 002 | 351 | 1.6 | 18.9 | +- .6 | 14.7 | +- .6 |
| 003 | 20 | 1.5 | 22.2 | +- .7 | 17.9 | +- .7 |
| 004 | 51 | 2.2 | 21.5 | +- .6 | 17.2 | +- .7 |
| 005 | 68 | 2.7 | MISSING | OR DAMAGED | DIOSIMETER | |
| 006 | 47 | 4.1 | MISSING | OR DAMAGED | DIOSIMETER | |
| 007 | 68 | 4.9 | 24.6 | +- .7 | 20.2 | +- .7 |
| 008 | 91 | 3.2 | 21.7 | +- .6 | 17.4 | +- .6 |
| 009 | 81 | 1.0 | 22.4 | +- .7 | 18.1 | +- .7 |
| 010 | 109 | 0.6 | 23.9 | +- .7 | 19.6 | +- .7 |
| 011 | 139 | 0.8 | 22.4 | +- .7 | 18.1 | +- .7 |
| 012 | 185 | 1.1 | 21.1 | +- .6 | 16.8 | +- .6 |
| 013 | 207 | 1.1 | 23.6 | +- .7 | 19.3 | +- .7 |
| 014 | 247 | 1.1 | 23.9 | +- .7 | 19.6 | +- .7 |
| 015 | 130 | 4.4 | 23.6 | +- .7 | 19.3 | +- .7 |
| 016 | 122 | 4.4 | 22.4 | +- .7 | 18.1 | +- .7 |
| 017 | 135 | 5.3 | 22.4 | +- .7 | 18.1 | +- .7 |
| 018 | 147 | 4.4 | 20.8 | +- .6 | 16.5 | +- .6 |
| 019 | 224 | 6.0 | 24.2 | +- .7 | 19.6 | +- .7 |
| 020 | 172 | 3.6 | 21.3 | +- .6 | 17.1 | +- .6 |
| 021 | 291 | 12.1 | 22.4 | +- .7 | 18.1 | +- .7 |
| 022 | 332 | 8.0 | 23.3 | +- .7 | 19.0 | +- .7 |
| 023 | 310 | 7.9 | 19.8 | +- .6 | 15.9 | +- .6 |
| 024 | 201 | 7.7 | 21.0 | +- .6 | 16.8 | +- .6 |
| 025 | 291 | 4.4 | 22.6 | +- .7 | 18.3 | +- .7 |
| 026 | 248 | 9.9 | 21.7 | +- .6 | 17.4 | +- .6 |
| 027 | 239 | 10.7 | 20.0 | +- .6 | 16.1 | +- .6 |
| 029 | 090 | 9.9 | 21.0 | +- .6 | 17.1 | +- .6 |
| 030 | 67 | 5.1 | 20.1 | +- .6 | 16.3 | +- .6 |
| 031 | 67 | 5.1 | 20.4 | +- .6 | 16.6 | +- .6 |
| 032 | 67 | 5.1 | 18.0 | +- .6 | 14.4 | +- .6 |
| 033 | 206 | 4.0 | 22.5 | +- .7 | 18.4 | +- .7 |
| TRANSIT DOSE = | | | 3.9 | +- .3 | | |
| | | | | | 5.1 | |

GRAND GULF
FOR THE PERIOD 870917-880126

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 14.7 \pm 0.0 | 1 |
| 11.25-33.75 (NNE) | 17.9 \pm 0.0 | 1 |
| 33.75-56.25 (NE) | 17.3 \pm 0.0 | 1 |
| 56.25-78.75 (ENE) | 20.3 \pm 0.0 | 1 |
| 78.75-101.25 (E) | 17.5 \pm .6 | 3 |
| 101.25-123.75 (ESE) | 18.9 \pm 1.0 | 2 |
| 123.75-146.25 (SE) | 18.5 \pm .7 | 3 |
| 146.25-168.75 (SSE) | 16.5 \pm 0.0 | 1 |
| 168.75-191.25 (S) | 16.9 \pm .2 | 2 |
| 191.25-213.75 (SSW) | 18.7 \pm .8 | 2 |
| 213.75-236.25 (SW) | 19.9 \pm 0.0 | 1 |
| 236.25-258.75 (WSW) | 17.7 \pm 1.0 | 3 |
| 258.75-281.25 (W) | 16.8 \pm 0.0 | 1 |
| 281.25-303.75 (WNW) | 18.2 \pm .1 | 2 |
| 303.75-326.25 (NW) | 15.8 \pm 0.0 | 1 |
| 326.25-348.75 (NNW) | 18.2 \pm 1.0 | 2 |
| | | |

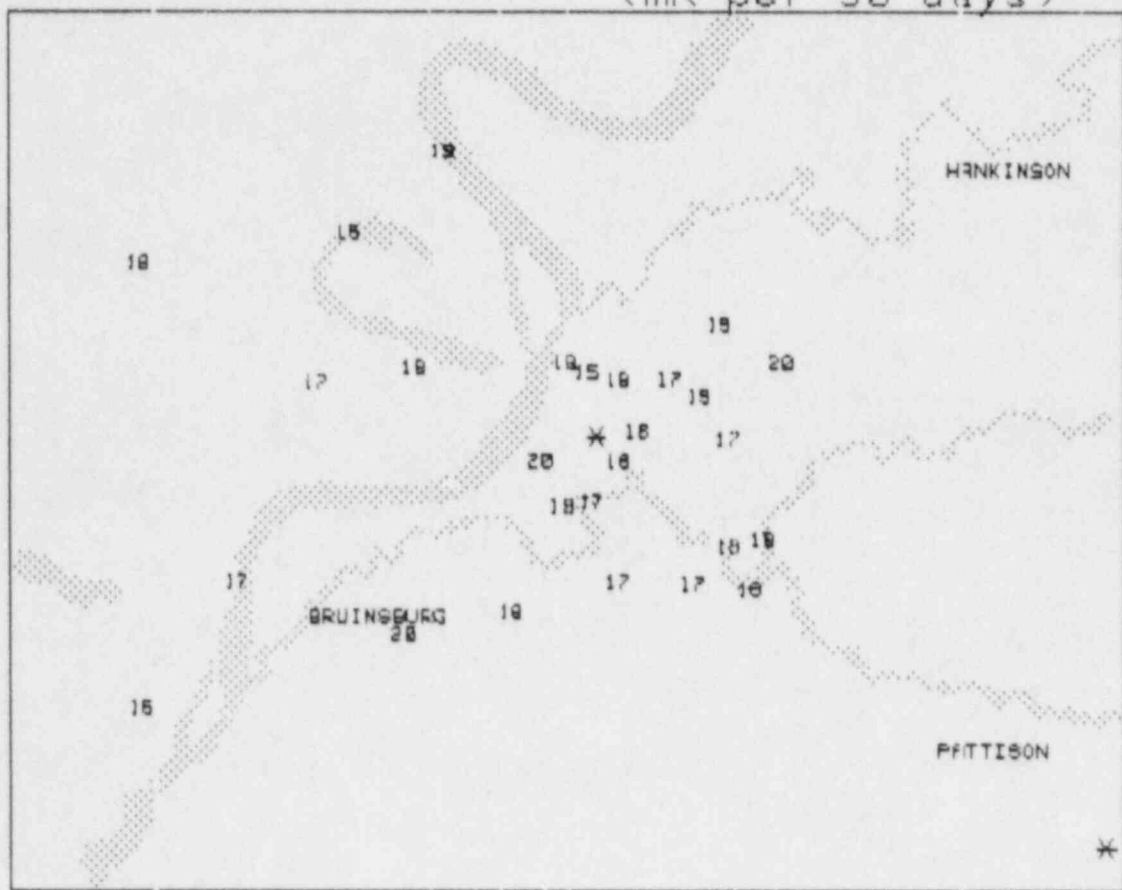
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 17.9 \pm 1.5 | 10 |
| 2-5 | 18.0 \pm 1.2 | 9 |
| >5 | 17.6 \pm 1.5 | 8 |
| UPWIND CONTROL DATA | 15.5 \pm 1.0 | 3 |

GRAND GULF

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|----------------------------------|
| 1 | 2.0 | 337 | FT. COBUN |
| 2 | 1.6 | 351 | GRAND GULF ST. PARK |
| 3 | 1.5 | 20 | EVAC. SIGN E. OF GRAND GULF |
| 4 | 2.3 | 51 | E. OF STATION 3 |
| 5 | 2.7 | 68 | UNDERGROUND CABLE SIGN |
| 6 | 4.1 | 47 | N. OF YMCA CAMP |
| 7 | 4.9 | 68 | BONNER BEAUTY SHOP |
| 8 | 3.2 | 91 | LAKE CLAIBORNE |
| 9 | 1.0 | 81 | W. OF SPRING HILL BAPTIST CHURCH |
| 10 | .6 | 109 | NEAR ROAD BED SIGN ESE OF PLANT |
| 11 | .8 | 139 | OPEN FIELD SE OF PLANT |
| 12 | 1.6 | 105 | S. OF PLANT |
| 13 | 1.9 | 207 | UNDERGROUND CABLE SIGN |
| 14 | 1.5 | 247 | WSW OF PLANT BY MISS. RIVER |
| 15 | 4.2 | 130 | ADDISON HIGH SCHOOL |
| 16 | 4.8 | 122 | PORT GIBSON SUBSTATION |
| 17 | 5.3 | 135 | VINE ST. |
| 18 | 4.3 | 147 | CENTERS CR. |
| 19 | 6.0 | 224 | WINDSOR RUINS |
| 20 | 3.6 | 172 | NEAR MISS. AIR SAMPLING STATION |
| 21 | 12.0 | 291 | NEWELLTON |
| 22 | 8.0 | 332 | TOP OF LEVY |
| 23 | 7.9 | 310 | YUCATAN HUNTING CLUB |
| 24 | 7.0 | 281 | LAKE ST. JOSEPH |
| 25 | 4.8 | 291 | WINTER QUARTERS |
| 26 | 9.5 | 248 | LAKE BRUIN STATE PARK |
| 27 | 13.0 | 239 | ST. JOSEPH |
| 29 | .9 | 90 | MAGIE JACKSON TRAILER |
| 30 | 51.0 | 67 | JACKSON (MISSISSIPPI) |
| 31 | 51.0 | 67 | JACKSON (MISSISSIPPI) |
| 32 | 51.0 | 67 | JACKSON (MISSISSIPPI) |
| 33 | 4.8 | 206 | EAST OF WINDSOR RUINS |

NRC TLD DOSES FOR GRAND GULF AREA (mR per 90 days)



* Plant

HADDAM NECK
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870918-880125 130 DAYS
 FIELD TIME 99 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|----------------|-------------------|---------------|------------------------|------|-------------------|-------------|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | Tot. | mR/Std. Qtr. | + Rdm; Tot. |
| 002 | 17 | 2.6 | 23.7 | +- | 18.0 | +- |
| 003 | 45 | 1.9 | 25.2 | +- | 20.0 | +- |
| 004 | 67 | 2.0 | 23.0 | +- | 18.0 | +- |
| 005 | 93 | 1.6 | 21.0 | +- | 16.0 | +- |
| 006 | 115 | 2.0 | 18.0 | +- | 12.0 | +- |
| 007 | 143 | 1.9 | 22.9 | +- | 18.0 | +- |
| 008 | 165 | .9 | 21.4 | +- | 16.0 | +- |
| 009 | 174 | 1.0 | 23.1 | +- | 18.0 | +- |
| 010 | 195 | .7 | 20.6 | +- | 16.0 | +- |
| 012 | 241 | .8 | 20.9 | +- | 16.0 | +- |
| 013 | 263 | .8 | 20.4 | +- | 16.0 | +- |
| 014 | 290 | 1.1 | 22.4 | +- | 18.0 | +- |
| 015 | 311 | 1.1 | 20.1 | +- | 16.0 | +- |
| 016 | 341 | 1.1 | 22.2 | +- | 18.0 | +- |
| 017 | 360 | 2.2 | 24.5 | +- | 20.0 | +- |
| 018 | 322 | 2.5 | 21.1 | +- | 16.0 | +- |
| 019 | 309 | 3.0 | 19.3 | +- | 14.0 | +- |
| 020 | 66 | 3.0 | 19.7 | +- | 14.0 | +- |
| 021 | 91 | 3.0 | 22.5 | +- | 18.0 | +- |
| 022 | 112 | 3.0 | 20.4 | +- | 16.0 | +- |
| 023 | 137 | 2.9 | 22.0 | +- | 18.0 | +- |
| 024 | 155 | 2.7 | 21.3 | +- | 18.0 | +- |
| 025 | 175 | 2.5 | 20.0 | +- | 16.0 | +- |
| 026 | 196 | 2.5 | 21.6 | +- | 18.0 | +- |
| 027 | 225 | 2.1 | 21.7 | +- | 18.0 | +- |
| 028 | 250 | 2.3 | 20.2 | +- | 16.0 | +- |
| 029 | 240 | 2.0 | 22.4 | +- | 18.0 | +- |
| 030 | 206 | 2.0 | 19.3 | +- | 14.0 | +- |
| 031 | 222 | 2.7 | 20.3 | +- | 16.0 | +- |
| 032 | 277 | 2.4 | 22.9 | +- | 18.0 | +- |
| 033 | 309 | 2.4 | 20.1 | +- | 16.0 | +- |
| 035 | 5 | 1.0 | 21.3 | +- | 18.0 | +- |
| 036 | 72 | 1.0 | 24.0 | +- | 20.0 | +- |
| 037 | 142 | 1.0 | 19.0 | +- | 14.0 | +- |
| 038 | 158 | 1.0 | 17.0 | +- | 12.0 | +- |
| 039 | 206 | 1.1 | 19.7 | +- | 16.0 | +- |
| 040 | 200 | 1.1 | 20.1 | +- | 16.0 | +- |
| 041 | 213 | 1.0 | 19.0 | +- | 14.0 | +- |
| 042 | 220 | 1.0 | 21.7 | +- | 18.0 | +- |
| 043 | 224 | 1.0 | 19.4 | +- | 16.0 | +- |
| 044 | 220 | 1.0 | 21.0 | +- | 18.0 | +- |
| 045 | 240 | 1.0 | 21.0 | +- | 18.0 | +- |
| 046 | 144 | 1.5 | 22.0 | +- | 20.0 | +- |
| 049 | 240 | 2.0 | 21.0 | +- | 18.0 | +- |
| TRANSIT DOSE = | 3.0 | +- | .3 | ; | 5.1 | |

HADDAM NECK
FOR THE PERIOD 870918-880125

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 17.5 \pm 2.8 | 2 |
| 11.25-33.75 (NNE) | 18.8 \pm 0.0 | 1 |
| 33.75-56.25 (NE) | 18.4 \pm 2.6 | 2 |
| 56.25-78.75 (ENE) | 17.7 \pm 2.4 | 3 |
| 78.75-101.25 (E) | 17.2 \pm .8 | 2 |
| 101.25-123.75 (ESE) | 14.9 \pm 1.4 | 2 |
| 123.75-146.25 (SE) | 17.6 \pm .4 | 3 |
| 146.25-168.75 (SSE) | 15.3 \pm 1.7 | 4 |
| 168.75-191.25 (S) | 16.8 \pm 2.0 | 2 |
| 191.25-213.75 (SSW) | 16.5 \pm .6 | 2 |
| 213.75-236.25 (W) | 16.7 \pm .4 | 2 |
| 236.25-258.75 (WSW) | 15.9 \pm .5 | 2 |
| 258.75-281.25 (W) | 15.3 \pm .5 | 3 |
| 281.25-303.75 (WNW) | 16.9 \pm 1.8 | 3 |
| 303.75-326.25 (NW) | 15.6 \pm .8 | 5 |
| 326.25-348.75 (NNW) | 17.3 \pm .8 | 5 |
| | | |

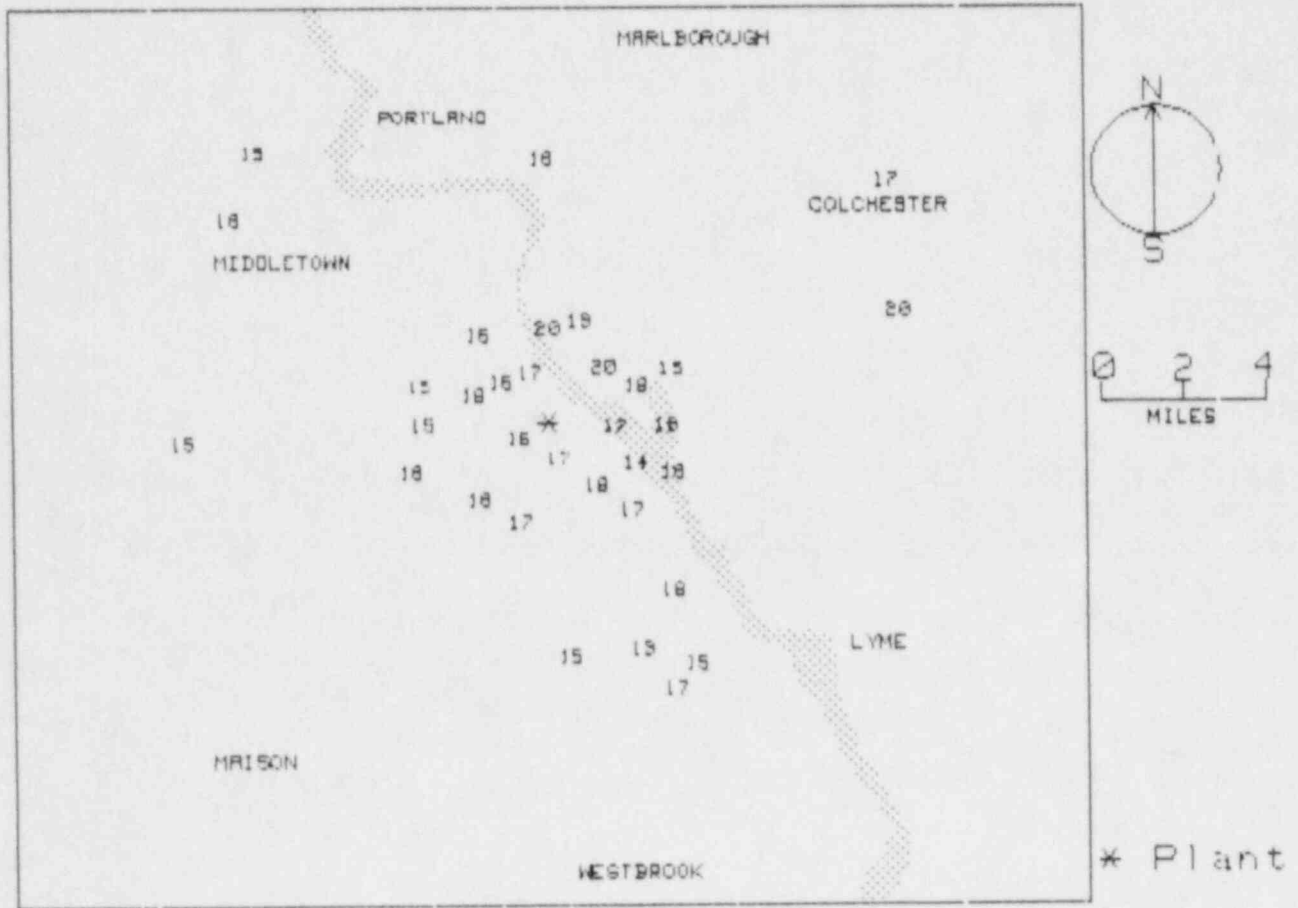
| DISTANCE (mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|--------------------------------|---|------------|
| 0-2 | 17.1 \pm 1.3 | 12 |
| 2-5 | 16.6 \pm 1.6 | 16 |
| >5 | 16.2 \pm 1.6 | 15 |
| UPWIND CONTROL DATA | 16.3 \pm 0.0 | 1 |

HADDAM NECK

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|----------------------------|
| 2 | 2.6 | 17 | LEESVILLE SUBSTA. |
| 3 | 1.9 | 45 | FRANK DAVIS RESORT |
| 4 | 2.3 | 67 | RT. 149 & RT. 151 |
| 5 | 1.6 | 93 | STATE RT. 149 |
| 6 | 2.3 | 115 | ON MORTIMER GELSTON FARM |
| 7 | 1.9 | 143 | SUBSTA. ON RT. 9A |
| 8 | .9 | 165 | PLAINS ROAD |
| 9 | 1.3 | 174 | PLAINS ROAD |
| 10 | .7 | 195 | MIDDLESEX EXT. CENTER |
| 12 | .8 | 241 | JAIL HILL ROAD |
| 13 | .8 | 263 | WALKLEY HILL RD. & RT. 9A |
| 14 | 1.9 | 290 | WALKLEY HILL ROAD |
| 15 | 1.5 | 311 | ROCK LANDING |
| 16 | 1.3 | 341 | UPPER ROAD |
| 17 | 2.3 | 360 | PINE BROOK |
| 18 | 2.5 | 222 | BEAVER MEADOW ROAD |
| 19 | 3.0 | 269 | SKINNER ROAD |
| 20 | 3.2 | 66 | EAST HADDAM PUBLIC LIBRARY |
| 21 | 2.8 | 91 | ORCHARD ST. |
| 22 | 3.2 | 112 | SUBSTA. ON RT. 151 |
| 23 | 2.9 | 137 | GOODSPEED OPERA HOUSE |
| 24 | 7.1 | 155 | MONSANTO PLANT |
| 25 | 5.7 | 175 | CHESTER(RT.148) |
| 26 | 2.5 | 196 | TURKEY HILL ROAD |
| 27 | 1.1 | 225 | JAIL HILL ROAD |
| 28 | 3.5 | 250 | HADDAM JR. HIGH |
| 29 | 20.0 | 340 | CONN.STATE(SECURITY) |
| 30 | 3.2 | 286 | CL&P SUBSTA.(HIGGANUM) |
| 31 | 2.7 | 322 | CLARKHURST ROAD |
| 32 | 2.9 | 327 | HJRD PARK ROAD |
| 33 | 6.4 | 359 | EAST HAMPTON FIRE DEPT. |
| 35 | 10.0 | 54 | COLCHESTER STATE POLICE |
| 36 | 8.8 | 72 | LAKE HAYWOOD AREA |
| 37 | 6.8 | 149 | ST. JOHN'S SCHOOL |
| 38 | 5.9 | 158 | CHESTER FIRE CO. |
| 39 | 8.8 | 267 | COGINCHAUG HIGH SCH. |
| 40 | 5.1 | 303 | OLD GAS WORKS |
| 41 | 9.6 | 313 | U.S. POST OFFICE |
| 42 | 13.0 | 320 | CROMWELL FIRE CO. |
| 43 | 18.0 | 324 | NEWINGTON CHILDREN'S HOSP. |
| 44 | 15.0 | 328 | ROCKY HILL FIRE STA. |
| 45 | 18.0 | 343 | WETHERSFIELD(CONN) |
| 46 | 5.0 | 144 | FOUNDER SCHOOL |
| 49 | 20.0 | 340 | CONN. STATE CAPITOL |

NRC TLD DOSES FOR HADDAM NECK AREA (mR per 90 days)



HARRIS
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870914-880126 135 DAYS
 FIELD TIME 97 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | | NET EXPOSURE RATE | |
|-------------|----------------|------------|------------------------------|-------|-----|-------------------|---------------|
| | AZIMUTH (deg.) | DIST (mi.) | +/- Rdm | Tot. | | mR/Std. Qtr. | +/- Rdm; Tot. |
| 001 | 36 | 2.6 | 20.7 | +- .6 | 0.1 | NO NET DATA | |
| 002 | 25 | 3.2 | 19.8 | +- .6 | 0.0 | NO NET DATA | |
| 003 | 5 | 2.5 | 19.3 | +- .6 | 0.0 | NO NET DATA | |
| 004 | 27 | 1.5 | 21.7 | +- .7 | 0.0 | NO NET DATA | |
| 005 | 36 | 0.9 | 18.6 | +- .5 | 0.0 | NO NET DATA | |
| 006 | 68 | 0.8 | 17.9 | +- .5 | 0.0 | NO NET DATA | |
| 007 | 98 | 0.7 | 18.9 | +- .5 | 0.0 | NO NET DATA | |
| 008 | 232 | 0.7 | 17.7 | +- .5 | 0.0 | NO NET DATA | |
| 009 | 190 | 0.8 | 15.6 | +- .5 | 0.0 | NO NET DATA | |
| 010 | 158 | 0.7 | 19.2 | +- .6 | 0.0 | NO NET DATA | |
| 011 | 42 | 4.7 | 25.1 | +- .8 | 0.0 | NO NET DATA | |
| 012 | 48 | 0.6 | 21.9 | +- .7 | 0.0 | NO NET DATA | |
| 013 | 298 | 13. | MISSING OR DAMAGED DOSIMETER | | | | |
| 014 | 298 | 12. | 19.2 | +- .6 | 0.0 | NO NET DATA | |
| 015 | 298 | 11. | 17.2 | +- .5 | 0.0 | NO NET DATA | |
| 016 | 332 | 4.4 | 19.3 | +- .6 | 0.0 | NO NET DATA | |
| 017 | 291 | 4.4 | 15.3 | +- .5 | 0.0 | NO NET DATA | |
| 018 | 270 | 4.4 | 18.0 | +- .6 | 0.0 | NO NET DATA | |
| 019 | 240 | 5.1 | 21.3 | +- .7 | 0.0 | NO NET DATA | |
| 020 | 227 | 4.4 | 15.5 | +- .5 | 0.0 | NO NET DATA | |
| 021 | 208 | 4.4 | 17.8 | +- .6 | 0.0 | NO NET DATA | |
| 022 | 190 | 4.4 | 18.8 | +- .6 | 0.0 | NO NET DATA | |
| 023 | 151 | 4.4 | 16.9 | +- .5 | 0.0 | NO NET DATA | |
| 024 | 132 | 4.4 | 18.7 | +- .6 | 0.0 | NO NET DATA | |
| 025 | 112 | 5.5 | 19.6 | +- .6 | 0.0 | NO NET DATA | |
| 026 | 93 | 4.4 | 16.0 | +- .5 | 0.0 | NO NET DATA | |
| 027 | 115 | 4.4 | 21.0 | +- .7 | 0.0 | NO NET DATA | |
| 028 | 135 | 4.4 | 15.9 | +- .5 | 0.4 | NO NET DATA | |
| 029 | 164 | 4.4 | 20.4 | +- .6 | 0.1 | NO NET DATA | |
| 030 | 49 | 2.1 | 18.3 | +- .5 | 0.7 | NO NET DATA | |
| 031 | 276 | 1.1 | 18.4 | +- .5 | 0.8 | NO NET DATA | |
| 032 | 292 | 1.7 | 20.4 | +- .6 | 0.1 | NO NET DATA | |
| 033 | 314 | 1.4 | MISSING OR DAMAGED DOSIMETER | | | | |
| 034 | 329 | 1.3 | 20.8 | +- .6 | 0.1 | NO NET DATA | |
| 035 | 350 | 4.4 | 20.0 | +- .6 | 0.0 | NO NET DATA | |
| 036 | 338 | 4.4 | 20.6 | +- .6 | 0.1 | NO NET DATA | |
| 037 | 16 | 4.4 | 20.6 | +- .6 | 0.1 | NO NET DATA | |
| 038 | 68 | 4.4 | 16.8 | +- .5 | 0.5 | NO NET DATA | |
| 039 | 80 | 6.9 | 19.5 | +- .6 | 0.9 | NO NET DATA | |
| 040 | 80 | 6.9 | 19.4 | +- .6 | 0.9 | NO NET DATA | |
| 041 | 118 | 9.7 | 22.3 | +- .7 | 0.3 | NO NET DATA | |
| 042 | 260 | 1.1 | 20.0 | +- .6 | 0.0 | NO NET DATA | |
| 043 | 333 | 1.7 | 21.2 | +- .6 | 0.2 | NO NET DATA | |
| 044 | 50 | 24. | 25.7 | +- .8 | 0.0 | NO NET DATA | |

NO TRANSIT DOSE CALCULATED (TLD CONTROLS MISSING OR OTHERWISE NOT COMPLETE)

HARRIS
FOR THE PERIOD 870914-880126

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 18.2 \pm .4 | 2 |
| 11.25-33.75 (NNE) | 19.2 \pm .9 | 3 |
| 33.75-56.25 (NE) | 20.1 \pm 2.9 | 6 |
| 56.25-78.75 (ENE) | 16.1 \pm .7 | 2 |
| 78.75-101.25 (E) | 17.3 \pm 1.2 | 4 |
| 101.25-123.75 (ESE) | 19.7 \pm 1.3 | 3 |
| 123.75-146.25 (SE) | 16.1 \pm 1.8 | 2 |
| 146.25-168.75 (SSE) | 17.5 \pm 1.7 | 3 |
| 168.75-191.25 (S) | 15.9 \pm 2.0 | 2 |
| 191.25-213.75 (SSW) | 15.7 \pm 0.0 | 1 |
| 213.75-236.25 (SW) | 15.4 \pm 1.4 | 2 |
| 236.25-258.75 (WSW) | 19.7 \pm 0.0 | 1 |
| 258.75-281.25 (W) | 17.4 \pm 1.0 | 3 |
| 281.25-303.75 (WNW) | 16.5 \pm 3.3 | 2 |
| 303.75-326.25 (NW) | NO DATA+NO DATA | 0 |
| 326.25-348.75 (NNW) | 19.1 \pm .6 | 4 |

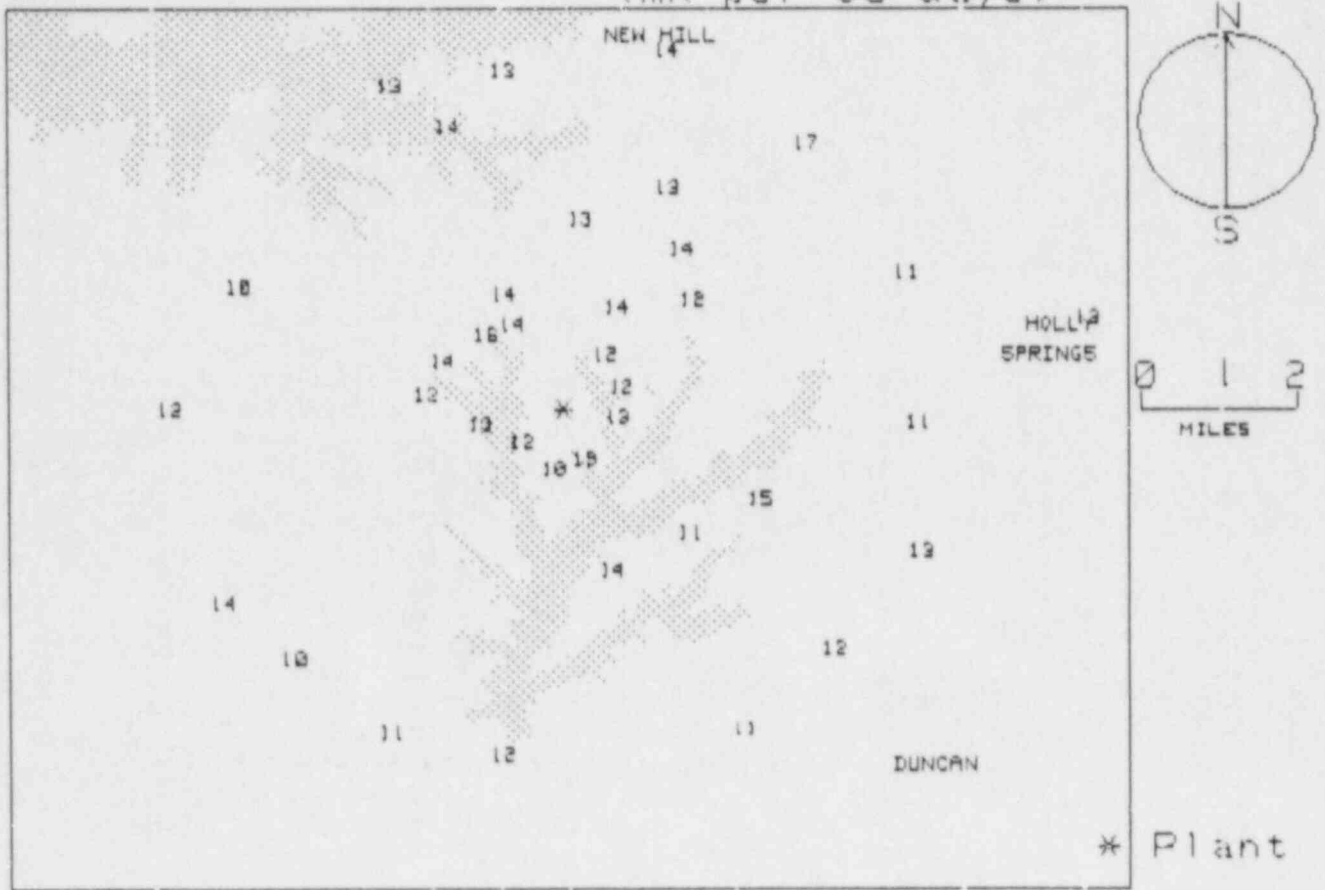
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 17.8 \pm 1.6 | 12 |
| 2-5 | 17.5 \pm 2.2 | 21 |
| >5 | 19.6 \pm 2.3 | 7 |
| UPWIND CONTROL DATA | 16.9 \pm 1.3 | 2 |

HARRIS

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|---|
| 1 | 2.6 | 36 | N. OF SHE&E CENTER ON SR 1127 |
| 2 | 3.2 | 25 | SR 1127 ACROSS 1ST BAPTIST CHURCH |
| 3 | 2.5 | 5 | SR 1134, SOUTH OF OLD US 1 |
| 4 | 1.5 | 27 | OLD ROAD BED, EAST OF SR 1134 |
| 5 | .9 | 36 | JUNCTION SR 1134 & SR 1135 |
| 6 | .8 | 68 | DIRT RD EXTENSION OF SR 1134 |
| 7 | .7 | 98 | DIRT RD EXTENSION OF SR 1134 |
| 8 | .7 | 232 | ROAD ADJACENT TO THE INTAKE CANAL |
| 9 | .8 | 190 | EAST SIDE OF RD, SOUTH OF POWERLINES |
| 10 | .7 | 158 | POWER LINE RIGHT OF WAY |
| 11 | 4.7 | 42 | US 1 AT SR 1149 OVERPASS |
| 12 | 8.6 | 40 | JONES PARK, APEX, S.C. |
| 13 | 13.0 | 298 | CP&L OFFICE ON 15-501, PITTSBORO |
| 14 | 12.0 | 298 | PITTSBORO CHRISTIAN HOME |
| 15 | 11.0 | 298 | JUNCTION US64 & SR 1943 |
| 16 | 4.8 | 332 | EAST SIDE OF SR 1008, POLE #2054 |
| 17 | 4.5 | 291 | INTERSECTION SRS 1910, 1909, AND 1908 |
| 18 | 5.1 | 270 | SR 1908 EXIT RAMP OF US 1 |
| 19 | 5.1 | 240 | CHEMBOND CORP. PARKING LOT |
| 20 | 4.8 | 227 | NORTHSIDE OF SR 1924 AT POWER LN |
| 21 | 4.8 | 208 | NC HWY42 ACROSS BUCKHORN U.M. CHURCH LOT |
| 22 | 4.6 | 190 | NORTH OF SPILLWAY MAINTENANCE |
| 23 | 4.8 | 151 | JUNCTION SR 1402&1401 ON SR 1402 |
| 24 | 4.7 | 132 | SR 1116, NEAR SPRINGS CHURCH |
| 25 | 5.0 | 112 | POWER LINE RIGHT-OF WAY, NEAR SR1116 |
| 26 | 4.6 | 92 | WEST OF SR 1115 NEAR HOUSE & BARN |
| 27 | 2.8 | 115 | SR 1127 WEST, JUNCTION SR 1127, 1115&1130 |
| 28 | 2.3 | 135 | SR 1130, 1 MI SOUTH, HOLLEMAN'S |
| 29 | 2.2 | 164 | SR 1130 SOUTH OF STATION 28 |
| 30 | 2.2 | 49 | REAR HARRIS ENERGY & ENV. CENTER |
| 31 | 1.8 | 276 | SR 1191 |
| 32 | 1.7 | 292 | US 1 NEAR CHATHAM-WAKE CTY LINE |
| 33 | 1.4 | 314 | US 1 NEAR HARRIS LAKE |
| 34 | 1.3 | 329 | US1 .2 MI NORTH OF RAILROAD OVERPASS |
| 35 | 4.5 | 350 | SR1142 ON UNDERGROUND CABLE SIGN |
| 36 | 4.0 | 338 | SR1142 END OF ROAD NEXT TO ROADBED |
| 37 | 4.9 | 16 | SR 1142, YARD OF DAIRY BARN |
| 38 | 4.8 | 68 | SR1152, 1.2MI SOUTH OF 1152 |
| 39 | 6.9 | 80 | EARP ST. HOLLY SPRINGS, NC |
| 40 | 6.9 | 80 | NORTH OF JUNCTION SR 1393 & 1421 |
| 41 | 9.7 | 118 | CP&L OFFICE PARKING LOT |
| 42 | 1.1 | 260 | ACCESSE RD(EAST), TO AUX. RESERVOIR |
| 43 | 1.7 | 333 | LEWIS FISH RESIDENCE |
| 44 | 24.0 | 50 | NC ENV. RAD. RALEIGH N.C. |

NRC TLD DOSES FOR SHEARON-HARRIS AREA (mR per 90 days)



HATCH
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870915-880205 144 DAYS
 FIELD TIME 115 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|----------------|-------------------|---------------|---------------------|-------------|-----------------------------|-----|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm; Tot. | | mR/Std. Otr. + Rdm; Tot. | |
| 001 | 342 | 23 | 20.4 | +- | 16.4 | 4.4 |
| 002 | 359 | 7.7 | 16.4 | +- | 13.6 | 4.4 |
| 003 | 354 | 4.4 | 20.1 | +- | 16.4 | 4.4 |
| 004 | 336 | 2.9 | 18.0 | +- | 14.4 | 4.4 |
| 005 | 309 | 4.6 | 17.3 | +- | 13.6 | 4.4 |
| 006 | 297 | 6.6 | 18.9 | +- | 14.4 | 4.4 |
| 007 | 244 | 6.0 | 18.9 | +- | 14.4 | 4.4 |
| 008 | 49 | 6.0 | 18.3 | +- | 14.4 | 4.4 |
| 009 | 49 | 10.0 | 18.0 | +- | 13.6 | 4.4 |
| 010 | 228 | 4.0 | 17.0 | +- | 13.6 | 4.4 |
| 011 | 27 | 6.0 | 18.0 | +- | 14.4 | 4.4 |
| 012 | 50 | 1.1 | 22.3 | +- | 18.0 | 4.4 |
| 013 | 53 | 6.0 | 17.3 | +- | 13.6 | 4.4 |
| 014 | 41 | 1.0 | 18.0 | +- | 14.4 | 4.4 |
| 015 | 14 | 10.0 | 18.0 | +- | 13.6 | 4.4 |
| 016 | 23 | 9.9 | 18.0 | +- | 13.6 | 4.4 |
| 017 | 203 | 1.1 | 17.0 | +- | 13.6 | 4.4 |
| 018 | 192 | 4.4 | 14.4 | +- | 11.6 | 4.4 |
| 019 | 184 | 4.4 | 14.4 | +- | 11.6 | 4.4 |
| 020 | 165 | 4.4 | 15.0 | +- | 12.0 | 4.4 |
| 021 | 135 | 4.4 | 15.0 | +- | 12.0 | 4.4 |
| 022 | 120 | 4.1 | 15.0 | +- | 12.0 | 4.4 |
| 023 | 107 | 3.7 | 15.0 | +- | 12.0 | 4.4 |
| 024 | 12 | 14.0 | 15.0 | +- | 12.0 | 4.4 |
| 025 | 114 | 12.0 | 17.0 | +- | 13.6 | 4.4 |
| 026 | 142 | 1.0 | 17.0 | +- | 13.6 | 4.4 |
| 027 | 157 | 2.2 | 17.0 | +- | 13.6 | 4.4 |
| 028 | 171 | 0.9 | 18.0 | +- | 14.4 | 4.4 |
| 029 | 253 | 1.0 | 17.0 | +- | 13.6 | 4.4 |
| 030 | 270 | 1.0 | MIS | INC OR AMAG | 14.4 | 4.4 |
| 031 | 292 | 1.1 | 18.0 | +- | 14.4 | 4.4 |
| 032 | 260 | 4.4 | 18.0 | +- | 14.4 | 4.4 |
| 033 | 244 | 4.4 | 18.0 | +- | 14.4 | 4.4 |
| 034 | 206 | 4.1 | 18.0 | +- | 14.4 | 4.4 |
| 035 | 123 | 12.0 | 18.0 | +- | 14.4 | 4.4 |
| 036 | 103 | 10.0 | 18.0 | +- | 14.4 | 4.4 |
| 037 | 177 | 10.0 | 18.0 | +- | 14.4 | 4.4 |
| 038 | 223 | 12.0 | 18.0 | +- | 14.4 | 4.4 |
| 039 | 221 | 12.0 | 18.0 | +- | 14.4 | 4.4 |
| 040 | 203 | 12.0 | 18.0 | +- | 14.4 | 4.4 |

A- 115

HATCH
FOR THE PERIOD 870915-880205

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

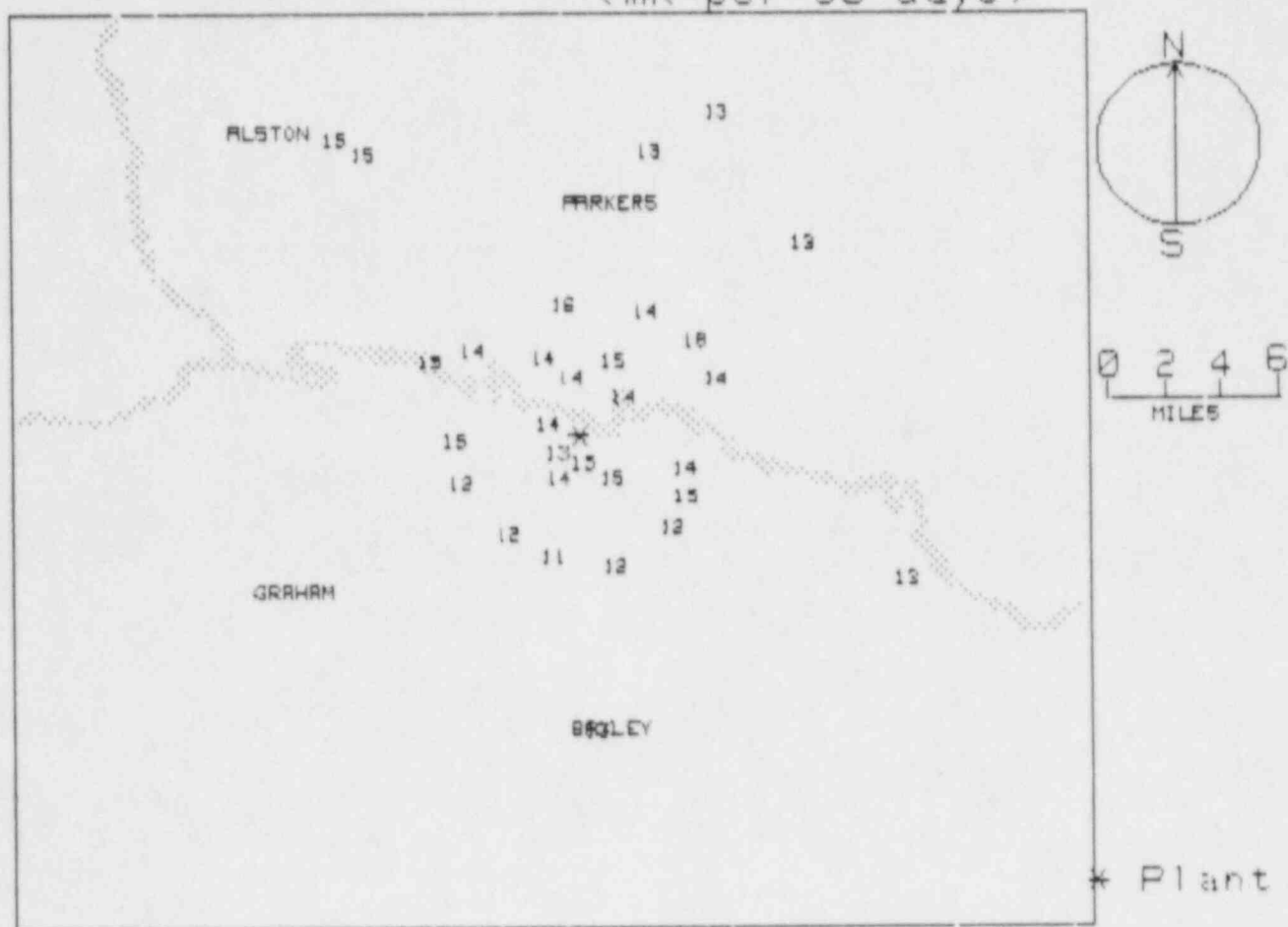
| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 14.0 \pm 1.5 | 3 |
| 11.25-33.75 (NNE) | 13.4 \pm .9 | 5 |
| 33.75-56.25 (NE) | 15.2 \pm 2.6 | 3 |
| 56.25-78.75 (ENE) | 14.4 \pm 0.0 | 1 |
| 78.75-101.25 (E) | NO DATA \pm NO DATA | 0 |
| 101.25-123.75 (ESE) | 14.1 \pm .7 | 3 |
| 123.75-146.25 (SE) | 13.8 \pm 2.4 | 2 |
| 146.25-168.75 (SSE) | 13.1 \pm .9 | 2 |
| 168.75-191.25 (S) | 12.8 \pm 1.2 | 4 |
| 191.25-213.75 (SSW) | 12.6 \pm 1.7 | 2 |
| 213.75-236.25 (SW) | 12.8 \pm .5 | 2 |
| 236.25-258.75 (WSW) | 12.9 \pm 1.5 | 2 |
| 258.75-281.25 (W) | 14.9 \pm 0.0 | 1 |
| 281.25-303.75 (WNW) | 14.4 \pm .5 | 2 |
| 303.75-326.25 (NW) | 13.5 \pm 0.0 | 1 |
| 326.25-348.75 (NNW) | 14.9 \pm 1.0 | 3 |
| | | |

| DISTANCE (mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|--------------------------------|---|------------|
| 0-2 | 14.2 \pm .7 | 9 |
| 2-5 | 13.5 \pm 1.3 | 16 |
| >5 | 13.8 \pm 1.6 | 11 |
| UPWIND CONTROL DATA | 15.4 \pm .4 | 3 |

HATCH

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|--------------------------|
| 1 | 23.0 | 342 | VIDALIA FIRE STATION |
| 2 | 7.7 | 359 | TOOMBS CENTRAL SCHOOL |
| 3 | 4.5 | 354 | HWY. 1 & RD. 43 |
| 4 | 2.9 | 336 | HWY. 107 (TAYLOR CHAPEL) |
| 5 | 4.6 | 309 | RD. S 1125 |
| 6 | 5.6 | 297 | GRAYS LANDING |
| 7 | 2.8 | 24 | DEAD RIVER RD. |
| 8 | 2.0 | 49 | DEAD RIVER RD. |
| 9 | 10.0 | 49 | GA STATE PRISON |
| 10 | 4.8 | 28 | RD. 30 |
| 11 | 5.0 | 67 | PROVIDENCE CHURCH |
| 12 | 5.1 | 50 | MARVEY CHURCH |
| 13 | 2.0 | 353 | RD. 49 |
| 14 | 1.6 | 341 | WILLIAMS CR. BRIDGE |
| 15 | 10.0 | 14 | MCTIER CHURCH |
| 16 | .9 | 232 | HWY. 1 AT POND |
| 17 | 1.6 | 205 | HWY. 1 NEAR HVT LINES |
| 18 | 4.2 | 192 | ALDOMADA SCH. |
| 19 | 4.2 | 184 | RD. 538 |
| 20 | 4.6 | 165 | RD. 538 AT POND |
| 21 | 4.4 | 135 | RD. 380 & 377 |
| 22 | 4.1 | 120 | RD. 377 & 382 |
| 23 | 3.7 | 107 | RD. 382 |
| 24 | 14.0 | 12 | BETHEL CHURCH |
| 25 | 12.0 | 114 | OAK GROVE CHURCH |
| 26 | 1.8 | 142 | RD. 386 |
| 27 | 2.2 | 157 | RD. 383 |
| 28 | .9 | 171 | RD. 383 (N.R.) |
| 29 | 1.0 | 253 | CALVARY CHURCH |
| 30 | 1.0 | 270 | RD. 467 |
| 31 | 1.1 | 292 | RD. 467 |
| 32 | 4.2 | 268 | RD. 3 & 1 |
| 33 | 4.3 | 248 | RD. 1 & 11 |
| 34 | 4.1 | 216 | MELTON CHAPEL |
| 35 | 12.0 | 23 | GRAHAM (GA) |
| 36 | 10.0 | 182 | SHELL STATION |
| 37 | 10.0 | 177 | BAXLEY SUBSTATION |
| 38 | 12.0 | 323 | SUBSTATION (ALSTON GA) |
| 39 | 13.0 | 321 | HWY. 135 & RT. 107 |
| 40 | 12.0 | 323 | RT. 107 AND RT. 113 |

NRC TLD DOSES FOR HATCH AREA
(mR per 90 days)

INDIAN POINT
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870918-880125 130 DAYS
 FIELD TIME 94 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|----------------|----------------|------------|---------------------|------------|-------------------|-------------|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | Tot. | mR/Std. Qtr. | + Rdm; Tot. |
| 001 | 52 | 1.4 | 19.0 | 0.6 | 12.4 | 0.7 |
| 002 | 53 | 1.1 | 20.1 | 0.6 | 14.4 | 0.7 |
| 003 | 61 | 1.1 | 20.9 | 0.6 | 15.4 | 0.7 |
| 004 | 69 | 1.1 | 21.4 | 0.6 | 16.4 | 0.7 |
| 005 | 107 | 0.9 | 22.0 | 0.6 | 16.9 | 0.7 |
| 006 | 90 | 0.8 | 22.5 | 0.6 | 17.0 | 0.7 |
| 007 | 133 | 0.8 | MISSING | OR DAMAGED | DOSIMETER | |
| 008 | 150 | 0.8 | 28.4 | 0.6 | 14.7 | 0.7 |
| 009 | 180 | 1.2 | MISSING | OR DAMAGED | DOSIMETER | |
| 010 | 206 | 0.9 | MISSING | OR DAMAGED | DOSIMETER | |
| 011 | 170 | 1.1 | 19.7 | 0.6 | 14.1 | 0.7 |
| 012 | 155 | 0.9 | 20.7 | 0.6 | 15.0 | 0.7 |
| 013 | 133 | 0.9 | 21.0 | 0.6 | 14.0 | 0.7 |
| 014 | 107 | 1.1 | 22.4 | 0.6 | 15.0 | 0.7 |
| 015 | 94 | 1.0 | 23.0 | 0.6 | 16.0 | 0.7 |
| 016 | 142 | 1.0 | 23.0 | 0.6 | 16.0 | 0.7 |
| 018 | 147 | 1.1 | 23.0 | 0.6 | 16.0 | 0.7 |
| 019 | 137 | 1.1 | MISSING | OR DAMAGED | DOSIMETER | |
| 020 | 129 | 1.1 | 19.4 | 0.6 | 13.0 | 0.7 |
| 022 | 74 | 0.9 | 21.4 | 0.6 | 15.0 | 0.7 |
| 023 | 59 | 0.9 | 21.6 | 0.6 | 15.0 | 0.7 |
| 024 | 55 | 1.1 | 22.0 | 0.6 | 15.0 | 0.7 |
| 025 | 44 | 1.1 | 22.0 | 0.6 | 15.0 | 0.7 |
| 026 | 44 | 1.1 | 22.0 | 0.6 | 15.0 | 0.7 |
| 027 | 44 | 1.1 | 22.0 | 0.6 | 15.0 | 0.7 |
| 028 | 44 | 1.1 | 22.0 | 0.6 | 15.0 | 0.7 |
| 029 | 44 | 1.1 | 22.0 | 0.6 | 15.0 | 0.7 |
| 030 | 44 | 1.1 | 22.0 | 0.6 | 15.0 | 0.7 |
| 031 | 44 | 1.1 | 22.0 | 0.6 | 15.0 | 0.7 |
| 032 | 44 | 1.1 | 22.0 | 0.6 | 15.0 | 0.7 |
| 033 | 44 | 1.1 | MISSING | OR DAMAGED | DOSIMETER | |
| 034 | 44 | 1.1 | 22.0 | 0.6 | 15.0 | 0.7 |
| 035 | 44 | 1.1 | 22.0 | 0.6 | 15.0 | 0.7 |
| 036 | 44 | 1.1 | MISSING | OR DAMAGED | DOSIMETER | |
| 037 | 44 | 1.1 | 22.0 | 0.6 | 15.0 | 0.7 |
| 038 | 44 | 1.1 | 22.0 | 0.6 | 15.0 | 0.7 |
| 039 | 44 | 1.1 | MISSING | OR DAMAGED | DOSIMETER | |
| 040 | 44 | 1.1 | 22.0 | 0.6 | 15.0 | 0.7 |
| 041 | 44 | 1.1 | 22.0 | 0.6 | 15.0 | 0.7 |
| 042 | 44 | 1.1 | 22.0 | 0.6 | 15.0 | 0.7 |
| 044 | 44 | 1.1 | 22.0 | 0.6 | 15.0 | 0.7 |
| 045 | 44 | 1.1 | 22.0 | 0.6 | 15.0 | 0.7 |
| 046 | 44 | 1.1 | 22.0 | 0.6 | 15.0 | 0.7 |
| 047 | 44 | 1.1 | 22.0 | 0.6 | 15.0 | 0.7 |
| 048 | 44 | 1.1 | MISSING | OR DAMAGED | DOSIMETER | |
| 049 | 44 | 1.1 | 22.0 | 0.6 | 15.0 | 0.7 |
| 050 | 44 | 1.1 | 22.0 | 0.6 | 15.0 | 0.7 |
| TRANSIT DOSE = | 4.9 | 4.4 | 4.9 | 4.4 | 4.9 | 4.4 |

INDIAN POINT
FOR THE PERIOD 870918-880125

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 15.8 \pm .8 | 5 |
| 11.25-33.75 (NNE) | 15.4 \pm .9 | 3 |
| 33.75-56.25 (NE) | 15.5 \pm 2.6 | 3 |
| 56.25-78.75 (ENE) | 15.1 \pm .4 | 3 |
| 78.75-101.25 (E) | 15.1 \pm 1.2 | 3 |
| 101.25-123.75 (ESE) | 16.0 \pm .4 | 2 |
| 123.75-146.25 (SE) | 14.8 \pm 1.5 | 3 |
| 146.25-168.75 (SSE) | 15.5 \pm 1.0 | 3 |
| 168.75-191.25 (S) | 12.8 \pm 1.1 | 3 |
| 191.25-213.75 (SSW) | 14.4 \pm 0.0 | 1 |
| 213.75-236.25 (SW) | 15.7 \pm .4 | 2 |
| 236.25-258.75 (WSW) | 16.6 \pm 0.0 | 1 |
| 258.75-281.25 (W) | 17.4 \pm 0.0 | 1 |
| 281.25-303.75 (WNW) | 17.2 \pm .7 | 2 |
| 303.75-326.25 (NW) | NO DATA \pm NO DATA | 0 |
| 326.25-348.75 (NNW) | 16.6 \pm 1.4 | 2 |
| | | |

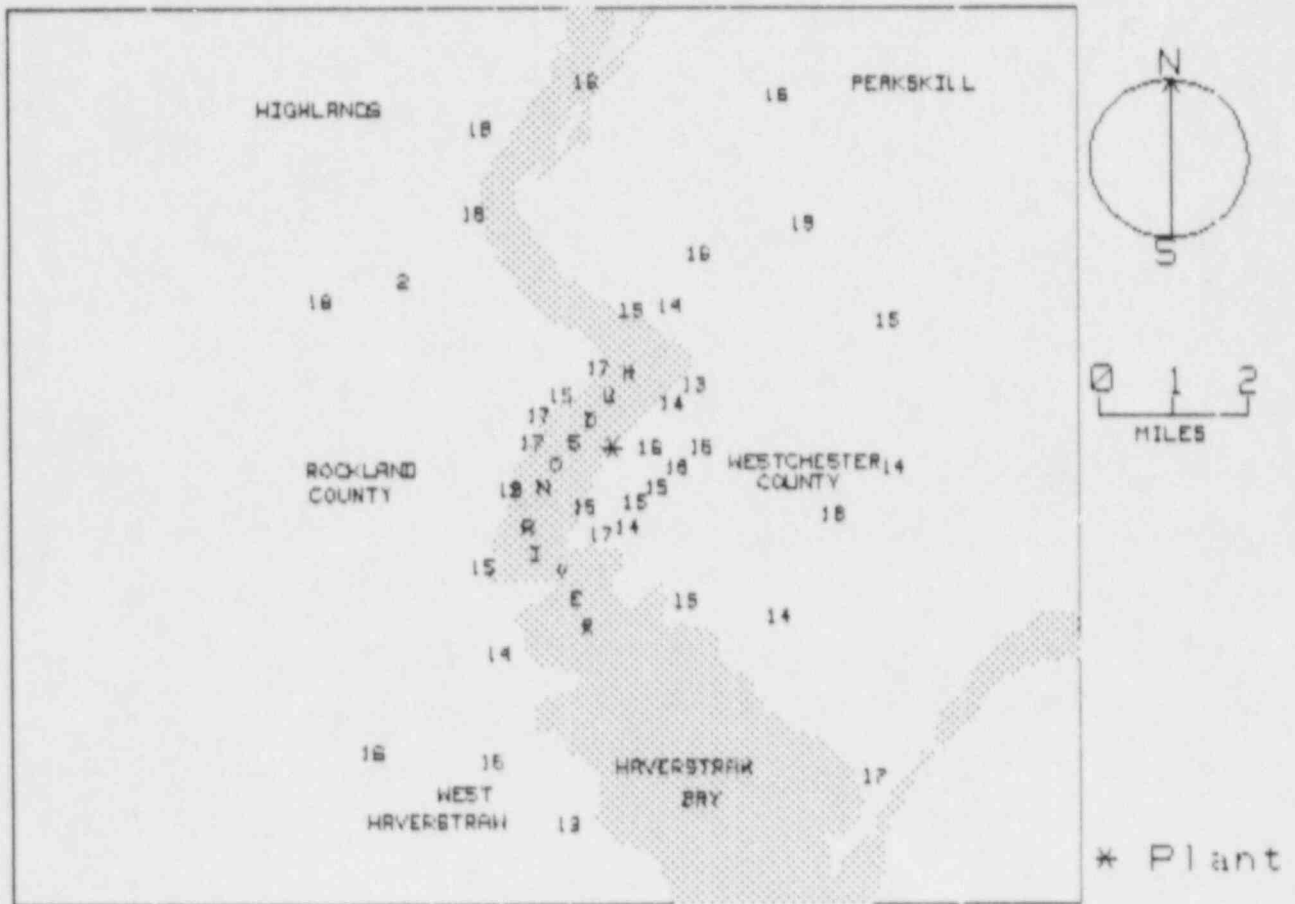
| DISTANCE (mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|--------------------------------|---|------------|
| 0-2 | 15.8 \pm 1.4 | 14 |
| 2-5 | 15.6 \pm 1.5 | 13 |
| >5 | 15.0 \pm 1.7 | 10 |
| UPWIND CONTROL DATA | 15.5 \pm .6 | 2 |

INDIAN POINT

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|-------------------------------|
| 1 | 1.4 | 52 | VALERIE HOME |
| 2 | 1.0 | 53 | CHARBS PT. |
| 3 | 1.5 | 61 | FRANKLIN ST. |
| 4 | 1.2 | 89 | WASHINGTON ST. |
| 5 | .9 | 107 | POST RD. (ALBANY-NY) |
| 6 | .5 | 90 | BROADWAY |
| 7 | .8 | 133 | FIRST ST. |
| 8 | .8 | 158 | WEST CHESTER AVE. |
| 9 | 1.2 | 188 | WESTCHESTER AVE. |
| 10 | .9 | 206 | M. RADIO TOWER |
| 11 | 1.1 | 170 | MONTROSE PT. |
| 12 | 2.3 | 155 | DUTCH ST. |
| 13 | 3.2 | 136 | WATCH HILL RD. |
| 14 | 3.1 | 107 | WATCH HILL RD. |
| 15 | 3.8 | 94 | FURNACE DOCK RD. |
| 16 | 5.7 | 142 | CROTON-ON-HUDSON |
| 18 | 9.1 | 147 | OSSINING |
| 19 | 12.0 | 137 | PLEASANTVILLE |
| 20 | 12.0 | 129 | CHAPPAQUA |
| 22 | 7.5 | 74 | NAT. GUARD ARMORY |
| 23 | 92.0 | 5 | UWC - ALBANY |
| 24 | 92.0 | 5 | UWC - ALBANY |
| 25 | 4.1 | 65 | CROMPOUND RD. |
| 26 | 4.0 | 40 | LOCUST AVE. |
| 27 | 5.3 | 25 | GALLOWS HILL RD. |
| 28 | 2.9 | 24 | LOP HOOK RD. |
| 29 | 2.1 | 22 | POLICE STATION |
| 30 | 1.9 | 8 | ROSLANDT TOWNSHIP GARAGE |
| 31 | 5.0 | 356 | RT. 202 |
| 32 | 3.7 | 330 | WATER MILLS BRIDGE |
| 33 | 4.7 | 339 | WATERMILL RD. |
| 34 | 7.0 | 374 | LADYCLIFF COLLEGE |
| 35 | 4.4 | 297 | WATKINS WAYNE RECREATION AREA |
| 36 | 3.6 | 305 | WATKINS MEM. OBSERVATORY |
| 37 | 1.1 | 350 | WATKINS POINT |
| 38 | .9 | 337 | WATKINS POINT |
| 39 | 1.0 | 315 | RT. 202 |
| 40 | 1.1 | 294 | RT. 202 |
| 41 | 1.1 | 274 | GAYS HILL RD |
| 42 | 1.5 | 248 | MOTT F. RD. |
| 44 | 92.0 | 5 | UWC - ALBANY |
| 45 | 2.4 | 227 | WAYNE AVE. |
| 46 | 3.2 | 209 | STONY PT. |
| 47 | 5.3 | 218 | THIELLS |
| 48 | 4.6 | 201 | WEST HAVERSTRAW |
| 49 | 5.2 | 187 | HAVERSTRAW |
| 50 | 7.1 | 171 | RT. 9W |

NRC TLD DOSES FOR INDIAN POINT AREA
(mR per 90 days)



Kewaunee/PT. BEACH
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870917-880127 133 DAYS
 FIELD TIME 88 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE(mR) | | NET EXPOSURE RATE | |
|-------------|----------------|------------|--------------------|------|-------------------|-------------|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | Tot. | mR/Std. Hr. | + Rdm; Tot. |
| 001 | 189 | 8.1 | 18 | 7 | 11 | 11 |
| 002 | 189 | 7.0 | 22 | 6 | 16 | 16 |
| 003 | 1 | 4.4 | 11 | 9 | 20 | 20 |
| 004 | 183 | 3.9 | 21 | 6 | 27 | 27 |
| 005 | 210 | 3.9 | 11 | 6 | 17 | 17 |
| 006 | 223 | 3.3 | 11 | 6 | 17 | 17 |
| 007 | 242 | 3.7 | 11 | 6 | 17 | 17 |
| 008 | 262 | 3.0 | 11 | 6 | 17 | 17 |
| 009 | 180 | 3.0 | 11 | 6 | 17 | 17 |
| 010 | 180 | 3.0 | 11 | 6 | 17 | 17 |
| 011 | 222 | 3.5 | 11 | 6 | 17 | 17 |
| 012 | 222 | 3.5 | 11 | 6 | 17 | 17 |
| 013 | 222 | 3.5 | 11 | 6 | 17 | 17 |
| 014 | 222 | 3.5 | 11 | 6 | 17 | 17 |
| 015 | 222 | 3.5 | 11 | 6 | 17 | 17 |
| 016 | 222 | 3.5 | 11 | 6 | 17 | 17 |
| 017 | 222 | 3.5 | 11 | 6 | 17 | 17 |
| 018 | 222 | 3.5 | 11 | 6 | 17 | 17 |
| 019 | 222 | 3.5 | 11 | 6 | 17 | 17 |
| 020 | 222 | 3.5 | 11 | 6 | 17 | 17 |
| 021 | 222 | 3.5 | 11 | 6 | 17 | 17 |
| 022 | 222 | 3.5 | 11 | 6 | 17 | 17 |
| 023 | 222 | 3.5 | 11 | 6 | 17 | 17 |
| 024 | 222 | 3.5 | 11 | 6 | 17 | 17 |
| 025 | 222 | 3.5 | 11 | 6 | 17 | 17 |
| 026 | 222 | 3.5 | 11 | 6 | 17 | 17 |
| 027 | 222 | 3.5 | 11 | 6 | 17 | 17 |
| 028 | 222 | 3.5 | 11 | 6 | 17 | 17 |
| 029 | 222 | 3.5 | 11 | 6 | 17 | 17 |
| 030 | 222 | 3.5 | 11 | 6 | 17 | 17 |
| 031 | 222 | 3.5 | 11 | 6 | 17 | 17 |
| 032 | 222 | 3.5 | 11 | 6 | 17 | 17 |
| 033 | 222 | 3.5 | 11 | 6 | 17 | 17 |
| 034 | 222 | 3.5 | 11 | 6 | 17 | 17 |
| 035 | 222 | 3.5 | 11 | 6 | 17 | 17 |
| 036 | 222 | 3.5 | 11 | 6 | 17 | 17 |
| 037 | 222 | 3.5 | 11 | 6 | 17 | 17 |
| 038 | 222 | 3.5 | 11 | 6 | 17 | 17 |
| 039 | 222 | 3.5 | 11 | 6 | 17 | 17 |
| 040 | 222 | 3.5 | 11 | 6 | 17 | 17 |
| 041 | 222 | 3.5 | 11 | 6 | 17 | 17 |
| 042 | 222 | 3.5 | 11 | 6 | 17 | 17 |
| 043 | 222 | 3.5 | 11 | 6 | 17 | 17 |

TRANSIT DOSE = 6.5 + .4

ING OR D INHAC D POSI

KEWAUNEE/PT. BEACH
FOR THE PERIOD 870917-880127

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 15.4 \pm 1.8 | 2 |
| 11.25-33.75 (NNE) | 16.2 \pm .7 | 3 |
| 33.75-56.25 (NE) | NO DATA--NO DATA | 0 |
| 56.25-78.75 (ENE) | NO DATA--NO DATA | 0 |
| 78.75-101.25 (E) | NO DATA--NO DATA | 0 |
| 101.25-123.75 (ESE) | NO DATA--NO DATA | 0 |
| 123.75-146.25 (SE) | NO DATA--NO DATA | 0 |
| 146.25-168.75 (SSE) | 13.1 \pm .2 | 2 |
| 168.75-191.25 (S) | 14.4 \pm 1.8 | 3 |
| 191.25-213.75 (SSW) | 15.5 \pm 4.4 | 3 |
| 213.75-236.25 (SW) | 16.2 \pm .4 | 3 |
| 236.25-258.75 (WSW) | 17.9 \pm 2.6 | 4 |
| 258.75-281.25 (W) | 15.8 \pm 1.6 | 3 |
| 281.25-303.75 (WNW) | 15.9 \pm 1.4 | 6 |
| 303.75-326.25 (NW) | 15.7 \pm 2.7 | 5 |
| 326.25-348.75 (NNW) | 17.4 \pm .8 | 5 |
| | | |

| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 16.3 \pm 1.5 | 17 |
| 2-5 | 16.0 \pm 2.6 | 15 |
| >5 | 15.7 \pm 2.5 | 7 |
| UPWIND CONTROL DATA | 13.8 \pm 1.0 | 3 |

KEWAUNEE/PT. BEACH

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|---|
| 1 | 8.1 | 189 | HWY. 42 & 34TH AVE. |
| 2 | 7.8 | 195 | COUNTY RD. VV & TANNERY RD. |
| 3 | 4.9 | 163 | PT. BEACH STATE PARK |
| 4 | 3.3 | 183 | LAKE SHORE RD. & RAVINE DR. |
| 5 | 3.2 | 210 | ELECTRICAL POWER SUBSTATION ON COUNTY RD. V |
| 6 | 3.7 | 223 | COUNTY RD. V & TANNERY RD. |
| 7 | 5.7 | 242 | COUNTY RD. V |
| 8 | 1.8 | 202 | IRISH RD. |
| 9 | 1.8 | 180 | IRISH RD. |
| 10 | 1.9 | 158 | IRISH RD. & LAKE SHORE RD. |
| 11 | 1.2 | 235 | NUCLEAR RD. & TWIN ELDER RD. |
| 12 | 1.4 | 258 | HWY. 42 |
| 13 | 1.4 | 273 | HWY. 42 |
| 14 | .9 | 290 | TAPAWINGO RD. |
| 15 | .8 | 333 | LAKE SHORE RD. |
| 16 | 1.9 | 342 | TWO CREEKS RD. & LAKE SHORE RD. |
| 17 | 2.8 | 317 | TWO CREEKS RD. & HWY. 42 |
| 18 | 3.4 | 318 | ZANDER RD. & TANNERY RD. |
| 19 | 4.8 | 293 | SAXONBURG RD. |
| 20 | 4.8 | 273 | SAXONBURG RD. & TAPAWINGO RD. |
| 21 | 5.6 | 300 | TISCH MILLS |
| 22 | 5.9 | 316 | NUCLEAR RD. & COUNTY RD. B |
| 23 | 2.7 | 345 | LAKE SHORE RD. |
| 24 | 1.3 | 219 | COUNTY RD. BB & RADAJACK LANE |
| 25 | 1.4 | 247 | WOODSIDE AVE. |
| 26 | 1.3 | 263 | WOODSIDE AVE. |
| 27 | 1.4 | 298 | WOODSIDE AVE. |
| 28 | 1.3 | 328 | SANDY BAY RD. |
| 29 | 1.1 | 342 | SANDY BAY RD. & HWY. 42 |
| 30 | .6 | 329 | HWY. 42 |
| 31 | .1 | 13 | SANDY BAY RD. & CEMETERY RD. |
| 32 | 1 | 353 | HWY. 42 & LAKE SHORE RD./COUNTY RD. G |
| 33 | 5.9 | 381 | COUNTY RD. G |
| 34 | 8.4 | 299 | HWY. 163 |
| 35 | 3.8 | 323 | TOWN HALL RD. |
| 36 | 3.3 | 336 | OLD SETTLER RD. & WOODSIDE AVE. |
| 37 | 3.1 | 6 | OLD SETTLER RD. |
| 38 | 3.7 | 14 | LAKE SHORE RD. & LAKE RD. |
| 39 | 7.6 | 13 | HWY. 42 |
| 40 | 4.3 | 247 | ASPEN RD. & SAXONBURG RD. |
| 41 | 23.8 | 8 | UWC - HWY. 42 |
| 42 | 23.8 | 8 | UWC - HWY. 42 |
| 43 | 23.8 | 8 | UWC - HWY. 42 |

MAP FOR KEWAUNEE/PT. BEACH

Map will be provided for this site in the future.

LACROSSE
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870917-880127 133 DAYS
 FIELD TIME 92 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|--------------|----------------|------------|-------------------------------|------|-------------------|------|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | Tot. | mR/Std. Rdm | Rate |
| 001 | 57 | 20. | 21.7 | + | 16.0 | + |
| 002 | 57 | 20. | 18.6 | + | 12.0 | + |
| 003 | 07 | 0. | 22.4 | + | 16.0 | + |
| 004 | 43 | 0. | 19.0 | + | 14.0 | + |
| 005 | 13 | 0. | 20.0 | + | 15.0 | + |
| 006 | 11 | 0. | 21.0 | + | 16.0 | + |
| 007 | 11 | 0. | MIS. ING OR DAMAGED DOSIMETER | | | |
| 008 | 14 | 0. | MIS. ING OR DAMAGED DOSIMETER | | | |
| 009 | 14 | 0. | 18.0 | + | 13.0 | + |
| 010 | 17 | 0. | 20.0 | + | 14.0 | + |
| 011 | 17 | 0. | 20.0 | + | 14.0 | + |
| 012 | 16 | 0. | 20.1 | + | 14.0 | + |
| 013 | 13 | 0. | 20.0 | + | 14.0 | + |
| 014 | 14 | 0. | 20.0 | + | 14.0 | + |
| 015 | 9 | 0. | 20.0 | + | 14.0 | + |
| 016 | 4 | 0. | 20.0 | + | 14.0 | + |
| 017 | 5 | 0. | 20.0 | + | 14.0 | + |
| 018 | 10 | 0. | 20.0 | + | 14.0 | + |
| 019 | 10 | 0. | 20.0 | + | 14.0 | + |
| 020 | 10 | 0. | 20.0 | + | 14.0 | + |
| 021 | 10 | 0. | 20.0 | + | 14.0 | + |
| 022 | 10 | 0. | 20.0 | + | 14.0 | + |
| 023 | 10 | 0. | 20.0 | + | 14.0 | + |
| 024 | 10 | 0. | 20.0 | + | 14.0 | + |
| 025 | 10 | 0. | 20.0 | + | 14.0 | + |
| 026 | 10 | 0. | 20.0 | + | 14.0 | + |
| 027 | 10 | 0. | 20.0 | + | 14.0 | + |
| 028 | 10 | 0. | 20.0 | + | 14.0 | + |
| 029 | 10 | 0. | 20.0 | + | 14.0 | + |
| 030 | 10 | 0. | 20.0 | + | 14.0 | + |
| 031 | 10 | 0. | 20.0 | + | 14.0 | + |
| 032 | 10 | 0. | 20.0 | + | 14.0 | + |
| 033 | 10 | 0. | 20.0 | + | 14.0 | + |
| 034 | 10 | 0. | 20.0 | + | 14.0 | + |
| 035 | 10 | 0. | 20.0 | + | 14.0 | + |
| 036 | 10 | 0. | 20.0 | + | 14.0 | + |
| 037 | 10 | 0. | 20.0 | + | 14.0 | + |
| 038 | 10 | 0. | 20.0 | + | 14.0 | + |
| 039 | 10 | 0. | 20.0 | + | 14.0 | + |
| 040 | 10 | 0. | 20.0 | + | 14.0 | + |
| 041 | 10 | 0. | 20.0 | + | 14.0 | + |
| 042 | 10 | 0. | 20.0 | + | 14.0 | + |
| 043 | 10 | 0. | 20.0 | + | 14.0 | + |
| 044 | 10 | 0. | 20.0 | + | 14.0 | + |
| 045 | 10 | 0. | 20.0 | + | 14.0 | + |
| 046 | 10 | 0. | 20.0 | + | 14.0 | + |
| 047 | 10 | 0. | 20.0 | + | 14.0 | + |
| 048 | 10 | 0. | 20.0 | + | 14.0 | + |
| 049 | 10 | 0. | 20.0 | + | 14.0 | + |
| 050 | 10 | 0. | 20.0 | + | 14.0 | + |
| 051 | 10 | 0. | 20.0 | + | 14.0 | + |
| 052 | 10 | 0. | 20.0 | + | 14.0 | + |
| 053 | 10 | 0. | 20.0 | + | 14.0 | + |
| 054 | 10 | 0. | 20.0 | + | 14.0 | + |
| 055 | 10 | 0. | 20.0 | + | 14.0 | + |
| 056 | 10 | 0. | 20.0 | + | 14.0 | + |
| 057 | 10 | 0. | 20.0 | + | 14.0 | + |
| 058 | 10 | 0. | 20.0 | + | 14.0 | + |
| 059 | 10 | 0. | 20.0 | + | 14.0 | + |
| 060 | 10 | 0. | 20.0 | + | 14.0 | + |
| 061 | 10 | 0. | 20.0 | + | 14.0 | + |
| 062 | 10 | 0. | 20.0 | + | 14.0 | + |
| 063 | 10 | 0. | 20.0 | + | 14.0 | + |
| 064 | 10 | 0. | 20.0 | + | 14.0 | + |
| 065 | 10 | 0. | 20.0 | + | 14.0 | + |
| 066 | 10 | 0. | 20.0 | + | 14.0 | + |
| 067 | 10 | 0. | 20.0 | + | 14.0 | + |
| 068 | 10 | 0. | 20.0 | + | 14.0 | + |
| 069 | 10 | 0. | 20.0 | + | 14.0 | + |
| 070 | 10 | 0. | 20.0 | + | 14.0 | + |
| 071 | 10 | 0. | 20.0 | + | 14.0 | + |
| 072 | 10 | 0. | 20.0 | + | 14.0 | + |
| 073 | 10 | 0. | 20.0 | + | 14.0 | + |
| 074 | 10 | 0. | 20.0 | + | 14.0 | + |
| 075 | 10 | 0. | 20.0 | + | 14.0 | + |
| 076 | 10 | 0. | 20.0 | + | 14.0 | + |
| 077 | 10 | 0. | 20.0 | + | 14.0 | + |
| 078 | 10 | 0. | 20.0 | + | 14.0 | + |
| 079 | 10 | 0. | 20.0 | + | 14.0 | + |
| 080 | 10 | 0. | 20.0 | + | 14.0 | + |
| 081 | 10 | 0. | 20.0 | + | 14.0 | + |
| 082 | 10 | 0. | 20.0 | + | 14.0 | + |
| 083 | 10 | 0. | 20.0 | + | 14.0 | + |
| 084 | 10 | 0. | 20.0 | + | 14.0 | + |
| 085 | 10 | 0. | 20.0 | + | 14.0 | + |
| 086 | 10 | 0. | 20.0 | + | 14.0 | + |
| 087 | 10 | 0. | 20.0 | + | 14.0 | + |
| 088 | 10 | 0. | 20.0 | + | 14.0 | + |
| 089 | 10 | 0. | 20.0 | + | 14.0 | + |
| 090 | 10 | 0. | 20.0 | + | 14.0 | + |
| 091 | 10 | 0. | 20.0 | + | 14.0 | + |
| 092 | 10 | 0. | 20.0 | + | 14.0 | + |
| 093 | 10 | 0. | 20.0 | + | 14.0 | + |
| 094 | 10 | 0. | 20.0 | + | 14.0 | + |
| 095 | 10 | 0. | 20.0 | + | 14.0 | + |
| 096 | 10 | 0. | 20.0 | + | 14.0 | + |
| 097 | 10 | 0. | 20.0 | + | 14.0 | + |
| 098 | 10 | 0. | 20.0 | + | 14.0 | + |
| 099 | 10 | 0. | 20.0 | + | 14.0 | + |
| 100 | 10 | 0. | 20.0 | + | 14.0 | + |
| TRANSIT DOSE | 5. | + | 4. | | | |

R-127

LACROSSE
FOR THE PERIOD 870317-880127

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) +-Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 16.4 +- .9 | 3 |
| 11.25-33.75 (NNE) | 15.0 +- 1.4 | 4 |
| 33.75-56.25 (NE) | 14.8 +- 0.0 | 1 |
| 56.25-78.75 (ENE) | 17.7 +- .9 | 2 |
| 78.75-101.25 (E) | 15.8 +- .8 | 2 |
| 101.25-123.75 (ESE) | 16.5 +- 1.2 | 2 |
| 123.75-146.25 (SE) | 17.0 +- .7 | 2 |
| 146.25-168.75 (SSE) | 16.5 +- 0.0 | 1 |
| 168.75-191.25 (S) | 15.8 +- 1.3 | 3 |
| 191.25-213.75 (SSW) | NO DATA+-NO DATA | 0 |
| 213.75-236.25 (SW) | 13.0 +- 0 | 1 |
| 236.25-258.75 (WSW) | NO DATA+-NO DATA | 0 |
| 258.75-281.25 (W) | NO DATA+-NO DATA | 0 |
| 281.25-303.75 (WNW) | 15.7 +- 0.0 | 1 |
| 303.75-326.25 (NW) | 17.9 +- 0.2 | 1 |
| 326.25-348.75 (NNW) | 14.2 +- 0.0 | 1 |
| | | |

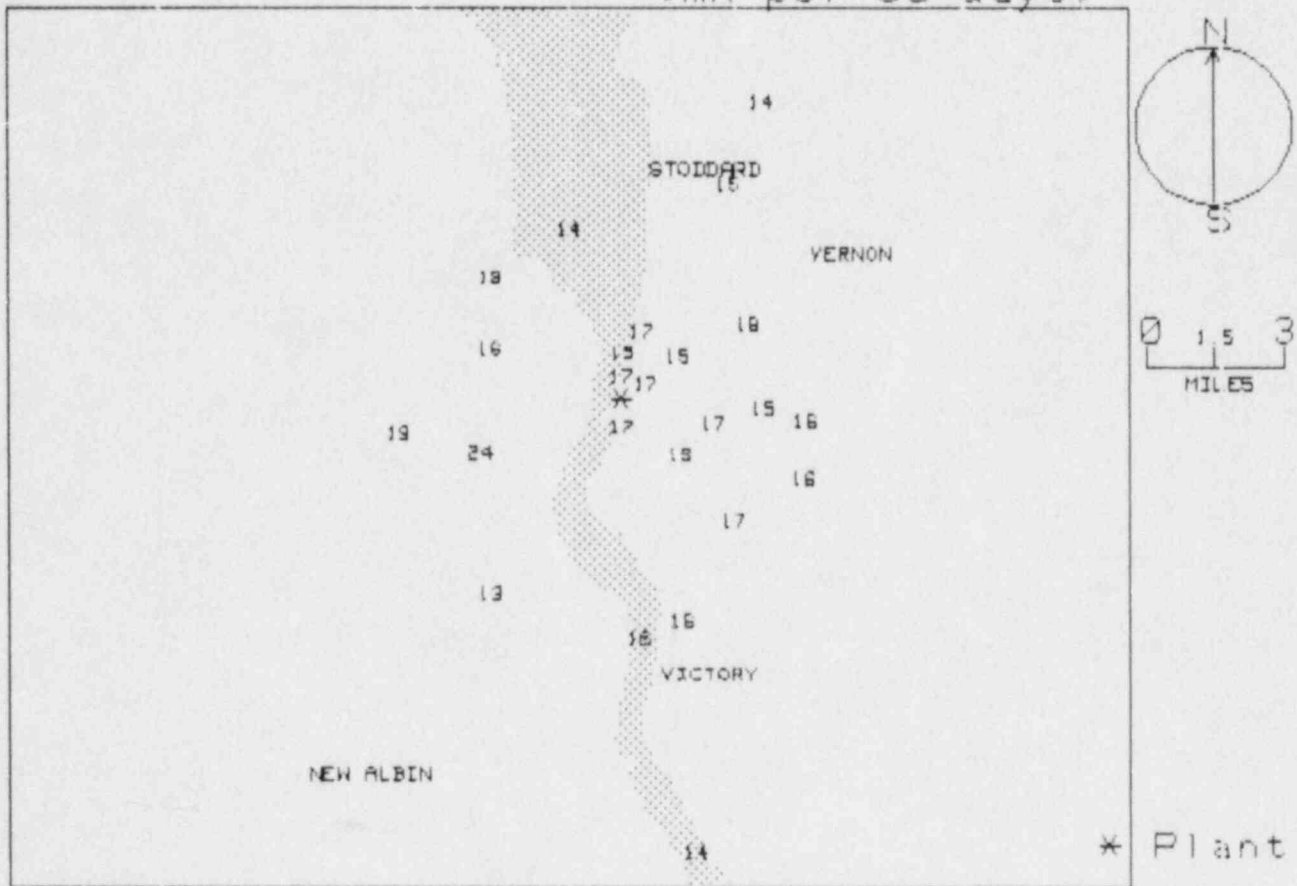
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) +-Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 16.5 +- 1.0 | 9 |
| 2-5 | 16.0 +- 1.5 | 11 |
| >5 | 14.7 +- 1.2 | 4 |
| UPWIND CONTROL DATA | 15.3 +- 2.0 | 3 |

LACROSSE

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|-------------------------------|
| 1 | 20.0 | 5 | STATE OFFICE BLDG. |
| 2 | 20.0 | 5 | STATE OFFICE BLDG. |
| 3 | 20.0 | 3 | ST. DOMINIC'S MONASTERY |
| 4 | 3.8 | 343 | BROWNSVILLE |
| 5 | 3.8 | 313 | RENO - HWY. 26 (POLE #BC1B94) |
| 6 | 3.0 | 291 | TREE ACROSS FROM STOP SIGN |
| 7 | 4.8 | 261 | HOUSTON CTY. RD. 14 |
| 8 | 3.2 | 249 | RR NEXT TO HWY. 26 |
| 9 | 5.0 | 214 | NEW ALBIN (LEFT OF HWY. 26) |
| 10 | 9.8 | 171 | DeSOTO (WI) |
| 11 | 5.1 | 176 | VICTORY |
| 12 | 4.9 | 165 | COUNTY RD. |
| 13 | 3.5 | 138 | BAD AXE RD. |
| 14 | 4.2 | 114 | WARREN RD. |
| 15 | 3.9 | 97 | CREEK RD. |
| 16 | 3.0 | 94 | HWY. 56 (S. SIDE) |
| 17 | 2.0 | 105 | MOUND RIDGE RD. |
| 18 | 1.5 | 52 | HWY. 56 |
| 19 | 1.5 | 16 | HWY. 56 & COUNTY K RD. |
| 20 | 1.0 | 1 | GENOA |
| 21 | .5 | 358 | LOCK & DAM #8 |
| 22 | .6 | 180 | HWY 35 |
| 23 | 1.7 | 134 | PEDRETTI FARM |
| 24 | .6 | 58 | MALIN FARM |
| 25 | 3.1 | 59 | COUNTY K (LEFT SIDE) |
| 26 | 1.5 | 16 | COUNTY O RD. |
| 27 | 5.1 | 26 | BIRCHLAWN FARM |
| 28 | 7.0 | 25 | THUNDER COULEE |
| 29 | 4.8 | 4 | HWY. 35 AT WAYSIDE |

NRC TLD DOSES FOR LaCROSSE AREA (mR per 90 days)



LA SALLE
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870914-880202 142 DAYS
 FIELD TIME 91 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | | | NET EXPOSURE RATE | | | |
|----------------|----------------|------------|---------------------|------|----|----|-------------------|-------|----|-----|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | Tot. | | | mR/Std. Qtr. | + Rdm | | |
| 001 | 302 | 10. | 21.5 | ++ | .6 | 3. | 16.4 | ++ | .7 | 6.2 |
| 002 | 335 | 4.0 | 25.8 | ++ | .8 | 3. | 20.7 | ++ | .8 | 6.5 |
| 003 | 343 | 5.0 | 20.6 | ++ | .6 | 3. | 15.5 | ++ | .7 | 6.1 |
| 004 | 38 | 5.5 | 26.3 | ++ | .8 | 3. | 21.2 | ++ | .9 | 6.6 |
| 005 | 39 | 4.3 | 20.5 | ++ | .6 | 3. | 15.5 | ++ | .7 | 6.1 |
| 006 | 27 | 0.0 | 22.2 | ++ | .7 | 3. | 17.1 | ++ | .8 | 6.2 |
| 007 | 355 | 4.1 | 23.4 | ++ | .7 | 3. | 18.4 | ++ | .8 | 6.3 |
| 008 | 304 | 4.4 | 23.7 | ++ | .7 | 3. | 18.7 | ++ | .8 | 6.4 |
| 009 | 273 | 3.9 | 21.5 | ++ | .6 | 3. | 16.5 | ++ | .7 | 6.2 |
| 010 | 277 | 3.7 | 23.0 | ++ | .7 | 3. | 18.0 | ++ | .8 | 6.3 |
| 011 | 240 | 4.0 | 22.4 | ++ | .7 | 3. | 17.3 | ++ | .8 | 6.2 |
| 012 | 220 | 12. | 22.4 | ++ | .7 | 3. | 17.3 | ++ | .8 | 6.2 |
| 013 | 212 | 10. | 22.7 | ++ | .7 | 3. | 17.6 | ++ | .8 | 6.3 |
| 014 | 212 | 10. | 24.0 | ++ | .7 | 3. | 19.4 | ++ | .8 | 6.4 |
| 015 | 212 | 10. | 23.6 | ++ | .7 | 3. | 18.5 | ++ | .8 | 6.3 |
| 016 | 215 | 4.4 | 24.4 | ++ | .7 | 3. | 19.3 | ++ | .8 | 6.4 |
| 017 | 204 | 4.0 | 23.0 | ++ | .7 | 3. | 18.4 | ++ | .8 | 6.3 |
| 018 | 173 | 4.0 | 24.1 | ++ | .7 | 3. | 19.0 | ++ | .8 | 6.4 |
| 019 | 174 | 6.4 | 22.1 | ++ | .7 | 3. | 17.0 | ++ | .8 | 6.2 |
| 020 | 150 | 4.9 | 23.7 | ++ | .7 | 3. | 18.0 | ++ | .8 | 6.3 |
| 021 | 120 | 4.2 | 24.1 | ++ | .7 | 3. | 19.0 | ++ | .8 | 6.4 |
| 022 | 114 | 0.0 | 22.4 | ++ | .7 | 3. | 17.3 | ++ | .8 | 6.2 |
| 023 | 97 | 4.0 | 23.0 | ++ | .7 | 3. | 18.0 | ++ | .8 | 6.3 |
| 024 | 72 | 4.7 | 24.9 | ++ | .7 | 3. | 19.0 | ++ | .8 | 6.3 |
| 025 | 41 | 2.0 | 23.7 | ++ | .7 | 3. | 18.0 | ++ | .8 | 6.3 |
| 026 | 13 | 1.0 | 24.0 | ++ | .7 | 3. | 18.4 | ++ | .8 | 6.4 |
| 027 | 356 | 1.0 | 23.7 | ++ | .7 | 3. | 18.0 | ++ | .8 | 6.3 |
| 028 | 336 | 1.0 | 23.0 | ++ | .6 | 3. | 17.0 | ++ | .8 | 6.2 |
| 029 | 310 | 2.3 | 23.9 | ++ | .7 | 3. | 18.0 | ++ | .8 | 6.3 |
| 030 | 301 | 2.0 | 26.7 | ++ | .8 | 3. | 21.0 | ++ | .9 | 6.5 |
| 031 | 271 | 1.7 | 22.4 | ++ | .7 | 3. | 17.3 | ++ | .8 | 6.2 |
| 032 | 251 | 1.0 | 23.0 | ++ | .7 | 3. | 18.0 | ++ | .8 | 6.3 |
| 033 | 227 | 2.4 | 23.4 | ++ | .7 | 3. | 18.0 | ++ | .8 | 6.3 |
| 034 | 204 | 1.7 | 23.0 | ++ | .7 | 3. | 18.0 | ++ | .8 | 6.3 |
| 035 | 171 | 1.6 | 24.7 | ++ | .7 | 3. | 19.0 | ++ | .8 | 6.4 |
| 036 | 153 | 1.0 | 22.4 | ++ | .7 | 3. | 17.3 | ++ | .8 | 6.2 |
| 037 | 139 | 2.1 | 23.0 | ++ | .7 | 3. | 18.0 | ++ | .8 | 6.3 |
| 038 | 111 | 1.5 | 20.7 | ++ | .6 | 3. | 15.0 | ++ | .7 | 6.1 |
| 039 | 271 | 0.6 | 25.9 | ++ | .8 | 3. | 20.0 | ++ | .9 | 6.5 |
| TRANSIT DOSE = | 4.0 | +- | .4 | | | | | | | |

LA SALLE
FOR THE PERIOD 870914-880202

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std. Dev. | # IN GROUP |
|---------------------|--|------------|
| 348.75-11.25 (N) | 18.5 \pm .2 | 2 |
| 11.25-33.75 (NNE) | 18.3 \pm 1.6 | 2 |
| 33.75-56.25 (NE) | 18.4 \pm 2.8 | 3 |
| 56.25-78.75 (ENE) | 19.8 \pm 0.0 | 1 |
| 78.75-101.25 (E) | 18.3 \pm 0.0 | 1 |
| 101.25-123.75 (ESE) | 16.5 \pm 1.2 | 2 |
| 123.75-146.25 (SE) | 18.7 \pm .5 | 2 |
| 146.25-168.75 (SSE) | 18.0 \pm .8 | 2 |
| 168.75-191.25 (S) | 18.6 \pm 1.4 | 3 |
| 191.25-213.75 (SSW) | 18.4 \pm 0.0 | 2 |
| 213.75-236.25 (SW) | 19.0 \pm 1.5 | 3 |
| 236.25-258.75 (WSW) | 17.8 \pm .7 | 2 |
| 258.75-281.25 (W) | 19.6 \pm 2.0 | 3 |
| 281.25-303.75 (WNW) | 18.2 \pm 3.0 | 3 |
| 303.75-326.25 (NW) | 18.7 \pm .1 | 2 |
| 326.25-348.75 (NNW) | 17.5 \pm 2.8 | 3 |
| | | |

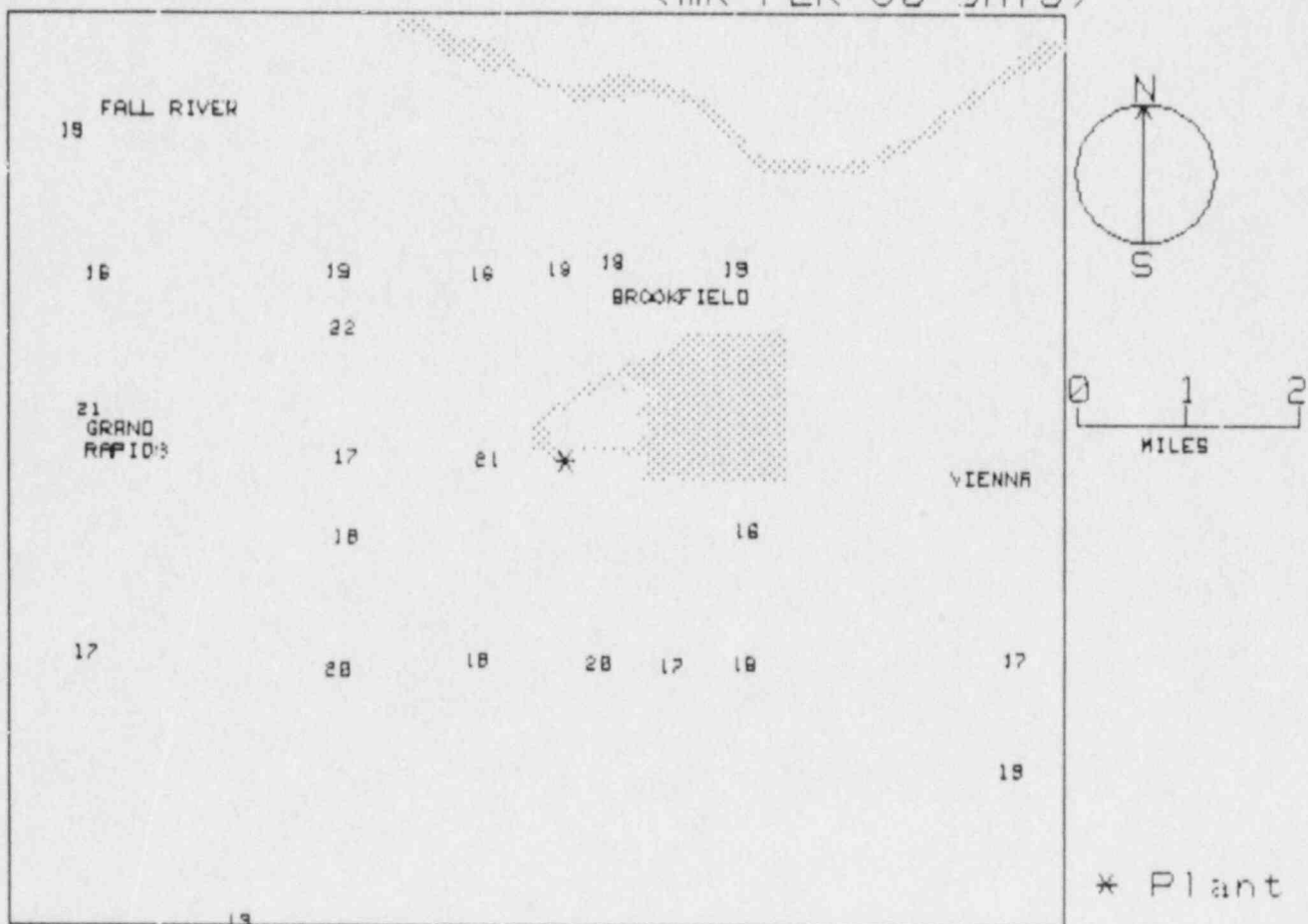
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std. Dev. | # IN GROUP |
|-------------------------------|--|------------|
| 0-2 | 18.5 \pm 1.7 | 12 |
| 2-5 | 18.5 \pm 1.4 | 19 |
| >5 | 17.5 \pm 2.2 | 5 |
| UPWIND CONTROL DATA | 18.5 \pm .8 | 3 |

LA SALLE

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|---------------------------|
| 1 | 10.0 | 302 | McKINLEY ST. |
| 2 | 4.8 | 335 | 2350TH RD. |
| 3 | 5.8 | 343 | AURORA ST. |
| 4 | 5.5 | 38 | OAK ST. |
| 5 | 4.3 | 39 | N. 2553 RD. |
| 6 | 3.8 | 27 | N. 2553 RD. |
| 7 | 4.1 | 355 | N. 2553 RD. |
| 8 | 4.6 | 304 | N. 24TH & E. 22ND RD. |
| 9 | 3.9 | 292 | N. 23RD & E. 22ND RD. |
| 10 | 3.7 | 276 | N. 22ND & E. 22ND RD. |
| 11 | 4.0 | 248 | N. 20TH & E. 22ND RD. |
| 12 | 12.0 | 222 | ILLINOIS ST. |
| 13 | 18.0 | 212 | HWY. 23 |
| 14 | 18.0 | 212 | HWY. 23 |
| 15 | 18.0 | 212 | HWY. 23 |
| 16 | 4.4 | 215 | N. 18TH RD. |
| 17 | 4.0 | 204 | N. 18TH RD. & E. 24TH RD. |
| 18 | 4.6 | 173 | N. 17TH RD. |
| 19 | 6.4 | 174 | PLUMB ST. |
| 20 | 4.9 | 158 | N. 18TH & E. 27TH RD. |
| 21 | 4.2 | 125 | HWY. 170 |
| 22 | 3.8 | 111 | HWY. 170 & N. 20TH RD. |
| 23 | 4.5 | 97 | N. 21ST & E. 30TH RD. |
| 24 | 4.7 | 72 | O'MALLEY RD. |
| 25 | 2.0 | 41 | N. 2350TH RD. |
| 26 | 1.6 | 13 | N. 2350TH RD. |
| 27 | 1.5 | 358 | N. 2350TH RD. |
| 28 | 1.6 | 336 | E. 25TH & N. 2350TH RD. |
| 29 | 2.3 | 318 | E. 24TH & N. 2350TH RD. |
| 30 | 2.0 | 301 | E. 24TH RD. |
| 31 | 1.7 | 271 | E. 24TH RD. |
| 32 | 1.8 | 251 | N. 21ST & E. 24TH RD. |
| 33 | 2.4 | 227 | N. 20TH & E. 24TH RD. |
| 34 | 1.7 | 204 | N. 20TH & E. 25TH RD. |
| 35 | 1.6 | 171 | N. 20TH & E. 26TH RD. |
| 36 | 1.8 | 153 | N. 20TH RD. |
| 37 | 2.1 | 139 | E. 27TH RD. & N. 20TH RD. |
| 38 | 1.5 | 111 | N. 21ST & E. 27TH RD. |
| 39 | .6 | 271 | E. 25TH RD. |

NRC TLD DOSES FOR LASALLE AREA
(mR PER 90 DAYS)



LIMERICK
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 878915-880125 133 DAYS
 FIELD TIME 85 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | | | |
|----------------|----------------|------------|------------------------------|------|-------------------|-------------|-----|--|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | Tot. | mR/Std. Qtr. | + Rdm; Tot. | | |
| 001 | 12 | 9. | 26.9 | +.8 | 4.0 | 21.7 +- 1.0 | 7.3 | |
| 003 | 88 | 3.7 | 24.5 | +.7 | 3.7 | 19.2 +- .9 | 7.1 | |
| 004 | 52 | 3.2 | 24.5 | +.7 | 3.7 | 19.2 +- .9 | 7.1 | |
| 005 | 23 | 3.5 | 25.8 | +.8 | 3.9 | 20.6 +- .9 | 7.2 | |
| 006 | 8 | 4.6 | 25.5 | +.8 | 3.8 | 20.3 +- .9 | 7.2 | |
| 007 | 340 | 7.1 | 22.2 | +.7 | 3.6 | 16.8 +- .8 | 6.9 | |
| 008 | 330 | 3.6 | 23.8 | +.7 | 3.6 | 18.4 +- .9 | 7.1 | |
| 009 | 313 | 3.3 | 25.8 | +.7 | 3.7 | 19.7 +- .9 | 7.2 | |
| 010 | 291 | 4.8 | 28.1 | +.8 | 4.2 | 23.0 +- 1.0 | 7.5 | |
| 011 | 303 | 2.9 | 29.6 | +.9 | 4.4 | 24.6 +- 1.0 | 7.6 | |
| 012 | 314 | 1.6 | 26.3 | +.8 | 3.9 | 21.1 +- .9 | 7.3 | |
| 013 | 352 | 1.7 | 26.3 | +.8 | 3.9 | 21.1 +- .9 | 7.3 | |
| 014 | 339 | 1.3 | 22.6 | +.7 | 3.4 | 17.2 +- .8 | 6.8 | |
| 015 | 47 | 1.8 | 23.4 | +.7 | 3.5 | 18.1 +- .9 | 7.0 | |
| 016 | 71 | 2.7 | 24.9 | +.7 | 3.7 | 19.6 +- .9 | 7.2 | |
| 017 | 17 | .4 | 24.0 | +.7 | 3.6 | 18.7 +- .9 | 7.1 | |
| 018 | 286 | .5 | MISSING OR DAMAGED DOSIMETER | | | | | |
| 019 | 276 | .6 | MISSING OR DAMAGED DOSIMETER | | | | | |
| 020 | 245 | .9 | 23.1 | +.7 | 3.5 | 17.7 +- .8 | 7.0 | |
| 021 | 224 | 1 | 23.1 | +.7 | 3.5 | 17.7 +- .8 | 7.0 | |
| 022 | 202 | 1.2 | 25.7 | +.8 | 3.9 | 20.5 +- .9 | 7.2 | |
| 023 | 172 | 1.6 | 21.1 | +.6 | 3.2 | 15.6 +- .8 | 6.8 | |
| 024 | 158 | 1.7 | 23.3 | +.7 | 3.5 | 17.9 +- .9 | 7.0 | |
| 025 | 132 | 1.2 | 25.4 | +.8 | 3.8 | 20.1 +- .9 | 7.2 | |
| 026 | 128 | 1.2 | 23.6 | +.7 | 3.5 | 18.3 +- .9 | 7.1 | |
| 027 | 168 | 1 | 24.4 | +.7 | 3.7 | 19.1 +- .9 | 7.1 | |
| 028 | 91 | 1 | 23.5 | +.7 | 3.5 | 18.2 +- .9 | 7.0 | |
| 029 | 67 | .7 | 25.4 | +.8 | 3.8 | 20.1 +- .9 | 7.2 | |
| 030 | 146 | 3.4 | 27.4 | +.8 | 4.1 | 22.3 +- 1.0 | 7.4 | |
| 031 | 158 | 2.8 | 24.6 | +.7 | 3.7 | 19.3 +- .9 | 7.1 | |
| 032 | 152 | 7.4 | 22.6 | +.7 | 3.4 | 17.2 +- .8 | 7.0 | |
| 033 | 184 | 4.3 | 24.0 | +.7 | 3.6 | 18.7 +- .9 | 7.1 | |
| 034 | 201 | 3.9 | 21.9 | +.7 | 3.3 | 16.5 +- .8 | 6.9 | |
| 035 | 225 | 5.1 | 23.4 | +.7 | 3.5 | 18.9 +- .9 | 7.0 | |
| 036 | 245 | 4.2 | 24.4 | +.7 | 3.7 | 19.1 +- .9 | 7.1 | |
| 037 | 266 | 3.9 | 22.8 | +.7 | 3.4 | 17.4 +- .8 | 7.0 | |
| 038 | 290 | 1.5 | 25.6 | +.8 | 3.8 | 20.3 +- .9 | 7.2 | |
| 039 | 290 | 1.5 | 26.2 | +.8 | 3.9 | 21.0 +- .9 | 7.3 | |
| 040 | 290 | 1.5 | 28.4 | +.9 | 4.3 | 23.3 +- 1.0 | 7.5 | |
| 041 | 128 | 3 | 28.2 | +.6 | 3.8 | 14.6 +- .8 | 6.8 | |
| 042 | 111 | 4.4 | 27.4 | +.8 | 4.1 | 22.3 +- 1.0 | 7.4 | |
| TRANSIT DOSE = | | | 6.3 | +.4 | 5.6 | | | |

LIMERICK
FOR THE PERIOD 870915-880125

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 20.7 \pm .8 | 2 |
| 11.25-33.75 (NNE) | 20.3 \pm 1.5 | 3 |
| 33.75-56.25 (NE) | 18.6 \pm .8 | 2 |
| 56.25-78.75 (ENE) | 19.9 \pm .4 | 2 |
| 78.75-101.25 (E) | 18.7 \pm .7 | 2 |
| 101.25-123.75 (ESE) | 20.3 \pm 2.8 | 2 |
| 123.75-146.25 (SE) | 19.0 \pm 4.0 | 3 |
| 146.25-168.75 (SSE) | 18.4 \pm 1.0 | 4 |
| 168.75-191.25 (S) | 17.1 \pm 2.2 | 2 |
| 191.25-213.75 (SSW) | 18.5 \pm 2.8 | 2 |
| 213.75-236.25 (SW) | 17.9 \pm .2 | 2 |
| 236.25-258.75 (WSW) | 18.4 \pm .9 | 2 |
| 258.75-281.25 (W) | 17.4 \pm 0.0 | 1 |
| 281.25-303.75 (WNW) | 23.8 \pm 1.1 | 2 |
| 303.75-326.25 (NW) | 20.4 \pm 1.0 | 2 |
| 326.25-348.75 (NNW) | 17.5 \pm .9 | 3 |
| | | |

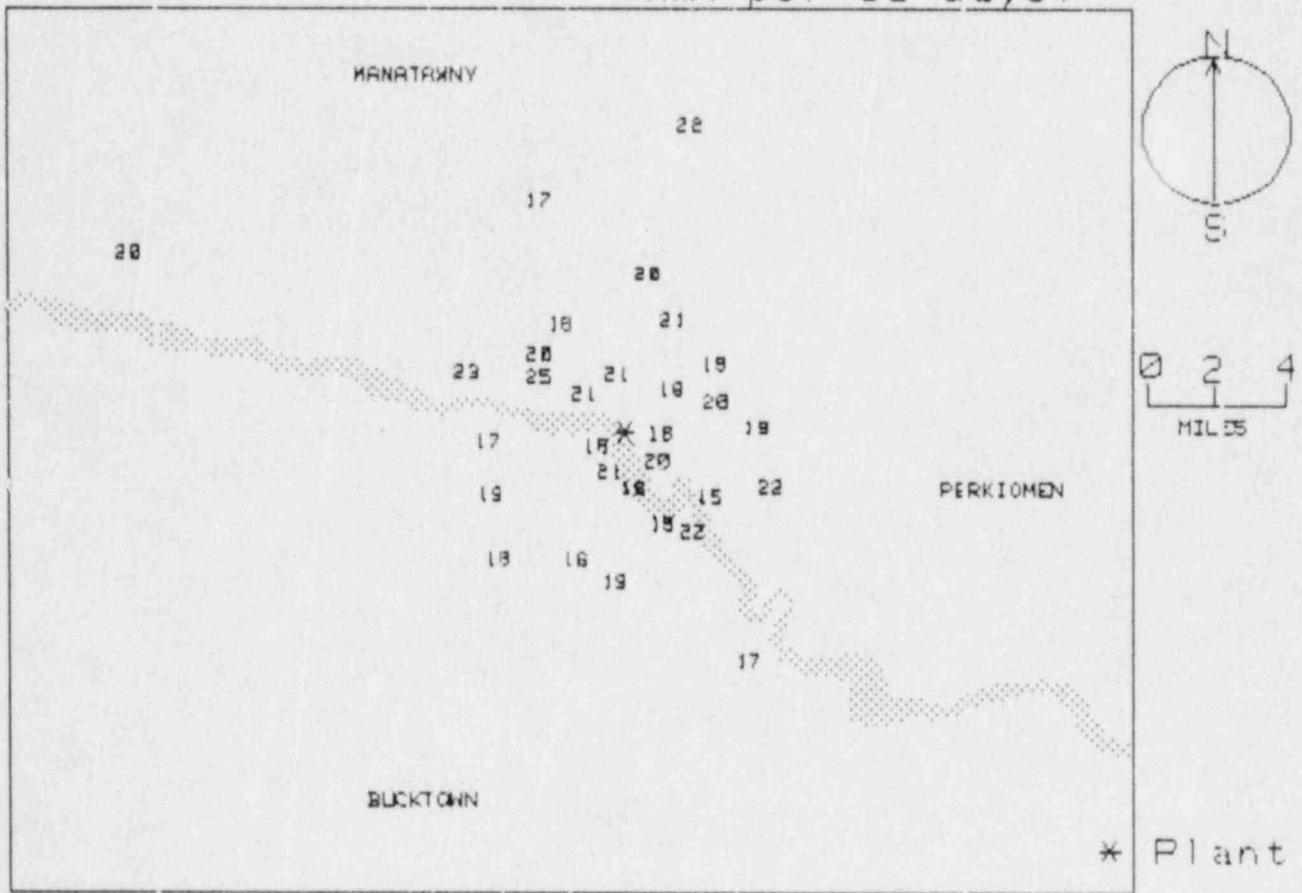
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 18.8 \pm 1.6 | 15 |
| 2-5 | 19.7 \pm 2.4 | 17 |
| >5 | 18.4 \pm 2.3 | 4 |
| UPWIND CONTROL DATA | 21.5 \pm 1.6 | 3 |

LIMERICK

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|------------------------------|
| 1 | 9.0 | 12 | THOMPSON RESIDENCE |
| 3 | 3.7 | 88 | CEMETERY RT.422 |
| 4 | 3.2 | 52 | HOFFMAN NURSERY |
| 5 | 3.5 | 23 | FAUST RD.&SWAMP PIKE |
| 6 | 4.6 | 8 | FIRE CO.(SWAMP PIKE) |
| 7 | 7.1 | 340 | S. MADISON ST.(FIELD) |
| 8 | 3.6 | 330 | SMITH RESIDENCE |
| 9 | 3.3 | 313 | N. END FIRE CO. |
| 10 | 4.8 | 291 | PRINCE ST. |
| 11 | 2.9 | 303 | SUBSTATION SHERIDAN ST. |
| 12 | 1.6 | 314 | POTTSTOWN MEDICAL CTR. |
| 13 | 1.7 | 352 | POTTSGROVE ELEM. SCH. |
| 14 | 1.3 | 339 | SANATOGA FIRE CO. |
| 15 | 1.8 | 47 | SAWCHUK'S GARAGE |
| 16 | 2.7 | 71 | LIMERICK TWP.MUNICIPAL BLDG. |
| 17 | .4 | 17 | LIMERICK PLANT ENTRANCE |
| 18 | .5 | 286 | W. KULP RESIDENCE |
| 19 | .6 | 276 | NEAR RR TRACKS |
| 20 | .9 | 245 | EASTERN WAREHOUSES |
| 21 | 1.0 | 224 | SANATOGA RD. |
| 22 | 1.2 | 202 | CHEVRON STATION |
| 23 | 1.6 | 172 | BUS STOP/UTILITY POLE |
| 24 | 1.7 | 150 | MOBILE STATION |
| 25 | 1.2 | 132 | LIMERICK CTR. RD. |
| 26 | 1.2 | 120 | BROWNBACK RD. |
| 27 | 1.0 | 160 | HOUSE #68(LONGVIEW RD.) |
| 28 | 1.0 | 91 | EVANS CREEK |
| 29 | .7 | 67 | BESSE BELL FARM |
| 30 | 3.4 | 146 | PENNHURST ENTRANCE |
| 31 | 2.8 | 158 | PENNHURST RESERVOIR |
| 32 | 7.4 | 152 | SUBSTATION(WHEATLAND ST.) |
| 33 | 4.3 | 184 | SEVEN STARS INN |
| 34 | 3.9 | 201 | RIDGE FIRE CO. |
| 35 | 5.1 | 225 | RIDGE RESTAURANT |
| 36 | 4.2 | 245 | DRIVING RANGE |
| 37 | 3.9 | 266 | CEDARVILLE RD. |
| 38 | 15.0 | 290 | DANIEL BOONE HOMESTEAD |
| 39 | 15.0 | 290 | DANIEL BOONE HOMESTEAD |
| 40 | 15.0 | 290 | DANIEL BOONE HOMESTEAD |
| 41 | 3.0 | 128 | STECKEL RESIDENCE |
| 42 | 4.4 | 111 | MINGO CHURCH |

NRC TLD DOSES FOR LIMERICK AREA (mR per 90 days)



MAINE YANKEE
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870918-880125 130 DAYS
 FIELD TIME 92 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE(mR) | | NET EXPOSURE RATE | |
|----------------|----------------|------------|------------------------------|------|-------------------|-------------|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | Tot. | mR/Std. Qtr. | + Rdm; Tot. |
| 001 | 340 | 1. | 23.3 | 3.5 | 18.4 | 6.2 |
| 002 | 6 | 1.4 | MISSING OR DAMAGED DOSIMETER | | | |
| 003 | 23 | 1.5 | 22.8 | 3.3 | 17.2 | 6.1 |
| 004 | 44 | 1.8 | 20.8 | 3.1 | 15.9 | 6.0 |
| 005 | 116 | .5 | 22.8 | 3.4 | 17.9 | 6.1 |
| 006 | 168 | 1 | 23.2 | 3.4 | 18.3 | 6.1 |
| 007 | 185 | 1.6 | 21.1 | 3.3 | 16.3 | 6.0 |
| 008 | 195 | 2.3 | 23.1 | 3.3 | 18.2 | 6.0 |
| 009 | 209 | 3.0 | 23.5 | 3.3 | 18.6 | 6.0 |
| 010 | 310 | 1.7 | 23.9 | 3.3 | 19.3 | 6.0 |
| 011 | 298 | 1.8 | 27.1 | 4.1 | 22.1 | 6.0 |
| 012 | 275 | 1.7 | 25.2 | 3.3 | 20.3 | 6.0 |
| 013 | 256 | 1.9 | MISSING OR DAMAGED DOSIMETER | | | |
| 014 | 232 | 2.5 | 23.2 | 3.3 | 18.3 | 6.0 |
| 015 | 227 | 3.3 | 23.6 | 3.3 | 18.7 | 6.0 |
| 016 | 246 | 4.4 | 27.4 | 4.1 | 22.4 | 6.0 |
| 017 | 258 | 6.6 | 29.7 | 4.3 | 24.7 | 6.0 |
| 018 | 268 | 4.4 | 24.1 | 3.3 | 19.2 | 6.0 |
| 019 | 283 | 4.4 | 23.7 | 3.3 | 18.8 | 6.0 |
| 020 | 385 | 4.4 | 24.6 | 3.3 | 19.7 | 6.0 |
| 021 | 388 | 2.9 | 24.6 | 3.3 | 19.7 | 6.0 |
| 022 | 332 | 2.7 | 25.2 | 3.3 | 20.3 | 6.0 |
| 023 | 28 | 3.9 | 24.5 | 3.3 | 19.6 | 6.0 |
| 024 | 23 | 3 | 23.1 | 3.3 | 18.3 | 6.0 |
| 025 | 42 | 4.7 | 24.2 | 3.3 | 19.3 | 6.0 |
| 026 | 68 | 15.7 | 23.9 | 3.3 | 19.3 | 6.0 |
| 027 | 62 | 16. | 23.4 | 3.3 | 18.9 | 6.0 |
| 028 | 63 | 16. | 22.6 | 3.4 | 17.7 | 6.0 |
| 029 | 64 | 2.1 | MISSING OR DAMAGED DOSIMETER | | | |
| 030 | 84 | 1.5 | MISSING OR DAMAGED DOSIMETER | | | |
| 031 | 115 | 1.6 | MISSING OR DAMAGED DOSIMETER | | | |
| 032 | 135 | 2.5 | MISSING OR DAMAGED DOSIMETER | | | |
| 033 | 66 | 3.5 | 24.4 | 3.3 | 19.5 | 6.0 |
| 034 | 97 | 4.9 | 24.8 | 3.3 | 19.5 | 6.0 |
| 035 | 123 | 4.9 | 25.1 | 3.3 | 19.8 | 6.0 |
| 036 | 148 | 4.9 | 23.3 | 3.3 | 18.4 | 6.0 |
| 037 | 151 | 6 | 23.3 | 3.3 | 17.7 | 6.0 |
| 038 | 152 | 4.4 | 23.7 | 3.3 | 18.4 | 6.0 |
| 039 | 172 | 4.4 | 24.4 | 3.3 | 19.3 | 6.0 |
| 040 | 156 | 7.4 | 23.3 | 3.3 | 18.4 | 6.0 |
| TRANSIT DOSE = | | | 4.5 | 3.4 | 5.3 | |

MAINE YANKEE
FOR THE PERIOD 870918-880125

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | NO DATA+-NO DATA | 0 |
| 11.25-33.75 (NNE) | 18.3 \pm 1.2 | 3 |
| 33.75-56.25 (NE) | 17.8 \pm 2.4 | 2 |
| 56.25-78.75 (ENE) | 19.5 \pm 0.0 | 1 |
| 78.75-101.25 (E) | 19.8 \pm 0.0 | 1 |
| 101.25-123.75 (ESE) | 19.0 \pm 1.6 | 2 |
| 123.75-146.25 (SE) | 18.4 \pm 0.0 | 1 |
| 146.25-168.75 (SSE) | 18.2 \pm .6 | 4 |
| 168.75-191.25 (S) | 17.8 \pm 2.4 | 2 |
| 191.25-213.75 (SSW) | 18.4 \pm .3 | 2 |
| 213.75-236.25 (SW) | 18.5 \pm .3 | 2 |
| 236.25-258.75 (WSW) | 23.8 \pm 1.6 | 2 |
| 258.75-281.25 (W) | 19.7 \pm .8 | 2 |
| 281.25-303.75 (WNW) | 20.2 \pm 1.7 | 3 |
| 303.75-326.25 (NW) | 19.3 \pm .5 | 2 |
| 326.25-348.75 (NNW) | 19.3 \pm 1.3 | 2 |
| | | |

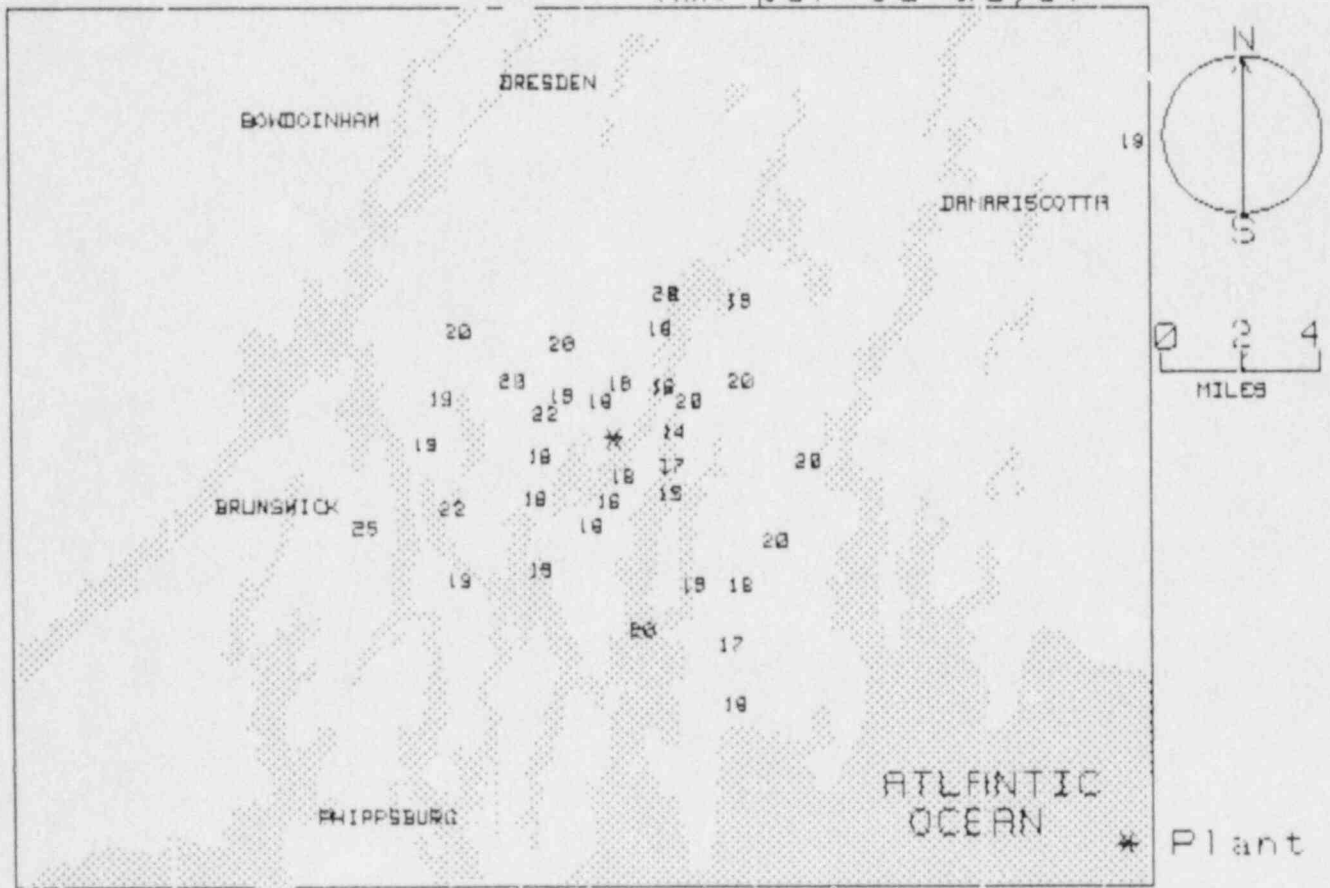
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 18.4 \pm 1.9 | 9 |
| 2-5 | 19.4 \pm 1.0 | 10 |
| >5 | 19.8 \pm 3.3 | 4 |
| UPWIND CONTROL DATA | 18.4 \pm .6 | 3 |

MAINE YANKEE

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|--|
| 1 | 1.0 | 340 | ACCESS RD. & RT. 144 |
| 2 | 1.4 | 6 | RT. 144 |
| 3 | 1.5 | 23 | RT. 144 |
| 4 | 1.8 | 44 | OLD RT. 144 & RT. 144 |
| 5 | .5 | 116 | RT. 144 |
| 6 | 1.0 | 168 | WEST PORT VOLUNTEER |
| 7 | 1.6 | 185 | RT. 144 |
| 8 | 2.3 | 195 | BAY SHORE RD. |
| 9 | 3.8 | 209 | HARRISON'S TRAILER |
| 10 | 1.7 | 310 | MONTSWEG BROOK |
| 11 | 1.8 | 290 | RT. 1 & MONTSWEG RD. |
| 12 | 1.7 | 275 | MONTSWEG RD. |
| 13 | 1.9 | 256 | MONTSWEG RD. |
| 14 | 2.5 | 232 | MURPHY'S CORNER |
| 15 | 5.3 | 227 | HOCKOMOCK RD. |
| 16 | 4.4 | 246 | MURPHY'S CORNER RD. |
| 17 | 6.6 | 250 | BATH FIRE STATION |
| 18 | 4.7 | 268 | RT. 127 |
| 19 | 4.4 | 283 | RT. 127 & OLD STAGE RD. |
| 20 | 4.7 | 305 | RT. 127 & DANA HILL RD. |
| 21 | 2.9 | 300 | OLD STAGE RD. & MEADOW RD. |
| 22 | 2.7 | 332 | OLD STAGE RD. |
| 23 | 3.9 | 20 | WISCASSET COURT HOUSE |
| 24 | 3.0 | 23 | MASON STATION |
| 25 | 4.7 | 42 | RT. 1 & RT. 27 |
| 26 | 15.0 | 60 | UWC (WALDOBORO) |
| 27 | 16.0 | 62 | UWC (WALDOBORO) |
| 28 | 16.0 | 63 | UWC (WALDOBORO) |
| 29 | 2.1 | 64 | CROSS POINT RD. |
| 30 | 1.5 | 84 | CROSS POINT RD. |
| 31 | 1.6 | 115 | CROSS POINT RD. & MILL RD. |
| 32 | 2.0 | 135 | CROSS POINT RD. |
| 33 | 3.5 | 66 | EDGEComb FIRE CO. |
| 34 | 4.9 | 97 | RIVER RD. |
| 35 | 4.8 | 123 | RIVER RD. & RT. 27 |
| 36 | 4.9 | 140 | ADAMS POND RD. & DOVER RD. |
| 37 | 6.0 | 151 | INTERSECTION OF RT. 27 (BACK RIVER RD. & COREY |
| 38 | 4.2 | 152 | BACK RIVER RD. & GRAY RD. |
| 39 | 4.9 | 172 | BARTERS ISLAND |
| 40 | 7.4 | 156 | BOOTHBAY FIRE STATION |

NRC TLD DOSES FOR MAINE YANKEE AREA (mR per 90 days)



MCGUIRE
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870914-880126 135 DAYS
 FIELD TIME 89 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|----------------|-------------------|---------------|------------------------------|-------------|-----------------------------|-------------|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm; Tot. | - Rdm; Tot. | mR/Std. Qtr. + Rdm; Tot. | - Rdm; Tot. |
| 001 | 97 | 0.5 | 21.8 | +- | 18.0 | +- |
| 002 | 323 | 1.6 | 21.8 | +- | 18.1 | +- |
| 003 | 336 | 1.7 | 25.1 | +- | 21.4 | +- |
| 004 | 303 | 2.9 | 20.9 | +- | 17.1 | +- |
| 005 | 321 | 3.9 | 21.2 | +- | 17.4 | +- |
| 006 | 334 | 3.7 | 21.4 | +- | 17.7 | +- |
| 007 | 352 | 3.5 | 20.9 | +- | 17.1 | +- |
| 008 | 287 | 2.0 | MISSING OR DAMAGED DOSIMETER | | | |
| 009 | 273 | 1.9 | 18.1 | +- | 14.2 | +- |
| 010 | 244 | 1.7 | 22.3 | +- | 18.6 | +- |
| 011 | 225 | 2.1 | 19.9 | +- | 17.1 | +- |
| 012 | 212 | 3.6 | 22.0 | +- | 17.1 | +- |
| 013 | 232 | 4.4 | 26.4 | +- | 22.7 | +- |
| 014 | 253 | 3.7 | 24.7 | +- | 21.0 | +- |
| 015 | 261 | 4.2 | 20.7 | +- | 17.0 | +- |
| 016 | 280 | 4.3 | 20.9 | +- | 17.5 | +- |
| 017 | 280 | 17.7 | 20.9 | +- | 26.3 | +- |
| 018 | 287 | 2.0 | 20.9 | +- | 26.3 | +- |
| 019 | 286 | 17.7 | 20.9 | +- | 22.0 | +- |
| 020 | 233 | 10. | 27.0 | +- | 24.2 | +- |
| 021 | 284 | 10. | 20.1 | +- | 24.4 | +- |
| 022 | 239 | 10. | 21.0 | +- | 18.1 | +- |
| 023 | 115 | 4.9 | MISSING OR DAMAGED DOSIMETER | | | |
| 024 | 132 | 4.9 | 17.9 | +- | 14.1 | +- |
| 025 | 152 | 4.9 | 18.0 | +- | 14.2 | +- |
| 026 | 156 | 4.0 | 18.3 | +- | 14.5 | +- |
| 027 | 175 | 3.7 | 18.0 | +- | 14.7 | +- |
| 028 | 198 | 4.3 | 26.2 | +- | 22.5 | +- |
| 029 | 169 | 13.7 | 21.2 | +- | 17.4 | +- |
| 030 | 155 | 13. | 20.0 | +- | 16.3 | +- |
| 031 | 146 | 14. | 20.2 | +- | 16.4 | +- |
| 032 | 143 | 1.9 | 19.9 | +- | 16.0 | +- |
| 033 | 155 | 3.3 | 21.4 | +- | 17.7 | +- |
| 034 | 178 | 1.1 | 16.5 | +- | 12.7 | +- |
| 035 | 180 | 2.0 | 20.3 | +- | 16.6 | +- |
| 036 | 99 | 2.2 | 20.0 | +- | 17.0 | +- |
| 037 | 60 | 2.2 | 19.0 | +- | 15.7 | +- |
| 038 | 62 | 4.7 | 19.0 | +- | 16.0 | +- |
| 039 | 64 | 4.9 | 21.0 | +- | 17.0 | +- |
| 040 | 66 | 4.3 | MISSING OR DAMAGED DOSIMETER | | | |
| 041 | 62 | 2.0 | 19.0 | +- | 15.0 | +- |
| 042 | 21 | 1.1 | 20.0 | +- | 16.0 | +- |
| 043 | 21 | 2.0 | 20.0 | +- | 19.0 | +- |
| 044 | 77 | 13. | 20.0 | +- | 22.0 | +- |
| 045 | 70 | 19.7 | 20.0 | +- | 27.0 | +- |
| 046 | 94 | 19.7 | 20.0 | +- | 19.0 | +- |
| TRANSIT DOSE = | 3.9 | +- | 0.3 | | | |

MCGUIRE
FOR THE PERIOD 870914-880126

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 18.2 \pm 1.5 | 2 |
| 11.25-33.75 (NNE) | 16.8 \pm 0.0 | 1 |
| 33.75-56.25 (NE) | 19.8 \pm 3.5 | 3 |
| 56.25-78.75 (ENE) | 20.3 \pm 6.2 | 3 |
| 78.75-101.25 (E) | 17.8 \pm 1.6 | 4 |
| 101.25-123.75 (ESE) | 15.3 \pm 1.8 | 2 |
| 123.75-146.25 (SE) | 15.6 \pm 1.2 | 3 |
| 146.25-168.75 (SSE) | 16.2 \pm 1.6 | 3 |
| 168.75-191.25 (S) | 14.8 \pm 2.4 | 3 |
| 191.25-213.75 (SSW) | 19.2 \pm 2.9 | 3 |
| 213.75-236.25 (SW) | 21.4 \pm 3.0 | 3 |
| 236.25-258.75 (WSW) | 19.8 \pm 1.7 | 2 |
| 258.75-281.25 (W) | 15.6 \pm 1.9 | 2 |
| 281.25-303.75 (WNW) | 21.3 \pm 5.9 | 2 |
| 303.75-326.25 (NW) | 17.8 \pm .5 | 2 |
| 326.25-348.75 (NNW) | 19.6 \pm 2.6 | 2 |
| | | |

| DISTANCE (mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|--------------------------------|---|------------|
| 0-2 | 16.9 \pm 2.3 | 11 |
| 2-5 | 18.0 \pm 3.1 | 21 |
| >5 | 20.3 \pm 4.0 | 8 |
| UPWIND CONTROL DATA | 24.4 \pm 1.7 | 3 |

MCGUIRE

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|-------------------------------------|
| 1 | .5 | 97 | SITE RD. (S. OF ENVIR. LAB.) |
| 2 | 1.6 | 323 | RT. 1395 (1.6 MILES N. OF RT. 73) |
| 3 | 1.7 | 336 | RT. 1393 (0.4 MILES E. OF RT. 1395) |
| 4 | 2.9 | 303 | THE STUOLIO |
| 5 | 3.9 | 321 | DELLINGER HEATING & AC |
| 6 | 3.7 | 334 | OLD EBENEZER CH. |
| 7 | 3.3 | 352 | HOLIDAY LAND FAMILY CAMPING RESORT |
| 8 | 2.0 | 287 | RT. 73 (0.1 MILES E. OF RT. 1396) |
| 9 | 1.9 | 273 | MARTHA'S CHAPEL (REAR OF LOT) |
| 10 | 1.7 | 244 | RT. 1396 (0.2 MILES S. OF RT. 1397) |
| 11 | 2.1 | 225 | RT. 1396 AT RAILROAD TRACKS |
| 12 | 3.6 | 212 | RT. 1396 NEAR JOHNSON CR. |
| 13 | 4.4 | 232 | CASTANEA CH. |
| 14 | 3.7 | 253 | CAROLINA BANK OF LOWESVILLE |
| 15 | 4.2 | 261 | 0.7 MILES W. OF RT. 16 & HILLS CH. |
| 16 | 4.3 | 288 | LINCOLN HIGH SCHOOL |
| 17 | 17.0 | 288 | RT. 321 & RT. 1281 |
| 18 | 2.0 | 287 | RT. 73 (0.1 MILES E.) |
| 19 | 17.0 | 286 | McKENDREE CH. |
| 20 | 18.0 | 233 | GASTONIA (McDONALDS) |
| 21 | 10.0 | 204 | MT. HOLLY SCH. |
| 22 | 9.5 | 239 | KISER SCHOOL (STANLEY) |
| 23 | 4.9 | 115 | RT. 2138 (0.1 MILES) |
| 24 | 4.9 | 132 | RT. 2138 & RT. 2117 |
| 25 | 4.0 | 156 | RT. 2074 & RT. 2128 |
| 26 | 3.7 | 175 | McDOWELL CR. |
| 27 | 4.3 | 198 | END OF RT. 2074 |
| 28 | 13.0 | 169 | BROWNS AVE. (CHARLOTTE) |
| 29 | 13.0 | 155 | BEATTIES FORD RD. (CHARLOTTE) |
| 30 | 14.0 | 146 | GRAHAM ST. (CHARLOTTE) |
| 31 | 1.9 | 143 | UNION GROVE CH. |
| 32 | 1.3 | 155 | RT. 2133 (0.9 MILES W. OF RT. 2128) |
| 33 | 1.6 | 178 | RT. 2133 (1.5 MILES W. OF RT. 2128) |
| 34 | 2.0 | 108 | GILEAD VOLUNTEER FIRE DEPT. |
| 35 | 2.2 | 93 | RT. 73 & TERRY LANE |
| 36 | 2.5 | 68 | NORMAN ISLAND DR. |
| 37 | 4.7 | 82 | RT. 21 & RT. 2145 |
| 38 | 4.9 | 64 | RT. 21 & RT. 2147 |
| 39 | 5.0 | 42 | ANCHORAGE SHIPYARD |
| 40 | 4.3 | 26 | BETHEL CH. RD. & STAGHORN (T. |
| 41 | 2.0 | 42 | RT. 2149 (1.1 MILES S. OF RT. 2151) |
| 42 | 1.6 | 21 | MOLLYPOP LANE |
| 43 | 2.6 | 8 | JETTON RD. & CASUAL CAY RD. |
| 44 | 13.0 | 37 | MOORESVILLE RAILROAD CROSSING |
| 45 | 19.0 | 78 | N. KANNAPOLIS METHODIST CH. |
| 46 | 19.0 | 94 | CONCORD |

MAP FOR MCGUIRE

Map will be provided for this site in the future.

MILLSTONE
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870918-880125 130 DAYS
 FIELD TIME 98 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|----------------|-------------------|---------------|---------------------|-----------|-------------------|---------------|
| | AZIMUTH (deg.) | DIST (mi.) | + - | Rdm; Tot. | mR/Std. Dtr. | + - Rdm; Tot. |
| 001 | 0 | 1 | 25.8 | +- | 0.0 | 0.0 |
| 002 | 24 | 1.3 | 18.7 | +- | 0.0 | 0.0 |
| 003 | 47 | 1.5 | 24.1 | +- | 0.0 | 0.0 |
| 004 | 60 | 1.7 | 24.2 | +- | 0.0 | 0.0 |
| 005 | 85 | 1.3 | 22.7 | +- | 0.0 | 0.0 |
| 006 | 110 | 1.0 | 23.1 | +- | 0.0 | 0.0 |
| 007 | 67 | 0.5 | 23.6 | +- | 0.0 | 0.0 |
| 008 | 49 | 0.5 | 24.3 | +- | 0.0 | 0.0 |
| 009 | 84 | 0.5 | 21.5 | +- | 0.0 | 0.0 |
| 011 | 232 | 0.5 | 21.3 | +- | 0.0 | 0.0 |
| 012 | 256 | 0.4 | 22.3 | +- | 0.0 | 0.0 |
| 013 | 274 | 0.2 | 22.4 | +- | 0.0 | 0.0 |
| 014 | 295 | 1.1 | 22.5 | +- | 0.0 | 0.0 |
| 015 | 315 | 1.1 | 22.6 | +- | 0.0 | 0.0 |
| 016 | 339 | 1.1 | 22.7 | +- | 0.0 | 0.0 |
| 017 | 359 | 0.5 | 22.8 | +- | 0.0 | 0.0 |
| 018 | 34 | 0.3 | 22.4 | +- | 0.0 | 0.0 |
| 019 | 33 | 0.4 | 22.5 | +- | 0.0 | 0.0 |
| 020 | 32 | 0.4 | 22.7 | +- | 0.0 | 0.0 |
| 022 | 39 | 0.7 | 22.8 | +- | 0.0 | 0.0 |
| 028 | 37 | 0.5 | 22.7 | +- | 0.0 | 0.0 |
| 029 | 37 | 0.5 | 22.8 | +- | 0.0 | 0.0 |
| 030 | 39 | 0.5 | 22.8 | +- | 0.0 | 0.0 |
| 031 | 31 | 0.3 | 22.8 | +- | 0.0 | 0.0 |
| 032 | 27 | 0.4 | 22.8 | +- | 0.0 | 0.0 |
| 033 | 41 | 0.4 | 22.4 | +- | 0.0 | 0.0 |
| 034 | 54 | 0.5 | 22.4 | +- | 0.0 | 0.0 |
| 037 | 35 | 0.3 | 22.6 | +- | 0.0 | 0.0 |
| 039 | 1 | 0.5 | 22.8 | +- | 0.0 | 0.0 |
| 040 | 278 | 0.7 | 22.2 | +- | 0.0 | 0.0 |
| 041 | 34 | 1.1 | 22.9 | +- | 0.0 | 0.0 |
| 042 | 84 | 0.0 | 22.4 | +- | 0.0 | 0.0 |
| 046 | 41 | 0.6 | 22.4 | +- | 0.0 | 0.0 |
| 048 | 4 | 4.0 | 22.4 | +- | 0.0 | 0.0 |
| 049 | 4 | 4.0 | 22.7 | +- | 0.0 | 0.0 |
| TRANSIT DOSE = | 1.4 | +- | 0.3 | | | |

MILLSTONE
FOR THE PERIOD 870918-880125

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 20.2 \pm 1.6 | 4 |
| 11.25-33.75 (NNE) | 19.4 \pm 3.1 | 3 |
| 33.75-56.25 (NE) | 21.9 \pm 2.0 | 6 |
| 56.25-78.75 (ENE) | 19.6 \pm 1.9 | 3 |
| 78.75-101.25 (E) | 20.3 \pm 1.7 | 4 |
| 101.25-123.75 (ESE) | 19.9 \pm 0.0 | 1 |
| 123.75-146.25 (SE) | NO DATA+-NO DATA | 0 |
| 146.25-168.75 (SSE) | NO DATA+-NO DATA | 0 |
| 158.75-191.25 (S) | NO DATA+-NO DATA | 0 |
| 191.25-213.75 (SSW) | NO DATA+-NO DATA | 0 |
| 213.75-236.25 (SW) | 19.3 \pm 0.0 | 1 |
| 236.25-258.75 (WSW) | 20.7 \pm 1.7 | 2 |
| 258.75-281.25 (W) | 21.1 \pm 1.8 | 3 |
| 281.25-303.75 (WNW) | 22.2 \pm .5 | 2 |
| 303.75-326.25 (NW) | 17.6 \pm 2.5 | 2 |
| 326.25-348.75 (NNW) | 20.8 \pm 2.4 | 2 |
| | | |

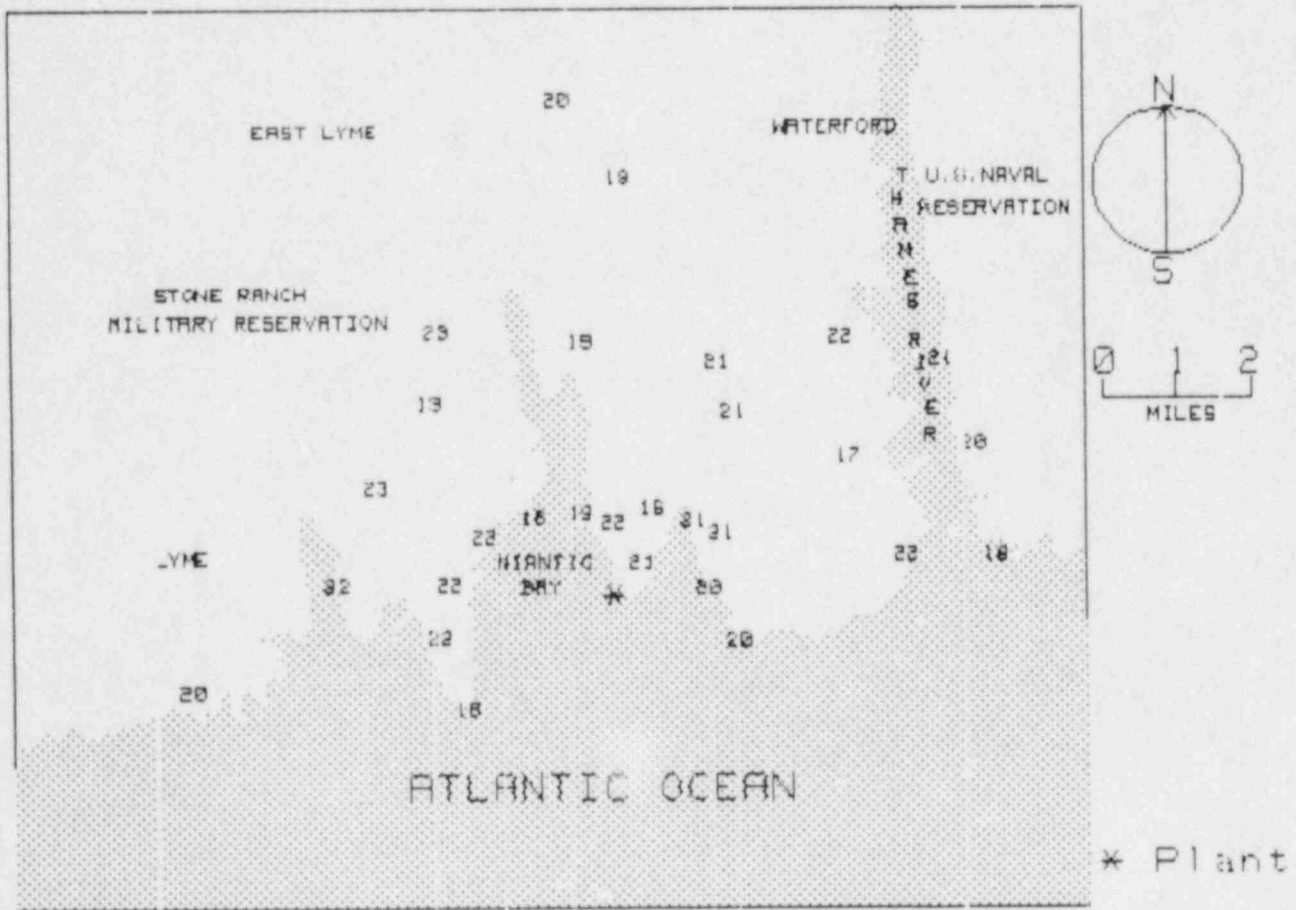
| DISTANCE (mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|--------------------------------|---|------------|
| 0-2 | 19.7 \pm 2.3 | 10 |
| 2-5 | 20.9 \pm 1.8 | 13 |
| >5 | 20.6 \pm 2.2 | 10 |
| UPWIND CONTROL DATA | 26.3 \pm 1.8 | 2 |

MILLSTONE

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|------------------------------|
| 1 | 1.0 | 0 | ALBACORE DRIVE |
| 2 | 1.3 | 24 | GARDNERS WOOD ROAD |
| 3 | 1.5 | 47 | LAMPHERE ROAD |
| 4 | 1.7 | 60 | NEW LONDON COUNTRY CLUB |
| 5 | 1.3 | 85 | PLEASURE BEACH FIRE STATION |
| 6 | 1.8 | 110 | SEASIDE POINT |
| 7 | 5.3 | 67 | EASTERN POINT SCHOOL |
| 8 | 5.3 | 49 | NEW LONDON PIER |
| 9 | 5.2 | 84 | EVERY POINT |
| 11 | 2.5 | 232 | OLD BLACK POINT ROAD |
| 12 | 2.4 | 256 | BILLOW ROAD |
| 13 | 2.2 | 274 | TERRACE ROAD |
| 14 | 1.9 | 295 | COLUMBUS AVENUE |
| 15 | 1.5 | 315 | SMITH AVE. |
| 16 | 1.2 | 339 | HILLYER'S BAIT SHOP |
| 17 | 3.5 | 353 | OSWEGATCHIE FIRE STATION |
| 18 | 3.5 | 24 | FOY PLAIN ROAD |
| 19 | 3.0 | 33 | WATERFORD POLICE DEPT. |
| 20 | 4.0 | 82 | NEW LONDON LIGHT HOUSE |
| 22 | 3.7 | 59 | LAWRENCE HOSPITAL |
| 28 | 5.8 | 257 | POLICE STA.-SOUND VIEW |
| 29 | 3.7 | 272 | GIANTS NECK ROAD |
| 30 | 3.5 | 295 | COREY LN. |
| 31 | 3.6 | 317 | EAST LYME HIGH SCHOOL |
| 32 | 4.3 | 327 | FLANDERS SUB. |
| 33 | 4.7 | 41 | HIGH SCHOOL-NEW LONDON |
| 34 | 5.5 | 54 | FORT GRISWOLD |
| 37 | 6.8 | 354 | KONOMOC RESERVOIR |
| 39 | 5.7 | 1 | WATERFORD MAINTENANCE GARAGE |
| 40 | 8.7 | 278 | OLD LYME SUB. |
| 41 | 11.0 | 34 | STODDARDS WHARF ROAD |
| 42 | 8.0 | 84 | MUMFORD COVE |
| 46 | .6 | 41 | GUNSHOT RD-POLE #3735 |
| 48 | 40.0 | 4 | ASHFORD/CONN |
| 49 | 40.0 | 4 | ASHFORD/CONN |

NRC TLD DOSES FOR MILLSTONE AREA (mR per 90 days)



MONTICELLO
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870916-880127 134 DAYS
 FIELD TIME 92 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE(mR) | | NET EXPOSURE RATE | | |
|----------------|-------------------|---------------|-----------------------|------------|-----------------------|-------|-----|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | Tot. | mR/Std. Dtr. + Rdm | Tot. | |
| 001 | 133 | 3.6 | 21.0 | +- .6 | 16.1 | +- .7 | 6.0 |
| 002 | 163 | 4.6 | 22.5 | +- .7 | 17.6 | +- .8 | 6.1 |
| 003 | 183 | 4.1 | 23.4 | +- .7 | 18.4 | +- .8 | 6.2 |
| 004 | 206 | 4.3 | 22.2 | +- .7 | 17.3 | +- .7 | 6.1 |
| 005 | 230 | 4.2 | 24.2 | +- .7 | 19.2 | +- .8 | 6.3 |
| 006 | 253 | 4.6 | 22.4 | +- .7 | 17.4 | +- .7 | 6.1 |
| 007 | 269 | 4.4 | 21.7 | +- .7 | 16.8 | +- .7 | 6.1 |
| 008 | 286 | 4.0 | 22.0 | +- .7 | 17.1 | +- .7 | 6.1 |
| 009 | 274 | 1.9 | 22.4 | +- .7 | 17.4 | +- .7 | 6.1 |
| 010 | 244 | 1.3 | 20.2 | +- .6 | 15.3 | +- .6 | 6.0 |
| 011 | 226 | 0.9 | 22.2 | +- .7 | 17.2 | +- .7 | 6.1 |
| 012 | 181 | 1.8 | 22.0 | +- .7 | 17.1 | +- .7 | 6.1 |
| 013 | 137 | 1.7 | 21.3 | +- .6 | 16.4 | +- .6 | 6.1 |
| 014 | 155 | 1.0 | 20.9 | +- .6 | 16.0 | +- .6 | 6.0 |
| 015 | 208 | 0.6 | 21.6 | +- .6 | 16.7 | +- .6 | 6.1 |
| 016 | 284 | 2.0 | 21.6 | +- .6 | 16.6 | +- .6 | 6.1 |
| 017 | 113 | 1.6 | 22.0 | +- .7 | 17.0 | +- .7 | 6.1 |
| 018 | 85 | 1.1 | 22.1 | +- .7 | 17.2 | +- .7 | 6.1 |
| 019 | 63 | 1.0 | 22.0 | +- .7 | 17.1 | +- .7 | 6.1 |
| 020 | 37 | 1.0 | 21.0 | +- .6 | 16.0 | +- .6 | 6.0 |
| 021 | 33 | 0.0 | 21.0 | +- .6 | 16.0 | +- .6 | 6.0 |
| 022 | 354 | 0.0 | 21.0 | +- .6 | 16.0 | +- .6 | 6.0 |
| 023 | 338 | 0.0 | 22.0 | +- .7 | 17.0 | +- .7 | 6.1 |
| 024 | 307 | 1.0 | 21.0 | +- .6 | 16.0 | +- .6 | 6.0 |
| 025 | 339 | 4.4 | 21.0 | +- .6 | 16.0 | +- .6 | 6.0 |
| 026 | 320 | 4.4 | 21.0 | +- .6 | 16.0 | +- .6 | 6.0 |
| 027 | 354 | 4.4 | 21.0 | +- .6 | 16.0 | +- .6 | 6.0 |
| 028 | 17 | 0.0 | 21.0 | +- .6 | 16.0 | +- .6 | 6.0 |
| 029 | 50 | 4.4 | 19.4 | +- .6 | 14.4 | +- .5 | 5.0 |
| 030 | 77 | 0.0 | 21.0 | +- .6 | 16.0 | +- .6 | 6.0 |
| 031 | 115 | 0.0 | 21.0 | +- .6 | 16.0 | +- .6 | 6.0 |
| 032 | 90 | 4.6 | MISSING | OR DAMAGED | DIOSIMETER | | |
| 033 | 323 | 1.6 | 21.1 | +- .6 | 16.1 | +- .7 | 6.0 |
| 034 | 323 | 1.6 | 21.7 | +- .6 | 16.7 | +- .7 | 6.1 |
| 035 | 323 | 1.6 | 21.0 | +- .6 | 17.0 | +- .8 | 6.2 |
| TRANSIT DOSE = | | 4.6 +- .4 | | | | | |

MONTICELLO
FOR THE PERIOD 870916-880127

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 17.2 \pm 1.0 | 2 |
| 11.25-33.75 (NNE) | 16.4 \pm .2 | 2 |
| 33.75-56.25 (NE) | 15.5 \pm 1.5 | 2 |
| 56.25-78.75 (ENE) | 17.9 \pm 1.3 | 2 |
| 78.75-101.25 (E) | 17.2 \pm 0.0 | 1 |
| 101.25-123.75 (ESE) | 16.8 \pm .3 | 2 |
| 123.75-146.25 (SE) | 16.2 \pm .2 | 2 |
| 146.25-168.75 (SSE) | 16.8 \pm 1.1 | 2 |
| 168.75-191.25 (S) | 17.7 \pm .8 | 2 |
| 191.25-213.75 (SSW) | 17.0 \pm .4 | 2 |
| 213.75-236.25 (SW) | 18.2 \pm 1.4 | 2 |
| 236.25-258.75 (WSW) | 16.4 \pm 1.5 | 2 |
| 258.75-281.25 (W) | 17.1 \pm .4 | 2 |
| 281.25-303.75 (WNW) | 16.8 \pm .3 | 2 |
| 303.75-326.25 (NW) | 16.6 \pm .1 | 2 |
| 326.25-348.75 (NNW) | 16.9 \pm 1.4 | 2 |
| | | |

| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 16.8 \pm .8 | 18 |
| 2-5 | 17.0 \pm 1.1 | 15 |
| >5 | NO DATA \pm NO DATA | 0 |
| UPWIND CONTROL DATA | 16.9 \pm .8 | 3 |

MONTICELLO

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|-----------------------------------|
| 1 | 3.6 | 133 | WASHINGTON AVE. |
| 2 | 4.6 | 163 | COUNTY RD 25 |
| 3 | 4.1 | 183 | COUNTY RD. 106 AND CAHILL AVE. |
| 4 | 4.3 | 206 | ACACIA AVE. |
| 5 | 4.2 | 230 | VANLITH RESIDENCE |
| 6 | 4.6 | 253 | COUNTY RD. 111 |
| 7 | 4.4 | 269 | COUNTY RD. 111 (NEAR CHURCH) |
| 8 | 4.0 | 286 | W. BERGGUIST PROPERTY |
| 9 | 1.9 | 274 | SECTION 31 (T. 122 N. - R. 25 W.) |
| 10 | 1.3 | 244 | ORCHARD DR. |
| 11 | .9 | 226 | ORCHARD DR. |
| 12 | 1.8 | 181 | INTERSECTION COUNTY RD. 39 |
| 13 | 1.7 | 137 | OTTERCREEK RD. |
| 14 | 1.0 | 155 | W. RIVER ST./COUNTY RD. 75 |
| 15 | .6 | 208 | 120TH STREET, N.E. & RD. 75 |
| 16 | 2.0 | 284 | COUNTY RD. 75 |
| 17 | 1.6 | 113 | COUNTY RD. 11 |
| 18 | 1.1 | 85 | COUNTY RD. 11 |
| 19 | 1.2 | 63 | COUNTY RD. 11 |
| 20 | 1.7 | 37 | COUNTY RD. 11 & 84TH AVE. |
| 21 | .8 | 23 | SHERBURNE AVE(SOUTH) |
| 22 | .7 | 354 | SHERBURNE AVE(SOUTH) |
| 23 | .8 | 338 | SHERBURNE AVE(SOUTH) |
| 24 | 1.8 | 307 | BENCHMARK 948(SHERBURNE AVE) |
| 25 | 4.1 | 339 | PLEASANT ST. |
| 26 | 4.6 | 320 | COUNTY RD. 53 |
| 27 | 4.5 | 354 | COUNTY RD. 67/4 |
| 28 | 3.7 | 17 | COUNTY RD. 11/73 |
| 29 | 4.0 | 50 | COUNTY RD. 73/81 |
| 30 | 3.6 | 77 | COUNTY RD. 73/196TH ST. |
| 31 | 3.3 | 115 | COUNTY RD. 25 NEAR AIRPORT |
| 32 | 4.6 | 90 | LAKE ST./MARTIN AVE. |
| 33 | 16.0 | 323 | COUNTY RD. 3 |
| 34 | 16.0 | 323 | COUNTY RD. 3 |
| 35 | 16.0 | 323 | COUNTY RD. 3 |

MAP FOR MONTICELLO

Map will be provided for this site in the future.

NORTH ANNA
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870917-880126 132 DAYS
 FIELD TIME 85 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|----------------|-------------------|---------------|---------------------|-------------|-----------------------------|-------------|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm; Tot. | - Rdm; Tot. | mR/Std. Qtr. + Rdm; Tot. | - Rdm; Tot. |
| 001 | 243 | 1.8 | 22.5 | 0.7 | 19.7 | 0.0 |
| 002 | 263 | 1.6 | 20.6 | 0.6 | 17.7 | 0.0 |
| 003 | 296 | | 21.4 | 0.6 | 18.7 | 0.0 |
| 004 | 311 | 1.3 | 25.5 | 0.6 | 22.5 | 0.0 |
| 005 | 329 | 1.3 | 21.4 | 0.6 | 18.7 | 0.0 |
| 006 | 231 | 3.9 | 22.8 | 0.7 | 20.5 | 0.0 |
| 007 | 224 | 1.7 | 23.2 | 0.7 | 21.5 | 0.0 |
| 008 | 210 | 1.6 | 19.8 | 0.6 | 15.5 | 0.0 |
| 009 | 181 | 1.4 | 19.7 | 0.6 | 15.5 | 0.0 |
| 010 | 155 | 1.7 | 20.8 | 0.6 | 18.5 | 0.0 |
| 011 | 136 | 1.1 | 21.7 | 0.7 | 19.5 | 0.0 |
| 012 | 163 | 0.8 | 21.6 | 0.6 | 18.5 | 0.0 |
| 013 | 198 | 0.6 | 22.5 | 0.7 | 19.5 | 0.0 |
| 014 | 205 | 4.9 | 21.4 | 0.6 | 18.5 | 0.0 |
| 015 | 148 | 4.2 | 22.1 | 0.7 | 19.5 | 0.0 |
| 016 | 113 | 4.9 | 24.7 | 0.7 | 22.5 | 0.0 |
| 017 | 93 | 0.3 | 18.7 | 0.6 | 15.5 | 0.0 |
| 018 | 64 | 4.1 | 23.3 | 0.7 | 20.5 | 0.0 |
| 019 | 78 | 2.7 | 38.4 | 0.9 | 37.5 | 0.0 |
| 020 | 97 | 1.9 | MISSING OR DAMAGED | DOSEMETER | 1.0 | 0.0 |
| 021 | 105 | 1.7 | 18.4 | 0.6 | 15.5 | 0.0 |
| 022 | 60 | 2.4 | 21.2 | 0.6 | 18.5 | 0.0 |
| 023 | 37 | 1.4 | 22.6 | 0.7 | 19.5 | 0.0 |
| 024 | 16 | 1.6 | 27.5 | 0.8 | 26.5 | 0.0 |
| 025 | 48 | 3.5 | 19.9 | 0.6 | 17.5 | 0.0 |
| 026 | 17 | 3.7 | 22.9 | 0.7 | 20.5 | 0.0 |
| 027 | 3 | 4.8 | MISSING OR DAMAGED | DOSEMETER | 0.0 | 0.0 |
| 028 | 348 | 4 | 21.5 | 0.6 | 18.5 | 0.0 |
| 029 | 2 | 1.9 | 20.2 | 0.6 | 17.5 | 0.0 |
| 030 | 284 | 5 | 21.7 | 0.6 | 18.5 | 0.0 |
| 031 | 310 | 4.7 | 22.4 | 0.7 | 19.5 | 0.0 |
| 032 | 273 | 4.9 | 17.6 | 0.6 | 14.5 | 0.0 |
| 033 | 257 | 5.1 | 22.1 | 0.7 | 19.5 | 0.0 |
| 034 | 242 | 7.1 | 22.3 | 0.7 | 19.5 | 0.0 |
| 035 | 255 | 11 | 24.1 | 0.8 | 21.5 | 0.0 |
| 036 | 248 | 15 | 21.7 | 0.7 | 18.5 | 0.0 |
| 037 | 247 | 17 | 20.4 | 0.6 | 17.5 | 0.0 |
| 038 | 244 | 19 | 20.8 | 0.6 | 17.5 | 0.0 |
| TRANSIT DOSE = | 3.8 | + .3 | 4.8 | 0.6 | 0.0 | 0.0 |

NORTH ANNA
FOR THE PERIOD 870917-880126

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 17.3 \pm 0.0 | 1 |
| 11.25-33.75 (NNE) | 22.8 \pm 3.4 | 2 |
| 33.75-56.25 (NE) | 18.4 \pm 2.0 | 2 |
| 56.25-78.75 (ENE) | 22.3 \pm 5.1 | 3 |
| 78.75-101.25 (E) | 15.7 \pm 0.0 | 1 |
| 101.25-123.75 (ESE) | 18.7 \pm 4.7 | 2 |
| 123.75-146.25 (SE) | 19.1 \pm .3 | 2 |
| 146.25-168.75 (SSE) | 21.1 \pm 3.3 | 2 |
| 168.75-191.25 (S) | 18.3 \pm 2.1 | 2 |
| 191.25-213.75 (SSW) | 17.7 \pm 1.2 | 2 |
| 213.75-236.25 (SW) | 20.3 \pm .3 | 2 |
| 236.25-258.75 (WSW) | 20.0 \pm 1.0 | 4 |
| 258.75-281.25 (W) | 16.1 \pm 2.3 | 2 |
| 281.25-303.75 (WNW) | 16.7 \pm .2 | 2 |
| 303.75-326.25 (NW) | 21.3 \pm 2.3 | 2 |
| 326.25-348.75 (NNW) | 18.6 \pm .1 | 2 |
| | | |

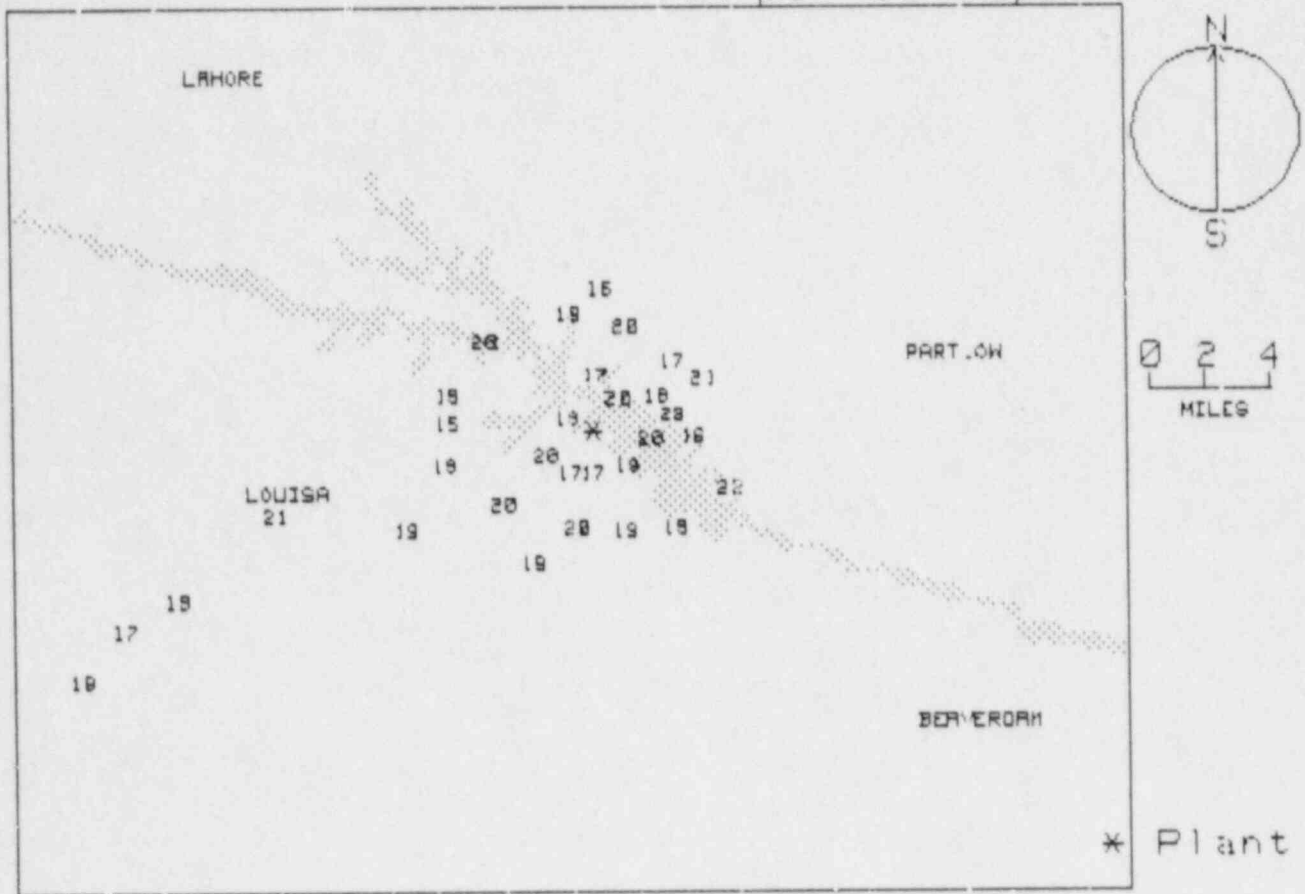
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 19.4 \pm 2.8 | 14 |
| 2-5 | 19.4 \pm 3.0 | 16 |
| >5 | 20.1 \pm 1.2 | 3 |
| UPWIND CONTROL DATA | 18.1 \pm .7 | 3 |

NORTH ANNA

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|-------------------------------------|
| 1 | 1.8 | 243 | RT. 700 & RT. 652 |
| 2 | 1.6 | 263 | RT. 685 (0.4 MILES N. OF RT. 652) |
| 3 | 1.0 | 296 | RT. 685 (1.5 MILES N. OF RT. 652) |
| 4 | 1.3 | 311 | RT. 685 (1.6 MILES N. OF RT. 652) |
| 5 | 1.3 | 329 | RT. 685 (2.1 MILES N. OF RT. 652) |
| 6 | 3.9 | 231 | RT. 700 & RT. 712 |
| 7 | 1.7 | 224 | LAURFL HILL CHURCH |
| 8 | 1.6 | 210 | RT. 652 (0.8 MILES E. OF RT. 700) |
| 9 | 1.4 | 181 | RT. 652 & RD. 1205 |
| 10 | 1.0 | 155 | S. SHORE OF LAKE ANNA |
| 11 | 1.6 | 136 | RT. 614 (1.2 MILES N. OF RT. 652) |
| 12 | 3.5 | 163 | INTERSECTION OF RT. 652 & RD. 728 |
| 13 | 3.3 | 190 | TRICE DAIRY RD. |
| 14 | 4.9 | 205 | RT. 614 & RT. 618 |
| 15 | 4.2 | 140 | RT. 622 (0.5 MILES N. OF RT. 701) |
| 16 | 4.9 | 113 | RT. 601 & RT. 622 |
| 17 | 3.3 | 93 | RT. 601 (2.2 MILES N. OF LEVY) |
| 18 | 4.1 | 64 | RT. 614 (1.6 MILES NE OF RT. 601) |
| 19 | 2.7 | 78 | RT. 601 & RT. 614 (LEWISTON) |
| 20 | 1.9 | 97 | RT. 614 (1 MILE S. OF RT. 601) |
| 21 | 1.7 | 105 | RT. 614 (N. SHORE OF LAKE ANNA) |
| 22 | 2.4 | 60 | RT. 601 & RT. 689 |
| 23 | 1.4 | 37 | RT. 713 (0.9 MILES S. OF RT. 601) |
| 24 | 1.6 | 16 | 0.5 MILES NW OF RT. 713 ON DIRT RD. |
| 25 | 3.5 | 48 | RT. 665 (1.1 MILES W. OF RT. 601) |
| 26 | 3.7 | 17 | GOOD HOPE CHURCH ON RT. 601 |
| 27 | 4.8 | 3 | RT. 601 & RIDGE RD. |
| 28 | 4.0 | 348 | RT. 643 (0.7 MILES NW OF RT. 655) |
| 29 | 1.9 | 2 | RT. 208 IN GLENORA |
| 30 | 5.0 | 284 | WARES CROSSROADS |
| 31 | 4.7 | 316 | RT. 663 (N. SHORE OF LAKE ANNA) |
| 32 | 4.9 | 273 | HWY. 522 |
| 33 | 5.1 | 257 | HWY. 522 & RT. 720 |
| 34 | 7.1 | 242 | MINERAL GRADE SCHOOL |
| 35 | 11.0 | 255 | HWY. 32 & RT. 208 (LA) |
| 36 | 15.0 | 248 | S. ANNA RD. & RT. 208 |
| 37 | 17.0 | 247 | RT. 208 & RT. 640 |
| 38 | 19.0 | 244 | RT. 208 & HWY. 64 |

NRC TLD DOSES FOR NORTH ANNA AREA
(mR per 90 days)



OCCONEE
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870917-880202 139 DAYS
 FIELD TIME 96 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE(mR) | | NET EXPOSURE RATE | | |
|----------------|-------------------|---------------|------------------------------|-------|-----------------------------|-------|-----|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm; Tot. | | mR/Std. Qtr. + Rdm; Tot. | RATE | |
| 001 | 158 | 7.7 | 21.6 | +- .6 | 19.1 | +- .7 | 5.1 |
| 002 | 133 | 4.9 | 23.8 | +- .7 | 20.4 | +- .7 | 5.2 |
| 003 | 119 | 4.3 | 23.7 | +- .7 | 21.1 | +- .7 | 5.3 |
| 004 | 84 | 4.7 | 24.8 | +- .7 | 22.1 | +- .7 | 5.4 |
| 005 | 65 | 4.8 | 21.1 | +- .6 | 18.6 | +- .6 | 5.0 |
| 006 | 52 | 1.8 | 22.9 | +- .7 | 20.3 | +- .7 | 5.2 |
| 007 | 22 | 3.5 | 21.3 | +- .6 | 18.8 | +- .6 | 5.1 |
| 008 | 33 | 1.4 | 24.2 | +- .7 | 21.5 | +- .7 | 5.3 |
| 009 | 52 | 1.8 | 17.3 | +- .5 | 15.3 | +- .5 | 4.3 |
| 010 | 66 | 1.2 | 14.8 | +- .4 | 12.7 | +- .5 | 4.3 |
| 011 | 107 | 1.9 | 18.7 | +- .6 | 16.4 | +- .6 | 4.9 |
| 012 | 87 | 1.9 | 21.2 | +- .6 | 18.7 | +- .6 | 5.1 |
| 013 | 142 | 0.7 | MISSING OR DAMAGED DOSIMETER | | | | |
| 014 | 166 | 0.7 | MISSING OR DAMAGED DOSIMETER | | | | |
| 015 | 226 | 1.7 | 21.2 | +- .6 | 18.7 | +- .6 | 5.1 |
| 016 | 207 | 1.4 | 19.9 | +- .6 | 17.5 | +- .6 | 4.9 |
| 017 | 182 | 2.2 | 18.4 | +- .6 | 16.1 | +- .6 | 4.6 |
| 018 | 186 | 3.8 | MISSING OR DAMAGED DOSIMETER | | | | |
| 019 | 155 | 4.1 | 21.5 | +- .6 | 19.0 | +- .7 | 5.1 |
| 020 | 203 | 2.4 | 18.6 | +- .6 | 16.3 | +- .6 | 4.6 |
| 021 | 218 | 4.6 | 17.9 | +- .5 | 15.6 | +- .6 | 4.4 |
| 022 | 227 | 4.8 | 19.7 | +- .6 | 17.3 | +- .6 | 4.9 |
| 023 | 240 | 3.6 | 17.8 | +- .5 | 15.5 | +- .6 | 4.4 |
| 024 | 268 | 3.6 | 24.3 | +- .7 | 21.4 | +- .7 | 5.6 |
| 025 | 257 | 1.9 | 17.7 | +- .5 | 15.4 | +- .6 | 4.4 |
| 026 | 293 | 3.6 | 20.4 | +- .6 | 17.9 | +- .6 | 5.0 |
| 027 | 311 | 3.5 | 19.6 | +- .6 | 17.2 | +- .6 | 4.9 |
| 028 | 288 | 2.9 | MISSING OR DAMAGED DOSIMETER | | | | |
| 029 | 275 | 1.8 | 19.2 | +- .6 | 16.8 | +- .6 | 4.9 |
| 030 | 321 | 1.8 | 20.3 | +- .6 | 17.9 | +- .6 | 5.1 |
| 031 | 344 | 2.9 | 16.7 | +- .5 | 14.5 | +- .5 | 4.7 |
| 032 | 326 | 3.7 | 25.1 | +- .8 | 22.4 | +- .8 | 5.4 |
| 033 | 358 | 4.5 | MISSING OR DAMAGED DOSIMETER | | | | |
| 034 | 256 | 9.4 | MISSING OR DAMAGED DOSIMETER | | | | |
| 035 | 149 | 2.1 | 22.2 | +- .7 | 19.7 | +- .7 | 5.1 |
| 036 | 126 | 8.2 | 23.3 | +- .7 | 20.7 | +- .7 | 5.2 |
| 037 | 96 | 9.7 | 23.6 | +- .7 | 20.9 | +- .7 | 5.3 |
| 038 | 32 | 16. | 26.5 | +- .8 | 23.7 | +- .8 | 5.5 |
| 039 | 31 | 16. | 25.2 | +- .8 | 22.5 | +- .8 | 5.4 |
| 040 | 29 | 16. | 24.9 | +- .7 | 22.2 | +- .7 | 5.4 |
| TRANSIT DOSE = | | 1.2 | +- .3 | 4.4 | | | |

OCONEE
FOR THE PERIOD 870917-880202

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std. Dev. | # IN GROUP |
|---------------------|--|------------|
| 348.75-11.25 (N) | NO DATA--NO DATA | 0 |
| 11.25-33.75 (NNE) | 20.1 \pm 1.9 | 2 |
| 33.75-56.25 (NE) | 17.7 \pm 3.7 | 2 |
| 56.25-78.75 (ENE) | 15.7 \pm 4.1 | 2 |
| 78.75-101.25 (E) | 20.6 \pm 1.7 | 3 |
| 101.25-123.75 (ESE) | 18.7 \pm 3.3 | 2 |
| 123.75-146.25 (SE) | 20.6 \pm .2 | 2 |
| 146.25-168.75 (SSE) | 19.2 \pm .4 | 3 |
| 168.75-191.25 (S) | 16.1 \pm 0.0 | 1 |
| 191.25-213.75 (SSW) | 16.4 \pm 1.0 | 3 |
| 213.75-236.25 (SW) | 18.0 \pm 1.0 | 2 |
| 236.25-258.75 (WSW) | 15.5 \pm .1 | 2 |
| 258.75-281.25 (W) | 19.1 \pm 3.2 | 2 |
| 281.25-303.75 (WNW) | 17.9 \pm 0.0 | 1 |
| 303.75-326.25 (NW) | 17.6 \pm .5 | 2 |
| 326.25-348.75 (NNW) | 18.4 \pm 5.6 | 2 |
| | | |

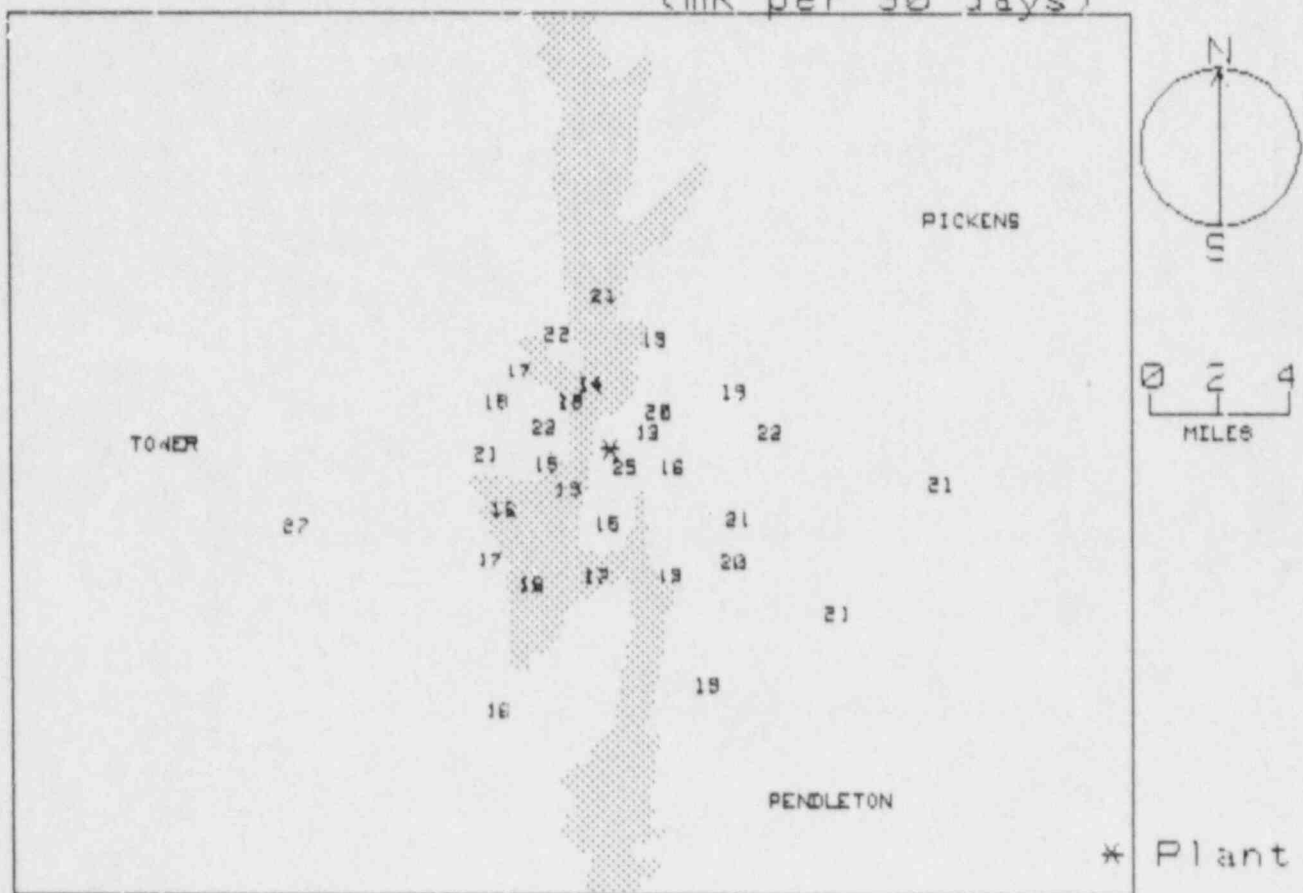
| DISTANCE (mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std. Dev. | # IN GROUP |
|--------------------------------|--|------------|
| 0-2 | 17.1 \pm 2.5 | 12 |
| 2-5 | 18.8 \pm 2.4 | 14 |
| >5 | 19.3 \pm 1.9 | 5 |
| UPWIND CONTROL DATA | 22.8 \pm .8 | 3 |

OCONEE

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|--|
| 1 | 7.5 | 158 | CLEMSON |
| 2 | 4.9 | 133 | LAWRENCE CHAPEL |
| 3 | 4.3 | 119 | PLEASANT HILL CHURCH |
| 4 | 4.7 | 84 | SIX MILE MICROWAVE TOWER |
| 5 | 4.0 | 65 | HWY. 133 |
| 6 | 1.8 | 52 | HWY. 183 |
| 7 | 3.5 | 22 | HWY. 157 (BANKS RESIDENCE) |
| 8 | 1.4 | 33 | WARPATH LANDING |
| 9 | 1.8 | 52 | HWY. 183 S. OF WARPATH RD. |
| 10 | 1.2 | 66 | HWY. 183 (1 MILE S. OF WARPATH RD.) |
| 11 | 1.9 | 107 | HWY. 160 (BAIT SHOP) |
| 12 | 1.0 | 87 | HWY. 183 (1.5 MILES S. OF WARPATH RD.) |
| 13 | .7 | 142 | HWY. 6 (BEAVER COLONY) |
| 14 | .7 | 166 | HWY. 6 (0.7 MILES S. OF HWY. 183) |
| 15 | 1.7 | 226 | HWY. 15 (MORGAN MEMORIAL CHAPEL) |
| 16 | 1.4 | 207 | HWY. 15 AT HWY. 37 |
| 17 | 2.2 | 182 | HWY. 130 AT DIRT RD. |
| 18 | 3.8 | 186 | HWY. 130 (1.0 MILES N. OF NEWRY) |
| 19 | 4.1 | 155 | ISSAQUEENA LAKE RD. |
| 20 | 8.4 | 203 | SENECA WATER TOWER |
| 21 | 4.6 | 210 | SUBDIVISION OFF HWY. 588 |
| 22 | 4.8 | 227 | HWY. 188 NEAR BRIDGE |
| 23 | 3.6 | 240 | NEW HOPE CHURCH |
| 24 | 3.6 | 268 | KEOWEE HIGH SCHOOL |
| 25 | 1.9 | 257 | TRAMMEL RD. |
| 26 | 3.6 | 293 | HIGHWAY 201 AT HWY. 92 |
| 27 | 3.5 | 311 | STAMP CR. ACCESS AREA |
| 28 | 2.0 | 288 | HIGH FALLS CHURCH |
| 29 | 1.8 | 275 | DUKE CAMPGROUND |
| 30 | 1.8 | 321 | KEOWEE KEY GUARD HOUSE |
| 31 | 2.0 | 344 | MCCALL RESIDENCE |
| 32 | 3.7 | 336 | STAMP CR. CHURCH |
| 33 | 4.5 | 358 | KEOWEE TOWN LANDING |
| 34 | 9.4 | 256 | WALHALLA |
| 35 | 21.0 | 149 | ANDERSON |
| 36 | 8.2 | 126 | CENTRAL |
| 37 | 9.7 | 96 | LIBERTY |
| 38 | 16.0 | 32 | HOLLY SPRINGS CHURCH |
| 39 | 16.0 | 31 | HOLLY SPRINGS GROCERY |
| 40 | 16.0 | 29 | SLIDING ROCK RD. & HWY. 178 |

NRC TLD DOSES FOR OCONEE AREA
(mR per 90 days)



OYSTER CREEK
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870918-880126 131 DAYS
 FIELD TIME 92 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|--------------|----------------|------------|---------------------|------|-------------------|-------------|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | Tot. | mR/Std. Dtr. | + Rdm; Tot. |
| 001 | 141 | .5 | 14 | 6 | 18 | 9 |
| 002 | 120 | .9 | 15 | 6 | 11 | 9 |
| 003 | 105 | 1.1 | 17 | 4 | 13 | 7 |
| 004 | 127 | 1.1 | 16 | 4 | 12 | 7 |
| 005 | 137 | 1.1 | 16 | 4 | 12 | 7 |
| 006 | 150 | 1.1 | 14 | 4 | 10 | 7 |
| 007 | 176 | 1.1 | 14 | 7 | 11 | 8 |
| 008 | 179 | 1.1 | 17 | 7 | 13 | 4 |
| 009 | 159 | 1.1 | 14 | 7 | 11 | 8 |
| 010 | 187 | 1.1 | 17 | 9 | 14 | 11 |
| 011 | 173 | 1.1 | 15 | 9 | 11 | 11 |
| 012 | 196 | 1.1 | 17 | 9 | 13 | 11 |
| 013 | 190 | 1.1 | 15 | 9 | 11 | 11 |
| 014 | 185 | 1.1 | 13 | 9 | 11 | 11 |
| 015 | 171 | 1.1 | 17 | 9 | 13 | 11 |
| 016 | 154 | 1.1 | 17 | 4 | 11 | 11 |
| 017 | 123 | 1.1 | 14 | 9 | 11 | 11 |
| 018 | 220 | 1.1 | 14 | 9 | 11 | 11 |
| 019 | 231 | 1.1 | 13 | 9 | 11 | 11 |
| 020 | 211 | 1.1 | 11 | 9 | 11 | 11 |
| 022 | 258 | 1.1 | 11 | 9 | 11 | 11 |
| 023 | 271 | 1.1 | 11 | 9 | 11 | 11 |
| 024 | 297 | 1.1 | 11 | 9 | 11 | 11 |
| 025 | 318 | 1.1 | 11 | 9 | 11 | 11 |
| 026 | 341 | 1.1 | 11 | 9 | 11 | 11 |
| 027 | 360 | 1.1 | 11 | 9 | 11 | 11 |
| 028 | 360 | 1.1 | 11 | 9 | 11 | 11 |
| 029 | 360 | 1.1 | 11 | 9 | 11 | 11 |
| 030 | 360 | 1.1 | 11 | 9 | 11 | 11 |
| 031 | 360 | 1.1 | 11 | 9 | 11 | 11 |
| 032 | 360 | 1.1 | 11 | 9 | 11 | 11 |
| 033 | 360 | 1.1 | 11 | 9 | 11 | 11 |
| 034 | 360 | 1.1 | 11 | 9 | 11 | 11 |
| 035 | 360 | 1.1 | 11 | 9 | 11 | 11 |
| 036 | 360 | 1.1 | 11 | 9 | 11 | 11 |
| 037 | 360 | 1.1 | 11 | 9 | 11 | 11 |
| 038 | 360 | 1.1 | 11 | 9 | 11 | 11 |
| 039 | 360 | 1.1 | 11 | 9 | 11 | 11 |
| 040 | 360 | 1.1 | 11 | 9 | 11 | 11 |
| 041 | 360 | 1.1 | 11 | 9 | 11 | 11 |
| 042 | 360 | 1.1 | 11 | 9 | 11 | 11 |
| 043 | 360 | 1.1 | 11 | 9 | 11 | 11 |
| 044 | 360 | 1.1 | 11 | 9 | 11 | 11 |
| 045 | 360 | 1.1 | 11 | 9 | 11 | 11 |
| 046 | 360 | 1.1 | 11 | 9 | 11 | 11 |
| 047 | 360 | 1.1 | 11 | 9 | 11 | 11 |
| TRANSIT DOSE | 3.4 | + | 3 | 4 | 3 | 4 |

MISPLACED OR DAMAGED DOSIMETER

A-163

OYSTER CREEK
FOR THE PERIOD 870918-880126

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std. Dev. | # IN GROUP |
|---------------------|--|------------|
| 348.75-11.25 (N) | 11.8 \pm 1.6 | 3 |
| 11.25-33.75 (NNE) | 12.8 \pm 1.4 | 4 |
| 33.75-56.25 (NE) | 13.0 \pm 1.8 | 5 |
| 56.25-78.75 (ENE) | 11.8 \pm .7 | 3 |
| 78.75-101.25 (E) | 13.1 \pm .1 | 2 |
| 101.25-123.75 (ESE) | 12.6 \pm 1.5 | 2 |
| 123.75-146.25 (SE) | 11.8 \pm .8 | 4 |
| 146.25-168.75 (SSE) | 11.8 \pm 1.6 | 3 |
| 168.75-191.25 (S) | 13.0 \pm 1.5 | 6 |
| 191.25-213.75 (SSW) | 12.3 \pm 1.2 | 3 |
| 213.75-236.25 (SW) | 11.8 \pm .8 | 2 |
| 236.25-258.75 (WSW) | 13.2 \pm 0.0 | 1 |
| 258.75-281.25 (W) | 12.1 \pm 0.0 | 1 |
| 281.25-303.75 (WNW) | 13.4 \pm 0.0 | 1 |
| 303.75-326.25 (NW) | 12.3 \pm 0.0 | 1 |
| 326.25-348.75 (NNW) | 13.8 \pm 2.1 | 2 |
| | | |

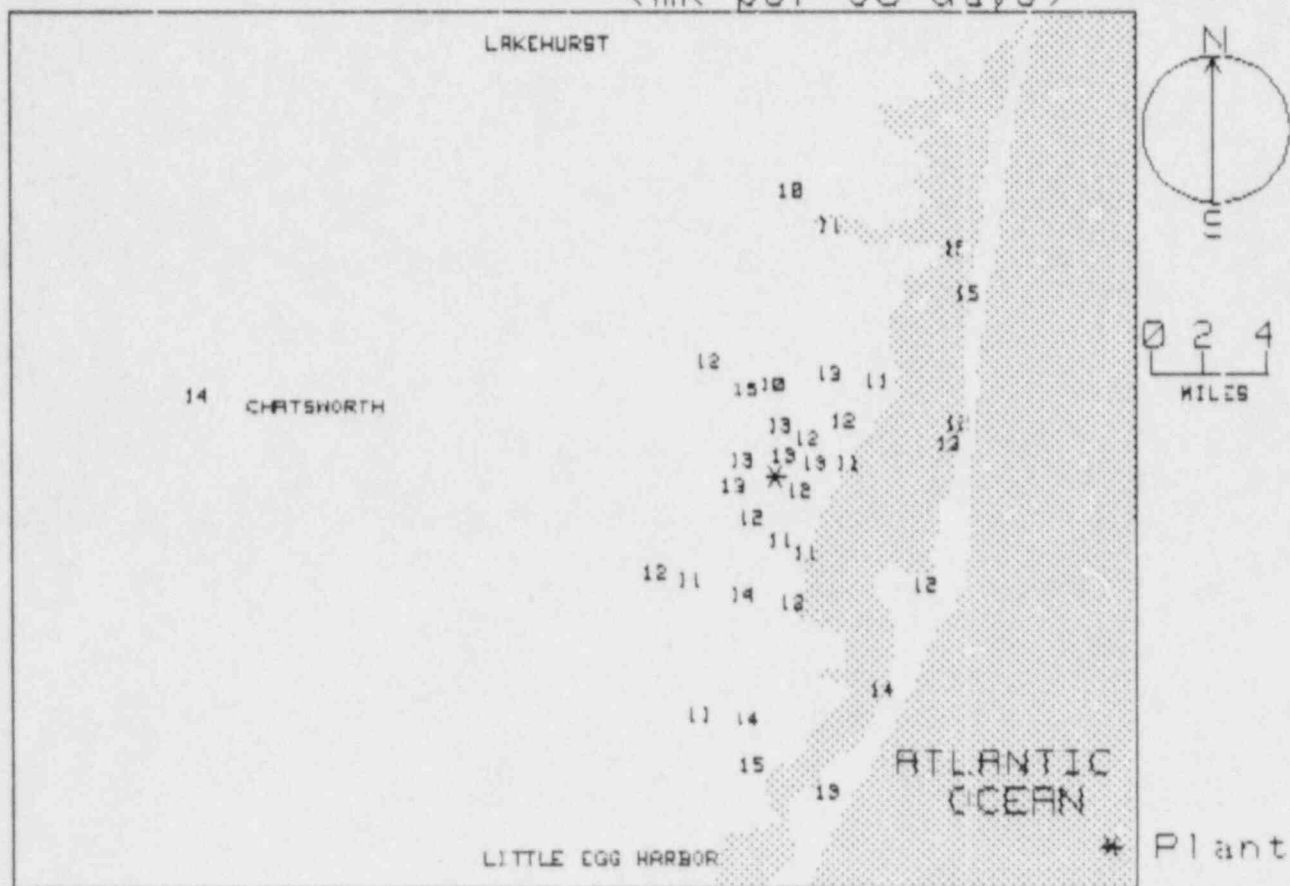
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std. Dev. | # IN GROUP |
|-------------------------------|--|------------|
| 0-2 | 12.6 \pm 1.0 | 17 |
| 2-5 | 12.1 \pm 1.4 | 13 |
| >5 | 13.0 \pm 1.4 | 13 |
| UPWIND CONTROL DATA | 13.0 \pm 1.2 | 2 |

OYSTER CREEK

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|-------------------------------------|
| 1 | .5 | 141 | BAY PARKWAY AVE. |
| 2 | .9 | 120 | BAY PARKWAY AVE. |
| 3 | 1.5 | 105 | COMPASS ROAD |
| 4 | 1.5 | 127 | NORTH OF FRESH CREEK |
| 5 | 1.3 | 137 | LIGHTHOUSE ROAD |
| 6 | 1.2 | 158 | WARETOWN SUBSTATION |
| 7 | 2.2 | 176 | WARETOWN SUBSTATION |
| 8 | 1.6 | 179 | RHEARNS SEAFOOD MARKET |
| 9 | 2.8 | 159 | BARNEGAT BEACH |
| 10 | 8.4 | 187 | BAYSHORE DRIVE |
| 11 | 4.4 | 173 | BAYSHORE DRIVE |
| 12 | 4.2 | 196 | BARNEGATE ELEMENTARY SCHOOL |
| 13 | 8.6 | 198 | MONAHAWKIN |
| 14 | 10.0 | 185 | MARGUS MARINA |
| 15 | 11.0 | 171 | LONG BEACH BLVD.&8TH ST. |
| 16 | 8.2 | 154 | LONG BEACH BLVD.& 70TH ST. |
| 17 | 6.3 | 126 | 6TH AND BAY AVE. |
| 18 | 4.6 | 220 | BARNEGAT ESTATES |
| 19 | 5.3 | 231 | GARDEN STATE PARKWAY INTERCHANGE#69 |
| 20 | 1.6 | 211 | ROUTE 532(WARETOWN CREEK) |
| 22 | 1.5 | 258 | GARDEN STATE PARKWAY |
| 23 | 1.2 | 271 | GARDEN STATE PARKWAY |
| 24 | 1.3 | 297 | GARDEN STATE PARKWAY |
| 25 | 1.5 | 318 | GARDEN STATE PARKWAY |
| 26 | 3.2 | 341 | PARKSIDE DRIVE |
| 27 | 4.6 | 330 | LACEY ROAD |
| 28 | 3.2 | 358 | LACEY TOWNSHIP MUNICIPAL BLDG. |
| 29 | 1.8 | 4 | LAKE BARNEGAT SOUTH SHORE |
| 30 | .8 | 19 | CLEAR WATER DRIVE |
| 31 | 1.4 | 69 | BEACH BLVD. |
| 32 | 2.5 | 76 | BEACH BLVD. |
| 33 | 2.2 | 85 | BEACH BLVD. |
| 34 | 1.7 | 38 | BAY AVE. |
| 35 | 1.9 | 24 | LACEY ROAD |
| 36 | 3.0 | 50 | SUNRISE BLVD. |
| 37 | 4.8 | 46 | LAUREL BLVD. |
| 38 | 4.0 | 27 | LANOKA FIRE AND FIRST AID STATION |
| 39 | 8.9 | 12 | ADMIRAL FARRAGUT ACADEMY |
| 40 | 8.7 | 10 | PROSPECT AVE. |
| 41 | 9.9 | 3 | FRANKLIN AVE. |
| 42 | 10.0 | 38 | J STREET |
| 43 | 9.1 | 46 | ISLAND BEACH STATE PARK |
| 44 | 6.5 | 73 | ISLAND BEACH STATE PARK |
| 45 | 6.0 | 79 | ISLAND BEACH STATE PARK |
| 46 | 20.0 | 278 | LEBANON STATE PARK |
| 47 | 20.0 | 278 | LEBANON STATE PARK |

NRC TLD DOSES FOR OYSTER CREEK AREA
(mR per 90 days)



PALISADES
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870915-880127 135 DAYS
 FIELD TIME 100 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | | NET EXPOSURE RATE mR/Std. Qtr. | | |
|----------------|-------------------|---------------|------------------------------|--------|-----|-----------------------------------|--------|-----|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | ± Tot. | | + Rdm | ± Tot. | |
| 001 | 195 | 4.9 | 20.4 | ± .6 | 0.1 | 13.3 | ± .7 | 6.0 |
| 002 | 173 | 4.6 | 21.1 | ± .6 | 0.2 | 14.0 | ± .7 | 6.1 |
| 003 | 156 | 3.9 | 21.9 | ± .7 | 0.3 | 14.7 | ± .7 | 6.1 |
| 004 | 132 | 4.6 | 21.8 | ± .7 | 0.3 | 14.6 | ± .7 | 6.1 |
| 005 | 118 | 3.3 | 21.9 | ± .7 | 0.3 | 14.7 | ± .7 | 6.1 |
| 006 | 152 | 1.8 | 20.6 | ± .6 | 0.1 | 13.5 | ± .7 | 6.0 |
| 007 | 196 | 2.2 | 19.9 | ± .6 | 0.0 | 12.9 | ± .7 | 6.0 |
| 008 | 178 | 1.6 | 21.7 | ± .6 | 0.2 | 14.5 | ± .7 | 6.1 |
| 009 | 200 | 0.9 | 20.7 | ± .6 | 0.1 | 13.6 | ± .7 | 6.1 |
| 010 | 124 | 1.8 | MISSING OR DAMAGED DOSIMETER | | | | | |
| 011 | 107 | 1.8 | 23.2 | ± .7 | 0.5 | 15.9 | ± .7 | 6.2 |
| 012 | 90 | 1.5 | 20.5 | ± .6 | 0.1 | 13.4 | ± .7 | 6.0 |
| 013 | 65 | 1.7 | 22.6 | ± .7 | 0.4 | 15.3 | ± .7 | 6.2 |
| 014 | 51 | 1.9 | 20.4 | ± .6 | 0.1 | 13.4 | ± .7 | 6.0 |
| 015 | 74 | 3.7 | MISSING OR DAMAGED DOSIMETER | | | | | |
| 016 | 90 | 3.6 | 23.8 | ± .7 | 0.6 | 16.4 | ± .7 | 6.3 |
| 017 | 98/ | 18. | 22.7 | ± .7 | 0.4 | 15.4 | ± .7 | 6.2 |
| 018 | 47 | 4.5 | 22.9 | ± .7 | 0.4 | 15.6 | ± .7 | 6.2 |
| 019 | 23 | 1.5 | 19.9 | ± .6 | 0.0 | 12.9 | ± .7 | 6.0 |
| 020 | 32 | 4.8 | 22.7 | ± .7 | 0.4 | 15.4 | ± .7 | 6.2 |
| 021 | 29 | 7.0 | 22.4 | ± .7 | 0.4 | 15.2 | ± .7 | 6.2 |
| 022 | 99/ | 15. | 22.5 | ± .7 | 0.4 | 15.3 | ± .7 | 6.2 |
| 023 | 98/ | 18. | 20.7 | ± .6 | 0.1 | 13.6 | ± .7 | 6.0 |
| 024 | 98/ | 18. | 21.4 | ± .6 | 0.2 | 14.2 | ± .7 | 6.1 |
| TRANSIT DOSE = | | | 5.6 | ± .4 | | | | 6.0 |

PALISADES
FOR THE PERIOD 870915-880127

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) +-Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | NO DATA+-NO DATA | 0 |
| 11.25-33.75 (NNE) | 14.5 +- 1.4 | 3 |
| 33.75-56.25 (NE) | 14.5 +- 1.6 | 2 |
| 56.25-78.75 (ENE) | 15.3 +- 0.0 | 1 |
| 78.75-101.25 (E) | 15.1 +- 1.5 | 3 |
| 101.25-123.75 (ESE) | 15.3 +- .8 | 2 |
| 123.75-146.25 (SE) | 14.6 +- 0.0 | 1 |
| 146.25-168.75 (SSE) | 14.1 +- .8 | 2 |
| 168.75-191.25 (S) | 14.2 +- .4 | 2 |
| 191.25-213.75 (SSW) | 13.3 +- .4 | 3 |
| 213.75-236.25 (SW) | NO DATA+-NO DATA | 0 |
| 236.25-258.75 (WSW) | NO DATA+-NO DATA | 0 |
| 258.75-281.25 (W) | NO DATA+-NO DATA | 0 |
| 281.25-303.75 (WNW) | NO DATA+-NO DATA | 0 |
| 303.75-326.25 (NW) | NO DATA+-NO DATA | 0 |
| 326.25-348.75 (NNW) | NO DATA+-NO DATA | 0 |

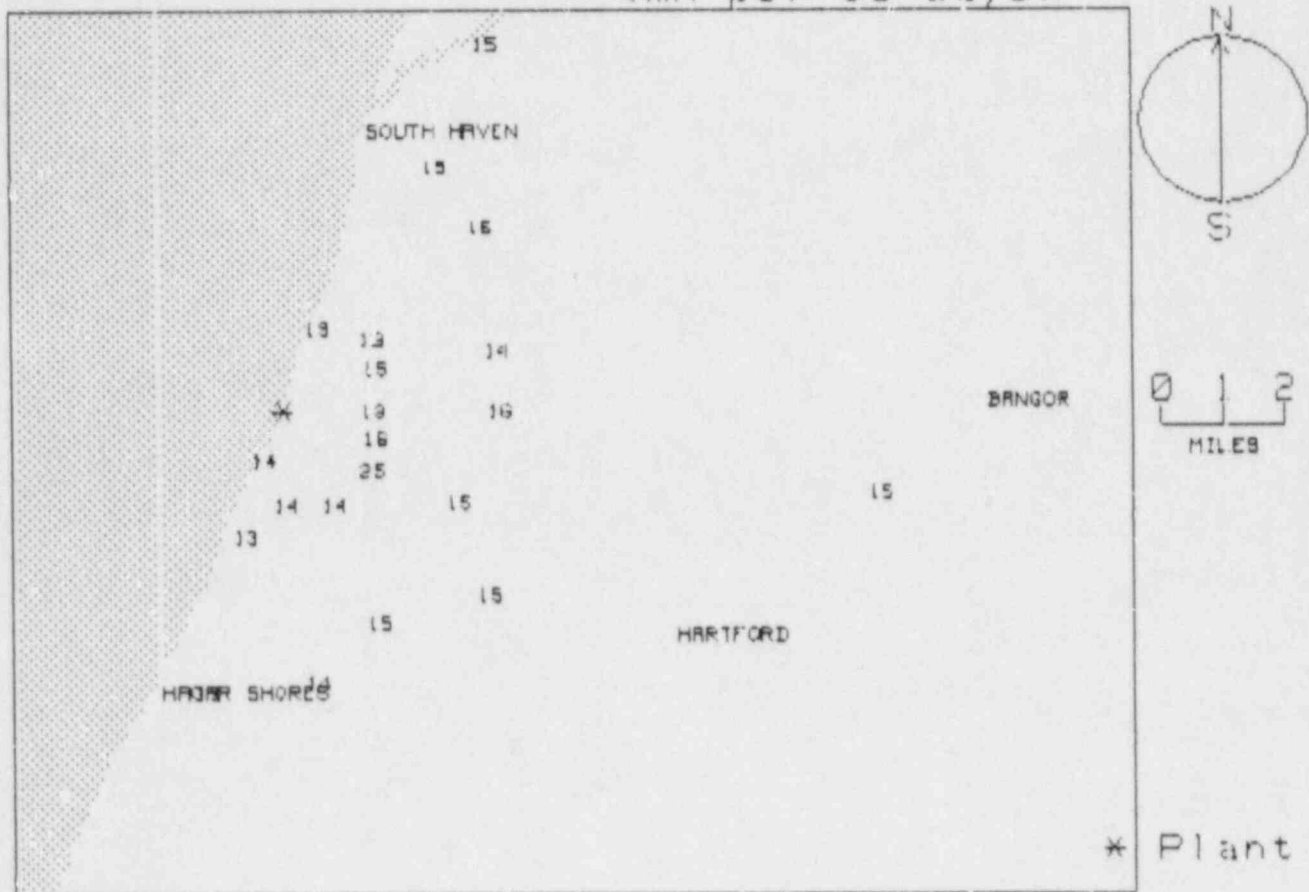
| DISTANCE (mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) +-Std.Dev. | # IN GROUP |
|--------------------------------|---|------------|
| 0-2 | 14.1 +- 1.1 | 8 |
| 2-5 | 14.6 +- 1.1 | 9 |
| >5 | 15.3 +- .2 | 2 |
| UPWIND CONTROL DATA | 14.4 +- .8 | 3 |

PALISADES

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|---------------------------------------|
| 1 | 4.9 | 195 | BLUE STAR HWY. (US 33) |
| 2 | 4.6 | 173 | 78TH ST. |
| 3 | 3.9 | 156 | 76TH ST. & 38TH AVE. |
| 4 | 4.6 | 132 | 36TH AVE. |
| 5 | 3.3 | 118 | COUNTY RD. 378 (30TH AVE.) |
| 6 | 1.8 | 152 | 77.5 ST. & 30TH AVE. |
| 7 | 2.2 | 196 | 32ND AVE. |
| 8 | 1.6 | 178 | BLUE STAR HWY. (US 33) |
| 9 | .9 | 200 | PALISADES PARK COUNTRY CLUB |
| 10 | 1.8 | 124 | 28TH AVE. & 76TH ST. |
| 11 | 1.6 | 107 | 76TH ST. |
| 12 | 1.5 | 90 | 76TH ST. & 24TH ST. |
| 13 | 1.7 | 65 | 76TH ST. |
| 14 | 1.9 | 51 | 76TH ST. |
| 15 | 3.7 | 74 | 72ND ST. & COUNTY RD. 380 (20TH AVE.) |
| 16 | 3.6 | 90 | 72ND ST. & 24TH AVE. |
| 17 | 10.0 | 98 | COUNTY RD. 378 |
| 18 | 4.5 | 47 | 12TH AVE. |
| 19 | 1.5 | 23 | 18TH AVE. |
| 20 | 4.8 | 32 | MICHIGAN 43 & BLUE STAR HWY. (US 33) |
| 21 | 7.0 | 29 | PHOENIX RD. |
| 22 | 15.0 | 99 | MICHIGAN 43 |
| 23 | 18.0 | 98 | MICHIGAN 43 |
| 24 | 18.0 | 98 | MICHIGAN 43 |

NRC TLD DOSES FOR PALISADES AREA (mR per 90 days)



PALO VERDE
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870914-880128 137 DAYS
 FIELD TIME 96 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|----------------|-------------------|---------------|------------------------------|-----------|-------------------|-----------|
| | AZIMUTH (deg.) | DIST (mi.) | + - | Rdm; Tot. | + - | Rdm; Tot. |
| 001 | 74 | 23. | 25.2 | +- .00 | 20.2 | +- .00 |
| 002 | 92 | 21. | 24.6 | +- .00 | 19.6 | +- .00 |
| 003 | 89 | 15. | 24.0 | +- .00 | 19.1 | +- .00 |
| 004 | 103 | 11. | 24.5 | +- .00 | 19.6 | +- .00 |
| 005 | 140 | 7.4 | 27.1 | +- .00 | 22.0 | +- .00 |
| 006 | 142 | 3.1 | 26.1 | +- .00 | 21.0 | +- .00 |
| 007 | 162 | 2.6 | 25.7 | +- .00 | 20.6 | +- .00 |
| 008 | 160 | 2.6 | 25.3 | +- .00 | 21.3 | +- .00 |
| 009 | 193 | 2.6 | 25.9 | +- .00 | 20.9 | +- .00 |
| 010 | 215 | 3.1 | 26.0 | +- .00 | 21.7 | +- .00 |
| 011 | 200 | 1.7 | 27.1 | +- .00 | 22.0 | +- .00 |
| 012 | 214 | 1.0 | 25.5 | +- .00 | 20.5 | +- .00 |
| 013 | 242 | 0.7 | 26.1 | +- .00 | 22.0 | +- .00 |
| 014 | 263 | 0.6 | 26.7 | +- .00 | 22.5 | +- .00 |
| 015 | 295 | 0.6 | 25.0 | +- .00 | 20.0 | +- .00 |
| 016 | 295 | 1.0 | 23.7 | +- .00 | 19.0 | +- .00 |
| 017 | 47 | 1.0 | 24.0 | +- .00 | 19.4 | +- .00 |
| 018 | 0 | 2.4 | 25.0 | +- .00 | 20.0 | +- .00 |
| 019 | 10 | 1.5 | 26.0 | +- .00 | 21.0 | +- .00 |
| 020 | 37 | 2.0 | MISSING OR DAMAGED DOSIMETER | | | |
| 021 | 50 | 2.0 | 25.0 | +- .00 | 25.0 | +- .00 |
| 022 | 75 | 2.0 | 25.0 | +- .00 | 20.0 | +- .00 |
| 023 | 93 | 4.4 | 25.0 | +- .00 | 21.0 | +- .00 |
| 024 | 101 | 3.0 | 25.0 | +- .00 | 20.0 | +- .00 |
| 025 | 346 | 2.0 | 25.0 | +- .00 | 21.0 | +- .00 |
| 026 | 334 | 4.0 | 25.0 | +- .00 | 20.0 | +- .00 |
| 027 | 333 | 7.0 | 25.0 | +- .00 | 20.0 | +- .00 |
| 028 | 0 | 7.0 | 25.0 | +- .00 | 20.0 | +- .00 |
| 029 | 0 | 4.0 | 25.0 | +- .00 | 20.0 | +- .00 |
| 030 | 27 | 3.0 | 25.0 | +- .00 | 20.0 | +- .00 |
| 031 | 49 | 3.0 | 25.0 | +- .00 | 20.0 | +- .00 |
| 032 | 120 | 3.0 | 25.0 | +- .00 | 20.0 | +- .00 |
| TRANSIT DOSE = | | | 3.6 | +- .3 | 5.1 | |

PALO VERDE
FOR THE PERIOD 870914-880128

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std. Dev. | # IN GROUP |
|---------------------|--|------------|
| 348.75-11.25 (N) | 23.0 \pm 3.0 | 3 |
| 11.25-33.75 (NNE) | 21.9 \pm 1.3 | 2 |
| 33.75-56.25 (NE) | 24.2 \pm 0.0 | 1 |
| 56.25-78.75 (ENE) | 24.3 \pm 1.0 | 2 |
| 78.75-101.25 (E) | 20.7 \pm .7 | 2 |
| 101.25-123.75 (ESE) | 22.3 \pm 3.9 | 2 |
| 123.75-146.25 (SE) | 21.5 \pm .7 | 2 |
| 146.25-168.75 (SSE) | 20.9 \pm .4 | 2 |
| 168.75-191.25 (S) | NO DATA+-NO DATA | 0 |
| 191.25-213.75 (SSW) | 21.4 \pm .8 | 2 |
| 213.75-236.25 (SW) | 21.1 \pm .8 | 2 |
| 236.25-258.75 (WSW) | 22.9 \pm 0.0 | 1 |
| 258.75-281.25 (W) | 23.5 \pm 0.0 | 1 |
| 281.25-303.75 (WNW) | 20.0 \pm 0.0 | 1 |
| 303.75-326.25 (NW) | 18.8 \pm 0.0 | 1 |
| 326.25-348.75 (NNW) | 22.3 \pm 2.5 | 4 |
| | | |

| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std. Dev. | # IN GROUP |
|-------------------------------|--|------------|
| 0-2 | 21.0 \pm 1.7 | 8 |
| 2-5 | 22.6 \pm 2.0 | 16 |
| >5 | 21.7 \pm 1.4 | 4 |
| UPWIND CONTROL DATA | 19.6 \pm .6 | 3 |

PALO VERDE

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|--|
| 1 | 23.0 | 74 | SCOTT LIBBY SCHOOL |
| 2 | 21.0 | 92 | LIBERTY SCHOOL |
| 3 | 15.0 | 89 | BUCKEYE |
| 4 | 11.0 | 103 | PALO VERDE SCHOOL |
| 5 | 7.4 | 140 | ARLINGTON SCHOOL |
| 6 | 3.1 | 142 | APS SUBSTATION |
| 7 | 2.6 | 162 | ELLIOT ROAD (2.2mi.W.OF 355TH AVE.) |
| 8 | 2.6 | 168 | ELLIOT ROAD RR CROSSING |
| 9 | 2.6 | 193 | ELLIOT & WINTERSBURG ROAD |
| 10 | 3.1 | 215 | ELLIOT ROAD RESIDENCE |
| 11 | 1.7 | 200 | 1mi.N.ON WINTERSBURG RD(FROM ELLIOT RD.) |
| 12 | 1.0 | 214 | 1.7mi.N. WINTERSBURG RD(FROM ELLIOT RD.) |
| 13 | .7 | 242 | 2mi.N. WINTERSBURG RD(FROM ELLIOT RD.) |
| 14 | .6 | 263 | 2.5mi.N. WINTERSBURG RD(FROM ELLIOT RD.) |
| 15 | .6 | 295 | WINTERSBURG RD.(PALO VERDE GATE#2) |
| 16 | 1.0 | 325 | 3.6mi.N.WINTERSBURG RD(FROM ELLIOT RD.) |
| 17 | 1.8 | 347 | 4.7mi.N.WINTERSBURG RD(FROM ELLIOT RD.) |
| 18 | 2.4 | 0 | WINTERSBURG |
| 19 | 1.5 | 18 | ED THOMAS RESIDENCE |
| 20 | 2.0 | 37 | BUCKEYE-SALOME RD.(NEAR GATE#14) |
| 21 | 2.3 | 58 | GUY POLE(BUCKEYE-SALOME ROAD) |
| 22 | 2.8 | 75 | WM. ROGERS RESIDENCE |
| 23 | 4.4 | 93 | INTERSECT. BUCKEYE-SALOME&39TH AVE. |
| 24 | 3.3 | 101 | BASELINE ROAD&351ST AVE. |
| 25 | 2.9 | 346 | NEAR BUCKEYE_SALOME&WINTERSBURG RD. |
| 26 | 4.3 | 334 | INTERSECTION BUCKEYE-SALOME RD.&395TH AVE. |
| 27 | 7.9 | 333 | TONOPAH |
| 28 | 7.0 | 0 | RUTH FISHER SCHOOL |
| 29 | 4.2 | 9 | VAN BUREN&371ST AVE. |
| 30 | 3.6 | 27 | BUCKEYE ROAD & 363rd AVE. |
| 31 | 3.5 | 49 | BUCKEYE ROAD & 355TH AVE. |
| 32 | 3.3 | 120 | 355TH AVE. & DOBBINS ROAD |

MAP FOR PALO VERDE

Map will be provided for this site in the future.

PEACH BOTTOM
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870915-880126 134 DAYS
 FIELD TIME 84 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE(mR) | | NET EXPOSURE RATE | |
|----------------|-------------------|---------------|-----------------------|------|-------------------|-------------|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm; | Tot. | mR/Std. Qtr. | + Rdm; Tot. |
| 001 | 329 | 10. | 21.7 | +.6 | 15.3 | +.2 |
| 002 | 31 | 10. | 22.8 | +.7 | 16.5 | +.4 |
| 003 | 22 | 4.7 | 21.8 | +.7 | 15.5 | +.2 |
| 004 | 4 | 5 | 22.7 | +.7 | 16.4 | +.4 |
| 005 | 345 | 4.1 | 19.6 | +.6 | 13.1 | +.1 |
| 006 | 9 | 2.2 | 24.7 | +.7 | 18.6 | +.6 |
| 007 | 22 | 2.5 | 22.6 | +.7 | 16.3 | +.4 |
| 008 | 55 | 2.9 | 23.5 | +.7 | 17.3 | +.5 |
| 009 | 45 | 2.2 | 23.0 | +.7 | 16.7 | +.4 |
| 010 | 63 | 1.7 | 24.6 | +.7 | 18.4 | +.6 |
| 011 | 97 | 2.2 | 25.8 | +.8 | 19.5 | +.7 |
| 012 | 107 | 2.3 | 21.9 | +.7 | 15.7 | +.4 |
| 013 | 72 | 5 | 22.3 | +.7 | 15.5 | +.3 |
| 014 | 86 | 4.4 | 23.3 | +.7 | 17.0 | +.5 |
| 015 | 110 | 4.4 | 24.2 | +.7 | 18.1 | +.6 |
| 016 | 130 | 4.4 | 19.1 | +.6 | 13.6 | +.3 |
| 017 | 150 | 9 | 22.0 | +.7 | 16.3 | +.4 |
| 018 | 163 | 4.4 | 22.1 | +.7 | 16.4 | +.4 |
| 019 | 184 | 6.9 | 22.7 | +.7 | 17.0 | +.5 |
| 020 | 203 | 4.4 | 24.6 | +.7 | 18.4 | +.6 |
| 021 | 197 | 4.4 | 24.5 | +.7 | 18.3 | +.6 |
| 022 | 103 | 2.2 | 22.1 | +.7 | 16.3 | +.4 |
| 023 | 103 | 1.1 | 22.3 | +.7 | 16.5 | +.4 |
| 024 | 203 | 1.1 | 22.5 | +.7 | 16.7 | +.4 |
| 025 | 203 | 1.1 | 22.7 | +.7 | 16.9 | +.4 |
| 026 | 203 | 1.1 | 22.9 | +.7 | 17.1 | +.4 |
| 027 | 203 | 1.1 | 23.1 | +.7 | 17.3 | +.4 |
| 028 | 203 | 1.1 | 23.3 | +.7 | 17.5 | +.4 |
| 029 | 203 | 1.1 | 23.5 | +.7 | 17.7 | +.4 |
| 030 | 203 | 1.1 | 23.7 | +.7 | 17.9 | +.4 |
| 031 | 203 | 1.1 | 23.9 | +.7 | 18.1 | +.4 |
| 032 | 203 | 1.1 | 24.1 | +.7 | 18.3 | +.4 |
| 033 | 203 | 1.1 | 24.3 | +.7 | 18.5 | +.4 |
| 034 | 203 | 1.1 | 24.5 | +.7 | 18.7 | +.4 |
| 035 | 203 | 1.1 | 24.7 | +.7 | 18.9 | +.4 |
| 036 | 203 | 1.1 | 24.9 | +.7 | 19.1 | +.4 |
| 037 | 203 | 1.1 | 25.1 | +.7 | 19.3 | +.4 |
| 038 | 203 | 1.1 | 25.3 | +.7 | 19.5 | +.4 |
| 039 | 203 | 1.1 | 25.5 | +.7 | 19.7 | +.4 |
| 040 | 203 | 1.1 | 25.7 | +.7 | 19.9 | +.4 |
| 041 | 203 | 1.1 | 25.9 | +.7 | 20.1 | +.4 |
| 042 | 203 | 1.1 | 26.1 | +.7 | 20.3 | +.4 |
| 043 | 203 | 1.1 | 26.3 | +.7 | 20.5 | +.4 |
| 044 | 203 | 1.1 | 26.5 | +.7 | 20.7 | +.4 |
| 045 | 151 | 7 | 20.0 | +.6 | 14.3 | +.3 |
| 046 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 047 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 048 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 049 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 050 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 051 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 052 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 053 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 054 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 055 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 056 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 057 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 058 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 059 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 060 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 061 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 062 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 063 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 064 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 065 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 066 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 067 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 068 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 069 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 070 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 071 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 072 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 073 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 074 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 075 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 076 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 077 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 078 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 079 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 080 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 081 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 082 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 083 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 084 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 085 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 086 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 087 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 088 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 089 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 090 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 091 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 092 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 093 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 094 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 095 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 096 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 097 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 098 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 099 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |
| 100 | 140 | 15 | 19.0 | +.6 | 13.6 | +.3 |

TRANSIT DOSE = 7.4 +- .4

PEACH BOTTOM
FOR THE PERIOD 870915-880126

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 17.5 \pm 1.5 | 2 |
| 11.25-33.75 (NNE) | 16.1 \pm .8 | 3 |
| 33.75-56.25 (NE) | 17.0 \pm .4 | 2 |
| 56.25-78.75 (ENE) | 17.2 \pm 1.7 | 2 |
| 78.75-101.25 (E) | 18.4 \pm 1.9 | 2 |
| 101.25-123.75 (ESE) | 16.8 \pm 1.7 | 2 |
| 123.75-146.25 (SE) | 12.6 \pm 0.0 | 1 |
| 146.25-168.75 (SSE) | 16.1 \pm 2.5 | 3 |
| 168.75-191.25 (S) | 20.3 \pm 3.2 | 3 |
| 191.25-213.75 (SSW) | 18.7 \pm .5 | 2 |
| 213.75-236.25 (SW) | 15.8 \pm 4.5 | 2 |
| 236.25-258.75 (WSW) | 17.6 \pm 1.3 | 2 |
| 258.75-281.25 (W) | 20.0 \pm .7 | 3 |
| 281.25-303.75 (WNW) | 18.9 \pm 3.0 | 2 |
| 303.75-326.25 (NW) | 17.3 \pm 4.1 | 2 |
| 326.25-348.75 (NNW) | 14.2 \pm 1.6 | 2 |
| | | |

| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 18.3 \pm 2.3 | 11 |
| 2-5 | 17.3 \pm 2.4 | 19 |
| >5 | 15.7 \pm 3.0 | 5 |
| UPWIND CONTROL DATA | 14.2 \pm .9 | 3 |

PEACH BOTTOM

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|--------------------------------------|
| 1 | 10.0 | 329 | PEQUA |
| 2 | 10.0 | 31 | QUARRYVILLE |
| 3 | 4.7 | 22 | RIVER ROAD |
| 4 | 5.0 | 4 | RIVER ROAD& SUSQUEHANNOCK ROAD |
| 5 | 4.1 | 345 | P.E. BIOLOGY LAB. |
| 6 | 2.2 | 9 | SUSQUEHANNOCK ROAD(BY THE RIVER) |
| 7 | 2.5 | 22 | BALD EAGLE ROAD |
| 8 | 2.9 | 55 | CHERRY HILL ROAD |
| 9 | 2.0 | 45 | CHERRY HILL ROAD (PAST 90 DEG. BEND) |
| 10 | 1.7 | 63 | FULTON WEATHER STATION |
| 11 | 2.0 | 97 | PETERS CREEK |
| 12 | 2.3 | 107 | PEACH BOTTOM |
| 13 | 5.0 | 72 | LINDE CAMP RESIDENCE |
| 14 | 4.6 | 86 | PILOTOWN |
| 15 | 4.3 | 110 | PLEASANT GROVE CHURCH |
| 16 | 4.7 | 130 | ST. PATRICKS CHAPEL |
| 17 | 9.0 | 158 | DARLINGTON |
| 18 | 4.6 | 163 | BROAD CREEK |
| 19 | 3.9 | 184 | TABERNACLE CHURCH |
| 20 | 4.9 | 203 | MT. VERNON CHURCH |
| 21 | 2.3 | 197 | ORCHARD ROAD |
| 22 | 1.7 | 183 | KRICK ROAD |
| 23 | 1.8 | 190 | ORCHARD CAMPGROUND |
| 24 | 1.8 | 222 | ROUTE 623&PEACH BOTTOM ROAD |
| 25 | 1.7 | 248 | WILEY ROAD |
| 26 | 1.8 | 268 | RILES ROAD |
| 27 | 1.9 | 288 | RILES AND PAPER MILL ROAD |
| 28 | 1.8 | 323 | COLD CABIN BEACH |
| 29 | 3.6 | 286 | ROUTE 74 AND PAPER MILL ROAD |
| 30 | 4.0 | 264 | SCOTT CREEK |
| 31 | 9.9 | 262 | REID RESIDENCE |
| 32 | 3.2 | 248 | LAY ROAD |
| 33 | 9.4 | 235 | DELTA SUBSTATION |
| 34 | 4.9 | 319 | ROUTE 372 BRIDGE |
| 35 | .7 | 151 | TRAILER<NEAREST RESIDENT> |
| 36 | 16.0 | 148 | HAVRE DE GRACE(MD.) |
| 37 | 16.0 | 148 | HAVRE DE GRACE (MD.) |
| 38 | 16.0 | 148 | HAVRE DE GRACE (MD.) |

MAP FOR PEACH BOTTOM

Map will be provided for this site in the future.

PERRY
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870916-880127 134 DAYS
 FIELD TIME 84 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE(mR) | | | NET EXPOSURE RATE | | | |
|----------------|-------------------|---------------|--------------------|-----|------|-------------------|-----|-----|------|
| | AZIMUTH (deg.) | DIST (mi.) | + - | Rdm | Tot. | mR/Std.Qtr. | + - | Rdm | Tot. |
| 001 | 72 | 5.0 | 19.8 | +- | .6 | 3.0 | NO | NET | DATA |
| 003 | 88 | 5.5 | 19.6 | +- | .6 | 3.9 | NO | NET | DATA |
| 004 | 112 | 6.0 | 20.5 | +- | .6 | 3.1 | NO | NET | DATA |
| 005 | 130 | 4.0 | 21.3 | +- | .6 | 3.2 | NO | NET | DATA |
| 006 | 155 | 5.0 | 22.5 | +- | .7 | 3.4 | NO | NET | DATA |
| 007 | 178 | 5.2 | 21.9 | +- | .7 | 3.3 | NO | NET | DATA |
| 008 | 205 | 4.6 | 25.3 | +- | .8 | 3.0 | NO | NET | DATA |
| 009 | 220 | 5.2 | 20.1 | +- | .6 | 3.0 | NO | NET | DATA |
| 010 | 225 | 7.4 | 23.1 | +- | .7 | 3.0 | NO | NET | DATA |
| 011 | 240 | 5.0 | 22.7 | +- | .7 | 3.4 | NO | NET | DATA |
| 012 | 225 | 19. | 22.2 | +- | .7 | 3.0 | NO | NET | DATA |
| 013 | 225 | 19. | 21.9 | +- | .7 | 3.0 | NO | NET | DATA |
| 014 | 212 | 12. | 26.2 | +- | .8 | 3.9 | NO | NET | DATA |
| 015 | 240 | 1.4 | 21.1 | +- | .6 | 3.0 | NO | NET | DATA |
| 016 | 222 | 0.0 | 24.0 | +- | .7 | 3.7 | NO | NET | DATA |
| 017 | 205 | 0.7 | 19.4 | +- | .6 | 3.0 | NO | NET | DATA |
| 018 | 100 | 0.0 | 22.2 | +- | .7 | 3.0 | NO | NET | DATA |
| 019 | 152 | 1.0 | 22.7 | +- | .7 | 3.4 | NO | NET | DATA |
| 020 | 123 | 1.0 | 19.9 | +- | .6 | 3.0 | NO | NET | DATA |
| 021 | 105 | 1.4 | 19.0 | +- | .5 | 3.7 | NO | NET | DATA |
| 022 | 05 | 1.2 | 27.0 | +- | .8 | 4.1 | NO | NET | DATA |
| 023 | 65 | 1.4 | 21.0 | +- | .6 | 3.3 | NO | NET | DATA |
| 024 | 40 | 0.0 | 18.9 | +- | .6 | 3.0 | NO | NET | DATA |
| 025 | 40 | 0.0 | 25.7 | +- | .8 | 3.0 | NO | NET | DATA |
| 026 | 102 | 0.0 | 24.0 | +- | .7 | 3.7 | NO | NET | DATA |
| 027 | 175 | 2.0 | 21.0 | +- | .7 | 3.3 | NO | NET | DATA |

NO TRANSIT DOSE CALCULATED (TLD CONTROLS MISSING OR OTHERWISE NOT COMPLETE)

PERRY
FOR THE PERIOD 870916-880127

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | NET AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std. Dev. | # IN GROUP |
|---------------------|--|------------|
| 348.75-11.25 (N) | NO DATA+-NO DATA | 0 |
| 11.25-33.75 (NNE) | NO DATA+-NO DATA | 0 |
| 33.75-56.25 (NE) | 14.9 \pm 3.2 | 2 |
| 56.25-78.75 (ENE) | 13.9 \pm .9 | 2 |
| 78.75-101.25 (E) | 15.6 \pm 3.5 | 2 |
| 101.25-123.75 (ESE) | 12.9 \pm .8 | 3 |
| 123.75-146.25 (SE) | 14.3 \pm 8.0 | 1 |
| 146.25-168.75 (SSE) | 15.2 \pm .1 | 2 |
| 168.75-191.25 (S) | 15.2 \pm 1.0 | 4 |
| 191.25-213.75 (SSW) | 15.0 \pm 2.0 | 2 |
| 213.75-236.25 (SW) | 15.0 \pm 1.6 | 3 |
| 236.25-258.75 (WSW) | 14.7 \pm .8 | 2 |
| 258.75-281.25 (W) | NO DATA+-NO DATA | 0 |
| 281.25-303.75 (WNW) | NO DATA+-NO DATA | 0 |
| 303.75-326.25 (NW) | NO DATA+-NO DATA | 0 |
| 326.25-348.75 (NNW) | NO DATA+-NO DATA | 0 |

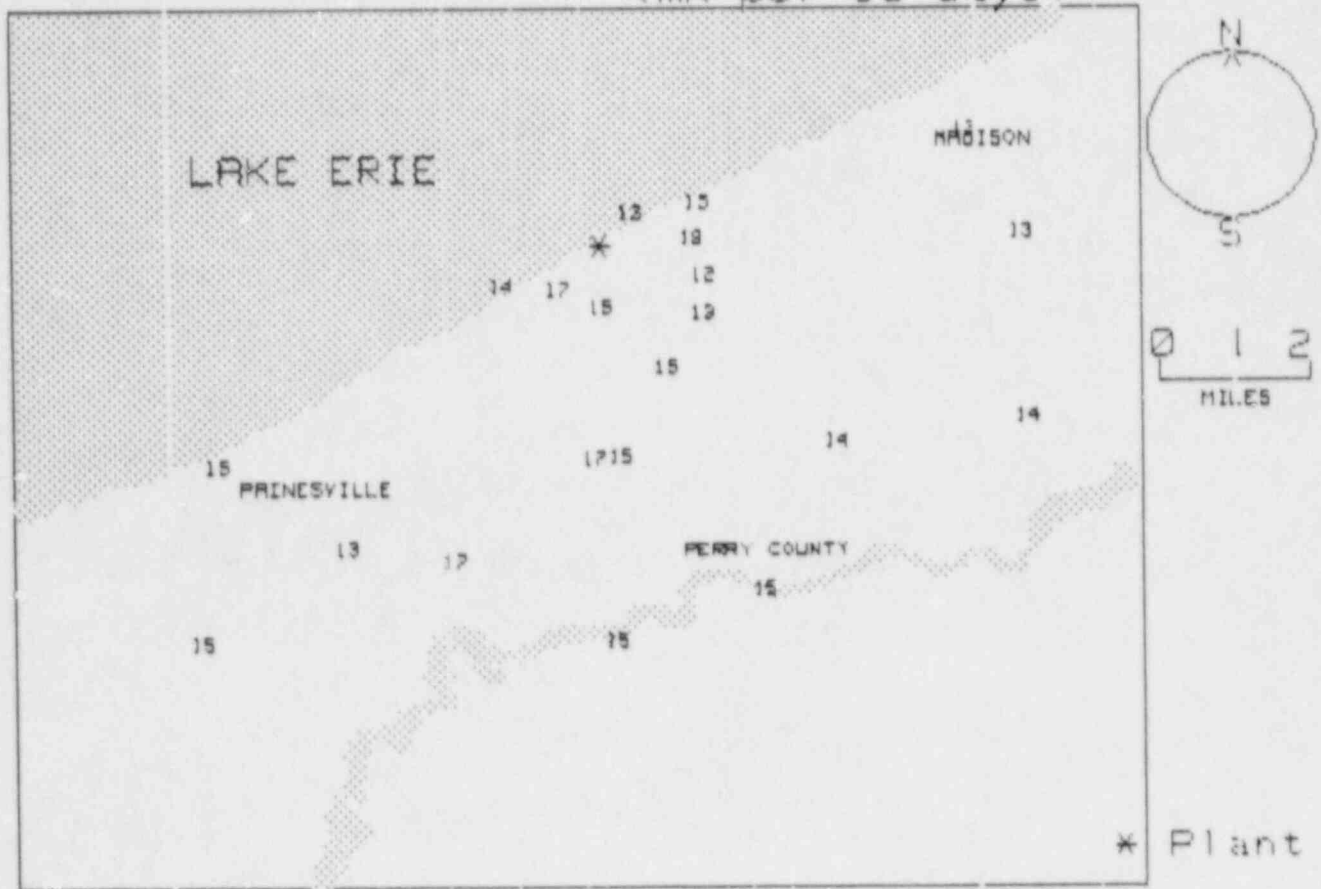
| DISTANCE (mi) FROM THE REACTOR | NET AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std. Dev. | # IN GROUP |
|--------------------------------|--|------------|
| 0-2 | 14.7 \pm 2.0 | 11 |
| 2-5 | 15.2 \pm 1.4 | 6 |
| >5 | 14.2 \pm .8 | 6 |
| UPWIND CONTROL DATA | 15.7 \pm 1.6 | 3 |

PERRY

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|---------------------------------|
| 1 | 5.0 | 72 | CHAPEL ACROSS FROM REDBIRD RD. |
| 3 | 5.5 | 88 | HUBBARD RD.-NEAR RT. 20 |
| 4 | 6.0 | 112 | HUBBARD RD (LAKE ST) NEAR RT 84 |
| 5 | 4.0 | 130 | HOOD & S. RIDGE RD (RT 84) |
| 6 | 5.0 | 155 | TURNEY & RIVER RD |
| 7 | 5.2 | 178 | WEBB & RIVER RD |
| 8 | 4.6 | 205 | LANE RD AT RR TRACKS |
| 9 | 5.2 | 220 | HALE & LEE RDS (NEAR SCH.) |
| 10 | 7.4 | 225 | FOBES ST-PAINESVILLE NEAR RT 20 |
| 11 | 5.8 | 240 | HARDY RD BY LAKE ERIE |
| 12 | 19.0 | 225 | ST CLAIR CEI SUBSTATION |
| 13 | 19.0 | 225 | ST CLAIR CEI SUBSTATION |
| 14 | 12.0 | 212 | AUBURN-CONCORD RDS |
| 15 | 1.4 | 248 | PARMLY RD PARK BY L. ERIE |
| 16 | .8 | 225 | PARMLY RD ACROSS FM SUBSTATION |
| 17 | .7 | 205 | PARMLY RD ACROSS FR TEST FAC. |
| 18 | .8 | 180 | PARMLY RD ENTRANCE TO PARK LOT |
| 19 | 1.8 | 152 | RT 20 NEAR PARMLY RD |
| 20 | 1.6 | 123 | RT 20 - ANTIOCH RD |
| 21 | 1.4 | 105 | 2941 ANTIOCH RD (HOME) |
| 22 | 1.2 | 85 | 2828 ANTIOCH RD (HOME) |
| 23 | 1.4 | 65 | ANTIOCH RD |
| 24 | .6 | 40 | END LOCKWOOD CIR. |
| 25 | .6 | 40 | LOCKWOOD RD |
| 26 | 2.8 | 182 | 3911 CENTER RD - PERRY |
| 27 | 2.8 | 175 | 4274 MANCHESTER ST - PERRY |

NRC TLD DOSES FOR PERRY AREA
(mR per 90 days)



PILGRIM
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870918-880126 131 DAYS
 FIELD TIME 100 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE(mR) | | NET EXPOSURE RATE | |
|----------------|-------------------|--------------|--------------------|--------------------------|-----------------------------|-----|
| | AZIMUTH (deg.) | DIST (m.) | + Rdm; Tot. | - | MR/Std. Qtr. + Rdm; Tot. | - |
| 001 | 288 | .1 | 2.3 | +.00 | 1.0 | 7.0 |
| 002 | 310 | .2 | 2.3 | +.00 | 1.0 | 7.0 |
| 005 | 260 | .9 | MIS | ING OR DAMAGED DOSIMETER | | |
| 006 | 260 | 1.7 | 2.3 | +.00 | 1.0 | 7.0 |
| 007 | 260 | .7 | 2.3 | +.00 | 1.0 | 7.0 |
| 008 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 009 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 010 | 260 | .4 | MIS | ING OR DAMAGED DOSIMETER | | |
| 011 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 012 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 013 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 014 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 016 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 018 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 019 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 021 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 022 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 023 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 024 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 025 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 026 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 027 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 028 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 029 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 030 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 031 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 032 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 033 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 034 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 035 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 036 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 037 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 038 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 039 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 040 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 041 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 042 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 043 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 044 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 045 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 046 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 047 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 048 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 049 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 050 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 051 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 052 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 053 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 054 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 055 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 056 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 057 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 058 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 059 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 060 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 061 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 062 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 063 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 064 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 065 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 066 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 067 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 068 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 069 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 070 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 071 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 072 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 073 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 074 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 075 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 076 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 077 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 078 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 079 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 080 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 081 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 082 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 083 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 084 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 085 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 086 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 087 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 088 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 089 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 090 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 091 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 092 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 093 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 094 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 095 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 096 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 097 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 098 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 099 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |
| 100 | 260 | .4 | 2.3 | +.00 | 1.0 | 7.0 |

COMMENTS:

STATION 1 IS ON LICENSEE PROPERTY (PILGRIM OVERLOOK AREA).
 ACCESS IS CONTROLLED

PILGRIM
FOR THE PERIOD 870918-880126

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) +-Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | NO DATA+-NO DATA | 0 |
| 11.25-33.75 (NNE) | NO DATA+-NO DATA | 0 |
| 33.75-56.25 (NE) | NO DATA+-NO DATA | 0 |
| 56.25-78.75 (ENE) | NO DATA+-NO DATA | 0 |
| 78.75-101.25 (E) | NO DATA+-NO DATA | 0 |
| 101.25-123.75 (ESE) | NO DATA+-NO DATA | 0 |
| 123.75-146.25 (SE) | 13.2 +- 1.1 | 4 |
| 146.25-168.75 (SSE) | 14.7 +- 1.6 | 5 |
| 168.75-191.25 (S) | 12.8 +- 2.0 | 3 |
| 191.25-213.75 (SSW) | 12.6 +- .5 | 2 |
| 213.75-236.25 (SW) | 12.4 +- .4 | 4 |
| 236.25-258.75 (WSW) | 14.0 +- 2.5 | 2 |
| 258.75-281.25 (W) | 14.2 +- 3.0 | 5 |
| 281.25-303.75 (WNW) | 14.5 +- 1.8 | 2 |
| 303.75-326.25 (NW) | 15.5 +- 0.0 | 1 |
| 326.25-348.75 (NNW) | NO DATA+-NO DATA | 0 |
| | | |

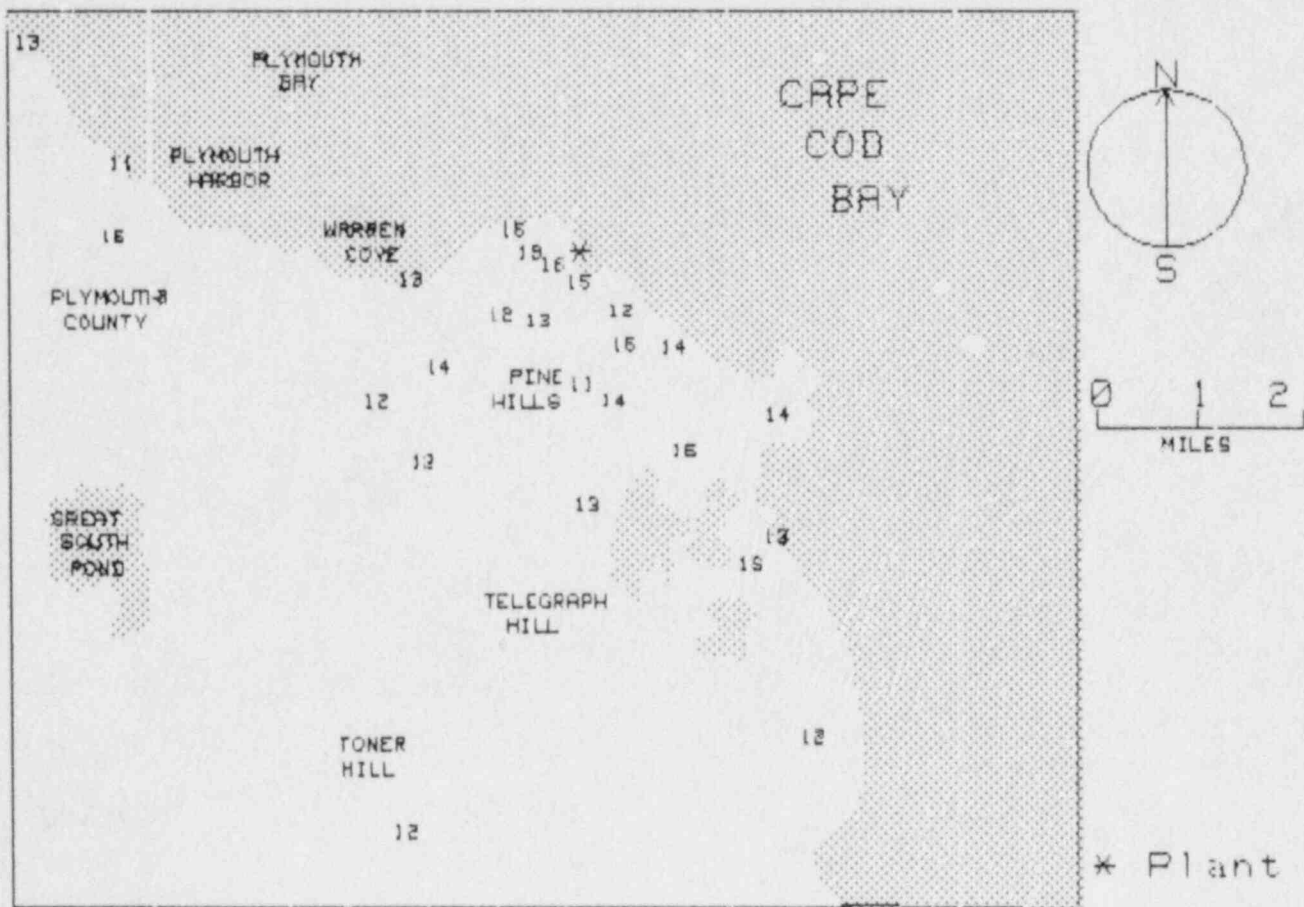
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) +-Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 14.1 +- 2.0 | 16 |
| 2-5 | 13.3 +- 1.7 | 9 |
| >5 | 12.6 +- .8 | 3 |
| UPWIND CONTROL DATA | 15.7 +- 1.0 | 3 |

PILGRIM

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|--------------------------|
| 1 | .1 | 288 | PILGRIM OVERLOOK |
| 2 | .2 | 310 | STATION PARKING AREA |
| 5 | .7 | 289 | ROCKY HILL ROAD |
| 6 | 1.7 | 261 | ROCKY HILL ROAD |
| 7 | .5 | 270 | ROCKY HILL ROAD |
| 8 | .3 | 247 | ROCKY HILL ROAD |
| 9 | .3 | 224 | ROCKY HILL ROAD |
| 10 | .3 | 205 | ROCKY HILL ROAD |
| 11 | .3 | 184 | ROCKY HILL ROAD |
| 12 | .4 | 159 | ROCKY HILL ROAD |
| 13 | .7 | 146 | ROCKY HILL ROAD |
| 14 | 1.0 | 155 | ROCKY HILL ROAD |
| 16 | 1.3 | 136 | WHITE HORSE BEACH |
| 18 | .8 | 212 | CLEFT ROCK & Rt 3A |
| 19 | 1.0 | 232 | Rt 3A |
| 21 | 1.6 | 256 | Rt 3A |
| 22 | 2.5 | 130 | MANOMET POINT |
| 23 | 3.4 | 146 | MANOMET ELEMENTARY |
| 25 | 1.5 | 168 | Rt 3A |
| 26 | 1.3 | 180 | Rt 3A |
| 27 | 1.8 | 231 | DOTON ROAD |
| 30 | 2.2 | 153 | NEW BEDFORD SUBSTATION |
| 31 | 2.5 | 179 | BEAVER DAM ROAD |
| 32 | 2.6 | 217 | OLD SANDWICH ROAD |
| 33 | 2.5 | 234 | SANDWICH & CLIFFORD |
| 37 | 4.2 | 264 | SANDWICH ROAD SUBSTATION |
| 38 | 3.5 | 152 | CHURCH HILL LANDING |
| 39 | 5.3 | 155 | SURFSIDE BEACH |
| 40 | 4.6 | 272 | JORDAN HOSPITAL |
| 42 | 4.6 | 281 | PLYMOUTH LIBRARY |
| 43 | 5.8 | 291 | NORTH PLYMOUTH |
| 45 | 6.0 | 197 | SHAW RESIDENCE |
| 47 | 26.0 | 301 | WEYMOUTH |
| 48 | 26.0 | 301 | WEYMOUTH |
| 49 | 26.0 | 301 | WEYMOUTH |

NRC TLD DOSES FOR PILGRIM AREA (mR per 90 days)



PRAIRIE ISLAND
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870916-880127 134 DAYS
 FIELD TIME 96 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|----------------|----------------|------------|---------------------|-------|-------------------|-------------|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | Tot. | mR/Std. Qtr. | + Rdm; Tot. |
| 001 | 312 | 17. | 23.5 | +- .7 | 19.2 | +- .7 |
| 002 | 310 | 15. | 22.3 | +- .7 | 18.2 | +- .7 |
| 003 | 310 | 15. | 21.8 | +- .7 | 17.6 | +- .7 |
| 004 | 308 | 5.5 | 20.9 | +- .6 | 16.8 | +- .7 |
| 005 | 297 | 4.1 | 21.2 | +- .6 | 17.1 | +- .7 |
| 006 | 287 | 1.3 | 21.9 | +- .7 | 17.8 | +- .7 |
| 007 | 313 | 0.8 | 20.1 | +- .6 | 16.1 | +- .6 |
| 008 | 244 | 0.5 | 20.7 | +- .6 | 16.6 | +- .7 |
| 009 | 194 | 0.6 | 20.6 | +- .6 | 16.6 | +- .7 |
| 010 | 155 | 0.5 | 22.5 | +- .7 | 18.3 | +- .7 |
| 011 | 129 | 1.6 | 20.2 | +- .6 | 16.1 | +- .6 |
| 012 | 153 | 1.4 | 19.8 | +- .6 | 15.8 | +- .6 |
| 013 | 217 | 0.6 | 21.5 | +- .6 | 17.4 | +- .7 |
| 014 | 178 | 0.8 | 21.6 | +- .6 | 17.5 | +- .7 |
| 015 | 272 | 1.9 | 19.3 | +- .6 | 15.3 | +- .6 |
| 016 | 262 | 4.6 | 25.1 | +- .8 | 20.7 | +- .8 |
| 017 | 250 | 4.3 | 22.7 | +- .7 | 18.5 | +- .7 |
| 018 | 225 | 4.1 | 25.8 | +- .8 | 21.4 | +- .8 |
| 019 | 233 | 6.7 | 20.1 | +- .7 | 16.1 | +- .7 |
| 020 | 200 | 4.9 | 23.6 | +- .7 | 19.3 | +- .7 |
| 021 | 187 | 4.7 | 23.7 | +- .7 | 19.4 | +- .7 |
| 022 | 160 | 4.4 | 22.1 | +- .7 | 18.0 | +- .7 |
| 023 | 140 | 4.7 | 23.8 | +- .7 | 19.5 | +- .7 |
| 024 | 131 | 6.6 | 23.6 | +- .7 | 19.3 | +- .7 |
| 025 | 117 | 4.9 | 21.3 | +- .6 | 17.9 | +- .7 |
| 026 | 88 | 1.9 | 21.4 | +- .6 | 17.7 | +- .7 |
| 027 | 69 | 1.8 | 21.6 | +- .6 | 17.9 | +- .7 |
| 028 | 47 | 1.5 | 22.0 | +- .6 | 18.3 | +- .7 |
| 029 | 19 | 1.5 | 21.7 | +- .6 | 18.0 | +- .7 |
| 030 | 356 | 1.9 | 21.6 | +- .6 | 17.7 | +- .7 |
| 031 | 346 | 2.4 | 24.1 | +- .7 | 19.9 | +- .7 |
| 032 | 340 | 3.8 | 24.1 | +- .7 | 19.9 | +- .7 |
| 033 | 8 | 4.6 | 24.5 | +- .7 | 20.2 | +- .7 |
| 034 | 17 | 4.7 | 23.8 | +- .7 | 19.6 | +- .7 |
| 035 | 45 | 11. | 21.5 | +- .6 | 17.4 | +- .7 |
| 036 | 48 | 4.7 | 22.3 | +- .7 | 18.1 | +- .7 |
| 037 | 61 | 4.2 | 23.8 | +- .7 | 19.5 | +- .7 |
| 038 | 86 | 4.9 | 22.7 | +- .7 | 18.5 | +- .7 |
| 039 | 107 | 9.1 | 20.9 | +- .6 | 17.4 | +- .7 |
| 040 | 111 | 3.7 | 21.6 | +- .6 | 17.7 | +- .7 |
| TRANSIT DOSE = | 2.9 | +- .3 | 4.9 | +- .9 | | |

PRAIRIE ISLAND
FOR THE PERIOD 870916-880127

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std. Dev. | # IN GROUP |
|---------------------|--|------------|
| 348.75-11.25 (N) | 18.8 \pm 1.9 | 2 |
| 11.25-33.75 (NNE) | 18.2 \pm .9 | 2 |
| 33.75-56.25 (NE) | 17.8 \pm .3 | 3 |
| 56.25-78.75 (ENE) | 18.5 \pm 1.4 | 2 |
| 78.75-101.25 (E) | 17.9 \pm .9 | 2 |
| 101.25-123.75 (ESE) | 17.2 \pm .3 | 3 |
| 123.75-146.25 (SE) | 18.1 \pm 1.7 | 3 |
| 146.25-168.75 (SSE) | 17.4 \pm 1.4 | 3 |
| 168.75-191.25 (S) | 18.5 \pm 1.4 | 2 |
| 191.25-213.75 (SSW) | 17.9 \pm 2.0 | 2 |
| 213.75-236.25 (SW) | 18.3 \pm 2.0 | 3 |
| 236.25-258.75 (WSW) | 17.8 \pm 1.3 | 2 |
| 258.75-281.25 (W) | 18.0 \pm 3.8 | 2 |
| 281.25-303.75 (WNW) | 17.5 \pm .5 | 2 |
| 303.75-326.25 (NW) | 16.4 \pm .5 | 2 |
| 326.25-348.75 (NNW) | 19.9 \pm .1 | 2 |
| | | |

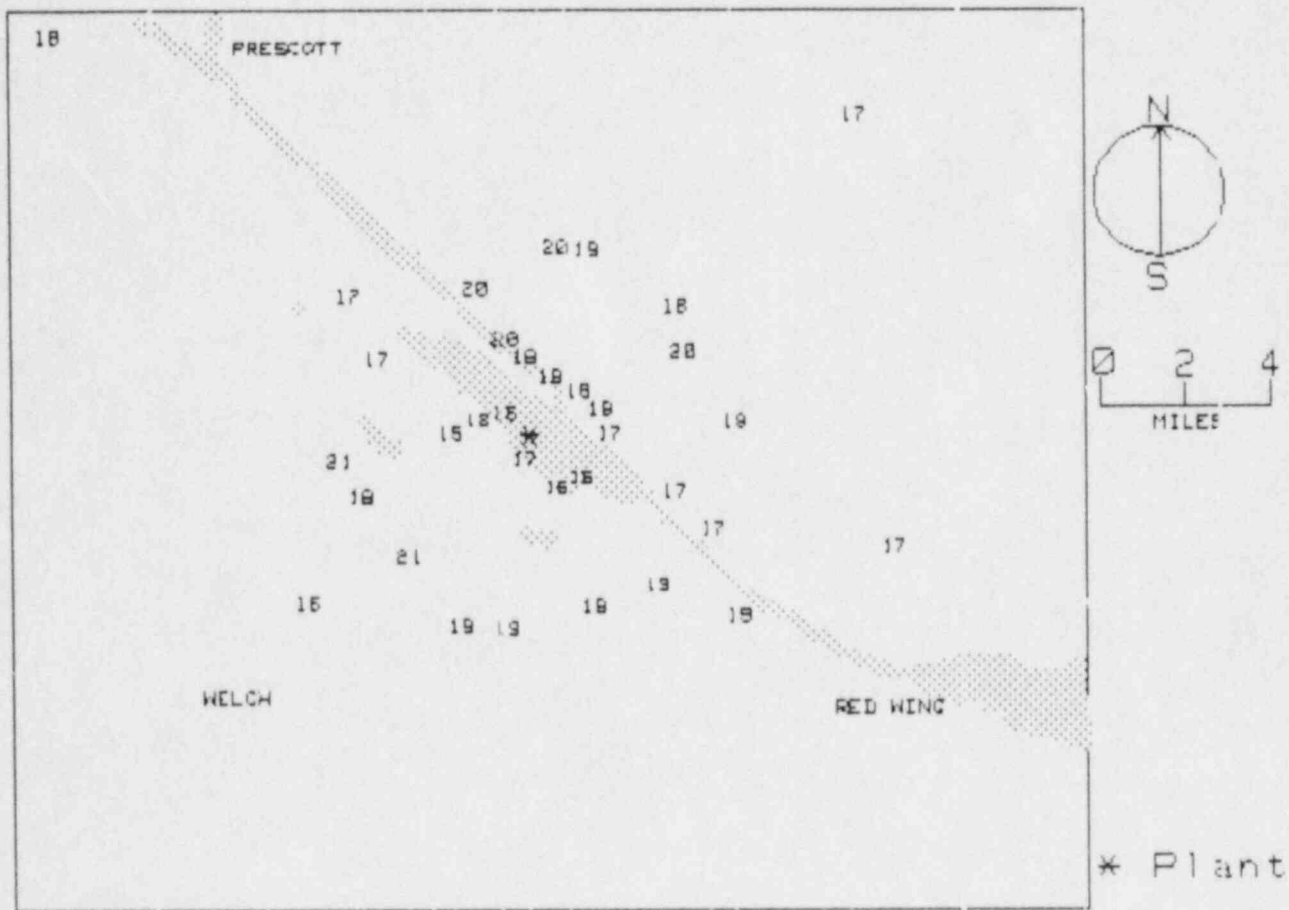
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std. Dev. | # IN GROUP ^a |
|-------------------------------|--|-------------------------|
| 0-2 | 17.0 \pm .9 | 15 |
| 2-5 | 19.0 \pm 1.2 | 17 |
| >5 | 17.3 \pm 1.2 | 5 |
| UPWIND CONTROL DATA | 18.3 \pm .8 | 3 |

PRAIRIE ISLAND

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|--|
| 1 | 17.0 | 312 | HASTINGS (MN) |
| 2 | 15.0 | 310 | HASTINGS (MN) |
| 3 | 15.0 | 310 | HASTINGS (MN) |
| 4 | 5.5 | 308 | COUNTY RD. 18 |
| 5 | 4.1 | 297 | COUNTY RD. 18 |
| 6 | 1.3 | 287 | COUNTY RD. 18 |
| 7 | .8 | 313 | COUNTY RD. 18/RD. TO RESERVATION |
| 8 | .5 | 244 | COUNTY RD. 18 |
| 9 | .6 | 194 | COUNTY RD. 18 |
| 10 | .5 | 155 | SUTER RESIDENCE |
| 11 | 1.6 | 129 | LOCK & DAM 3 |
| 12 | 1.4 | 153 | COUNTY RD. 18 |
| 13 | .6 | 217 | COUNTY RD. 18 |
| 14 | .8 | 178 | COUNTY RD. 18 |
| 15 | 1.9 | 272 | SOUTH ACCESS RD. |
| 16 | 4.6 | 262 | NW OF US. 61/COUNTY RD. 18 |
| 17 | 4.3 | 250 | U.S. 61 |
| 18 | 4.1 | 225 | Y - INTERSECT. SECTIONS 13/14/23/24 ADJOIN |
| 19 | 6.7 | 233 | COUNTY RD. 7 IN WELCH |
| 20 | 4.9 | 200 | LEESON LANE |
| 21 | 4.7 | 187 | T - INTERSECTION BETWEEN SECTIONS 29 & 32 |
| 22 | 4.4 | 170 | COUNTY RD. 53 |
| 23 | 4.7 | 140 | TYLER RD. |
| 24 | 6.6 | 131 | RED WING (CITY HALL) |
| 25 | 4.9 | 117 | TIMBERLANE RD. |
| 26 | 1.9 | 88 | LOWER RIVER RD. |
| 27 | 1.8 | 69 | LOWER RIVER RD. |
| 28 | 1.6 | 47 | LOWER RIVER RD. |
| 29 | 1.5 | 19 | LOWER RIVER RD. |
| 30 | 1.9 | 356 | LOWER RIVER RD. |
| 31 | 2.4 | 346 | WIND RIVER RD. |
| 32 | 3.8 | 340 | HOLST RD./AVERY AVE. |
| 33 | 4.6 | 8 | OAK RIDGE RD./SPRING GREEN RD. |
| 34 | 4.7 | 17 | COUNTY RD 00 |
| 35 | 11.0 | 45 | ELLSWORTH (WI) |
| 36 | 4.7 | 48 | COUNTY RD. K |
| 37 | 4.2 | 61 | NELSON DR. |
| 38 | 4.9 | 86 | FISHER COULEE RD. |
| 39 | 9.1 | 107 | HWY. 35 (WI) |
| 40 | 3.7 | 111 | COUNTY RD. K |

NRC "LD DOSES FOR PRAIRIE ISLAND AREA (mR per 90 days)



QUAD CITIES
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870914-880202 142 DAYS
 FIELD TIME 91 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|--------------------------------|-------------------|---------------|------------------------------|-----|-------------------------------|-----|
| | AZIMUTH (deg.) | DIST (mi.) | + - Rdm; Tot. | | mR/Std. Qtr. + - Rdm; Tot. | |
| 001 | 7 | 0.7 | 19.4 +- .6 | 0.2 | 15.2 +- .7 | 5.0 |
| 002 | 17 | 1.2 | 23.3 +- .7 | 0.5 | 19.1 +- .8 | 5.1 |
| 003 | 45 | 1.7 | 20.5 +- .6 | 0.1 | 16.4 +- .7 | 5.0 |
| 004 | 65 | 1.1 | 19.8 +- .6 | 0.0 | 15.7 +- .7 | 5.0 |
| 005 | 90 | 0.8 | 20.8 +- .6 | 0.1 | 16.7 +- .7 | 5.0 |
| 006 | 136 | 1.1 | 22.7 +- .7 | 0.4 | 18.5 +- .8 | 5.0 |
| 007 | 175 | 1.0 | 22.9 +- .7 | 0.4 | 18.7 +- .8 | 5.0 |
| 008 | 157 | 2.0 | 23.1 +- .7 | 0.5 | 18.9 +- .8 | 5.1 |
| 009 | 186 | 3.1 | 19.3 +- .6 | 0.9 | 15.1 +- .7 | 5.0 |
| 010 | 188 | 7.7 | 28.8 +- .9 | 0.3 | 24.5 +- .9 | 5.0 |
| 011 | 156 | 4.2 | 21.7 +- .7 | 0.3 | 17.6 +- .7 | 5.0 |
| 012 | 142 | 4.8 | 21.0 +- .6 | 0.3 | 16.9 +- .7 | 5.0 |
| 013 | 121 | 3.0 | 20.6 +- .6 | 0.1 | 16.5 +- .7 | 5.0 |
| 014 | 114 | 2.0 | 20.1 +- .6 | 0.0 | 15.9 +- .7 | 5.0 |
| 015 | 86 | 2.0 | 20.7 +- .6 | 0.1 | 16.5 +- .7 | 5.0 |
| 016 | 62 | 4.4 | 23.9 +- .7 | 0.3 | 19.7 +- .8 | 5.1 |
| 017 | 48 | 6.1 | 22.1 +- .7 | 0.3 | 17.9 +- .7 | 5.0 |
| 018 | 39 | 8.0 | 20.8 +- .6 | 0.1 | 16.6 +- .7 | 5.0 |
| 019 | 36 | 4.7 | 19.9 +- .6 | 0.0 | 15.0 +- .7 | 5.0 |
| 020 | 16 | 4.3 | 21.7 +- .7 | 0.3 | 17.8 +- .7 | 5.0 |
| 021 | 358 | 4.2 | 26.4 +- .8 | 0.3 | 22.2 +- .9 | 5.3 |
| 022 | 336 | 4.1 | 23.2 +- .7 | 0.5 | 19.8 +- .8 | 5.1 |
| 023 | 337 | 5.7 | 22.5 +- .7 | 0.4 | 18.3 +- .7 | 5.0 |
| 024 | 317 | 4.4 | 21.6 +- .6 | 0.2 | 17.4 +- .7 | 5.0 |
| 025 | 295 | 4.1 | 21.3 +- .6 | 0.2 | 17.1 +- .7 | 5.0 |
| 026 | 282 | 6.9 | 19.8 +- .6 | 0.0 | 14.8 +- .7 | 5.0 |
| 027 | 265 | 4.3 | MISSING OR DAMAGED DOSIMETER | | | |
| 028 | 253 | 4.0 | 20.8 +- .6 | 0.1 | 16.6 +- .7 | 5.0 |
| 029 | 356 | 2.0 | 20.7 +- .6 | 0.1 | 16.5 +- .7 | 5.0 |
| 030 | 335 | 1.9 | 20.1 +- .6 | 0.0 | 16.0 +- .7 | 5.0 |
| 031 | 317 | 2.6 | MISSING OR DAMAGED DOSIMETER | | | |
| 032 | 295 | 2.5 | 19.9 +- .6 | 0.0 | 15.7 +- .7 | 5.0 |
| 033 | 266 | 2.0 | MISSING OR DAMAGED DOSIMETER | | | |
| 034 | 248 | 2.2 | 21.7 +- .7 | 0.3 | 17.6 +- .7 | 5.0 |
| 035 | 229 | 2.6 | 19.9 +- .6 | 0.0 | 15.0 +- .7 | 5.0 |
| 036 | 204 | 3.4 | 18.7 +- .6 | 0.0 | 14.6 +- .7 | 5.0 |
| 037 | 194 | 8.3 | MISSING OR DAMAGED DOSIMETER | | | |
| 038 | 224 | 4.6 | 19.8 +- .6 | 0.0 | 15.7 +- .7 | 5.0 |
| 039 | 301 | 15. | 20.7 +- .6 | 0.1 | 16.6 +- .7 | 5.0 |
| 040 | 301 | 15. | 20.9 +- .6 | 0.1 | 16.7 +- .7 | 5.0 |
| 041 | 301 | 15. | 19.1 +- .6 | 0.9 | 14.9 +- .7 | 5.0 |
| TRANSIT DOSE = 3.9 +- .3 ; 5.0 | | | | | | |

QUAD CITIES
FOR THE PERIOD 870914-880202

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 18.0 \pm 3.7 | 3 |
| 11.25-33.75 (NNE) | 18.4 \pm 1.1 | 2 |
| 33.75-56.25 (NE) | 16.7 \pm .8 | 4 |
| 56.25-78.75 (ENE) | 17.7 \pm 2.9 | 2 |
| 78.75-101.25 (E) | 16.6 \pm .1 | 2 |
| 101.25-123.75 (ESE) | 16.2 \pm .4 | 2 |
| 123.75-146.25 (SE) | 17.7 \pm 1.2 | 2 |
| 146.25-168.75 (SSE) | 18.3 \pm 1.0 | 2 |
| 168.75-191.25 (S) | 19.5 \pm 4.7 | 3 |
| 191.25-213.75 (SSW) | 14.6 \pm 0.0 | 1 |
| 213.75-236.25 (SW) | 15.7 \pm .1 | 2 |
| 236.25-258.75 (WSW) | 17.1 \pm .7 | 2 |
| 258.75-281.25 (W) | NO DATA+-NO DATA | 0 |
| 281.25-303.75 (WNW) | 15.9 \pm 1.1 | 3 |
| 303.75-326.25 (NW) | 17.4 \pm 0.0 | 1 |
| 326.25-348.75 (NNW) | 17.8 \pm 1.6 | 3 |
| | | |

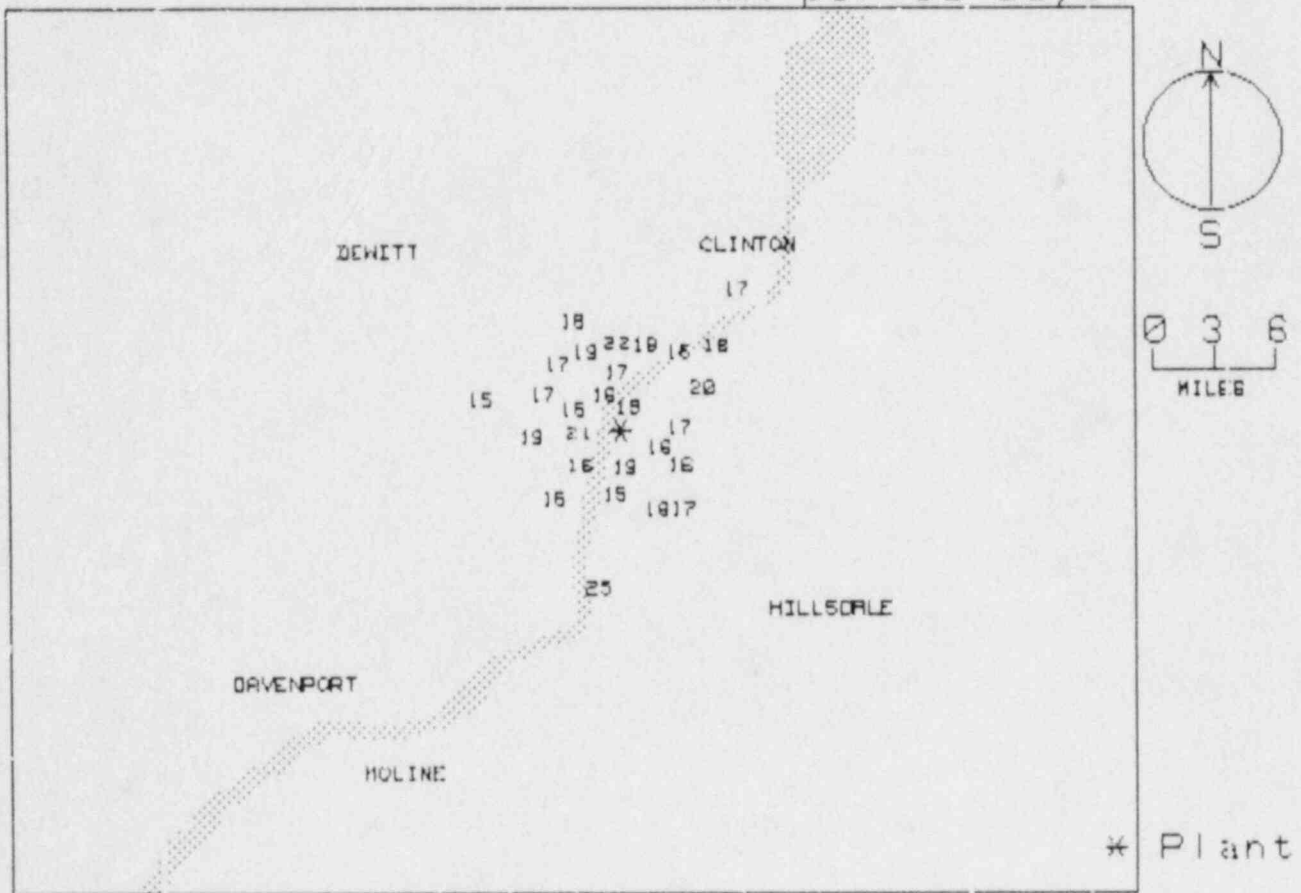
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 17.1 \pm 1.5 | 10 |
| 2-5 | 17.0 \pm 1.6 | 19 |
| >5 | 18.4 \pm 3.7 | 5 |
| UPWIND CONTROL DATA | 16.1 \pm 1.0 | 3 |

QUAD CITIES

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|--|
| 1 | .7 | 7 | RIVER RD. |
| 2 | 1.2 | 17 | RIVER RD. |
| 3 | 1.7 | 45 | 222 AVE. |
| 4 | 1.1 | 65 | HWY. 84 |
| 5 | .8 | 90 | HWY. 84 |
| 6 | 1.1 | 136 | 192ND AVE. |
| 7 | 1.8 | 175 | 178TH AVE. |
| 8 | 2.0 | 157 | 236TH ST. |
| 9 | 3.1 | 186 | 9TH ST. |
| 10 | 7.7 | 188 | AGNES ST. |
| 11 | 4.2 | 156 | COUNTY RD. BB |
| 12 | 4.8 | 142 | COUNTY RD. BB |
| 13 | 3.3 | 121 | 266TH ST. |
| 14 | 2.0 | 114 | 192ND AVE. |
| 15 | 2.8 | 86 | 206TH AVE. |
| 16 | 4.4 | 62 | MEREDOSIA RD. |
| 17 | 6.1 | 48 | PEARL ST. |
| 18 | 8.8 | 39 | CLINTON (IA) |
| 19 | 4.7 | 36 | 13TH AVE. |
| 20 | 4.3 | 16 | COUNTY RD. F21 |
| 21 | 4.2 | 358 | COUNTY RD. F21 |
| 22 | 4.1 | 336 | RD. IN SECTION 35 (T.81N.-R.5E) |
| 23 | 5.7 | 337 | 4TH ST. (LOW MOOR) |
| 24 | 4.4 | 317 | RD. IN R.5E (T.81N & T.80N) |
| 25 | 4.1 | 295 | COUNTY RD. Z36 |
| 26 | 6.9 | 282 | COUNTY RD Z30 |
| 27 | 4.3 | 265 | RD. BETWEEN SECTIONS 20 & 21 IN T.80N-R.5E |
| 28 | 4.0 | 253 | COUNTY RD. F33 |
| 29 | 2.8 | 356 | U.S. 67 |
| 30 | 1.9 | 335 | HANSON'S BOAT DOCKS |
| 31 | 2.6 | 317 | U.S. 67 |
| 32 | 2.5 | 295 | U.S. 67 |
| 33 | 2.0 | 266 | PRINCETON WILDLIFE AREA |
| 34 | 2.2 | 248 | GRAVEL RD. WEST OF PLANT |
| 35 | 2.6 | 229 | GRAVEL RD. WEST OF PLANT |
| 36 | 3.4 | 204 | RIVER DRIVE |
| 37 | 8.3 | 194 | U.S. 67 (LeCLAIRE) |
| 38 | 4.6 | 224 | COUNTY RD. F45 |
| 39 | 15.0 | 301 | DEWITT (IA) |
| 40 | 15.0 | 301 | DEWITT (IA) |
| 41 | 15.0 | 301 | DEWITT (IA) |

NRC TLD DOSES FOR QUAD-CITIES AREA (mR per 90 days)



RANCHO SECO
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870914-880128 137 DAYS
 FIELD TIME 85 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | | | |
|----------------|-------------------|---------------|------------------------------|------|-----------------------|------|-----|-----|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | Tot. | mR/Std. Qtr. + Rdm | Tot. | | |
| 001 | 288 | 16. | 20.6 | +.6 | 3.1 | 17.6 | +.7 | 6.1 |
| 002 | 239 | 12. | 24.0 | +.7 | 3.6 | 21.1 | +.8 | 6.4 |
| 003 | 213 | 16. | 23.1 | +.7 | 3.5 | 20.2 | +.8 | 6.3 |
| 004 | 149 | 9.9 | 19.1 | +.6 | 2.9 | 16.0 | +.7 | 5.9 |
| 005 | 108 | 8.2 | 25.6 | +.8 | 3.8 | 22.8 | +.9 | 6.5 |
| 006 | 86 | 10. | MISSING OR DAMAGED DOSIMETER | | | | | |
| 007 | 83 | 9.7 | 17.1 | +.5 | 2.6 | 13.8 | +.6 | 5.8 |
| 008 | 37 | 7.1 | 17.0 | +.5 | 2.6 | 13.8 | +.6 | 5.8 |
| 009 | 65 | 0.8 | 19.8 | +.6 | 3.0 | 16.7 | +.7 | 6.0 |
| 010 | 43 | 0.7 | 19.5 | +.6 | 2.9 | 16.4 | +.7 | 6.0 |
| 011 | 92 | 0.2 | MISSING OR DAMAGED DOSIMETER | | | | | |
| 012 | 131 | 1.6 | 17.4 | +.5 | 2.6 | 14.2 | +.7 | 5.8 |
| 013 | 358 | 0.6 | 20.7 | +.6 | 3.1 | 17.6 | +.7 | 6.1 |
| 014 | 323 | 0.7 | 18.7 | +.6 | 2.8 | 15.6 | +.7 | 5.9 |
| 015 | 151 | 0.7 | 18.9 | +.6 | 2.8 | 15.8 | +.7 | 5.9 |
| 016 | 219 | 0.9 | 19.3 | +.6 | 2.9 | 16.2 | +.7 | 5.9 |
| 017 | 245 | 1.5 | 19.2 | +.6 | 2.9 | 16.1 | +.7 | 5.9 |
| 018 | 254 | 2.3 | 17.9 | +.5 | 2.7 | 14.7 | +.7 | 5.8 |
| 019 | 323 | 7.0 | 18.6 | +.6 | 2.8 | 15.5 | +.7 | 5.9 |
| 020 | 309 | 6.3 | 19.5 | +.6 | 2.9 | 16.4 | +.7 | 6.0 |
| 021 | 279 | 5.7 | 18.6 | +.6 | 2.8 | 15.5 | +.7 | 5.9 |
| 022 | 244 | 6.4 | 18.9 | +.6 | 2.8 | 15.7 | +.7 | 5.9 |
| 023 | 217 | 4.6 | 18.5 | +.6 | 2.8 | 15.0 | +.7 | 5.9 |
| 024 | 350 | 11. | 20.6 | +.6 | 3.1 | 17.6 | +.7 | 6.1 |
| 025 | 318 | 17. | 19.7 | +.6 | 2.9 | 16.6 | +.7 | 6.0 |
| 026 | 311 | 22. | 20.0 | +.6 | 3.0 | 17.0 | +.7 | 6.0 |
| 027 | 306 | 27. | 17.7 | +.5 | 2.6 | 14.5 | +.7 | 5.8 |
| 028 | 306 | 27. | 18.4 | +.6 | 2.8 | 15.2 | +.7 | 5.9 |
| 029 | 336 | 27. | 16.9 | +.5 | 2.5 | 13.7 | +.6 | 5.7 |
| 030 | 306 | 27. | 15.6 | +.5 | 2.3 | 12.2 | +.6 | 5.7 |
| TRANSIT DOSE = | | | 4.0 | +.3 | 4.0 | | | |

RANCHO SECO
FOR THE PERIOD 870914-880128

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) +-Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 17.6 +- .0 | 2 |
| 11.25-33.75 (NNE) | NO DATA+-NO DATA | 0 |
| 33.75-56.25 (NE) | 15.1 +- 1.9 | 2 |
| 56.25-78.75 (ENE) | 16.7 +- 0.0 | 1 |
| 78.75-101.25 (E) | 13.8 +- 0.0 | 1 |
| 101.25-123.75 (ESE) | 22.8 +- 0.0 | 1 |
| 123.75-146.25 (SE) | 14.2 +- 0.0 | 1 |
| 146.25-168.75 (SSE) | 15.8 +- .1 | 2 |
| 168.75-191.25 (S) | NO DATA+-NO DATA | 0 |
| 191.25-213.75 (SSW) | 20.2 +- 0.0 | 1 |
| 213.75-236.25 (SW) | 15.7 +- .6 | 2 |
| 236.25-258.75 (WSW) | 16.9 +- 2.9 | 4 |
| 258.75-281.25 (W) | 15.5 +- 0.0 | 1 |
| 281.25-303.75 (WNW) | 17.6 +- 0.0 | 1 |
| 303.75-326.25 (NW) | 15.0 +- 1.7 | 6 |
| 326.25-348.75 (NNW) | NO DATA+-NO DATA | 0 |
| | | |

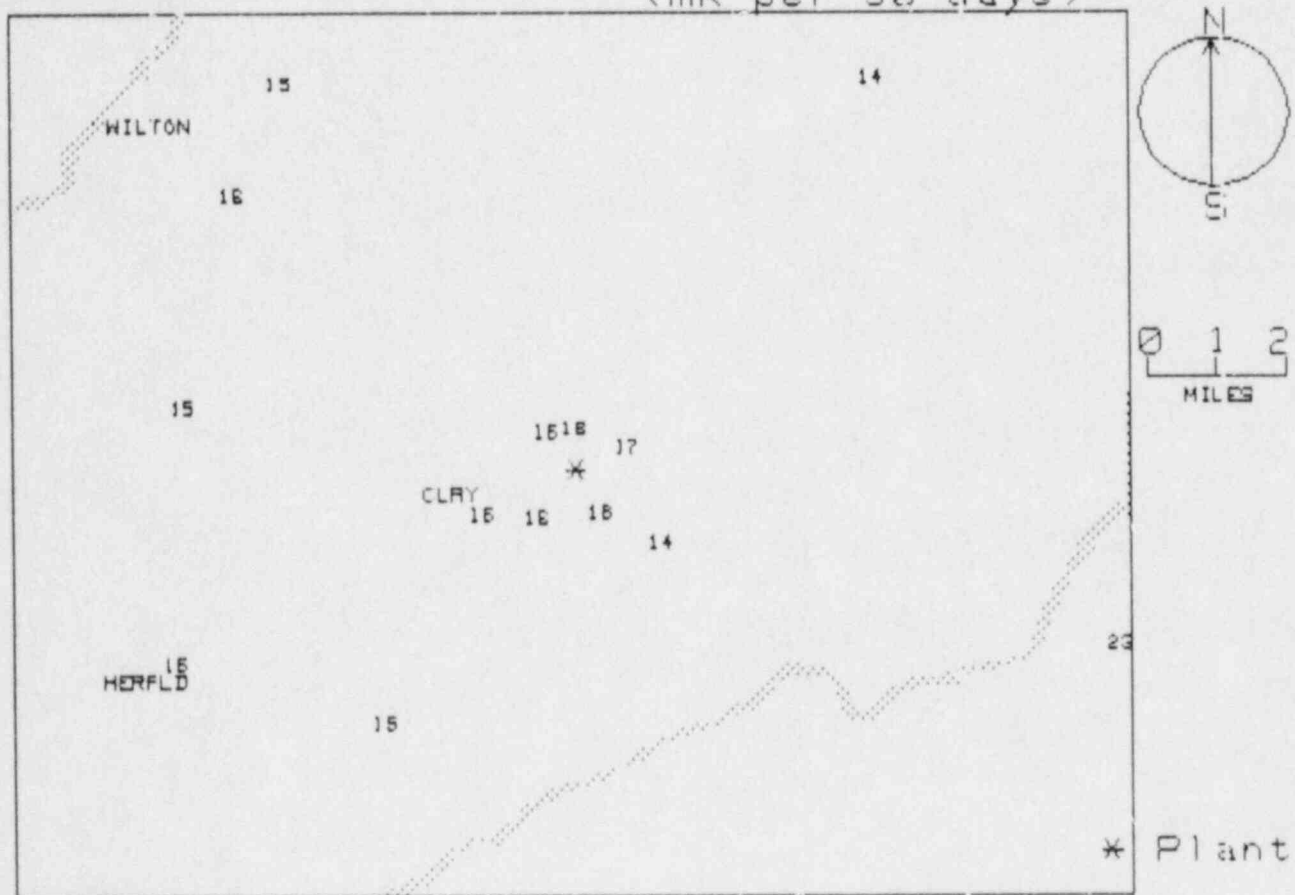
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) +-Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 16.1 +- 1.0 | 8 |
| 2-5 | 15.0 +- .4 | 2 |
| >5 | 16.6 +- 2.9 | 15 |
| UPWIND CONTROL DATA | 15.5 +- 1.3 | 3 |

RANCHO SECO

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|-------------------------------|
| 1 | 16.0 | 288 | ELK GROVE BLVD. |
| 2 | 12.0 | 239 | ELM AVE. |
| 3 | 16.0 | 213 | N. CLUFF AVE. |
| 4 | 9.9 | 149 | FISH HATCHERY |
| 5 | 8.2 | 108 | HWY. 88 |
| 6 | 10.0 | 86 | PRESTON SCHOOL |
| 7 | 9.7 | 83 | FOREST FIRE ACADEMY |
| 8 | 7.1 | 37 | CARBONDALE RD. |
| 9 | .8 | 65 | MARCIEL PROPERTY |
| 10 | .7 | 43 | PLANT ACCESS RD. |
| 11 | .2 | 92 | NPP VISITOR CENTER |
| 12 | 1.6 | 131 | RESERVOIR UTILITY SHED |
| 13 | .6 | 358 | HWY. 104 N. OF PLANT |
| 14 | .7 | 323 | HWY. 104 & R.R. SPUR |
| 15 | .7 | 151 | CLAY EAST RD. (END) |
| 16 | .9 | 219 | CLAY EAST RD. SW OF PLANT |
| 17 | 1.5 | 245 | KIRKWOOD ST. |
| 18 | 2.3 | 254 | 'OLD' CLAY STATION RD. |
| 19 | 7.0 | 323 | TARVENOR RD. |
| 20 | 6.3 | 309 | ROGER MILLER RESIDENCE |
| 21 | 5.7 | 279 | WOODS RD. |
| 22 | 6.4 | 244 | HWY. 104 & ALTA MESA RD. |
| 23 | 4.6 | 217 | BORDEN RD. |
| 24 | 11.0 | 350 | KEIFER RD. |
| 25 | 17.0 | 318 | BRADSHAW RD. |
| 26 | 22.0 | 311 | HOWE AVE. |
| 27 | 27.0 | 306 | 3RD ST. (SACRAMENTO) |
| 28 | 27.0 | 306 | 3RD ST. (SACRAMENTO) |
| 29 | 27.0 | 306 | CALIFORNIA RAD. HEALTH OFFICE |
| 30 | 27.0 | 306 | CALIFORNIA RAD. HEALTH OFFICE |

NRC TLD DOSES FOR RANCHO SECO AREA (mR per 90 days)



RIVER BEND
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870915-880128 136 DAYS
 FIELD TIME 93 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) +- Rdm; Tot. | NET EXPOSURE RATE mR/Std. Qtr. +- Rdm; Tot. |
|-------------|----------------|------------|-------------------------------------|---|
| | AZIMUTH (deg.) | DIST (mi.) | | |
| 001 | 348 | 1.3 | 22.8 +- .7 | 18.8 +- .7 |
| 002 | 42 | 1.1 | 24.8 +- .7 | 20.0 +- .7 |
| 003 | 61 | 1.1 | 24.2 +- .7 | 20.2 +- .7 |
| 004 | 98 | 0.8 | 22.7 +- .7 | 18.7 +- .7 |
| 005 | 107 | 0.8 | 24.7 +- .7 | 20.7 +- .7 |
| 006 | 136 | 0.8 | 24.4 +- .7 | 20.4 +- .7 |
| 007 | 166 | 1.1 | 20.4 +- .7 | 16.7 +- .7 |
| 008 | 182 | 0.8 | 21.5 +- .7 | 17.5 +- .7 |
| 009 | 195 | 0.8 | 20.5 +- .7 | 16.5 +- .7 |
| 010 | 225 | 0.8 | 21.5 +- .7 | 17.5 +- .7 |
| 011 | 235 | 0.8 | 20.5 +- .7 | 16.5 +- .7 |
| 012 | 237 | 0.8 | 23.4 +- .7 | 19.4 +- .7 |
| 013 | 239 | 0.8 | 22.4 +- .7 | 18.4 +- .7 |
| 014 | 240 | 0.8 | 22.4 +- .7 | 18.4 +- .7 |
| 015 | 232 | 0.8 | 22.4 +- .7 | 18.4 +- .7 |
| 016 | 312 | 0.8 | 20.9 +- .7 | 16.9 +- .7 |
| 017 | 302 | 0.8 | 20.8 +- .7 | 16.8 +- .7 |
| 018 | 270 | 0.8 | 18.2 +- .7 | 14.2 +- .7 |
| 019 | 242 | 0.8 | 22.2 +- .7 | 18.2 +- .7 |
| 020 | 195 | 0.8 | 21.5 +- .7 | 17.5 +- .7 |
| 021 | 215 | 0.8 | 21.5 +- .7 | 17.5 +- .7 |
| 022 | 233 | 0.8 | 20.3 +- .7 | 16.3 +- .7 |
| 023 | 244 | 0.8 | 21.6 +- .7 | 17.6 +- .7 |
| 024 | 244 | 0.8 | 21.6 +- .7 | 17.6 +- .7 |
| 025 | 180 | 0.8 | 21.1 +- .7 | 17.1 +- .7 |
| 026 | 222 | 0.8 | 22.2 +- .7 | 18.2 +- .7 |
| 027 | 240 | 0.8 | 21.1 +- .7 | 17.1 +- .7 |
| 028 | 240 | 0.8 | 21.1 +- .7 | 17.1 +- .7 |
| 029 | 244 | 0.8 | 21.1 +- .7 | 17.1 +- .7 |
| 030 | 244 | 0.8 | 21.1 +- .7 | 17.1 +- .7 |
| 031 | 244 | 0.8 | 21.1 +- .7 | 17.1 +- .7 |
| 032 | 244 | 0.8 | 21.1 +- .7 | 17.1 +- .7 |
| 033 | 244 | 0.8 | 21.1 +- .7 | 17.1 +- .7 |
| 034 | 244 | 0.8 | 21.1 +- .7 | 17.1 +- .7 |
| 035 | 244 | 0.8 | 21.1 +- .7 | 17.1 +- .7 |
| 036 | 244 | 0.8 | 21.1 +- .7 | 17.1 +- .7 |
| 037 | 244 | 0.8 | 21.1 +- .7 | 17.1 +- .7 |
| 038 | 244 | 0.8 | 21.1 +- .7 | 17.1 +- .7 |
| 039 | 131 | 0.8 | 21.1 +- .7 | 17.1 +- .7 |
| 040 | 135 | 0.8 | 21.1 +- .7 | 17.1 +- .7 |
| 041 | 120 | 0.8 | 21.1 +- .7 | 17.1 +- .7 |
| 042 | 121 | 0.8 | 21.1 +- .7 | 17.1 +- .7 |
| 043 | 120 | 0.8 | 21.1 +- .7 | 17.1 +- .7 |
| 044 | 150 | 0.8 | 21.1 +- .7 | 17.1 +- .7 |

TRANSIT DOSE = 3.3 +- .3

MILKING OR DAMAGED POSITIVE

A-199

RIVER BEND
FOR THE PERIOD 870915-880128

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 19.3 \pm 2.1 | 2 |
| 11.25-33.75 (NNE) | NO DATA--NO DATA | 0 |
| 33.75-56.25 (NE) | 18.1 \pm 1.8 | 3 |
| 56.25-78.75 (ENE) | 19.5 \pm 1.0 | 2 |
| 78.75-101.25 (E) | 17.3 \pm 2.0 | 2 |
| 101.25-123.75 (ESE) | 18.0 \pm 2.2 | 4 |
| 123.75-146.25 (SE) | 19.0 \pm 1.9 | 2 |
| 146.25-168.75 (SSE) | 17.6 \pm 1.6 | 2 |
| 168.75-191.25 (S) | 18.0 \pm 1.0 | 3 |
| 191.25-213.75 (SSW) | 16.7 \pm 0.0 | 1 |
| 213.75-236.25 (SW) | 17.0 \pm 1.9 | 5 |
| 236.25-258.75 (WSW) | 17.6 \pm .8 | 3 |
| 258.75-281.25 (W) | 16.8 \pm 3.6 | 2 |
| 281.25-303.75 (WNW) | 17.9 \pm 1.4 | 2 |
| 303.75-326.25 (NW) | 17.3 \pm 2.1 | 4 |
| 326.25-348.75 (NNW) | 18.7 \pm 1.4 | 5 |
| | | |

| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 18.8 \pm 1.5 | 15 |
| 2-5 | 17.4 \pm 2.0 | 8 |
| >5 | 17.5 \pm 1.5 | 18 |
| UPWIND CONTROL DATA | 14.8 \pm 0.0 | 1 |

RIVER BEND

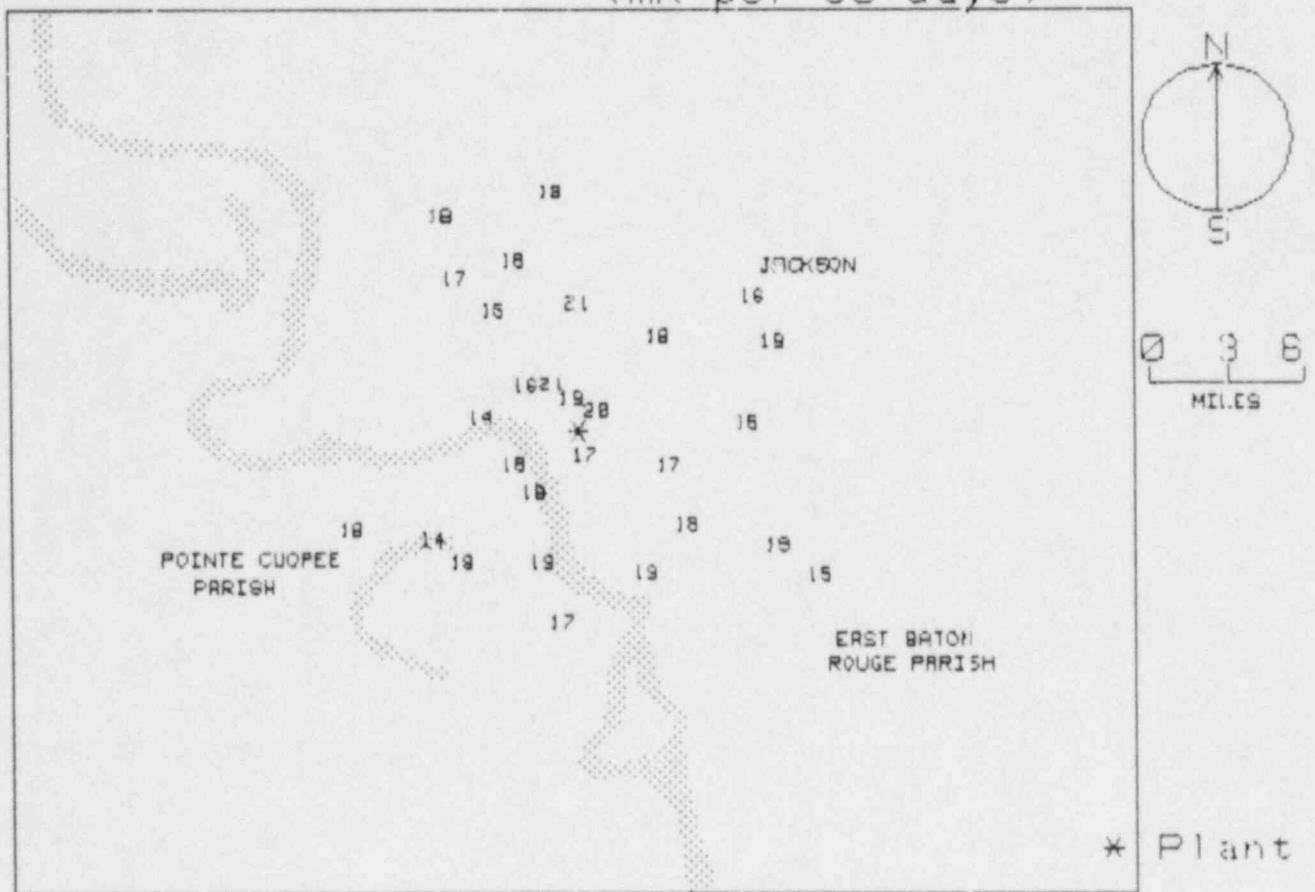
TLD DIRECT RAIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|----------------------------|
| 1 | 1.3 | 348 | BEHIND TRAINING CENTER |
| 2 | 1.1 | 42 | 500' FROM TOM'S KITCHEN |
| 3 | 1.1 | 61 | POWELL STATION RD |
| 4 | .8 | 90 | 0.6 MI WEST, RT 61 & 7 |
| 5 | .6 | 107 | POWELL STATION RD. |
| 6 | .8 | 136 | SOUTH OF POWELL STATION RD |
| 7 | 1.0 | 166 | NORTH OF POWELL STATION RD |
| 8 | .9 | 182 | ADJACENT TO GATE 23 |
| 9 | .6 | 195 | UTILITY POLE NO 10178 |
| 10 | .7 | 225 | LA 965 ON WEST SIDE |
| 11 | .4 | 254 | 3RD UTILITY POLE |
| 12 | .6 | 276 | N-1 & GATES 13 & 14 |
| 13 | .6 | 295 | BEHIND VISITOR CENTER |
| 14 | .9 | 320 | LEET'S RESIDENCE |
| 15 | 2.1 | 332 | JCT OF LA 61 & 965 |
| 16 | 2.7 | 312 | FELICIANA HOSPITAL |
| 17 | 3.1 | 302 | ST. FRANCISVILLE BANK |
| 18 | 3.8 | 278 | N. OF ST. FRAN. FERRY LDG |
| 19 | 2.8 | 242 | A WHITE HOUSE ON HWY 981 |
| 20 | 5.4 | 195 | LA 414 & 415 |
| 21 | 3.0 | 215 | TRUCK ENT. OF BIG CAJUN |
| 22 | 7.1 | 233 | POINTE COURT HOUSE |
| 23 | 9.7 | 246 | LA HWY 1 & LA HWY 10 |
| 24 | 7.3 | 234 | LA 413 & LA 414 |
| 25 | 7.6 | 185 | LA 415 SIGN |
| 26 | 7.7 | 322 | LA 66 & SOLITUDE RD |
| 27 | 10.0 | 328 | LA 968 & LA 66 |
| 28 | 7.2 | 340 | LA 61 & LA 66 |
| 29 | 9.5 | 354 | LA 61 & LA 421 |
| 30 | 5.1 | 360 | LA 10 & BAINS RD |
| 31 | 6.9 | 221 | LA 965 & AUDIBON |
| 32 | 4.9 | 40 | LA 965 & LA 966 |
| 33 | 8.7 | 52 | JACKSON TOWN HALL |
| 34 | 8.4 | 65 | LA 68 & DIXON C. |
| 35 | 6.6 | 87 | GULF STATES UTI. |
| 36 | 5.8 | 326 | US 61 & WF 2 |
| 37 | 22.0 | 329 | END OF LA 66 |
| 38 | 3.8 | 111 | US 61 & LA 954 |
| 39 | 5.6 | 131 | US 61 & LA 68 |
| 40 | 6.2 | 155 | RD. 3004 & 3113 |
| 41 | 9.0 | 120 | LA 3004 & 964 |
| 42 | 11.0 | 121 | ZACHARY HIGH SCHOOL |
| 43 | 1.1 | 180 | 2.2 MI FROM US 61 |
| 44 | 28.0 | 150 | AM. ST. & ST. CHARLES |

RIVER BEND
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870915-880128 136 DAYS
 FIELD TIME 93 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE(mR) | | NET EXPOSURE RATE | | |
|--------------------------|-------------------|---------------|------------------------------|-------------|-----------------------------|-----------------------------|--|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm; Tot. | + Rdm; Tot. | mR/Std. Qtr. + Rdm; Tot. | mR/Std. Qtr. + Rdm; Tot. | |
| 001 | 348 | 1.3 | 22.8 | +.7 | 18.8 | +.7 | |
| 002 | 42 | 1.1 | 24.6 | +.7 | 20.8 | +.6 | |
| 003 | 61 | 1.1 | 24.2 | +.7 | 20.2 | +.6 | |
| 004 | 90 | 0.8 | 22.7 | +.7 | 18.7 | +.4 | |
| 005 | 107 | 0.6 | 24.7 | +.7 | 20.7 | +.7 | |
| 006 | 136 | 0.8 | 24.4 | +.7 | 20.3 | +.7 | |
| 007 | 166 | 1.0 | 20.4 | +.6 | 16.1 | +.1 | |
| 008 | 182 | 0.9 | 21.5 | +.6 | 17.5 | +.2 | |
| 009 | 195 | 0.6 | 20.6 | +.6 | 16.7 | +.1 | |
| 010 | 225 | 0.7 | 21.5 | +.6 | 17.5 | +.2 | |
| 011 | 254 | 0.4 | 20.6 | +.6 | 16.7 | +.1 | |
| 012 | 276 | 0.6 | 23.4 | +.7 | 19.4 | +.4 | |
| 013 | 295 | 0.6 | 22.8 | +.7 | 18.8 | +.4 | |
| 014 | 328 | 0.9 | 24.4 | +.7 | 20.4 | +.4 | |
| 015 | 332 | 2.1 | 25.2 | +.8 | 21.1 | +.4 | |
| 016 | 312 | 2.7 | 19.6 | +.6 | 15.7 | +.4 | |
| 017 | 382 | 3.1 | 20.6 | +.6 | 16.9 | +.4 | |
| 018 | 278 | 3.6 | 18.1 | +.5 | 14.2 | +.3 | |
| 019 | 242 | 2.8 | 22.2 | +.7 | 18.3 | +.7 | |
| 020 | 195 | 5.4 | MISSING OR DAMAGED DOSIMETER | | | | |
| 021 | 215 | 3.0 | 21.8 | +.7 | 17.8 | +.7 | |
| 022 | 233 | 7.1 | 18.0 | +.5 | 14.2 | +.6 | |
| 023 | 246 | 9.7 | 21.7 | +.6 | 17.7 | +.7 | |
| 024 | 234 | 7.3 | 20.0 | +.6 | 16.1 | +.7 | |
| 025 | 185 | 7.6 | 21.3 | +.6 | 17.3 | +.7 | |
| 026 | 322 | 7.7 | 20.0 | +.6 | 16.9 | +.7 | |
| 027 | 328 | 10. | 21.9 | +.7 | 18.9 | +.7 | |
| 028 | 340 | 7.2 | 22.2 | +.7 | 18.3 | +.7 | |
| 029 | 354 | 9.5 | 21.7 | +.7 | 17.8 | +.7 | |
| 030 | 360 | 5.1 | 24.8 | +.7 | 20.7 | +.8 | |
| 031 | 221 | 6.9 | 23.3 | +.7 | 19.3 | +.7 | |
| 032 | 40 | 4.9 | 21.7 | +.7 | 17.8 | +.7 | |
| 033 | 52 | 0.7 | 20.4 | +.6 | 16.5 | +.5 | |
| 034 | 65 | 0.4 | 22.7 | +.7 | 18.7 | +.7 | |
| 035 | 87 | 0.6 | 19.8 | +.6 | 15.9 | +.5 | |
| 036 | 326 | 3.0 | 20.1 | +.6 | 16.2 | +.6 | |
| 037 | 329 | 2.2 | 21.4 | +.6 | 17.5 | +.6 | |
| 038 | 111 | 0.8 | 21.9 | +.6 | 17.1 | +.6 | |
| 039 | 131 | 0.6 | 21.6 | +.6 | 17.2 | +.6 | |
| 040 | 155 | 0.2 | 22.7 | +.7 | 18.4 | +.7 | |
| 041 | 120 | 0.8 | 22.6 | +.7 | 18.7 | +.7 | |
| 042 | 121 | 11. | 19.3 | +.6 | 15.8 | +.5 | |
| 043 | 180 | 1.1 | 23.1 | +.7 | 19.1 | +.7 | |
| 044 | 150 | 2.0 | 18.6 | +.6 | 14.8 | +.5 | |
| TRANSIT DOSE = 3.3 +- .3 | | | 4.9 | | | | |

NRC TLD DOSES FOR RIVER BEND AREA (mR per 90 days)



ROBINSON
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870917-880202 139 DAYS
 FIELD TIME 98 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|----------------|----------------|------------|------------------------------|-------|-------------------|-------------|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm; Tot. | | mR/Std. Qtr. | + Rdm; Tot. |
| 001 | 191 | 0.2 | 17.1 | +- .5 | 12.9 | +- .6 |
| 002 | 151 | 1.9 | 25.3 | +- .6 | 20.4 | +- .6 |
| 003 | 134 | 2.0 | 21.1 | +- .6 | 16.6 | +- .7 |
| 004 | 119 | 1.9 | 18.6 | +- .6 | 14.3 | +- .6 |
| 005 | 89 | 2.1 | 21.6 | +- .6 | 17.0 | +- .7 |
| 006 | 65 | 1.0 | 19.5 | +- .6 | 15.1 | +- .6 |
| 007 | 46 | 1.0 | 19.1 | +- .6 | 14.7 | +- .6 |
| 008 | 27 | 1.9 | 21.3 | +- .6 | 16.0 | +- .7 |
| 009 | 22 | 3.5 | MISSING OR DAMAGED DOSIMETER | | | |
| 010 | 0 | 5.0 | 21.3 | +- .6 | 16.0 | +- .7 |
| 011 | 51 | 4.0 | 24.0 | +- .7 | 19.3 | +- .7 |
| 012 | 67 | 4.1 | 18.5 | +- .6 | 14.2 | +- .6 |
| 013 | 87 | 4.5 | 19.1 | +- .6 | 14.7 | +- .6 |
| 014 | 109 | 5.0 | 18.0 | +- .5 | 13.8 | +- .6 |
| 015 | 118 | 4.0 | MISSING OR DAMAGED DOSIMETER | | | |
| 016 | 138 | 5.3 | 20.2 | +- .6 | 15.7 | +- .6 |
| 017 | 115 | 17. | 16.0 | +- .5 | 11.9 | +- .5 |
| 018 | 199 | 13. | 18.7 | +- .6 | 14.4 | +- .6 |
| 019 | 208 | 4.0 | 24.0 | +- .7 | 19.3 | +- .7 |
| 020 | 225 | 4.0 | 23.3 | +- .7 | 18.6 | +- .7 |
| 021 | 178 | 4.6 | 16.6 | +- .5 | 12.4 | +- .5 |
| 022 | 167 | 3.7 | 19.5 | +- .6 | 15.1 | +- .6 |
| 023 | 101 | 2.3 | 18.0 | +- .6 | 14.3 | +- .6 |
| 024 | 194 | 2.0 | 22.6 | +- .6 | 18.0 | +- .6 |
| 025 | 220 | 2.1 | 22.0 | +- .7 | 17.4 | +- .7 |
| 026 | 244 | 1.5 | 19.0 | +- .6 | 14.6 | +- .6 |
| 027 | 273 | 1.1 | 17.0 | +- .5 | 13.0 | +- .5 |
| 028 | 200 | 2.0 | 16.7 | +- .5 | 12.5 | +- .5 |
| 029 | 111 | 1.1 | 21.1 | +- .6 | 16.0 | +- .6 |
| 030 | 334 | 1.1 | 16.0 | +- .5 | 11.9 | +- .5 |
| 031 | 305 | 1.1 | 19.4 | +- .6 | 15.1 | +- .6 |
| 032 | 330 | 4.0 | 19.7 | +- .6 | 15.0 | +- .6 |
| 033 | 310 | 4.7 | 20.7 | +- .6 | 16.0 | +- .6 |
| 034 | 310 | 4.7 | 20.7 | +- .6 | 16.0 | +- .6 |
| 035 | 310 | 4.7 | 20.7 | +- .6 | 16.0 | +- .6 |
| 036 | 310 | 4.7 | 20.7 | +- .6 | 16.0 | +- .6 |
| 037 | 310 | 4.7 | 20.7 | +- .6 | 16.0 | +- .6 |
| 038 | 310 | 4.7 | 20.7 | +- .6 | 16.0 | +- .6 |
| 039 | 310 | 4.7 | 20.7 | +- .6 | 16.0 | +- .6 |
| 040 | 310 | 4.7 | 20.7 | +- .6 | 16.0 | +- .6 |
| 041 | 310 | 4.7 | 20.7 | +- .6 | 16.0 | +- .6 |
| TRANSIT DOSE = | 3.0 | +- .3 | 5.0 | | | |

ROBINSON
FOR THE PERIOD 870917-880202

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 15.9 \pm 1.2 | 2 |
| 11.25-33.75 (NNE) | 16.8 \pm 0.0 | 1 |
| 33.75-56.25 (NE) | 17.0 \pm 3.2 | 2 |
| 56.25-78.75 (ENE) | 14.7 \pm .7 | 2 |
| 78.75-101.25 (E) | 15.9 \pm 1.6 | 2 |
| 101.25-123.75 (ESE) | 13.3 \pm 1.3 | 3 |
| 123.75-146.25 (SE) | 16.2 \pm .8 | 2 |
| 146.25-168.75 (SSE) | 17.8 \pm 3.7 | 2 |
| 168.75-191.25 (S) | 13.3 \pm 1.1 | 3 |
| 191.25-213.75 (SSW) | 17.2 \pm 2.5 | 3 |
| 213.75-236.25 (SW) | 10.0 \pm .8 | 2 |
| 236.25-258.75 (WSW) | 14.4 \pm .4 | 2 |
| 258.75-281.25 (W) | 16.2 \pm 3.1 | 3 |
| 281.25-303.75 (WNW) | 16.4 \pm 1.1 | 2 |
| 303.75-326.25 (NW) | 15.7 \pm 1.3 | 3 |
| 326.25-348.75 (NNW) | 14.0 \pm 3.2 | 2 |
| | | |

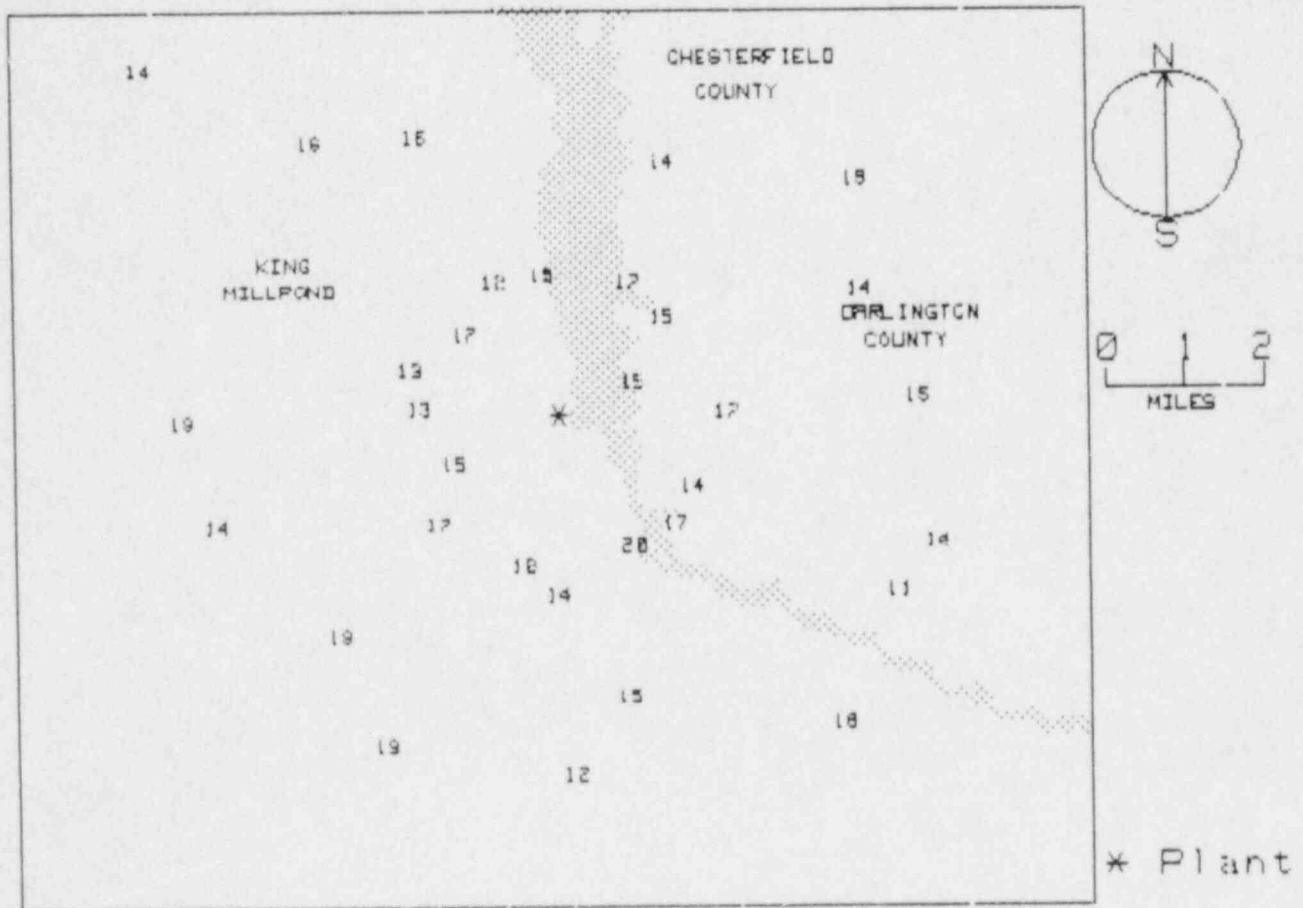
| DISTANCE (mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|--------------------------------|---|------------|
| 0-2 | 15.2 \pm 2.4 | 14 |
| 2-5 | 16.4 \pm 2.3 | 17 |
| >5 | 14.6 \pm 1.8 | 5 |
| UPWIND CONTROL DATA | 14.1 \pm 1.4 | 3 |

ROBINSON

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|--|
| 1 | .2 | 191 | 0.1 MILES S. OF VISITORS CENTER |
| 2 | 1.9 | 151 | HWY. 151 (1.7 MILES S. OF RT. 23) |
| 3 | 2.0 | 134 | RT. 39 (150 YARDS S. OF RAILROAD TRACKS) |
| 4 | 1.9 | 119 | RT. 824 (0.4 MILES N. OF RT. 39) |
| 5 | 2.1 | 89 | RT. 824 (1.5 MILES N. OF RT. 39) |
| 6 | 1.0 | 65 | PT. 39 (0.5 MILES N. OF RT. 23) |
| 7 | 1.8 | 46 | RT. 39 & RT. 737 |
| 8 | 1.9 | 27 | RT. 737 (EASTERLINGS LANDING RD.) |
| 9 | 3.5 | 22 | RT. 21 & RT. 752 |
| 10 | 5.0 | 0 | RT. 346 (0.5 MILES W. OF RT. 46) |
| 11 | 4.8 | 51 | RT. 20 (3.1 MILES S. OF RT. 346) |
| 12 | 4.1 | 67 | RT. 20 (0.2 MILES S. OF LOOKOUT TOWER) |
| 13 | 4.5 | 87 | JOHNSONS FENCE & AWNING |
| 14 | 5.0 | 109 | HWY. 15 AT ST. MARYS CHURCH/SCHOOL |
| 15 | 4.8 | 118 | W. CAROLINA AVE. & ARMORY ST. |
| 16 | 5.3 | 138 | MILLER RD. |
| 17 | 17.0 | 115 | HWY. 151 (DARLINGTON) |
| 18 | 13.0 | 199 | HWY. 15 (BISHOPVILLE) |
| 19 | 4.8 | 208 | RT. 13 (100 YARDS N. OF RT. 14) |
| 20 | 4.0 | 225 | RT. 85 (1.6 MILES N. OF RT. 14) |
| 21 | 4.6 | 178 | RT. 772 (KELLYBELL CH.) |
| 22 | 3.7 | 167 | RT. 12 AT KELLYTOWN CH. |
| 23 | 2.3 | 181 | RT. 53 & RT. 200 |
| 24 | 2.0 | 194 | RT. 53 AT HVT LINES |
| 25 | 2.1 | 228 | GUM SWAMP CH. |
| 26 | 1.5 | 245 | RT. 761 (0.5 MILES N. OF RT. 23) |
| 27 | 1.8 | 273 | RT. 761 (1.3 MILES N. OF RT. 23) |
| 28 | 2.0 | 287 | RT. 761 & RT. 176 |
| 29 | 1.6 | 311 | HWY. 151 & RT. 176 |
| 30 | 1.9 | 334 | RT. 172 (0.6 MILES E. OF HWY. 151) |
| 31 | 1.8 | 353 | MARGINAL RD. |
| 32 | 4.0 | 333 | RT. 346 AT RAILROAD TRACKS |
| 33 | 4.7 | 318 | HWY. 151 AT RT. 711 |
| 34 | 6.9 | 310 | HWY. 151 (McBEE) |
| 35 | 4.0 | 295 | RT. 711 (1.9 MILES S. OF HWY. 151) |
| 36 | 4.8 | 269 | RT. 31 AT UNION CH. |
| 37 | 4.6 | 252 | RT. 23 AT RT. 722 |
| 38 | 11.0 | 274 | HWY. 341 (BETHUNE) |
| 39 | 15.0 | 286 | HWY. 341 (5 MILES NW OF HWY. 1) |
| 40 | 16.0 | 289 | HWY. 341 AT RT. 42) |
| 41 | 17.0 | 291 | HWY. 341 (1.3 MILES NW OF RT. 42) |

NRC TLD DOSES FOR ROBINSON AREA (mR per 90 days)



SALEM
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870918-880126 131 DAYS
 FIELD TIME 88 DAYS

| NRC STATION | LOCATION | | GROSS | | | NET EXPOSURE RATE | | | |
|----------------|-------------------|---------------|---------------|-------|------|-------------------|-------|-------|-----|
| | AZIMUTH (deg.) | DIST (mi.) | EXPOSURE (mR) | + Rdm | Tot. | mR/Std. Qtr. | + Rdm | Tot. | |
| 001 | 87 | 3.3 | 19.3 | +- | .6 | 2.9 | 15.1 | +- .7 | 6.0 |
| 002 | 79 | 3.4 | 20.4 | +- | .6 | 3.1 | 16.2 | +- .7 | 6.1 |
| 003 | 72 | 3.6 | 20.2 | +- | .6 | 3.0 | 16.0 | +- .7 | 6.1 |
| 004 | 58 | 4.2 | 22.3 | +- | .7 | 3.2 | 18.1 | +- .8 | 6.2 |
| 005 | 54 | 4.9 | 16.4 | +- | .5 | 2.5 | 12.1 | +- .6 | 5.0 |
| 006 | 68 | 5.6 | 17.1 | +- | .5 | 2.6 | 12.8 | +- .6 | 5.0 |
| 007 | 48 | 5.7 | 17.4 | +- | .5 | 2.6 | 13.1 | +- .6 | 5.0 |
| 008 | 116 | 12. | 18.1 | +- | .5 | 2.7 | 13.8 | +- .7 | 5.0 |
| 010 | 8 | 5.8 | 18.2 | +- | .5 | 2.7 | 13.9 | +- .7 | 5.0 |
| 011 | 15 | 6.1 | 18.2 | +- | .5 | 2.7 | 14.0 | +- .7 | 5.0 |
| 012 | 24 | 6.6 | 17.1 | +- | .5 | 2.6 | 12.8 | +- .6 | 5.0 |
| 013 | 49 | 6.6 | 19.4 | +- | .6 | 2.9 | 15.1 | +- .7 | 5.0 |
| 014 | 98 | 6.7 | 18.1 | +- | .5 | 2.7 | 13.8 | +- .7 | 5.0 |
| 015 | 185 | 6.4 | 17.6 | +- | .5 | 2.6 | 13.4 | +- .7 | 5.0 |
| TRANSIT DOSE = | | | 4.5 | +- | .4 | 5.1 | | | |

COMMENTS:

THIS STATION TLD EXCHANGE IS DIVIDED BETWEEN THE STATES OF
 N.J. AND DEL. STATION 1-16 (N.J.), STATION 17-50 (DEL.)

SALEM
FOR THE PERIOD 870918-880126

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 13.8 \pm 0.0 | 1 |
| 11.25-33.75 (NNE) | 13.4 \pm .8 | 2 |
| 33.75-56.25 (NE) | 13.5 \pm 1.5 | 3 |
| 56.25-78.75 (ENE) | 15.6 \pm 2.7 | 3 |
| 78.75-101.25 (E) | 15.0 \pm 1.2 | 3 |
| 101.25-123.75 (ESE) | 13.6 \pm .3 | 2 |
| 123.75-146.25 (SE) | NO DATA+-NO DATA | 0 |
| 146.25-168.75 (SSE) | NO DATA+-NO DATA | 0 |
| 168.75-191.25 (S) | NO DATA+-NO DATA | 0 |
| 191.25-213.75 (SSW) | NO DATA+-NO DATA | 0 |
| 213.75-236.25 (SW) | NO DATA+-NO DATA | 0 |
| 236.25-258.75 (WSW) | NO DATA+-NO DATA | 0 |
| 258.75-281.25 (W) | NO DATA+-NO DATA | 0 |
| 281.25-303.75 (WNW) | NO DATA+-NO DATA | 0 |
| 303.75-326.25 (NW) | NO DATA+-NO DATA | 0 |
| 326.25-348.75 (NNW) | NO DATA+-NO DATA | 0 |

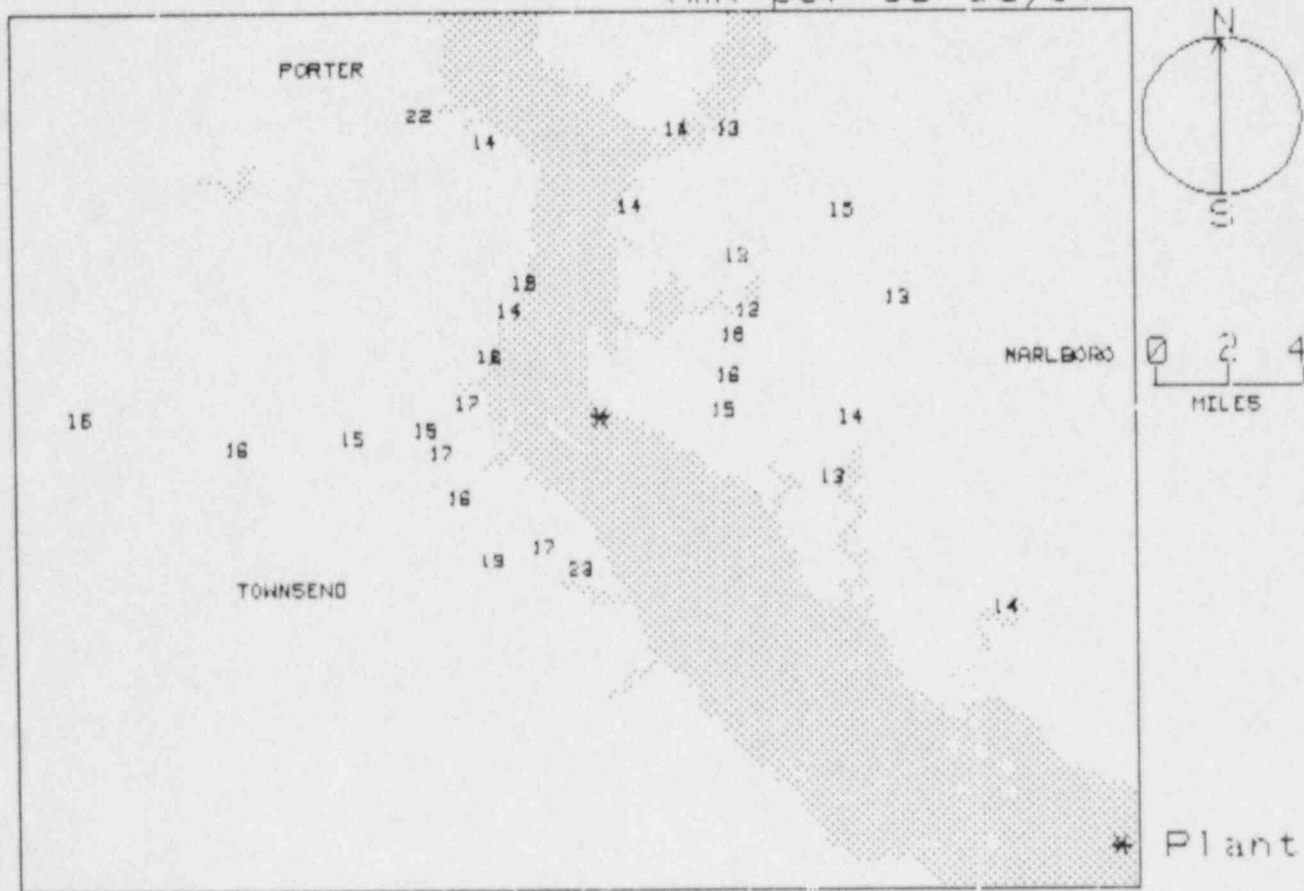
| DISTANCE (mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|--------------------------------|---|------------|
| 0-2 | NO DATA+-NO DATA | 0 |
| 2-5 | 15.5 \pm 2.2 | 5 |
| >5 | 13.6 \pm .7 | 9 |
| UPWIND CONTROL DATA | NO DATA | NO DATA |

SALEM

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|------------------------------------|
| 1 | 3.3 | 87 | ALLOWAY CREEK NECK ROAD |
| 2 | 3.4 | 79 | ALLOWAY CREEK NECK ROAD |
| 3 | 3.6 | 72 | ALLOWAY CREEK NECK ROAD |
| 4 | 4.2 | 58 | BUTTONWOOD AVE. |
| 5 | 4.9 | 54 | LOWER ALLOWAY CREEK TOWNSHIP BLDG. |
| 6 | 8.6 | 68 | TATTLETOWN JERICHO RD. |
| 7 | 5.7 | 40 | LOCUST ISLAND ROAD |
| 8 | 12.0 | 116 | GREENWICH N.J. |
| 10 | 5.8 | 8 | FT. ELFSBORG ROAD |
| 11 | 8.1 | 15 | SINNICKSON LANDING RD. |
| 12 | 8.6 | 24 | NORTH SALEM(N.J.) |
| 13 | 8.6 | 49 | QUINTON TOWNSHIP BLDG. |
| 14 | 6.7 | 90 | LOWER ALLOWAY ELEMENTARY SCHOOL |
| 15 | 6.4 | 105 | STOW NECK ROAD |
| 17 | 4.2 | 331 | PORT PENN(DEL.) |
| 18 | 3.8 | 320 | AUGUSTINE BEACH(DEL.) |
| 19 | 3.4 | 299 | BAY VIEW BEACH |
| 20 | 9.5 | 330 | GETTY OIL CO. |
| 21 | 3.6 | 276 | ROUTE#9 |
| 22 | 4.7 | 266 | NEAR EMERSON FARM |
| 23 | 4.4 | 257 | THOMAS LANDING |
| 24 | 4.4 | 240 | BOLTON FARM |
| 25 | 4.9 | 217 | TAYLORS BRIDGE |
| 26 | 3.9 | 204 | EAST OF TAYLORS BRIDGE |
| 27 | 4.2 | 188 | E. OF TAYLORS BRIDGE(ROADS END) |
| 28 | 20.0 | 319 | NEWARK(DEL.) |
| 29 | 6.7 | 265 | ODESSA |
| 30 | 12.0 | 353 | NEW CASTLE |
| 31 | 18.0 | 8 | WILMINGTON(DEL.) |
| 32 | 8.1 | 338 | DELAWARE CITY MARINA |
| 33 | 9.8 | 265 | NATIONAL GUARD ARMORY (MIDILETOWN) |
| 34 | 14.0 | 270 | SMYRNA(DEL) |

NRC TLD DOSES FOR SALEM AREA
(mR per 90 days)



SALEM
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870918-880126 131 DAYS
 FIELD TIME 88 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | | NET EXPOSURE RATE | | |
|----------------|-------------------|---------------|------------------------|------|-----|-----------------------|------|-----|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | Tot. | | mR/Std. Qtr. + Rdm | Tot. | |
| 017 | 337 | 4.2 | 24.0 | +.7 | 3.6 | 19.2 | +.6 | 6.6 |
| 018 | 320 | 3.0 | 19.0 | +.6 | 2.9 | 14.1 | +.5 | 6.2 |
| 019 | 295 | 3.4 | 22.7 | +.7 | 3.4 | 17.9 | +.6 | 6.5 |
| 020 | 330 | 9.5 | 26.5 | +.8 | 4.0 | 21.7 | +.7 | 6.8 |
| 021 | 276 | 3.6 | 21.4 | +.6 | 3.3 | 16.6 | +.5 | 6.4 |
| 022 | 266 | 4.7 | 23.0 | +.7 | 3.5 | 18.5 | +.6 | 6.5 |
| 023 | 257 | 4.4 | 22.0 | +.6 | 3.3 | 17.2 | +.5 | 6.4 |
| 024 | 240 | 4.4 | 20.9 | +.6 | 3.1 | 16.1 | +.5 | 6.3 |
| 025 | 217 | 4.9 | 23.5 | +.7 | 3.5 | 18.7 | +.6 | 6.6 |
| 026 | 204 | 3.9 | 21.4 | +.6 | 3.2 | 16.6 | +.5 | 6.4 |
| 027 | 180 | 4.2 | 27.0 | +.8 | 4.2 | 23.1 | +.7 | 6.9 |
| 028 | 319 | 2.0 | 25.7 | +.8 | 3.8 | 20.9 | +.6 | 6.7 |
| 029 | 265 | 3.7 | 19.7 | +.6 | 2.9 | 14.0 | +.5 | 6.3 |
| 030 | 353 | 12. | 18.1 | +.6 | 2.7 | 13.2 | +.4 | 6.1 |
| 031 | 0 | 18 | 21.4 | +.6 | 3.2 | 16.6 | +.5 | 6.4 |
| 032 | 330 | 8.1 | 18.5 | +.6 | 3.0 | 13.6 | +.4 | 6.2 |
| 033 | 265 | 9.8 | 20.8 | +.6 | 3.1 | 15.9 | +.5 | 6.3 |
| 034 | 270 | 14. | 20.7 | +.6 | 3.1 | 15.9 | +.5 | 6.3 |
| TRANSIT DOSE = | | 5.2 | +.4 | 5.4 | | | | |

COMMENTS:

THIS STATION TLD EXCHANGE IS DIVIDED BETWEEN THE STATES OF
 N.J. AND DEL. STATION 1-16 (N.J.), STATION 17-50 (DEL.)

SALEM
FOR THE PERIOD 870918-880126

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) +-Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | NO DATA+-NO DATA | 0 |
| 11.25-33.75 (NNE) | NO DATA+-NO DATA | 0 |
| 33.75-56.25 (NE) | NO DATA+-NO DATA | 0 |
| 56.25-78.75 (ENE) | NO DATA+-NO DATA | 0 |
| 78.75-101.25 (E) | NO DATA+-NO DATA | 0 |
| 101.25-123.75 (ESE) | NO DATA+-NO DATA | 0 |
| 123.75-146.25 (SE) | NO DATA+-NO DATA | 0 |
| 146.25-168.75 (SSE) | NO DATA+-NO DATA | 0 |
| 168.75-191.25 (S) | 23.1 +- 0.0 | 1 |
| 191.25-213.75 (SSW) | 16.6 +- 0.0 | 1 |
| 213.75-236.25 (SW) | 18.7 +- 0.0 | 1 |
| 236.25-258.75 (WSW) | 16.8 +- .8 | 2 |
| 258.75-281.25 (W) | 16.3 +- 1.4 | 5 |
| 281.25-303.75 (WNW) | 17.9 +- 0.0 | 1 |
| 303.75-326.25 (NW) | 14.1 +- 0.0 | 1 |
| 326.25-348.75 (NNW) | 18.2 +- 4.2 | 3 |
| | | |

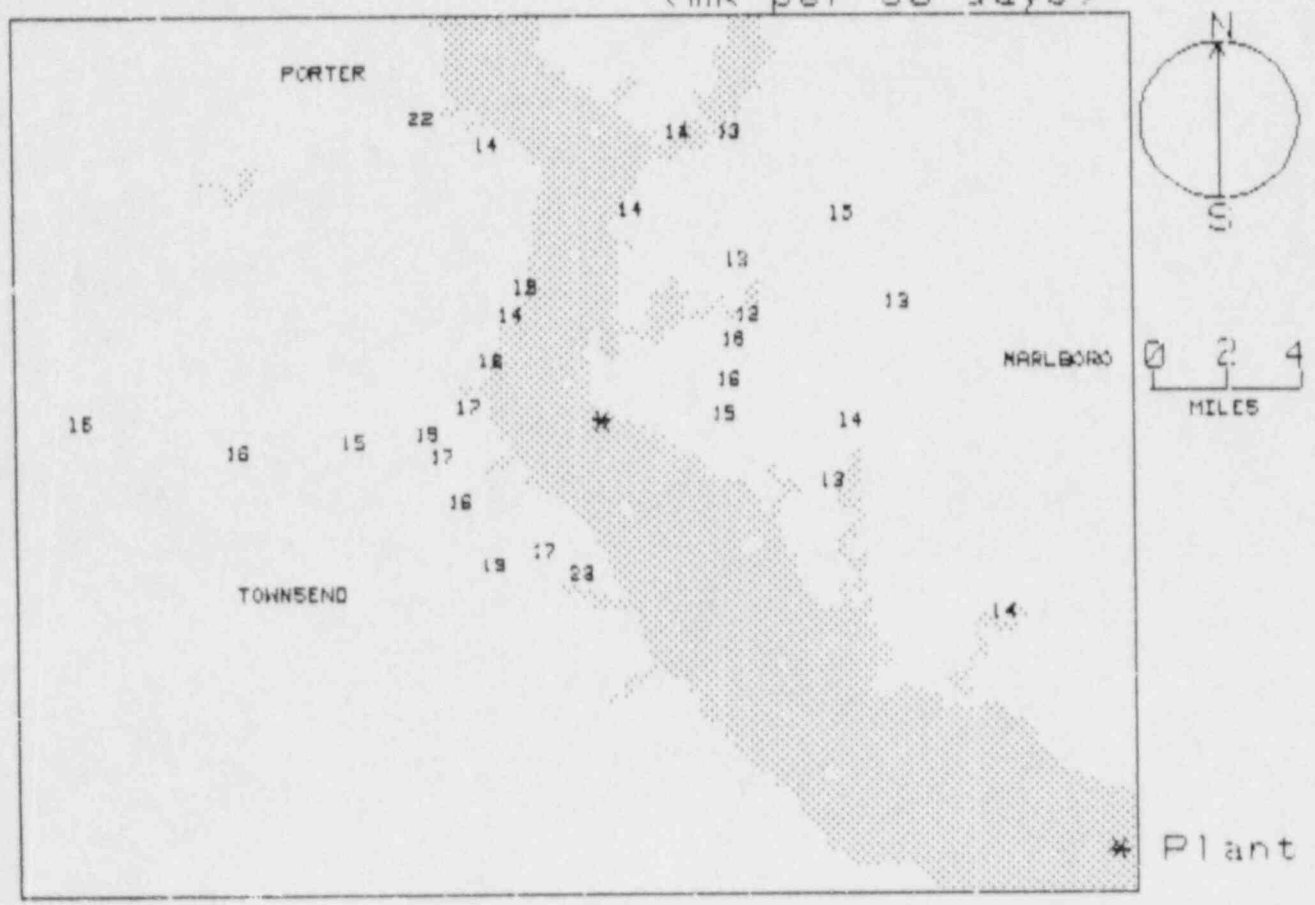
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) +-Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | NO DATA+-NO DATA | 0 |
| 2-5 | 17.8 +- 2.4 | 10 |
| >5 | 16.4 +- 3.1 | 5 |
| UPWIND CONTROL DATA | 16.9 +- 3.9 | 3 |

SALEM

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|------------------------------------|
| 1 | 3.3 | 87 | ALLOWAY CREEK NECK ROAD |
| 2 | 3.4 | 79 | ALLOWAY CREEK NECK ROAD |
| 3 | 3.6 | 72 | ALLOWAY CREEK NECK ROAD |
| 4 | 4.2 | 58 | BUTTONWOOD AVE. |
| 5 | 4.9 | 54 | LOWER ALLOWAY CREEK TOWNSHIP BLDG. |
| 6 | 8.6 | 68 | TATTLETOWN JERICHO RD. |
| 7 | 5.7 | 40 | LOCUST ISLAND ROAD |
| 8 | 12.0 | 116 | GREENWICH N.J. |
| 10 | 5.8 | 8 | FT. ELFSBORG ROAD |
| 11 | 8.1 | 15 | SINNICKSON LANDING RD. |
| 12 | 8.6 | 24 | NORTH SALEM(N.J.) |
| 13 | 3.6 | 49 | QUINTON TOWNSHIP BLDG. |
| 14 | 6.7 | 90 | LOWER ALLOWAY ELEMENTARY SCHOOL |
| 15 | 6.4 | 105 | STOW NECK ROAD |
| 17 | 4.2 | 331 | PORT PENN(DEL.) |
| 18 | 3.8 | 320 | AUGUSTINE BEACH(DEL.) |
| 19 | 3.4 | 299 | BAY VIEW BEACH |
| 20 | 9.5 | 330 | GETTY OIL CO. |
| 21 | 3.6 | 276 | ROUTE#9 |
| 22 | 4.7 | 266 | NEAR EMERSON FARM |
| 23 | 4.4 | 257 | THOMAS LANDING |
| 24 | 4.4 | 240 | BOLTON FARM |
| 25 | 4.9 | 217 | TAYLORS BRIDGE |
| 26 | 3.9 | 204 | EAST OF TAYLORS BRIDGE |
| 27 | 4.2 | 188 | E. OF TAYLORS BRIDGE(ROADS END) |
| 28 | 20.0 | 319 | NEWARK(DEL.) |
| 29 | 6.7 | 265 | ODESSA |
| 30 | 12.0 | 353 | NEW CASTLE |
| 31 | 18.0 | 0 | WILMINGTON(DEL.) |
| 32 | 8.1 | 338 | DELAWARE CITY MARINA |
| 33 | 9.8 | 265 | NATIONAL GUARD ARMORY (MIDLETOWN) |
| 34 | 14.0 | 270 | SMYRNA(DEL) |

NRC TLD DOSES FOR SALEM AREA (mR per 90 days)



SAN ONOFRE
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870914-880128 137 DAYS
 FIELD TIME 84 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE(mR) | | NET EXPOSURE RATE | | | |
|----------------|-------------------|---------------|-----------------------|------|-------------------|-------------|----|-----|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | Tot. | mR/Std. Qtr. | + Rdm; Tot. | | |
| 001 | 346 | 35. | 28.1 | +- | 1.0 | 21.9 | +- | 1.0 |
| 002 | 346 | 35. | 27.9 | +- | 1.0 | 21.7 | +- | 1.0 |
| 003 | 346 | 35. | 29.7 | +- | 1.0 | 23.0 | +- | 1.1 |
| 004 | 327 | 11. | 23.0 | +- | 1.0 | 16.5 | +- | 1.1 |
| 005 | 308 | 14. | 25.4 | +- | 1.0 | 19.0 | +- | 1.1 |
| 006 | 307 | 10. | 23.5 | +- | 1.0 | 16.5 | +- | 1.1 |
| 007 | 318 | 6.3 | 25.7 | +- | 1.0 | 19.4 | +- | 1.1 |
| 008 | 322 | 5.1 | 26.6 | +- | 1.0 | 20.0 | +- | 1.1 |
| 009 | 311 | 3.3 | 26.6 | +- | 1.0 | 20.0 | +- | 1.1 |
| 010 | 331 | 3.3 | 27.7 | +- | 1.0 | 21.0 | +- | 1.1 |
| 011 | 300 | 6.6 | 24.1 | +- | 1.0 | 17.0 | +- | 1.1 |
| 012 | 305 | 5.5 | 22.4 | +- | 1.0 | 16.0 | +- | 1.1 |
| 013 | 300 | 2.4 | 22.3 | +- | 1.0 | 16.0 | +- | 1.1 |
| 014 | 300 | 1.7 | 25.9 | +- | 1.0 | 19.0 | +- | 1.1 |
| 015 | 303 | 1.2 | 26.6 | +- | 1.0 | 20.0 | +- | 1.1 |
| 016 | 300 | 1.1 | 26.6 | +- | 1.0 | 20.0 | +- | 1.1 |
| 017 | 300 | 1.1 | 26.6 | +- | 1.0 | 20.0 | +- | 1.1 |
| 018 | 300 | 1.1 | 26.6 | +- | 1.0 | 20.0 | +- | 1.1 |
| 019 | 305 | 1.9 | 26.6 | +- | 1.0 | 20.0 | +- | 1.1 |
| 020 | 305 | 1.1 | 26.6 | +- | 1.0 | 20.0 | +- | 1.1 |
| 021 | 305 | 1.4 | 26.6 | +- | 1.0 | 20.0 | +- | 1.1 |
| 022 | 305 | 1.4 | 26.6 | +- | 1.0 | 20.0 | +- | 1.1 |
| 023 | 305 | 1.4 | 26.6 | +- | 1.0 | 20.0 | +- | 1.1 |
| 024 | 305 | 1.4 | 26.6 | +- | 1.0 | 20.0 | +- | 1.1 |
| 025 | 305 | 1.4 | 26.6 | +- | 1.0 | 20.0 | +- | 1.1 |
| 026 | 305 | 1.1 | 26.6 | +- | 1.0 | 20.0 | +- | 1.1 |
| 027 | 305 | 1.1 | 26.6 | +- | 1.0 | 20.0 | +- | 1.1 |
| 028 | 305 | 1.1 | 26.6 | +- | 1.0 | 20.0 | +- | 1.1 |
| 029 | 305 | 1.1 | 26.6 | +- | 1.0 | 20.0 | +- | 1.1 |
| 030 | 305 | 1.1 | 26.6 | +- | 1.0 | 20.0 | +- | 1.1 |
| 031 | 305 | 1.1 | 26.6 | +- | 1.0 | 20.0 | +- | 1.1 |
| 032 | 305 | 1.1 | 26.6 | +- | 1.0 | 20.0 | +- | 1.1 |
| 033 | 305 | 1.1 | 26.6 | +- | 1.0 | 20.0 | +- | 1.1 |
| TRANSIT DOSE = | 7.6 | +- | .4 | | | | | |

MISREADING OR DAMAGED POSITIVE

SAH ONOFRE
FOR THE PERIOD 870914-880128

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std. Dev. | # IN GROUP |
|---------------------|--|------------|
| 348.75-11.25 (N) | 19.2 \pm 1.9 | 2 |
| 11.25-33.75 (NNE) | 19.0 \pm 1.5 | 3 |
| 33.75-56.25 (NE) | 20.1 \pm 1.6 | 2 |
| 56.25-78.75 (ENE) | 20.6 \pm 0.0 | 1 |
| 78.75-101.25 (E) | 16.9 \pm 3.1 | 3 |
| 101.25-123.75 (ESE) | 17.4 \pm 0.0 | 1 |
| 123.75-146.25 (SE) | 16.5 \pm 1.9 | 6 |
| 146.25-168.75 (SSE) | NO DATA+-NO DATA | 0 |
| 168.75-191.25 (S) | NO DATA+-NO DATA | 0 |
| 191.25-213.75 (SSW) | NO DATA+-NO DATA | 0 |
| 213.75-236.25 (SW) | NO DATA+-NO DATA | 0 |
| 236.25-258.75 (WSW) | NO DATA+-NO DATA | 0 |
| 258.75-281.25 (W) | NO DATA+-NO DATA | 0 |
| 281.25-303.75 (WNW) | 22.1 \pm 6.3 | 2 |
| 303.75-326.25 (NW) | 18.8 \pm 1.5 | 7 |
| 326.25-348.75 (NNW) | 19.0 \pm 3.5 | 2 |
| | | |

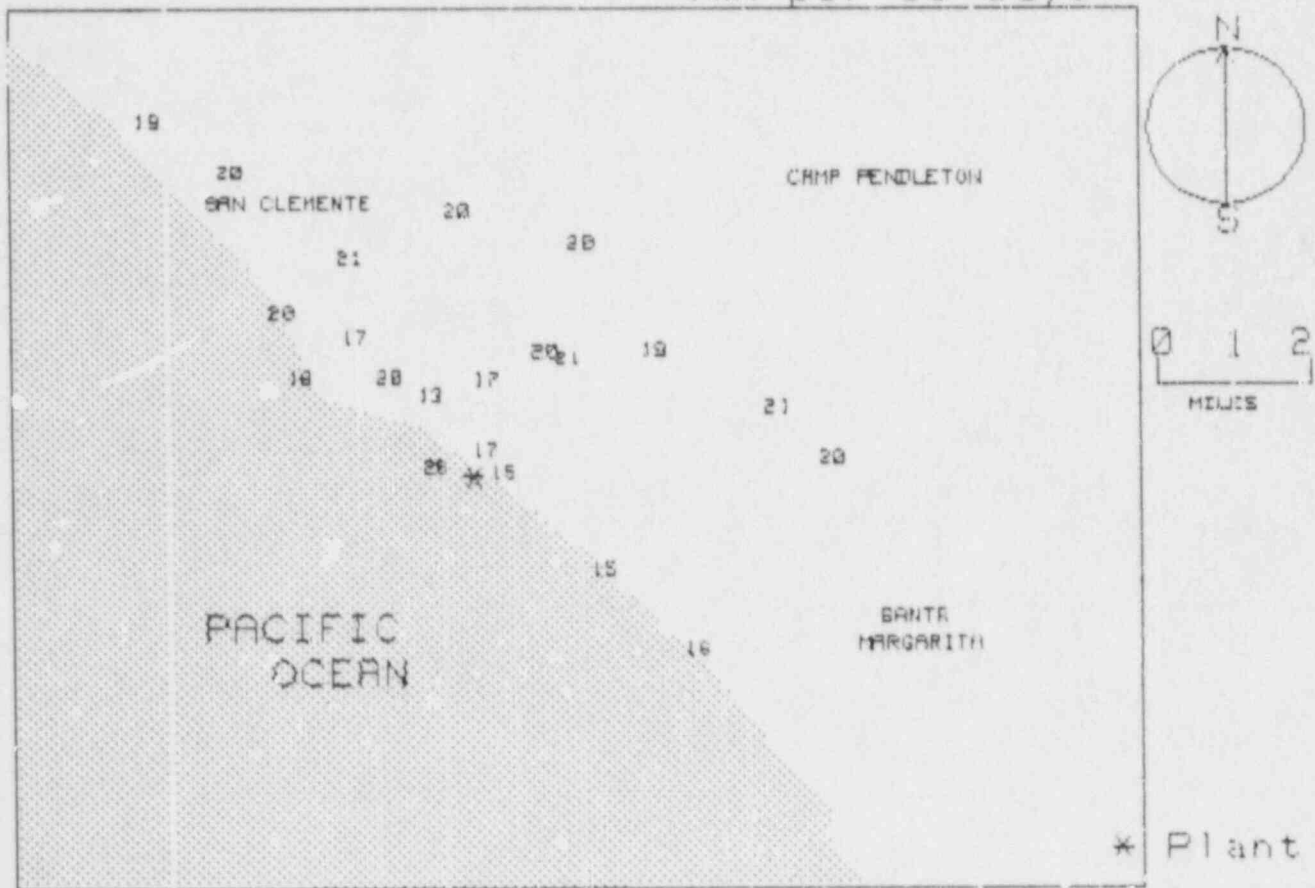
| DISTANCE (mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std. Dev. | # IN GROUP |
|--------------------------------|--|------------|
| 0-2 | 18.8 \pm 4.0 | 8 |
| 2-5 | 18.8 \pm 2.0 | 11 |
| >5 | 17.8 \pm 1.6 | 10 |
| UPWIND CONTROL DATA | 22.4 \pm 1.0 | 3 |

SAN ONOFRE

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|-------------------------------|
| 1 | 35.0 | 346 | FEATHERLY PARK |
| 2 | 35.0 | 346 | FEATHERLY PARK |
| 3 | 35.0 | 346 | FEATHERLY PARK |
| 4 | 11.0 | 327 | S. COAST HOSPITAL |
| 5 | 14.0 | 308 | FIRE STATION |
| 6 | 10.0 | 307 | DANA PT. HARBOR |
| 7 | 6.3 | 318 | COMMUN DEV DEPT, SAN CLEMENTE |
| 8 | 5.1 | 322 | CIVIC CTR. (SAN CLEMENTE) |
| 9 | 3.3 | 311 | CYPRUS SHORES ENTRANCE |
| 10 | 3.3 | 331 | SAN CLEMENTE RANCH ENTRANCE |
| 11 | 2.6 | 300 | U.S. COAST GUARD |
| 12 | .5 | 285 | SAN ONOFRE SURFING BEACH |
| 13 | 2.4 | 320 | SAN CLEMENTE RANCH OFFICE |
| 14 | 1.7 | 320 | SAN ONOFRE ELEMENTARY SCHOOL |
| 15 | 1.2 | 333 | SAN ONOFRE MOBILE HOME PARK |
| 16 | 1.9 | 30 | BASILONE RD. |
| 17 | 1.3 | 8 | BASILONE RD. |
| 18 | 2.0 | 39 | CAMP SAN ONOFRE FIRE STATION |
| 19 | 2.9 | 55 | CAMP SAN ONOFRE |
| 20 | 4.1 | 77 | CAMP HORNO |
| 21 | 4.7 | 87 | CAMP HORNO |
| 22 | 3.4 | 25 | SAN MATEO RD. |
| 23 | 3.5 | 357 | CAMP SAN MATEO |
| 24 | .4 | 25 | OLD RT. 101 |
| 25 | .4 | 81 | OLD RT. 101 |
| 26 | 2.1 | 126 | BORDER PATROL STATION |
| 27 | 8.6 | 130 | STUART MESA RD. AREA |
| 28 | 8.9 | 99 | CAMP LOS PULGAS |
| 29 | 11.0 | 135 | STUART MESA RD. |
| 30 | 2.0 | 126 | SAN ONOFRE STATE CAMPING AREA |
| 31 | 3.7 | 128 | SAN ONOFRE STATE PARK |
| 32 | 22.0 | 140 | OCEANSIDE FIRE STATION |
| 33 | 26.0 | 120 | VISTA COUNTY OFFICES |

NRC TLD DOSES FOR SAN ONOFRE AREA
(mR per 90 days)



SEABROOK
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870918-880126 131 DAYS
 FIELD TIME 92 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | | |
|----------------|-------------------|---------------|------------------------|-------|-----------------------------|-------|-----|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm; Tot. | | mR/Std. Qtr. + Rdm; Tot. | | |
| 001 | 157 | 0.7 | 21.5 | +- .6 | 16.4 | +- .7 | 6.1 |
| 002 | 179 | .7 | 22.7 | +- .7 | 17.6 | +- .8 | 6.2 |
| 003 | 199 | 0.7 | 21.9 | +- .7 | 16.6 | +- .7 | 6.1 |
| 004 | 223 | .9 | 23.1 | +- .7 | 17.9 | +- .8 | 6.2 |
| 005 | 244 | 1.2 | 21.9 | +- .7 | 16.6 | +- .7 | 6.1 |
| 006 | 293 | 1.6 | 23.1 | +- .7 | 17.9 | +- .8 | 6.2 |
| 007 | 275 | 0.5 | 22.1 | +- .7 | 17.6 | +- .8 | 6.2 |
| 008 | 317 | 2.0 | 21.8 | +- .7 | 16.7 | +- .7 | 6.1 |
| 009 | 331 | 1.6 | 24.1 | +- .7 | 19.0 | +- .8 | 6.3 |
| 010 | 358 | 1.9 | 22.3 | +- .7 | 17.7 | +- .8 | 6.2 |
| 011 | 220 | 2.6 | 23.6 | +- .7 | 18.8 | +- .8 | 6.3 |
| 012 | 50 | 2.1 | 20.0 | +- .6 | 14.9 | +- .7 | 6.0 |
| 013 | 22 | 1.7 | 23.3 | +- .7 | 18.3 | +- .8 | 6.3 |
| 014 | 43 | 4.1 | 22.4 | +- .7 | 17.7 | +- .8 | 6.3 |
| 015 | 0 | 4.0 | 23.3 | +- .7 | 18.3 | +- .8 | 6.3 |
| 016 | 20 | 12. | 24.0 | +- .7 | 18.9 | +- .8 | 6.3 |
| 017 | 322 | 7.3 | 24.6 | +- .7 | 19.4 | +- .8 | 6.4 |
| 018 | 292 | 3.9 | 23.7 | +- .7 | 18.3 | +- .8 | 6.3 |
| 019 | 269 | 9.9 | 21.1 | +- .6 | 16.0 | +- .7 | 6.1 |
| 020 | 233 | 4.2 | 25.3 | +- .8 | 20.1 | +- .8 | 6.4 |
| 021 | 232 | 4.7 | 22.0 | +- .7 | 16.9 | +- .7 | 6.3 |
| 022 | 213 | 6.1 | 25.0 | +- .8 | 19.3 | +- .8 | 6.4 |
| 023 | 189 | 6.6 | 24.3 | +- .7 | 19.1 | +- .8 | 6.4 |
| 024 | 166 | 7.2 | 21.4 | +- .6 | 16.6 | +- .7 | 6.1 |
| 025 | 177 | 4.1 | 21.0 | +- .7 | 16.7 | +- .7 | 6.1 |
| 026 | 159 | 4.0 | 22.4 | +- .7 | 17.7 | +- .7 | 6.2 |
| 027 | 120 | 2.4 | 22.6 | +- .7 | 17.7 | +- .7 | 6.2 |
| 028 | 117 | 4.4 | 21.4 | +- .6 | 16.7 | +- .7 | 6.1 |
| 029 | 66 | 2.1 | 24.1 | +- .7 | 18.9 | +- .8 | 6.3 |
| 031 | 33 | 5.4 | 22.0 | +- .7 | 17.7 | +- .7 | 6.2 |
| 032 | 23 | 19. | 24.9 | +- .7 | 19.7 | +- .8 | 6.4 |
| 033 | 23 | 19. | 26.0 | +- .8 | 20.0 | +- .8 | 6.7 |
| 034 | 23 | 19. | 26.6 | +- .8 | 20.4 | +- .8 | 6.4 |
| 035 | 23 | 19. | 26.0 | +- .8 | 20.4 | +- .8 | 6.4 |
| TRANSIT DOSE = | | | 4.7 | +- .4 | 5.4 | | |

SEABROOK
FOR THE PERIOD 870918-880126

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std. Dev. | # IN GROUP |
|---------------------|--|------------|
| 348.75-11.25 (N) | 17.7 \pm .7 | 2 |
| 11.25-33.75 (NNE) | 18.7 \pm .3 | 2 |
| 33.75-56.25 (NE) | 16.1 \pm 1.7 | 2 |
| 56.25-78.75 (ENE) | 18.9 \pm 0.0 | 1 |
| 78.75-101.25 (E) | 18.2 \pm 0.0 | 1 |
| 101.25-123.75 (ESE) | 16.3 \pm 0.0 | 1 |
| 123.75-146.25 (SE) | 17.5 \pm 0.0 | 1 |
| 146.25-168.75 (SSE) | 16.7 \pm .5 | 3 |
| 168.75-191.25 (S) | 17.8 \pm 1.2 | 3 |
| 191.25-213.75 (SSW) | 18.3 \pm 2.1 | 2 |
| 213.75-236.25 (SW) | 17.4 \pm .7 | 2 |
| 236.25-258.75 (WSW) | 20.8 \pm 4.4 | 3 |
| 258.75-281.25 (W) | 16.5 \pm .7 | 2 |
| 281.25-303.75 (WNW) | 18.1 \pm .3 | 2 |
| 303.75-326.25 (NW) | 18.1 \pm 1.9 | 2 |
| 326.25-348.75 (NNW) | 18.3 \pm .8 | 2 |
| | | |

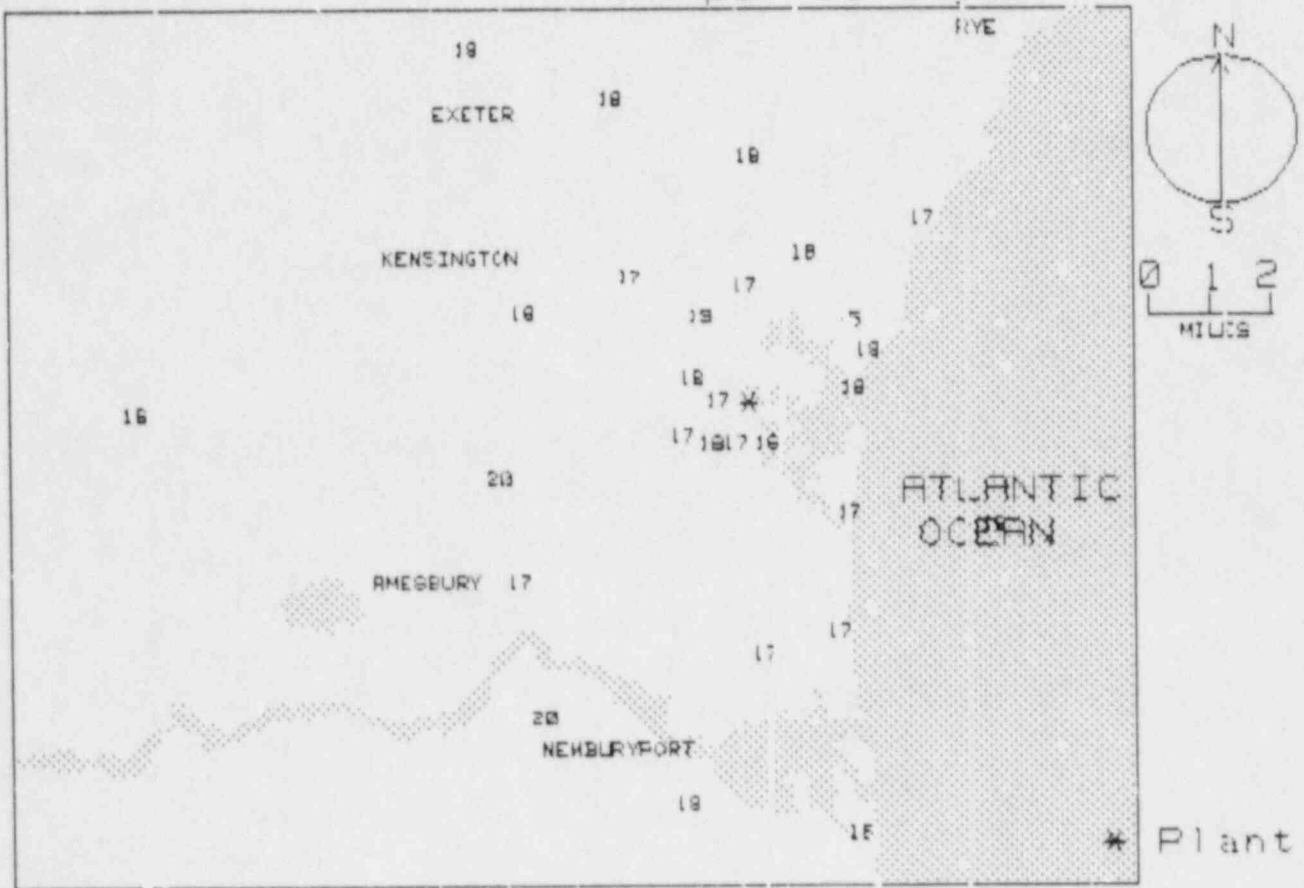
| DISTANCE (mi.) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std. Dev. | # IN GROUP |
|---------------------------------|--|------------|
| 0-2 | 17.5 \pm .8 | 10 |
| 2-5 | 17.5 \pm 1.3 | 13 |
| >5 | 19.1 \pm 3.0 | 8 |
| UPWIND CONTROL DATA | 20.3 \pm .5 | 3 |

SEABROOK

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|--------------------------|
| 1 | .7 | 157 | END OF RAILROAD AVE. |
| 2 | .7 | 179 | CAUSEWAY ST. |
| 3 | .7 | 199 | DIRT ROAD OFF DEPOT RD. |
| 4 | .9 | 223 | RR OVERPASS ON DEPOT RD. |
| 5 | 1.2 | 244 | PINE ST. & RT. 1A |
| 6 | 1.0 | 293 | PAGES LANE |
| 7 | .5 | 275 | ROCKS RD. |
| 8 | 2.8 | 317 | BRIMERS LANE |
| 9 | 1.6 | 331 | LINCOLN AKERMAN SCH. |
| 10 | 1.9 | 358 | MARSHVIEW RESTAURANT |
| 11 | 2.6 | 20 | WINNACUNNET HIGH SCHOOL |
| 12 | 2.1 | 50 | GLADE PATH RD. |
| 13 | 1.7 | 82 | N.H. LOBSTER CO. |
| 14 | 4.1 | 43 | SCRUB-A-DUB LAUNDRY |
| 15 | 4.0 | 0 | RT. 101C & RT. 51 |
| 16 | 12.0 | 20 | N. CONGREGATIONAL PARISH |
| 17 | 7.3 | 322 | EXETER |
| 18 | 3.9 | 292 | DOW LANE |
| 19 | 9.9 | 269 | LOCUST ST. |
| 20 | 4.2 | 253 | RT. 150 AND STREAM |
| 21 | 4.7 | 232 | MT. PROSPECT CEMETERY |
| 22 | 6.1 | 213 | ST. MARYS CEMETERY |
| 23 | 6.6 | 189 | COFFIN COURT |
| 24 | 7.2 | 166 | PLUM ISLAND |
| 25 | 4.1 | 177 | LONG HILL CEMETERY |
| 26 | 4.0 | 159 | E TO Z PARKING |
| 27 | 2.4 | 138 | SEABROOK BEACH |
| 28 | 4.4 | 117 | RIVER ST. |
| 30 | 2.1 | 66 | ASHWORTH AVE. |
| 31 | 5.4 | 336 | PHINNEY LANE |
| 32 | 19.0 | 237 | WESTVIEW CEMETERY |
| 33 | 19.0 | 237 | LAWRENCE(MASS.) |
| 34 | 19.0 | 237 | LAWRENCE(MASS.) |
| 35 | 19.0 | 237 | LAWRENCE (MASS.) |

NRC TLD DOSES FOR SEABROOK AREA
(mR per 90 days)



SEQUOYAH
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870917-880126 132 DAYS
 FIELD TIME 100 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|----------------|-------------------|---------------|------------------------|-----------|---------------------|-----------|
| | AZIMUTH (deg.) | DIST (mi.) | + - | Rdm; Tot. | mR/Std. Qtr. + - | Rdm; Tot. |
| 001 | 213 | 12. | 20. | 6 +- | 16. | 5 +- |
| 002 | 206 | 13. | 16. | 8 +- | 13. | 1 +- |
| 003 | 203 | 0.9 | 24. | 5 +- | 20. | 1 +- |
| 004 | 199 | 2.0 | 18. | 9 +- | 15. | 0 +- |
| 005 | 181 | 1.4 | 25. | 3 +- | 20. | 0 +- |
| 006 | 153 | 1.1 | 17. | 8 +- | 14. | 0 +- |
| 007 | 139 | 1.1 | 18. | 2 +- | 14. | 0 +- |
| 008 | 118 | 1.1 | 17. | 8 +- | 14. | 0 +- |
| 009 | 84 | 1.1 | 15. | 7 +- | 12. | 1 +- |
| 010 | 66 | 1.1 | 20. | 1 +- | 15. | 1 +- |
| 011 | 45 | 1.1 | 19. | 3 +- | 15. | 0 +- |
| 012 | 14 | 1.1 | 21. | 1 +- | 17. | 0 +- |
| 013 | 0 | 1.1 | 21. | 1 +- | 17. | 0 +- |
| 014 | 19 | 1.1 | 21. | 1 +- | 17. | 0 +- |
| 015 | 40 | 1.1 | 18. | 0 +- | 14. | 2 +- |
| 016 | 65 | 1.1 | 19. | 0 +- | 15. | 7 +- |
| 017 | 90 | 1.1 | 22. | 0 +- | 18. | 0 +- |
| 018 | 111 | 1.1 | 22. | 0 +- | 18. | 0 +- |
| 019 | 135 | 1.1 | 22. | 0 +- | 18. | 0 +- |
| 020 | 158 | 1.1 | 22. | 0 +- | 18. | 0 +- |
| 021 | 184 | 1.1 | 22. | 0 +- | 18. | 0 +- |
| 022 | 203 | 1.1 | 16. | 0 +- | 13. | 0 +- |
| 023 | 219 | 1.1 | 19. | 0 +- | 15. | 0 +- |
| 024 | 241 | 1.1 | 19. | 0 +- | 15. | 0 +- |
| 025 | 255 | 1.1 | 18. | 0 +- | 14. | 0 +- |
| 026 | 268 | 1.1 | 18. | 0 +- | 14. | 0 +- |
| 027 | 276 | 1.1 | 17. | 0 +- | 13. | 0 +- |
| 028 | 290 | 1.1 | 16. | 0 +- | 12. | 0 +- |
| 029 | 309 | 1.1 | 16. | 0 +- | 12. | 0 +- |
| 030 | 330 | 1.1 | 16. | 0 +- | 12. | 0 +- |
| 031 | 350 | 1.1 | 16. | 0 +- | 12. | 0 +- |
| 032 | 365 | 1.1 | 16. | 0 +- | 12. | 0 +- |
| 033 | 374 | 1.1 | 16. | 0 +- | 12. | 0 +- |
| 034 | 377 | 1.1 | 16. | 0 +- | 12. | 0 +- |
| 035 | 380 | 1.1 | 16. | 0 +- | 12. | 0 +- |
| 036 | 383 | 1.1 | 16. | 0 +- | 12. | 0 +- |
| 037 | 386 | 1.1 | 16. | 0 +- | 12. | 0 +- |
| 038 | 389 | 1.1 | 16. | 0 +- | 12. | 0 +- |
| 039 | 392 | 1.1 | 16. | 0 +- | 12. | 0 +- |
| 040 | 395 | 1.1 | 16. | 0 +- | 12. | 0 +- |
| 041 | 398 | 1.1 | 16. | 0 +- | 12. | 0 +- |
| TRANSIT DOSE = | 2.2 | + - | 3 | | | |

SEQUOYAH
FOR THE PERIOD 870917-380126

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 15.5 \pm 2.2 | 2 |
| 11.25-33.75 (NNE) | 17.1 \pm .3 | 2 |
| 33.75-56.25 (NE) | 14.8 \pm .8 | 2 |
| 56.25-78.75 (ENE) | 15.8 \pm .3 | 2 |
| 78.75-101.25 (E) | 15.2 \pm 4.4 | 2 |
| 101.25-123.75 (ESE) | 15.3 \pm 1.6 | 2 |
| 123.75-146.25 (SE) | 15.5 \pm 1.7 | 2 |
| 146.25-168.75 (SSE) | 15.3 \pm 1.6 | 2 |
| 168.75-191.25 (S) | 20.0 \pm 1.1 | 2 |
| 191.25-213.75 (SSW) | 16.0 \pm 3.6 | 3 |
| 213.75-236.25 (SW) | 14.5 \pm 2.4 | 4 |
| 236.25-258.75 (WSW) | 14.9 \pm .5 | 2 |
| 258.75-281.25 (W) | 14.8 \pm 1.0 | 3 |
| 281.25-303.75 (WNW) | 15.0 \pm 1.6 | 2 |
| 303.75-326.25 (NW) | 15.6 \pm .4 | 3 |
| 326.25-348.75 (NNW) | 14.9 \pm .5 | 3 |
| | | |

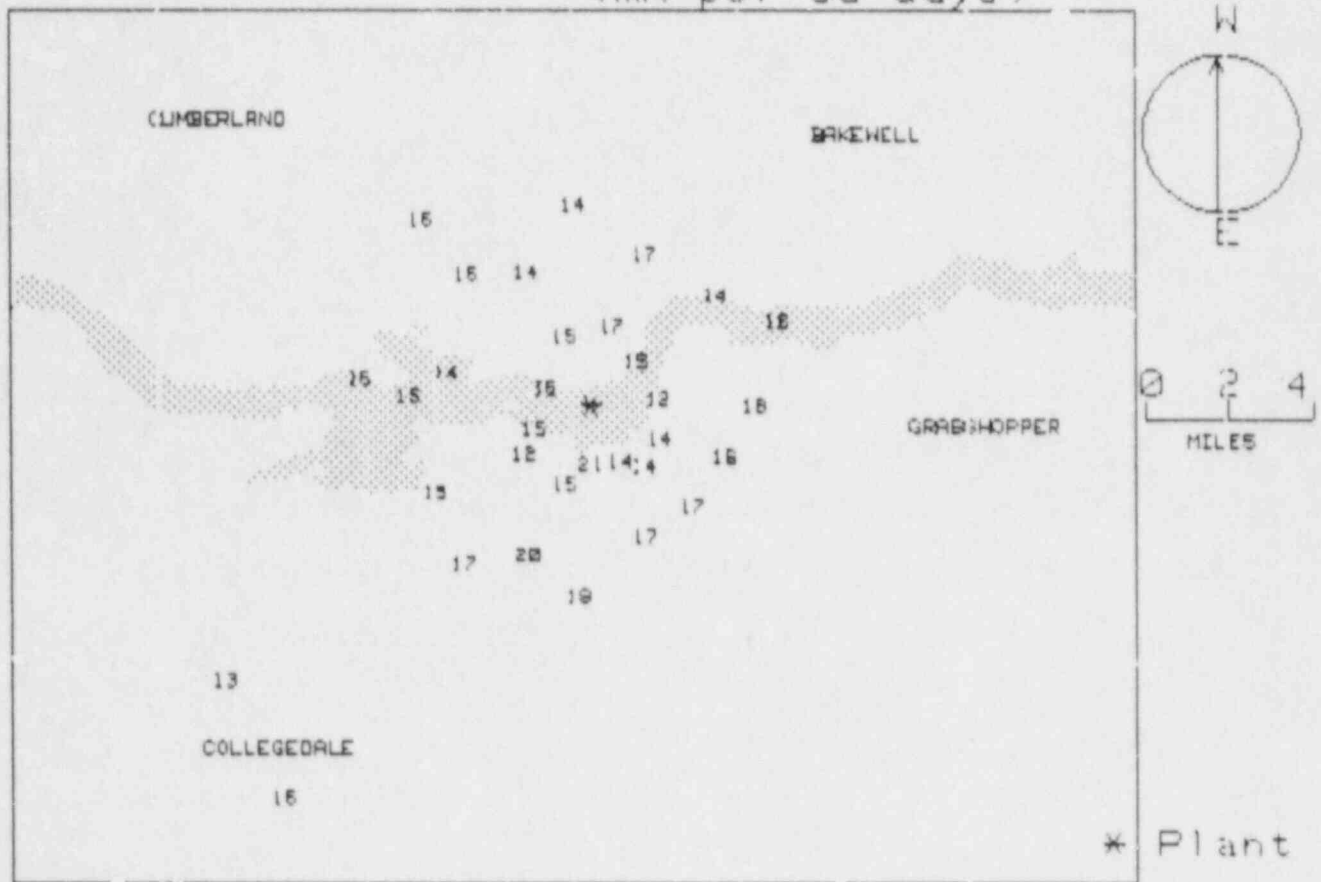
| DISTANCE (mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|--------------------------------|---|------------|
| 3-2 | 15.0 \pm 2.0 | 16 |
| 2-5 | 16.2 \pm 1.8 | 17 |
| >5 | 14.8 \pm 1.6 | 5 |
| UPWIND CONTROL DATA | 14.2 \pm 1.0 | 3 |

SEQUOYAH

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|----------------------------------|
| 1 | 12.0 | 218 | KINGS PT. RD. & HWY. 58 |
| 2 | 13.0 | 206 | SHALLOWFORD RD. & HWY. 153 |
| 3 | 3.9 | 203 | HARRISON BAY STATE PARK |
| 4 | 2.0 | 199 | MORNING GLORY FARMS |
| 5 | 1.4 | 181 | ORR SLOUGH |
| 6 | 1.5 | 153 | 9420 HARRISON BAY RD. |
| 7 | 1.9 | 139 | HARRISON BAY RD. AT BIRCHWOOD PK |
| 8 | 1.8 | 115 | BIRCHWOOD PK NEAR IGOU FERRY RD |
| 9 | 1.6 | 84 | 10404 BIRCHWOOD PIKE |
| 10 | 1.3 | 66 | BIRCHWOOD PIKE AT LYNN RD. |
| 11 | 1.5 | 45 | TVA PUBLIC USE AREA |
| 12 | 2.0 | 14 | WARE BRANCH LANE |
| 13 | 2.1 | 2 | 6304 DOGWOOD DR. |
| 14 | 3.9 | 19 | HENRY RD. |
| 15 | 4.0 | 48 | GAMBLE RD. (BOX 279) |
| 16 | 4.9 | 65 | GAMBLE RD. |
| 17 | 3.9 | 90 | DOLLY POND ROAD |
| 18 | 3.4 | 111 | NEW SHEPHERD HILL CHURCH |
| 19 | 3.4 | 135 | TVA SUBSTATION |
| 20 | 3.4 | 158 | BIRCHWOOD PIKE |
| 21 | 4.6 | 184 | 3RD UTILITY POLE, HWY 58 |
| 22 | 11.0 | 233 | NORTHGATE MALL |
| 23 | 4.9 | 219 | GOLD PT. CIRCLE RD. |
| 24 | 4.3 | 241 | DALLAS SCHOOL |
| 25 | 2.0 | 235 | BASE BAY MARINA |
| 26 | 1.3 | 248 | N. OF BASE BAY MARINA |
| 27 | 1.2 | 266 | HIXSON PIKE & IGOU FERRY RD. |
| 28 | 1.2 | 291 | HIXSON PIKE S. OF IGOU FERRY RD. |
| 29 | 1.2 | 309 | EXXON STATION |
| 30 | .5 | 330 | IGOU FERRY RD. & STONESAGE RD. |
| 31 | 1.8 | 339 | STONESAGE RD. AT POINT PLACE RD. |
| 32 | 4.9 | 355 | ARMSTRONG RD. |
| 33 | 3.6 | 334 | CERA CLUB |
| 34 | 4.4 | 317 | DALLAS HOLLOW RD. |
| 35 | 5.6 | 277 | SODDY-DAISY OFF DEPOT RD. |
| 36 | 3.6 | 283 | JOHN H. ALLEN SCHOOL |
| 37 | 4.4 | 273 | SEQUOYHA HEALTH CENTER |
| 38 | 19.0 | 302 | FIRST BAPTIST CHURCH (DUNLAP) |
| 39 | 18.0 | 290 | HWY. 127 & HWY. 28 |
| 40 | 18.0 | 289 | HWY. 127 S. OF DUNLAP |
| 41 | 6.1 | 318 | SODDY ELEMENTARY SCHOOL |

NRC TLD DOSES FOR SEQUOYAH AREA (mR per 90 days)



SHOREHAM
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870918-880126 131 DAYS
 FIELD TIME 94 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|--------------|----------------|------------|---------------------|----|--------------------------|----|
| | AZIMUTH (Deg.) | DIST (mi.) | + Rdm; Tot. | | mR/Std. Qtr. + Rdm; Tot. | |
| 001 | 26 | 10 | 18.1 | +- | 15.8 | +- |
| 002 | 26 | 4.4 | 19.1 | +- | 16.8 | +- |
| 003 | 25 | 3.2 | 19.8 | +- | 15.8 | +- |
| 004 | 26 | 2.1 | 18.7 | +- | 15.8 | +- |
| 005 | 24 | 1.7 | 19.5 | +- | 16.8 | +- |
| 007 | 13 | 1.5 | 22.7 | +- | 19.4 | +- |
| 008 | 11 | 0.9 | 22.1 | +- | 18.8 | +- |
| 009 | 9 | 0.8 | 19.1 | +- | 15.8 | +- |
| 010 | 7 | 0.7 | 17.1 | +- | 14.8 | +- |
| 011 | 6 | 0.7 | 17.6 | +- | 14.8 | +- |
| 012 | 7 | 1.1 | 18.1 | +- | 15.8 | +- |
| 013 | 8 | 2.1 | 18.7 | +- | 15.8 | +- |
| 014 | 11 | 4.6 | 16.6 | +- | 13.8 | +- |
| 015 | 11 | 10 | 18.6 | +- | 15.8 | +- |
| 016 | 13 | 14 | 18.8 | +- | 15.8 | +- |
| 017 | 16 | 13 | 19.1 | +- | 15.8 | +- |
| 018 | 17 | 11 | 17.8 | +- | 14.8 | +- |
| 019 | 18 | 9 | 17.8 | +- | 14.8 | +- |
| 021 | 14 | 6 | 18.8 | +- | 15.8 | +- |
| 022 | 14 | 1.1 | 19.8 | +- | 16.8 | +- |
| 023 | 14 | 1.1 | 19.8 | +- | 16.8 | +- |
| 024 | 14 | 1.1 | 19.8 | +- | 16.8 | +- |
| 025 | 14 | 1.1 | 19.8 | +- | 16.8 | +- |
| 026 | 14 | 1.1 | 19.8 | +- | 16.8 | +- |
| 027 | 14 | 1.1 | 19.8 | +- | 16.8 | +- |
| 028 | 14 | 1.1 | 19.8 | +- | 16.8 | +- |
| 029 | 14 | 1.1 | 19.8 | +- | 16.8 | +- |
| 030 | 14 | 1.1 | 19.8 | +- | 16.8 | +- |
| 031 | 14 | 1.1 | 19.8 | +- | 16.8 | +- |
| 032 | 14 | 1.1 | 19.8 | +- | 16.8 | +- |
| 033 | 14 | 1.1 | 19.8 | +- | 16.8 | +- |
| 034 | 14 | 1.1 | 19.8 | +- | 16.8 | +- |
| 035 | 14 | 1.1 | 19.8 | +- | 16.8 | +- |
| 036 | 14 | 1.1 | 19.8 | +- | 16.8 | +- |
| TRANSIT DOSE | 2.4 | +- | 3 | | 4.7 | |

OR DAMAGED DOSIMETER

SHOREHAM
FOR THE PERIOD 870918-880126

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | NO DATA+-NO DATA | 0 |
| 11.25-33.75 (NNE) | 14.5 \pm 0.0 | 1 |
| 33.75-56.25 (NE) | 16.0 \pm 0.0 | 1 |
| 56.25-78.75 (ENE) | 14.5 \pm .5 | 3 |
| 78.75-101.25 (E) | 15.7 \pm .3 | 2 |
| 101.25-123.75 (ESE) | 15.8 \pm 2.7 | 3 |
| 123.75-146.25 (SE) | 16.8 \pm 2.3 | 3 |
| 146.25-168.75 (SSE) | 15.6 \pm .6 | 3 |
| 168.75-191.25 (S) | 14.5 \pm 0.0 | 2 |
| 191.25-213.75 (SSW) | 14.7 \pm .7 | 3 |
| 213.75-236.25 (SW) | 13.7 \pm .4 | 4 |
| 236.25-258.75 (WSW) | 16.1 \pm .4 | 2 |
| 258.75-281.25 (W) | 15.5 \pm .5 | 3 |
| 281.25-303.75 (WNW) | NO DATA+-NO DATA | 0 |
| 303.75-326.25 (NW) | NO DATA+-NO DATA | 0 |
| 326.25-348.75 (NNW) | NO DATA+-NO DATA | 0 |
| | | |

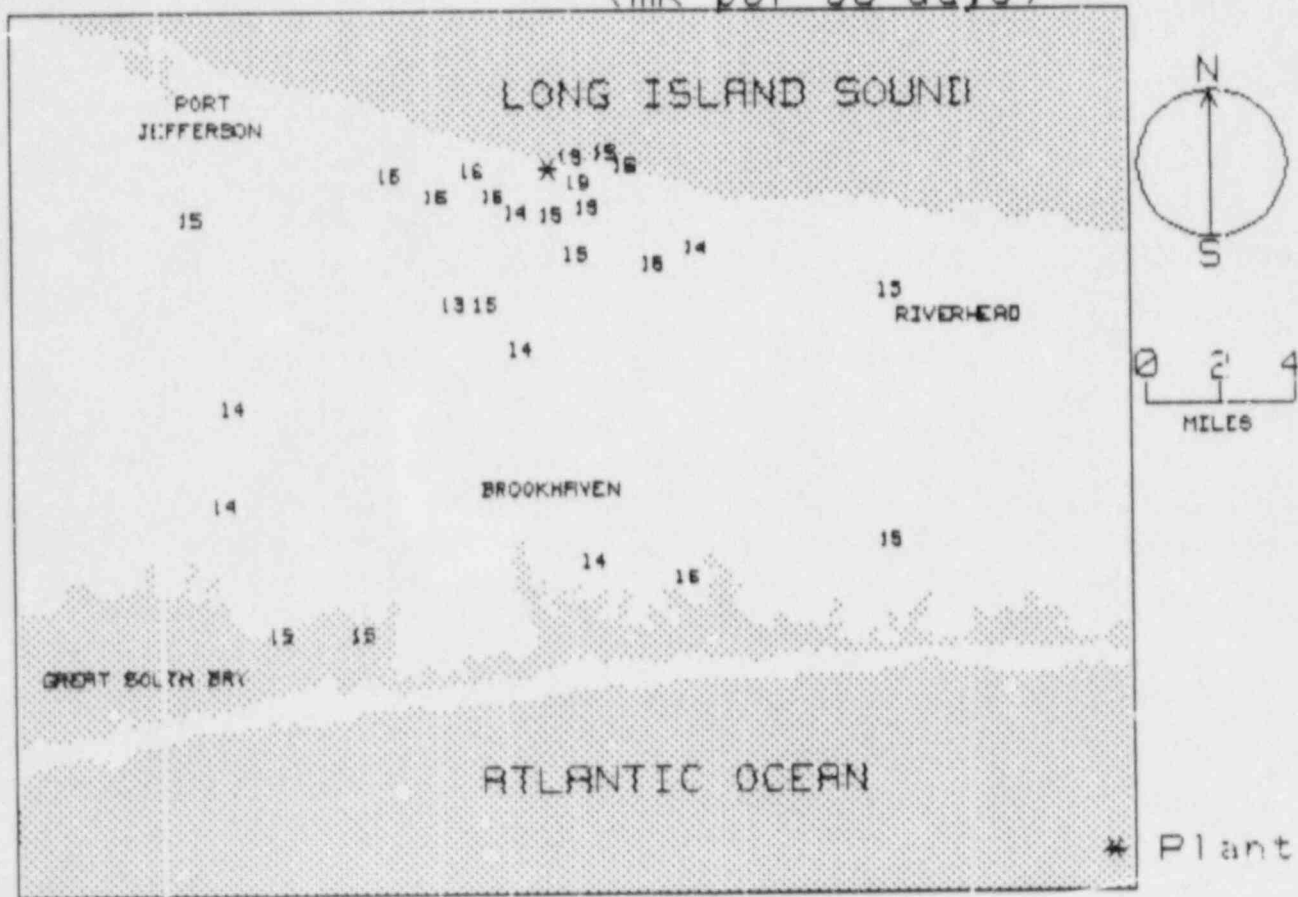
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 15.7 \pm 1.8 | 12 |
| 2-5 | 15.0 \pm 1.1 | 9 |
| 5 | 14.8 \pm .7 | 9 |
| UPWIND CONTROL DATA | 14.9 \pm .4 | 3 |

SHOREHAM

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|---------------------|
| 1 | 10.0 | 262 | MATHOR MEM. HOSP. |
| 2 | 4.4 | 268 | LONG VIEW AVE. |
| 3 | 3.2 | 256 | JUPITER & KING RD. |
| 4 | 2.1 | 268 | BRIARCLIFF SCH |
| 5 | 1.7 | 243 | MILLER AVE SCH. |
| 7 | 1.5 | 136 | DOGWOOD DR. |
| 8 | .9 | 116 | DANBY RESIDENCE |
| 9 | .8 | 91 | PONDVIEW RD. |
| 10 | .7 | 73 | SUNSET BLVD |
| 11 | .7 | 62 | OAK ST. |
| 12 | 1.6 | 75 | ORPHANAGE |
| 13 | 2.1 | 88 | WILDWOOD STATE PARK |
| 14 | 4.6 | 119 | SOUTH PATH RD. |
| 15 | 10.0 | 110 | PULASKI ST. |
| 16 | 14.0 | 138 | WESTHAMPTON CH. |
| 17 | 12.0 | 162 | CENTER MORICHES |
| 18 | 11.0 | 174 | MASTIC FIRE DEPT. |
| 19 | 5.1 | 189 | BROOKHAVEN LABS |
| 21 | 2.5 | 163 | LAKE PANAMOKA |
| 22 | 1.5 | 149 | GATEWAY DR. |
| 23 | 1.3 | 177 | E. OF RANDALL RD |
| 24 | 1.2 | 196 | FENCEHILL RD |
| 25 | 1.5 | 217 | HUCK FINN LN. |
| 26 | 4.6 | 215 | WHISKEY RD. |
| 27 | 4.2 | 205 | RIDGE SCH. |
| 28 | 11.0 | 233 | SELDON |
| 29 | 13.0 | 224 | FARMINGVILLE |
| 30 | 14.0 | 202 | HAGERMAN FIRE CO. |
| 31 | 15.0 | 210 | PATCHOGUE |
| 32 | 15.0 | 210 | PATCHOGUE |
| 33 | 15.0 | 210 | PATCHOGUE |
| 34 | .2 | 27 | END OF SOUND RD. |
| 35 | .3 | 50 | FIELD & TENNIS CLUB |
| 36 | 3.9 | 133 | GRUMAN AIRPORT |

NRC TLD DOSES FOR SHOREHAM AREA
(mR per 90 days)



S. TEXAS
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870915-880127 135 DAYS
 FIELD TIME 90 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE(mR) | | | NET EXPOSURE RATE | | |
|----------------|-------------------|---------------|--------------------|-----|------|-------------------|-----|-----------|
| | AZIMUTH (deg.) | DIST (mi.) | + - | Rdm | Tot. | mR/Std. Qtr. | + - | Rdm; Tot. |
| 001 | 90 | 1 | 15.4 | +- | .5 | 2.3 | NO | NET DATA |
| 002 | 63 | 1 | 22.7 | +- | .7 | 3.4 | NO | NET DATA |
| 003 | 40 | 1 | 23.2 | +- | .7 | 3.5 | NO | NET DATA |
| 004 | 19 | 1 | 21.9 | +- | .7 | 3.3 | NO | NET DATA |
| 005 | 4 | .9 | 20.1 | +- | .6 | 3.0 | NO | NET DATA |
| 006 | 339 | .9 | 20.3 | +- | .6 | 3.0 | NO | NET DATA |
| 007 | 318 | 1 | 20.8 | +- | .6 | 3.1 | NO | NET DATA |
| 008 | 294 | 1.1 | 24.9 | +- | .7 | 3.7 | NO | NET DATA |
| 009 | 267 | 1.3 | 24.2 | +- | .7 | 3.6 | NO | NET DATA |
| 010 | 126 | .3 | 21.2 | +- | .6 | 3.2 | NO | NET DATA |
| 011 | 180 | .1 | 20.1 | +- | .6 | 3.0 | NO | NET DATA |
| 012 | 257 | .5 | 20.4 | +- | .6 | 3.1 | NO | NET DATA |
| 013 | 262 | .9 | 20.1 | +- | .6 | 3.0 | NO | NET DATA |
| 014 | 250 | 1.3 | 21.2 | +- | .6 | 3.2 | NO | NET DATA |
| 015 | 227 | 2.4 | 20.3 | +- | .6 | 3.0 | NO | NET DATA |
| 016 | 210 | 3.7 | 20.2 | +- | .6 | 3.0 | NO | NET DATA |
| 017 | 175 | 3.6 | 19.8 | +- | .6 | 3.0 | NO | NET DATA |
| 018 | 158 | 3.7 | 19.7 | +- | .6 | 3.0 | NO | NET DATA |
| 019 | 143 | 3.3 | 20.6 | +- | .6 | 3.1 | NO | NET DATA |
| 020 | 122 | 2.3 | 19.7 | +- | .6 | 3.0 | NO | NET DATA |
| 021 | 121 | 1.1 | 19.1 | +- | .6 | 2.9 | NO | NET DATA |
| 022 | 257 | 2.5 | 20.1 | +- | .6 | 3.0 | NO | NET DATA |
| 023 | 262 | 4.5 | 25.2 | +- | .8 | 3.0 | NO | NET DATA |
| 024 | 282 | 4.7 | 22.7 | +- | .7 | 3.4 | NO | NET DATA |
| 025 | 304 | 5.0 | 21.6 | +- | .6 | 3.2 | NO | NET DATA |
| 026 | 242 | 5.4 | 20.9 | +- | .6 | 3.1 | NO | NET DATA |
| 027 | 223 | 5.5 | 22.7 | +- | .7 | 3.4 | NO | NET DATA |
| 028 | 236 | 9.6 | 19.0 | +- | .6 | 3.0 | NO | NET DATA |
| 029 | 259 | 10. | 20.0 | +- | .6 | 3.1 | NO | NET DATA |
| 030 | 291 | 6.2 | 25.2 | +- | .8 | 3.0 | NO | NET DATA |
| 031 | 323 | 7.0 | 22.5 | +- | .7 | 3.4 | NO | NET DATA |
| 032 | 335 | 7.4 | 26.5 | +- | .8 | 4.0 | NO | NET DATA |
| 033 | 351 | 5.5 | 18.9 | +- | .6 | 3.0 | NO | NET DATA |
| 034 | 88 | 4.4 | 19.5 | +- | .6 | 3.4 | NO | NET DATA |
| 035 | 89 | 6.7 | 16.5 | +- | .5 | 2.9 | NO | NET DATA |
| 036 | 121 | 3.9 | 21.4 | +- | .6 | 3.2 | NO | NET DATA |
| 037 | 145 | 0.0 | 19.6 | +- | .6 | 3.0 | NO | NET DATA |
| 038 | 297 | 12.3 | 19.5 | +- | .6 | 3.0 | NO | NET DATA |
| 039 | 321 | 9.3 | 22.1 | +- | .7 | 3.3 | NO | NET DATA |
| 040 | 353 | 12.1 | 21.0 | +- | .6 | 3.1 | NO | NET DATA |
| 041 | 18 | 13.7 | 22.0 | +- | .7 | 3.3 | NO | NET DATA |
| 042 | 21 | 5.7 | 21.6 | +- | .6 | 3.2 | NO | NET DATA |
| 043 | 39 | 5.0 | 21.5 | +- | .6 | 3.2 | NO | NET DATA |
| 044 | 53 | 5.1 | 24.3 | +- | .7 | 3.6 | NO | NET DATA |
| 045 | 69 | 7.3 | 20.5 | +- | .6 | 3.1 | NO | NET DATA |
| 046 | 66 | 17. | 26.0 | +- | .8 | 3.9 | NO | NET DATA |

NO TRANSIT DOSE CALCULATED (TLD CONTROLS MISSING OR OTHERWISE NOT COMPLETE)

S. TEXAS
FOR THE PERICI 870915-880127

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | NET AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std. Dev. | # IN GROUP |
|---------------------|--|------------|
| 348.75-11.25 (N) | 13.0 \pm .5 | 2 |
| 11.25-33.75 (NNE) | 14.5 \pm .2 | 2 |
| 33.75-56.25 (NE) | 15.3 \pm .9 | 3 |
| 56.25-78.75 (ENE) | 15.4 \pm 1.8 | 3 |
| 78.75-101.25 (E) | 12.8 \pm 2.4 | 3 |
| 101.25-123.75 (ESE) | 13.4 \pm .8 | 3 |
| 123.75-146.25 (SE) | 13.6 \pm .8 | 3 |
| 146.25-168.75 (SSE) | 13.1 \pm 0.0 | 1 |
| 168.75-191.25 (S) | 13.3 \pm .2 | 2 |
| 191.25-213.75 (SSW) | 13.4 \pm 0.0 | 1 |
| 213.75-236.25 (SW) | 13.7 \pm 1.3 | 3 |
| 236.25-258.75 (WSW) | 13.7 \pm .3 | 4 |
| 258.75-281.25 (W) | 15.6 \pm 1.7 | 4 |
| 281.25-303.75 (WNW) | 16.2 \pm .9 | 3 |
| 303.75-326.25 (NW) | 14.5 \pm .5 | 4 |
| 326.25-348.75 (NNW) | 15.8 \pm 2.9 | 2 |
| | | |

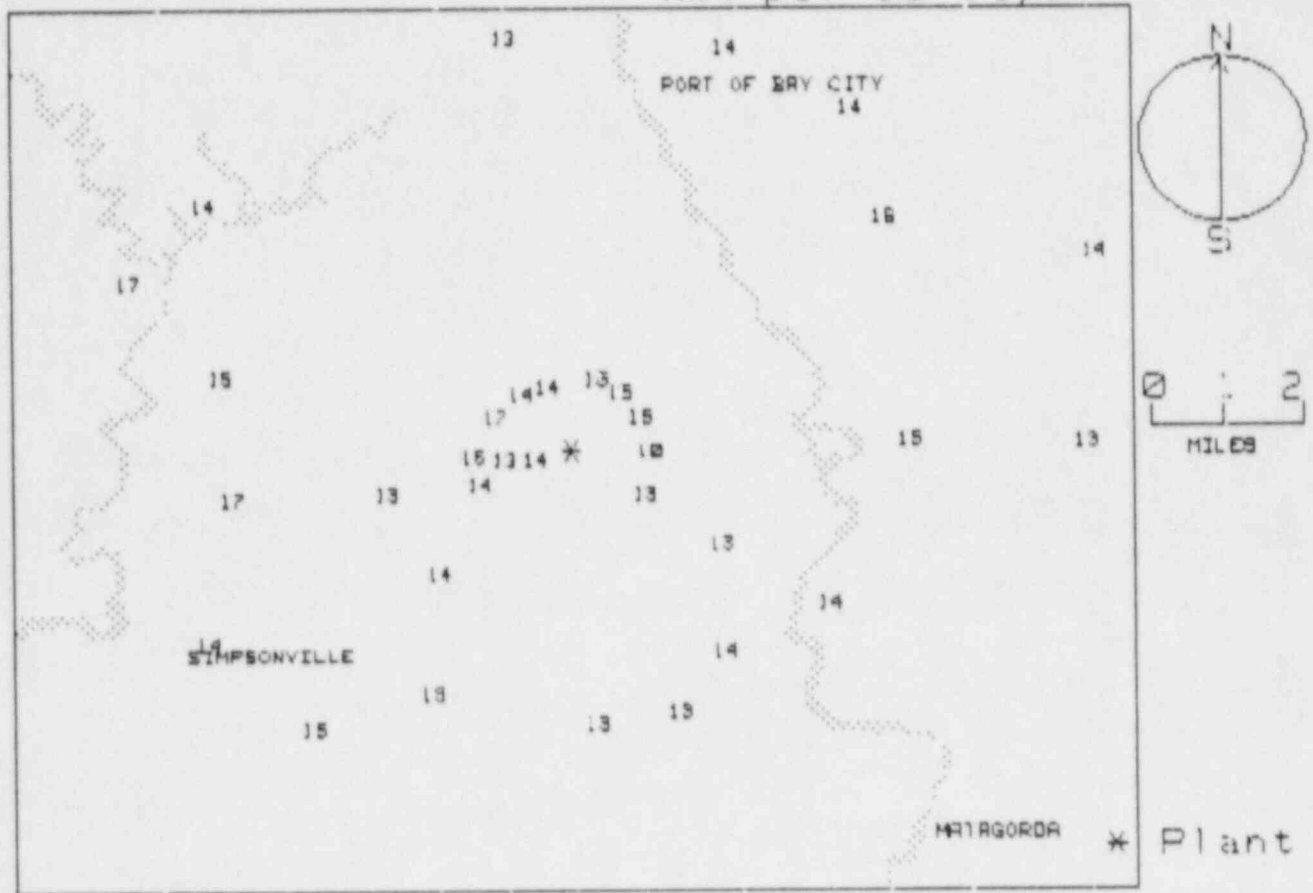
| DISTANCE(mi) FROM THE REACTOR | NET AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std. Dev. | # IN GROUP |
|-------------------------------|--|------------|
| 0-2 | 14.0 \pm 1.5 | 15 |
| 2-5 | 14.1 \pm 1.1 | 12 |
| >5 | 14.6 \pm 1.6 | 16 |
| UPWIND CONTROL DATA | 13.9 \pm .8 | 3 |

S. TEXAS

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|---|
| 1 | 1.0 | 90 | NW CORNER OF STEGS VISITORS CENTER |
| 2 | 1.0 | 63 | W SIDE OF FM 521(0.5 MI NNW OF TLD #1) |
| 3 | 1.0 | 40 | E SIDE OF FM 521(0.4 MI NNW OF TLD#2) |
| 4 | 1.0 | 19 | N SIDE OF FM 521(0.4 MI NW OF TLD#3) |
| 5 | .9 | 4 | S SIDE OF FM 521(0.3 MI W OF TLD#4) |
| 6 | .9 | 339 | S SIDE OF FM 521(0.4 MI W OF TLD#5) |
| 7 | 1.0 | 310 | S SIDE OF FM 521(0.4MI WSW OF TLD#6) |
| 8 | 1.1 | 294 | S SIDE OF FM 521(0.5 MI SW OF TLD#7) |
| 9 | 1.3 | 267 | S SIDE OF FM 521(0.6 MI SSW OF TLD#8) |
| 10 | .3 | 126 | ON DIKE OF RESERVOIR |
| 11 | .1 | 180 | ON DIKE OF RESERVOIR |
| 12 | .5 | 257 | ON DIKE OF RESERVOIR |
| 13 | .9 | 262 | ON DIKE OF RESERVOIR |
| 14 | 1.3 | 250 | ON DIKE OF RESERVOIR |
| 15 | 2.4 | 227 | ON DIKE OF RESERVOIR |
| 16 | 3.7 | 210 | ON DIKE OF RESERVOIR |
| 17 | 3.6 | 175 | ON DIKE OF RESERVOIR |
| 18 | 3.7 | 158 | ON DIKE OF RESERVOIR |
| 19 | 3.3 | 143 | ON DIKE OF RESERVOIR |
| 20 | 2.3 | 122 | ON DIKE OF RESERVOIR |
| 21 | 1.1 | 121 | ON DIKE OF RESERVOIR |
| 22 | 2.5 | 257 | INTERSECTION OF FM 52 & DIPT ROAD |
| 23 | 4.5 | 262 | 0.1MI N OF FM 521 & FM 1095 |
| 24 | 4.7 | 282 | 1.9 MI N OF FM 521 AND FM 1045 |
| 25 | 5.8 | 304 | E OF FM 521 & WILSON CR CEMETERY RD. |
| 26 | 5.4 | 242 | SW OF FM 1095 AND ELLIS ROAD |
| 27 | 5.0 | 223 | 1.4 MI E OF FM 1095 & CITRUS GROVE RD. |
| 28 | 9.6 | 236 | 0.1 MI S OF FM 1045 & COLLEGEPORT POST OFF. |
| 29 | 10.0 | 259 | 0.1 MI W OF HWY 35 & HARRISON RD. |
| 30 | 6.2 | 291 | TRES PALASIOS OAKS, E OF FM 2853 |
| 31 | 7.8 | 323 | 1.1MI E OF FM 1045 & ROAD PARALLEL TO RR. |
| 32 | 7.4 | 335 | 1.7 MI E OF TLD# 31 |
| 33 | 5.5 | 351 | 2.2MI S OF FM 1468 & ROAD PARALLEL TO RR. |
| 34 | 4.4 | 88 | 1.4 MI E OF COLORADO RIVER BRIDGE |
| 35 | 6.7 | 89 | AT DUPONT PLANT ON HWY 60 |
| 36 | 3.9 | 121 | 3.1 MI W OF HWY 60 & RD TO SELKINK IS. |
| 37 | 8.8 | 145 | NE OF LEWIS & MARKET STREETS |
| 38 | 12.0 | 297 | BLESSING WATER TOWER, BLESSING |
| 39 | 9.3 | 321 | 0.1 MI SW OF HWY 35 & FM 1045 |
| 40 | 12.0 | 353 | MARKHAM POST OFFICE, MARKHAM |
| 41 | 13.0 | 18 | 0.4MI W OF HWY 60 & THOMPSON DR., RAY CITY |
| 42 | 5.7 | 21 | NE OF CELANESE PLANT |
| 43 | 5.8 | 39 | 0.8MI S OF FM 3057 & FM 2668 |
| 44 | 5.1 | 53 | 1.7MI SE OF TLD#43(W OF FM 2668) |
| 45 | 7.3 | 69 | SW CORNER OF HWY 60 AND FM 2078 |
| 46 | 17.0 | 66 | 11.4MI E OF HWY 60 & FM 521, ON 521 |

NRC TLD DOSES FOR SOUTH TEXAS AREA (mR per 90 days)



ST. LUCIE
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870917-880126 132 DAYS
 FIELD TIME 93 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|-------------|----------------|------------|---------------------|------|-------------------|-------------|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | Tot. | mR/Std. Dtr. | + Rdm; Tot. |
| 001 | 20 | 0.3 | 17.4 | ++ | 13.4 | ++ |
| 002 | 45 | 0.2 | 18.4 | ++ | 14.3 | ++ |
| 003 | 67 | 0.2 | 17.1 | ++ | 13.1 | ++ |
| 004 | 92 | 0.3 | 17.3 | ++ | 13.3 | ++ |
| 005 | 115 | 0.4 | 16.1 | ++ | 12.3 | ++ |
| 006 | 143 | 1.1 | 15.6 | ++ | 11.7 | ++ |
| 007 | 150 | 2.0 | 13.1 | ++ | 11.1 | ++ |
| 008 | 154 | 4.7 | 16.7 | ++ | 11.1 | ++ |
| 009 | 152 | 23.7 | 17.4 | ++ | 11.1 | ++ |
| 010 | 152 | 23.7 | 16.8 | ++ | 11.1 | ++ |
| 011 | 152 | 23.7 | 17.4 | ++ | 11.1 | ++ |
| 012 | 168 | 14. | 17.3 | ++ | 11.1 | ++ |
| 013 | 185 | 18. | 16.3 | ++ | 11.1 | ++ |
| 014 | 183 | 11. | 19.8 | ++ | 11.1 | ++ |
| 015 | 170 | 8.0 | 14.5 | ++ | 11.1 | ++ |
| 016 | 196 | 6.0 | 16.3 | ++ | 11.1 | ++ |
| 017 | 222 | 7.7 | 17.7 | ++ | 11.1 | ++ |
| 018 | 222 | 7.7 | 16.4 | ++ | 11.1 | ++ |
| 019 | 224 | 5.9 | 15.1 | ++ | 11.1 | ++ |
| 020 | 224 | 5.9 | 16.1 | ++ | 11.1 | ++ |
| 021 | 227 | 6.0 | 17.3 | ++ | 11.1 | ++ |
| 022 | 227 | 6.0 | 16.5 | ++ | 11.1 | ++ |
| 023 | 227 | 6.0 | 16.5 | ++ | 11.1 | ++ |
| 024 | 227 | 6.0 | 16.5 | ++ | 11.1 | ++ |
| 025 | 227 | 6.0 | 16.5 | ++ | 11.1 | ++ |
| 026 | 227 | 6.0 | 16.5 | ++ | 11.1 | ++ |
| 027 | 227 | 6.0 | 16.5 | ++ | 11.1 | ++ |
| 028 | 227 | 6.0 | 16.5 | ++ | 11.1 | ++ |
| 029 | 227 | 6.0 | 16.5 | ++ | 11.1 | ++ |
| 030 | 227 | 6.0 | 16.5 | ++ | 11.1 | ++ |
| 031 | 227 | 6.0 | 16.5 | ++ | 11.1 | ++ |
| 032 | 227 | 6.0 | 16.5 | ++ | 11.1 | ++ |
| 033 | 227 | 6.0 | 16.5 | ++ | 11.1 | ++ |
| 034 | 227 | 6.0 | 16.5 | ++ | 11.1 | ++ |
| 035 | 227 | 6.0 | 16.5 | ++ | 11.1 | ++ |
| 036 | 227 | 6.0 | 16.5 | ++ | 11.1 | ++ |
| 037 | 227 | 6.0 | 16.5 | ++ | 11.1 | ++ |
| 038 | 227 | 6.0 | 16.5 | ++ | 11.1 | ++ |

TRANSIT DOSE = 3.5 +- .3

ST. LUCIE
FOR THE PERIOD 870917-880126

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 12.4 \pm 0.0 | 1 |
| 11.25-33.75 (NNE) | 13.4 \pm 0.0 | 1 |
| 33.75-56.25 (NE) | 14.3 \pm 0.0 | 1 |
| 56.25-78.75 (ENE) | 13.1 \pm 0.0 | 1 |
| 78.75-101.25 (E) | 13.3 \pm 0.0 | 1 |
| 101.25-123.75 (ESE) | 12.2 \pm 0.0 | 1 |
| 123.75-146.25 (SE) | 11.7 \pm 0.0 | 1 |
| 146.25-168.75 (SSE) | 11.7 \pm 2.2 | 3 |
| 168.75-191.25 (S) | 12.5 \pm 1.0 | 4 |
| 191.25-213.75 (SSW) | 12.8 \pm .4 | 3 |
| 213.75-236.25 (SW) | 12.7 \pm .9 | 3 |
| 236.25-258.75 (WSW) | 11.8 \pm .3 | 3 |
| 258.75-281.25 (W) | 11.5 \pm .1 | 2 |
| 281.25-303.75 (WNW) | 12.7 \pm .2 | 3 |
| 303.75-326.25 (NW) | 12.5 \pm 1.5 | 3 |
| 326.25-348.75 (NNW) | 12.1 \pm .7 | 3 |
| | | |

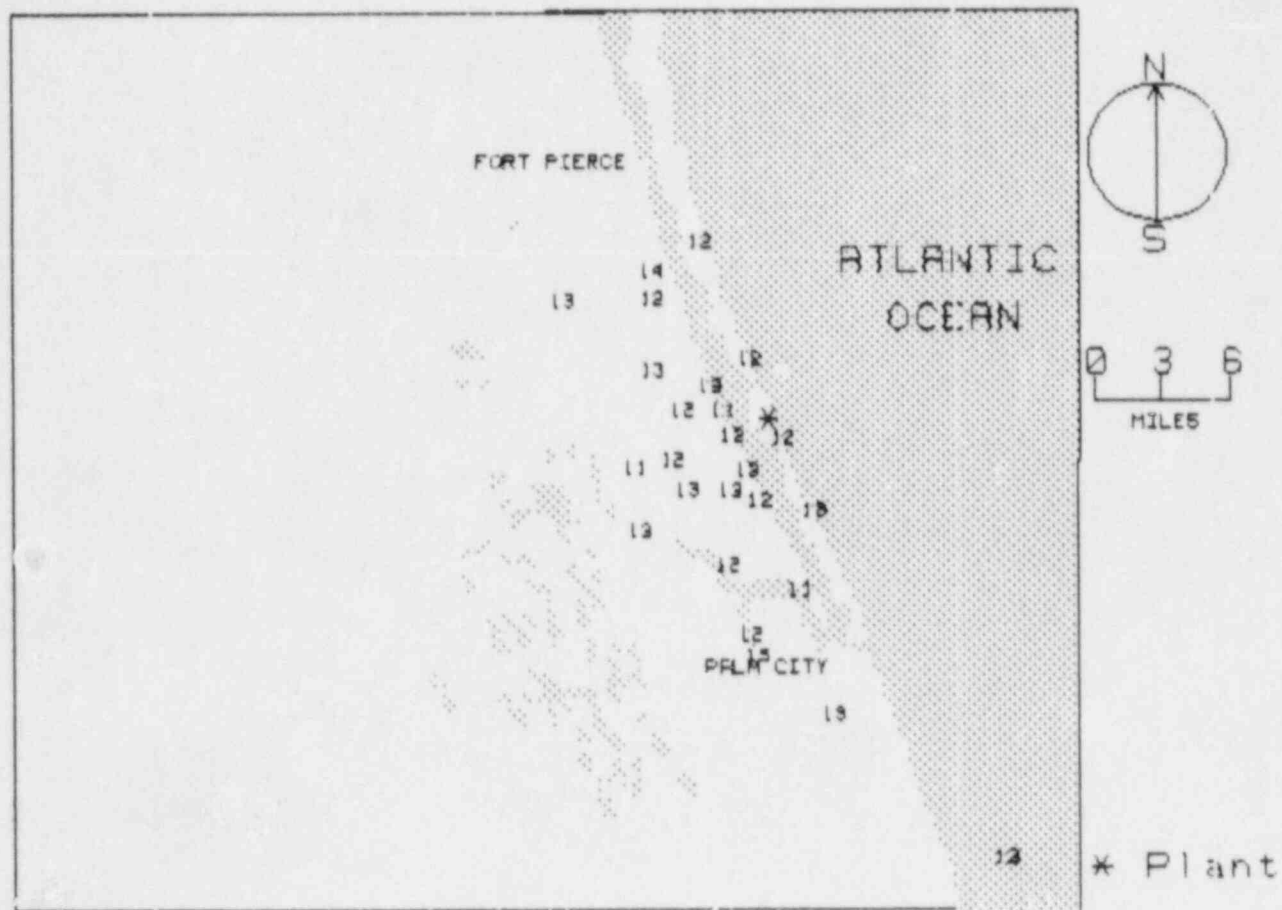
| DISTANCE (mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|--------------------------------|---|------------|
| 0-2 | 12.4 \pm 1.3 | 11 |
| 2-5 | 12.3 \pm .6 | 11 |
| >5 | 12.6 \pm 1.2 | 12 |
| UPWIND CONTROL DATA | 13.2 \pm .3 | 3 |

ST. LUCIE

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|--|
| 1 | .3 | 20 | RT. A1A - BIG MUD CREEK |
| 2 | .2 | 45 | RT. A1A |
| 3 | .2 | 67 | RT. A1A |
| 4 | .3 | 92 | RT. A1A |
| 5 | .4 | 115 | RT. A1A |
| 6 | 1.1 | 143 | RT. A1A |
| 7 | 2.0 | 150 | RT. A1A |
| 8 | 4.7 | 154 | RT. A1A - OCEANA CONDOMINIUMS |
| 9 | 23.0 | 152 | HOBE SOUND |
| 10 | 23.0 | 152 | HOBE SOUND |
| 11 | 23.0 | 152 | HOBE SOUND |
| 12 | 14.0 | 168 | PORT SALERNO |
| 13 | 10.0 | 185 | STUART |
| 14 | 11.0 | 183 | STUART SUBSTATION |
| 15 | 8.0 | 170 | JENSEN BEACH |
| 16 | 7.0 | 196 | JENSEN BEACH SUBSTATION |
| 17 | 7.9 | 229 | PORT ST. LUCIE |
| 18 | 6.6 | 250 | PORT ST. LUCIE BAPTIST CHURCH |
| 19 | 4.8 | 247 | RT. 1 |
| 20 | 5.0 | 229 | RT. 1 & WALTON RD. |
| 21 | 3.8 | 208 | WALTON RD. |
| 22 | 3.8 | 187 | RT. 707 |
| 23 | 2.6 | 203 | RT. 707 |
| 24 | 1.9 | 245 | RT. 707 |
| 25 | 2.2 | 280 | RT. 707 |
| 26 | 3.1 | 299 | RT. 707 |
| 27 | 3.8 | 305 | RT. 707 & RT. 712 |
| 28 | 4.0 | 276 | SILVER OAK DR. |
| 29 | 5.8 | 293 | WHITE CITY SUBSTATION |
| 30 | 7.7 | 316 | SUNRISE BLVD. & VIRGINIA AVE. |
| 32 | 11.0 | 300 | UNIV. OF FLA. AGRICULTURAL RESEARCH CENTER |
| 33 | 8.7 | 322 | ST. LUCIE COUNTY HEALTH DEPT. |
| 34 | 8.8 | 339 | RT. A1A & HERNANDO ST. |
| 35 | 2.9 | 342 | RT. A1A |
| 36 | 1.9 | 346 | RT. A1A - LITTLE MUD CREEK |
| 37 | 1.0 | 353 | RT. A1A - BLIND CREEK |
| 38 | 2.0 | 226 | RT. 707 |

NRC TLD DOSES FOR ST. LUCIE AREF
(mR per 90 days)



SUMMER
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870917-880202 139 DAYS
 FIELD TIME 104 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|----------------|-------------------|---------------|------------------------|-----------|-------------------|-----------|
| | AZIMUTH (deg.) | DIST (mi.) | +/- | Rdm; Tot. | mR/Std. Dtr. | Rdm; Tot. |
| 001 | 190 | 0.3 | 22 | 0.0 | 1.1 | 0.0 |
| 002 | 111 | 1.0 | 40 | 0.0 | 1.1 | 0.0 |
| 003 | 248 | 4.1 | 40 | 0.0 | 1.1 | 0.0 |
| 004 | 111 | 1.1 | 40 | 0.0 | 1.1 | 0.0 |
| 005 | 111 | 1.1 | 40 | 0.0 | 1.1 | 0.0 |
| 006 | 111 | 1.1 | 40 | 0.0 | 1.1 | 0.0 |
| 007 | 111 | 1.1 | 40 | 0.0 | 1.1 | 0.0 |
| 008 | 111 | 1.1 | 40 | 0.0 | 1.1 | 0.0 |
| 009 | 111 | 1.1 | 40 | 0.0 | 1.1 | 0.0 |
| 010 | 111 | 1.1 | 40 | 0.0 | 1.1 | 0.0 |
| 011 | 111 | 1.1 | 40 | 0.0 | 1.1 | 0.0 |
| 012 | 111 | 1.1 | 40 | 0.0 | 1.1 | 0.0 |
| 013 | 111 | 1.1 | 40 | 0.0 | 1.1 | 0.0 |
| 014 | 111 | 1.1 | 40 | 0.0 | 1.1 | 0.0 |
| 015 | 111 | 1.1 | 40 | 0.0 | 1.1 | 0.0 |
| 016 | 111 | 1.1 | 40 | 0.0 | 1.1 | 0.0 |
| 017 | 111 | 1.1 | 40 | 0.0 | 1.1 | 0.0 |
| 018 | 111 | 1.1 | 40 | 0.0 | 1.1 | 0.0 |
| 019 | 111 | 1.1 | 40 | 0.0 | 1.1 | 0.0 |
| 020 | 111 | 1.1 | 40 | 0.0 | 1.1 | 0.0 |
| 021 | 111 | 1.1 | 40 | 0.0 | 1.1 | 0.0 |
| 022 | 111 | 1.1 | 40 | 0.0 | 1.1 | 0.0 |
| 023 | 111 | 1.1 | 40 | 0.0 | 1.1 | 0.0 |
| 024 | 111 | 1.1 | 40 | 0.0 | 1.1 | 0.0 |
| 025 | 111 | 1.1 | 40 | 0.0 | 1.1 | 0.0 |
| 026 | 111 | 1.1 | 40 | 0.0 | 1.1 | 0.0 |
| 027 | 111 | 1.1 | 40 | 0.0 | 1.1 | 0.0 |
| 028 | 111 | 1.1 | 40 | 0.0 | 1.1 | 0.0 |
| 029 | 111 | 1.1 | 40 | 0.0 | 1.1 | 0.0 |
| 030 | 111 | 1.1 | 40 | 0.0 | 1.1 | 0.0 |
| 031 | 111 | 1.1 | 40 | 0.0 | 1.1 | 0.0 |
| 032 | 111 | 1.1 | 40 | 0.0 | 1.1 | 0.0 |
| 033 | 111 | 1.1 | 40 | 0.0 | 1.1 | 0.0 |
| 034 | 111 | 1.1 | 40 | 0.0 | 1.1 | 0.0 |
| 035 | 111 | 1.1 | 40 | 0.0 | 1.1 | 0.0 |
| 036 | 111 | 1.1 | 40 | 0.0 | 1.1 | 0.0 |
| 037 | 111 | 1.1 | 40 | 0.0 | 1.1 | 0.0 |
| 038 | 140 | 0.0 | 40 | 0.0 | 1.1 | 0.0 |
| 039 | 140 | 0.0 | 40 | 0.0 | 1.1 | 0.0 |
| 040 | 135 | 0.0 | 40 | 0.0 | 1.1 | 0.0 |

TRANSIT DOSE = 4.0

ING OR DAMAGED DOSIM

NET EXPOSURE RATE

SUMMER
FOR THE PERIOD 870917-880202

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 22.9 \pm 2.6 | 2 |
| 11.25-33.75 (NNE) | 23.0 \pm 2.3 | 3 |
| 33.75-56.25 (NE) | 22.5 \pm 3.4 | 2 |
| 56.25-78.75 (ENE) | 20.1 \pm 3.3 | 2 |
| 78.75-101.25 (E) | 21.3 \pm 0.0 | 1 |
| 101.25-123.75 (ESE) | 18.7 \pm 2.3 | 2 |
| 123.75-146.25 (SE) | 16.4 \pm 1.6 | 3 |
| 146.25-168.75 (SSE) | 14.5 \pm 5.9 | 3 |
| 168.75-191.25 (S) | 18.1 \pm .2 | 2 |
| 191.25-213.75 (SSW) | 19.6 \pm .6 | 4 |
| 213.75-236.25 (SW) | 14.5 \pm 4.3 | 3 |
| 236.25-258.75 (WSW) | 18.5 \pm 1.8 | 3 |
| 258.75-281.25 (W) | 20.6 \pm .9 | 2 |
| 281.25-303.75 (WNW) | 19.1 \pm 0.0 | 1 |
| 303.75-326.25 (NW) | 23.3 \pm 1.7 | 2 |
| 326.25-348.75 (NNW) | 20.8 \pm 3.4 | 2 |
| | | |

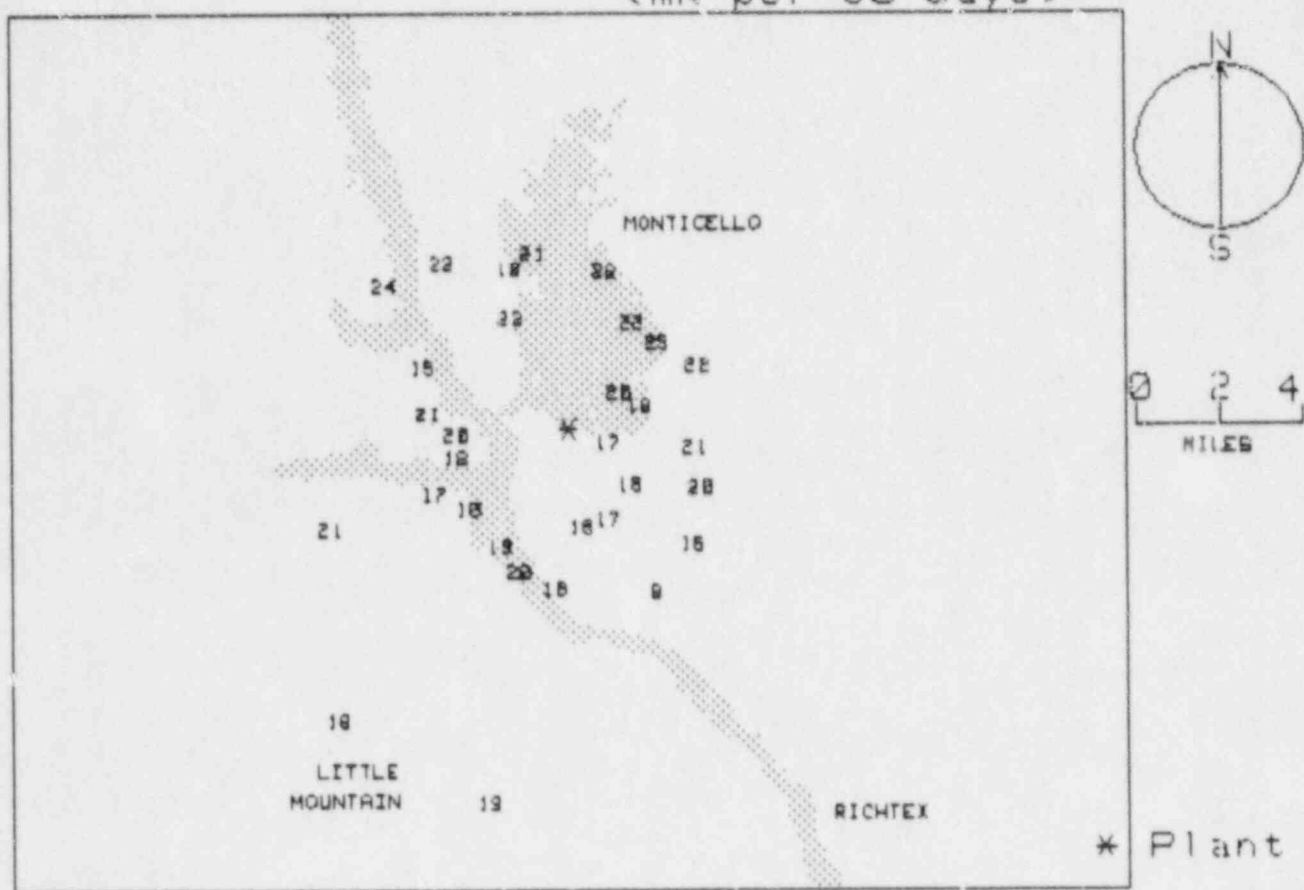
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 18.3 \pm 1.3 | 4 |
| 2-5 | 19.3 \pm 4.2 | 25 |
| >5 | 19.6 \pm 2.7 | 8 |
| UPWIND CONTROL DATA | 15.0 \pm .2 | 2 |

SUMMER

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|---------------------------------------|
| 1 | 3.7 | 199 | WICKER'S STORE |
| 2 | 1.0 | 111 | RT. 311 (0.3 MILES W. OF RT. 215) |
| 3 | 4.1 | 340 | RT. 257 & RT. 383 |
| 4 | 9.3 | 192 | RT. 215 (0.5 MILES N. OF RT. 113) |
| 5 | 1.8 | 72 | WHITE HALL SCHOOL |
| 6 | 1.5 | 54 | RT. 224 (0.5 MILES N. OF RT. 213/215) |
| 7 | 3.0 | 46 | RT. S.20.359 |
| 8 | 3.0 | 31 | RT. 213/215 (0.5 MILES N. OF RT. 359) |
| 9 | 3.9 | 13 | RT. 215 & RT. 11 |
| 10 | 4.0 | 7 | RT. 11 (0.7 MILES W. OF RT. 215) |
| 11 | 4.3 | 349 | RT. 11 (0.7 MILES E. OF RT. 257) |
| 12 | 5.8 | 323 | RT. 651 (2.2 MILES W. OF RT. 257) |
| 13 | 3.0 | 333 | RT. 257 (2.3 MILES S. OF RT. 283) |
| 14 | 2.8 | 255 | RT. 28 (CANNONS CREEK) |
| 15 | 5.6 | 308 | RT. 28 & RT. 97) |
| 16 | 3.5 | 64 | OLD BRICK CH. |
| 17 | 3.1 | 98 | RT. 247 |
| 18 | 3.5 | 114 | STELLA HILL RESIDENCE |
| 19 | 2.8 | 132 | RT. 213/215 |
| 20 | 4.5 | 152 | LOOKOUT TOWER RD. |
| 21 | 4.1 | 133 | ROCK HILL CH. |
| 22 | 2.4 | 157 | RT. 213 |
| 23 | 2.4 | 173 | RT. 216 |
| 24 | 3.9 | 185 | MOUNT HERMAN CH |
| 25 | 3.3 | 210 | RT. 28 (0.8 MILES N. OF RT. 213) |
| 26 | 3.3 | 217 | RT. 28 (1.2 MILES N. OF RT. 213) |
| 27 | 3.1 | 231 | RT. 28 (2.1 MILES N. OF RT. 213) |
| 28 | 2.7 | 267 | RT. 28 (1.6 MILES N OF RT. 33) |
| 29 | 3.4 | 276 | RT. 98 (0.5 MILES W. OF RT. 28) |
| 30 | 3.8 | 293 | PARR RESERVOIR |
| 31 | 3.6 | 244 | RT. 33 (0.8 MILES W. OF RT. 28) |
| 32 | 6.2 | 247 | POMARIA FIRE DEPT. |
| 33 | 9.0 | 218 | RT. 282 & RT. 76 |
| 34 | 9.3 | 192 | RT. 76 & CLARK ST. |
| 35 | 14.0 | 184 | RT. 270 & PUTNAM RD. |
| 36 | 15.0 | 183 | RT. 270 (0.5 MILES S. OF PUTNAM RD.) |
| 37 | 15.0 | 182 | RT. 270 & RT. 1254 |
| 38 | 21.0 | 148 | MAJIK MARKET |
| 39 | 25.0 | 14 | S.C. DEPT. OF HEALTH |
| 40 | 23.0 | 135 | RT. 321 & BUCKNER ST. |

NRC TLD DOSES FOR SUMMER AREA
(mR per 90 days)



SURRY
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870917-880127 133 DAYS
 FIELD TIME 85 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE(mR) | | NET EXPOSURE RATE | |
|----------------|-------------------|---------------|------------------------------|------|-----------------------|------|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | Tot. | mR/Std. Qtr. + Rdm | Tot. |
| 001 | 11 | 19 | 19.0 | +.6 | 17.0 | +.7 |
| 002 | 129 | 17. | 21.0 | +.6 | 18.5 | +.6 |
| 003 | 162 | 17. | 20.0 | +.6 | 17.1 | +.6 |
| 004 | 162 | 17. | 17.2 | +.5 | 14.2 | +.5 |
| 005 | 156 | 5.1 | 20.0 | +.6 | 18.0 | +.6 |
| 006 | 189 | 4.1 | 18.0 | +.6 | 15.0 | +.6 |
| 007 | 202 | 2.2 | 18.6 | +.6 | 15.7 | +.6 |
| 008 | 183 | 1.6 | 20.5 | +.6 | 17.6 | +.6 |
| 009 | 243 | 0.2 | 20.2 | +.7 | 20.6 | +.6 |
| 010 | 269 | 0.1 | 25.2 | +.8 | 22.7 | +.9 |
| 011 | 384 | 0.1 | MISSING OR DAMAGED DOSIMETER | | | |
| 012 | 334 | 0.2 | MISSING OR DAMAGED DOSIMETER | | | |
| 013 | 10 | 1.2 | 20.0 | +.6 | 18.0 | +.7 |
| 014 | 21 | 2.0 | 21.3 | +.6 | 18.5 | +.6 |
| 015 | 203 | 4.5 | 19.2 | +.6 | 16.3 | +.7 |
| 016 | 224 | 3.7 | 16.5 | +.5 | 13.5 | +.6 |
| 017 | 212 | 2.0 | 21.0 | +.6 | 18.2 | +.7 |
| 018 | 248 | 5.1 | 17.4 | +.6 | 14.4 | +.6 |
| 019 | 259 | 0.1 | 19.9 | +.6 | 16.0 | +.7 |
| 020 | 285 | 5.0 | 15.9 | +.5 | 12.0 | +.6 |
| 021 | 270 | 4.1 | 21.9 | +.7 | 19.0 | +.8 |
| 022 | 123 | 13. | 27.3 | +.9 | 24.4 | +.9 |
| 023 | 102 | 11. | 24.5 | +.7 | 20.3 | +.8 |
| 024 | 106 | 4.9 | 20.1 | +.6 | 17.0 | +.7 |
| 025 | 90 | 3.2 | 20.0 | +.6 | 17.0 | +.7 |
| 026 | 69 | 1.1 | 24.0 | +.7 | 21.0 | +.8 |
| 027 | 23 | 0.3 | 19.9 | +.6 | 17.0 | +.7 |
| 028 | 49 | 0.0 | 20.9 | +.6 | 18.1 | +.7 |
| 029 | 7.0 | 0.0 | 20.7 | +.6 | 17.9 | +.7 |
| 030 | 359 | 0.5 | 18.7 | +.6 | 15.7 | +.6 |
| 031 | 1.0 | 4.6 | 19.1 | +.6 | 16.0 | +.7 |
| 032 | 332 | 0.0 | 20.0 | +.6 | 18.0 | +.7 |
| 033 | 314 | 4.4 | 19.0 | +.6 | 16.0 | +.7 |
| 034 | 300 | 4.4 | 17.0 | +.6 | 14.0 | +.6 |
| 035 | 340 | 0.0 | 17.0 | +.6 | 15.0 | +.6 |
| 036 | 34 | 15 | 18.7 | +.6 | 15.0 | +.6 |
| 037 | 340 | 15 | 17.0 | +.6 | 14.0 | +.6 |
| 038 | 339 | 16 | 16.0 | +.6 | 12.0 | +.6 |
| 039 | 150 | 1.9 | 19.0 | +.6 | 14.0 | +.6 |
| 040 | 144 | 1.1 | 19.0 | +.6 | 16.1 | +.7 |
| TRANSIT DOSE = | | | 3.0 | +.3 | 4.8 | +.6 |

SURRY
FOR THE PERIOD 870917-880127

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 17.0 \pm 1.0 | 5 |
| 11.25-33.75 (NNE) | 17.8 \pm 1.1 | 2 |
| 33.75-56.25 (NE) | 18.1 \pm 0.0 | 1 |
| 56.25-78.75 (ENE) | 21.7 \pm 0.0 | 1 |
| 78.75-101.25 (E) | 17.2 \pm 0.0 | 1 |
| 101.25-123.75 (ESE) | 21.4 \pm 3.0 | 3 |
| 123.75-146.25 (SE) | 17.3 \pm 1.7 | 2 |
| 146.25-168.75 (SSE) | 16.4 \pm 1.6 | 4 |
| 168.75-191.25 (S) | 16.7 \pm 1.3 | 2 |
| 191.25-213.75 (SSW) | 16.7 \pm 1.3 | 3 |
| 213.75-236.25 (SW) | 13.5 \pm 0.0 | 1 |
| 236.25-258.75 (WSW) | 17.5 \pm 4.4 | 2 |
| 258.75-281.25 (W) | 19.3 \pm 3.3 | 3 |
| 281.25-303.75 (WNW) | 12.8 \pm 0.0 | 1 |
| 303.75-326.25 (NW) | 15.8 \pm 1.3 | 2 |
| 326.25-348.75 (NNW) | 16.0 \pm 2.9 | 2 |
| | | |

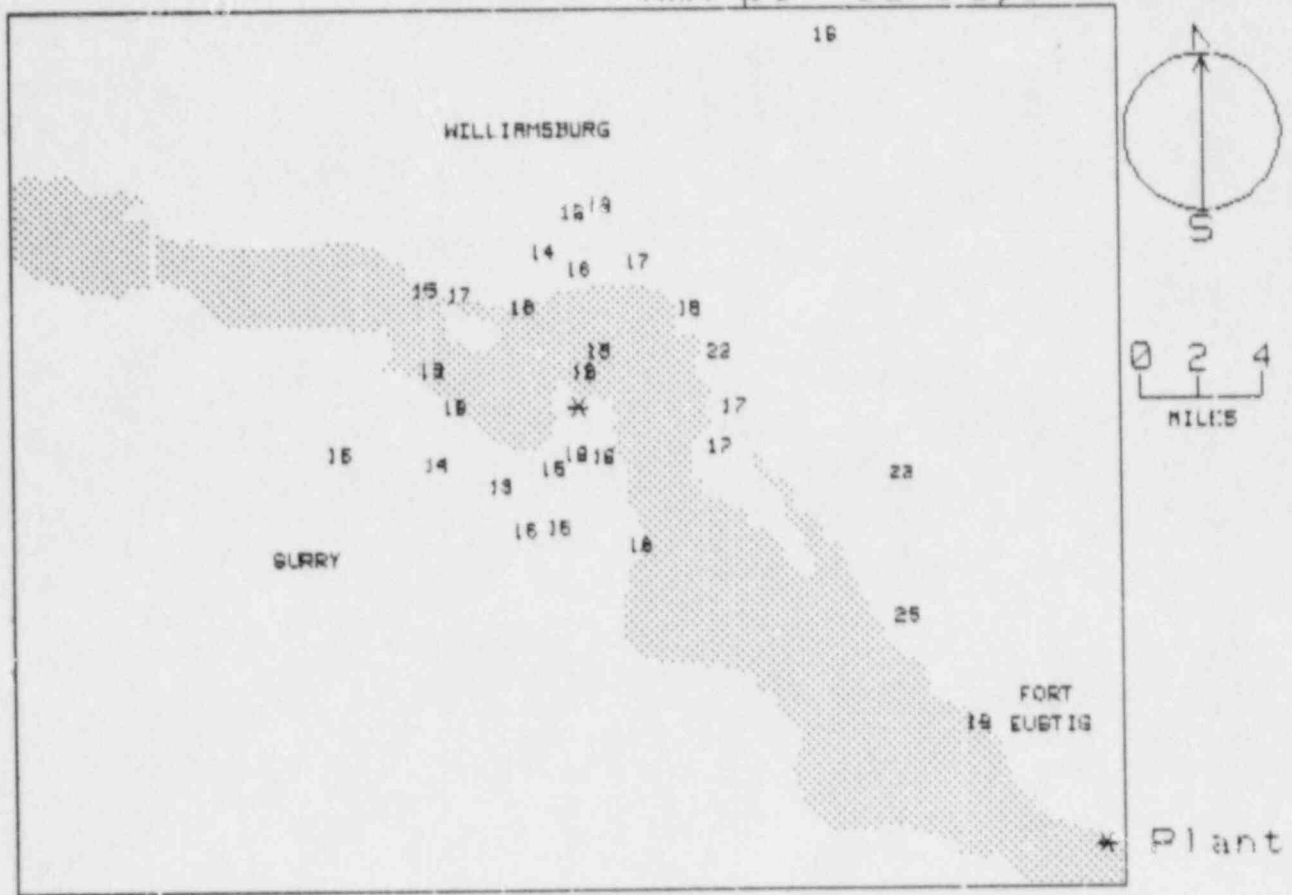
| DISTANCE (mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|--------------------------------|---|------------|
| 0-2 | 18.9 \pm 2.1 | 7 |
| 2-5 | 16.3 \pm 1.9 | 11 |
| >5 | 17.5 \pm 3.0 | 17 |
| UPWIND CONTROL DATA | 14.5 \pm 1.5 | 3 |

SURRY

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|--|
| 1 | 19.0 | 11 | HAMPTON COLISEUM |
| 2 | 17.0 | 129 | NEWPORT NEWS |
| 3 | 17.0 | 162 | W. SIDE JAMES R. (RT. 258) |
| 4 | 17.0 | 162 | SMITHFIELD SQ. SHOPPING CTR. |
| 5 | 5.1 | 156 | RUSHMERE SHORES |
| 6 | 4.1 | 189 | RT. 628 & RT. 617 |
| 7 | 2.2 | 202 | CHIPPOAKS PLANTATION |
| 8 | 1.6 | 183 | RT. 650 & PUBLIC BOAT LANDING |
| 9 | .2 | 243 | 0.2 MILES S. SURRY MAIN GATE |
| 10 | .1 | 269 | 0.1 MILES S. SURRY MAIN GATE |
| 11 | .1 | 304 | SURRY MAIN GATE |
| 12 | .2 | 334 | 0.1 MILES N. SURRY MAIN GATE |
| 13 | 1.2 | 10 | RT. 650 (1 MILE N. OF SURRY MAIN GATE) |
| 14 | 2.0 | 21 | HOMWOOD & VA AIR SAMPLER |
| 15 | 4.5 | 203 | BARONS CASTLE CH. |
| 16 | 3.7 | 224 | RT. 634 & RT. 633 |
| 17 | 2.0 | 212 | CHIPPOAKS PLANTATION (WEST) |
| 18 | 5.1 | 248 | ALLIANCE INTERSECTION |
| 19 | 8.1 | 259 | SURRY COUNTY CIVIL DEFENSE |
| 20 | 5.0 | 285 | SCOTLAND FERRY DOCK |
| 21 | 4.1 | 270 | RT. 636 & RT. 637 |
| 22 | 13.0 | 123 | HIDEN BLVD. & MADISON W. |
| 23 | 11.0 | 102 | PATRICK HENRY AIRPORT |
| 24 | 4.9 | 106 | WAGNER BLDG. |
| 25 | 5.2 | 90 | FORT EUSTICE |
| 26 | 5.1 | 69 | BADISCHE CORP. |
| 27 | 5.3 | 23 | BUSCHE GARDENS |
| 28 | 5.0 | 49 | RT. 667 (0.4 MILES OFF RT. 1) |
| 29 | 6.8 | 7 | RT. 637 (TRAILER PARK) |
| 30 | 6.5 | 359 | WILLIAMSBURG SEWAGE PLANT |
| 31 | 4.6 | 1 | COLONIAL NAT. HISTORIC PKWY. |
| 32 | 3.8 | 332 | NATIONAL MEMORIAL PARK SIGN |
| 33 | 5.4 | 314 | NATIONAL PARK MAINTENANCE AREA |
| 34 | 6.4 | 308 | JAMESTOWN FESTIVAL PARK |
| 35 | 5.3 | 348 | WILLIAMSBURG JAMESTOWN AIRPORT |
| 36 | 15.0 | 34 | RT. 60 & RT. 607 |
| 37 | 15.0 | 340 | RT. 60 & BUSH SPRING RD. |
| 38 | 16.0 | 339 | RT. 60 & CHICK HOMING ST. |
| 39 | 1.9 | 153 | PUBLIC BOAT LANDING RD. |
| 40 | 2.1 | 144 | PUBLIC BOAT LANDING |

NRC TLD DOSES FOR SURRY AREA (mR per 90 days)



SUSQUEHANNA
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870915-880126 134 DAYS
 FIELD TIME 85 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|----------------|-------------------|---------------|---------------------|-----------|-------------------|-----------|
| | AZIMUTH (deg.) | DIST (mi.) | +/- | Rdm; Tot. | mR/Std. Qtr. | Rdm; Tot. |
| 001 | 19 | 1.4 | 24 | 0.6 | 17 | 0.5 |
| 002 | 0 | 1.4 | 24 | 0.6 | 16 | 0.5 |
| 003 | 33 | 1.1 | 24 | 0.6 | 16 | 0.5 |
| 004 | 31 | 1.7 | 44 | 0.6 | 16 | 0.5 |
| 005 | 28 | 1.7 | 44 | 0.6 | 16 | 0.5 |
| 006 | 37 | 1.3 | 44 | 0.6 | 16 | 0.5 |
| 007 | 39 | 1.0 | 44 | 0.6 | 16 | 0.5 |
| 008 | 17 | 2.0 | 44 | 0.6 | 14 | 0.5 |
| 009 | 50 | 1.4 | 44 | 0.6 | 16 | 0.5 |
| 010 | 55 | 1.4 | 44 | 0.6 | 16 | 0.5 |
| 011 | 43 | 1.1 | 44 | 0.6 | 16 | 0.5 |
| 012 | 42 | 4.4 | 44 | 0.6 | 16 | 0.5 |
| 013 | 42 | 4.4 | 44 | 0.6 | 16 | 0.5 |
| 014 | 66 | 4.4 | 44 | 0.6 | 16 | 0.5 |
| 015 | 66 | 4.4 | 44 | 0.6 | 16 | 0.5 |
| 016 | 33 | 4.4 | 44 | 0.6 | 16 | 0.5 |
| 017 | 11 | 4.4 | 44 | 0.6 | 16 | 0.5 |
| 018 | 33 | 4.4 | 44 | 0.6 | 16 | 0.5 |
| 019 | 44 | 4.4 | 44 | 0.6 | 16 | 0.5 |
| 020 | 55 | 4.4 | 44 | 0.6 | 16 | 0.5 |
| 021 | 44 | 4.4 | 44 | 0.6 | 16 | 0.5 |
| 022 | 47 | 4.4 | 44 | 0.6 | 16 | 0.5 |
| 023 | 55 | 1.1 | 44 | 0.6 | 16 | 0.5 |
| 024 | 7 | 1.1 | 44 | 0.6 | 16 | 0.5 |
| 025 | 18 | 1.1 | 44 | 0.6 | 16 | 0.5 |
| 026 | 13 | 1.1 | 44 | 0.6 | 16 | 0.5 |
| 027 | 15 | 1.1 | 44 | 0.6 | 16 | 0.5 |
| 028 | 18 | 1.1 | 44 | 0.6 | 16 | 0.5 |
| 029 | 18 | 1.1 | 44 | 0.6 | 16 | 0.5 |
| 030 | 14 | 1.1 | 44 | 0.6 | 16 | 0.5 |
| 031 | 16 | 1.1 | 44 | 0.6 | 16 | 0.5 |
| 032 | 7 | 1.1 | 44 | 0.6 | 16 | 0.5 |
| 033 | 19 | 1.1 | 44 | 0.6 | 16 | 0.5 |
| 034 | 22 | 1.1 | 44 | 0.6 | 16 | 0.5 |
| 035 | 13 | 1.1 | 44 | 0.6 | 16 | 0.5 |
| 036 | 14 | 1.1 | 44 | 0.6 | 16 | 0.5 |
| 037 | 15 | 1.1 | 44 | 0.6 | 16 | 0.5 |
| TRANSIT DOSE | 8.0 | 1.5 | 44 | 0.6 | 16 | 0.5 |

NO SIGNIFICANT OR DAMAGE DOSE

SUSQUEHANNA
FOR THE PERIOD 870915-880126

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 17.4 \pm 1.6 | 2 |
| 11.25-33.75 (NNE) | 16.8 \pm 1.1 | 2 |
| 33.75-56.25 (NE) | 18.3 \pm 2.6 | 2 |
| 56.25-78.75 (ENE) | 16.3 \pm 3.0 | 2 |
| 78.75-101.25 (E) | 16.5 \pm 0.0 | 1 |
| 101.25-123.75 (ESE) | 19.2 \pm .8 | 3 |
| 123.75-146.25 (SE) | 18.6 \pm .7 | 2 |
| 146.25-168.75 (SSE) | 19.5 \pm 2.7 | 2 |
| 168.75-191.25 (S) | 16.7 \pm 4.9 | 2 |
| 191.25-213.75 (SSW) | 18.5 \pm 2.3 | 2 |
| 213.75-236.25 (SW) | 20.4 \pm .4 | 2 |
| 236.25-258.75 (WSW) | 18.4 \pm 1.7 | 3 |
| 258.75-281.25 (W) | 17.5 \pm .9 | 2 |
| 281.25-303.75 (WNW) | 17.6 \pm .6 | 2 |
| 303.75-326.25 (NW) | 17.0 \pm .2 | 2 |
| 326.25-348.75 (NNW) | 17.2 \pm 1.6 | 2 |
| | | |

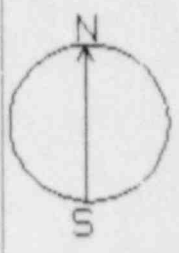
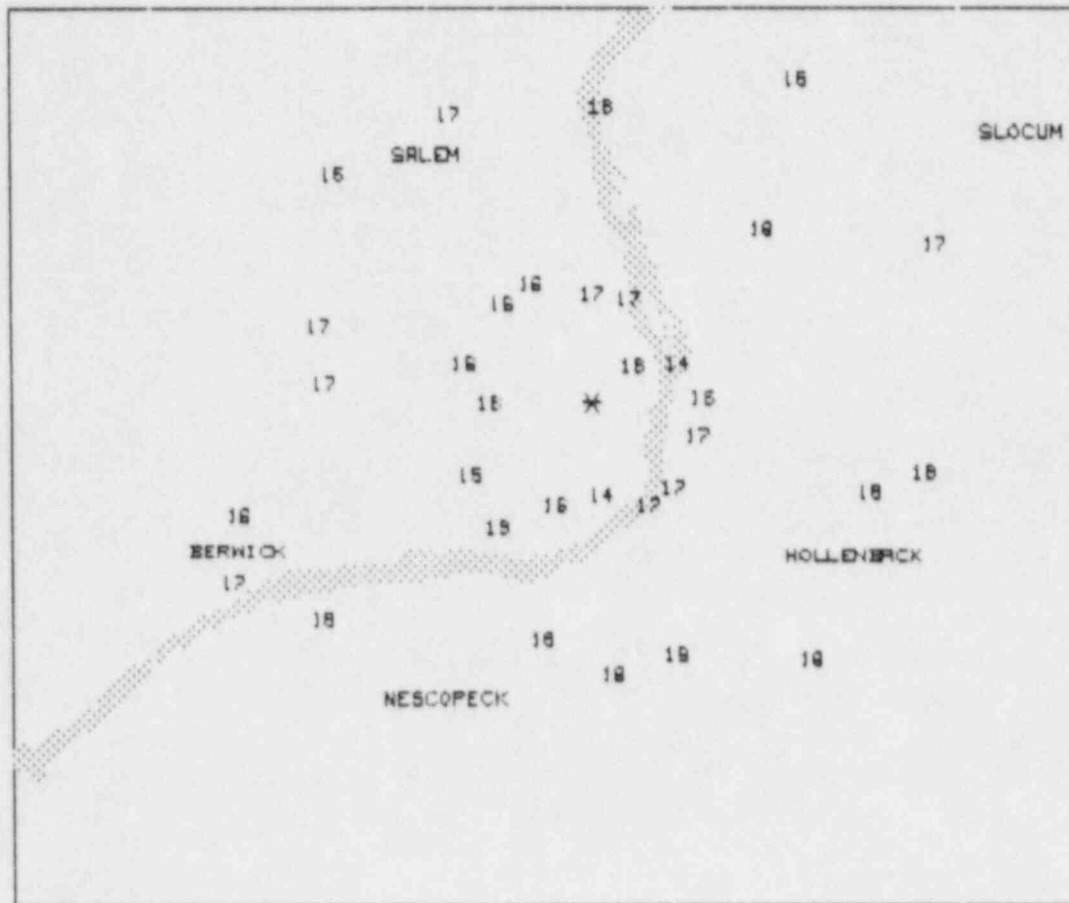
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 16.8 \pm 1.6 | 16 |
| 2-5 | 18.7 \pm 1.6 | 16 |
| >5 | 17.8 \pm 0.0 | 1 |
| UPWIND CONTROL DATA | 19.3 \pm 1.6 | 3 |

SUSQUEHANNA

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|------------------------------|
| 1 | 1.4 | 19 | LUZERNE APPAREL CO. |
| 2 | 1.4 | 0 | MINGLE INN ROAD |
| 3 | 1.7 | 333 | HIGH TENSION LINES |
| 4 | 1.7 | 318 | MINGLE INN ROAD TRAILER PARK |
| 5 | 1.7 | 287 | WALKER RUN CREEK |
| 6 | 1.3 | 270 | WALKER RUN CREEK |
| 7 | 1.8 | 239 | INTERSECTION WSW OF PLANT |
| 8 | 2.0 | 217 | SALEM TOWNSHIP FIRE CO. |
| 9 | 1.4 | 200 | GENERAL TANK & EQ.CO. |
| 10 | 1.2 | 175 | HIGH TENSION LINES |
| 11 | 5.1 | 243 | BERWICK SUBSTATION |
| 12 | 4.7 | 252 | BERWICK HOSPITAL |
| 13 | 3.4 | 274 | JUNKYARD |
| 14 | 3.6 | 286 | 0.7 MI. N. OF JUNKYARD |
| 15 | 3.8 | 2 | WEST END COAL CO. |
| 16 | 4.1 | 334 | NEAR RED BARN |
| 17 | 4.4 | 312 | SHICKSHINNEY VALLEY CHURCH |
| 18 | 4.9 | 32 | THE HIDEOUT |
| 19 | 9.9 | 45 | SHERTOWN |
| 20 | 4.8 | 65 | SW OF SLOCUM |
| 21 | 3.1 | 44 | POND HILL FIRE HOUSE |
| 22 | .7 | 47 | INFORMATION CENTER |
| 23 | 1.2 | 65 | STONE CRUSHER TRAIL |
| 24 | 1.4 | 87 | S. OF STONE CRUSHER TR. |
| 25 | 1.4 | 108 | N. OF WAPWALLOPEN |
| 26 | 1.5 | 137 | HELLERS ORCHARD |
| 27 | 1.5 | 152 | POST OFFICE |
| 28 | 3.7 | 108 | ST. PETER'S REFORMED CHURCH |
| 29 | 4.3 | 102 | GOOD SCHOOL HOUSE |
| 30 | 4.3 | 140 | SMALL STONE BRIDGE |
| 31 | 3.4 | 162 | BRIGGSVILLE COMMUNITY CENTER |
| 32 | 3.5 | 176 | NEAR CIVIL SIREN POLE |
| 33 | 3.1 | 192 | MT. ZION CHURCH |
| 34 | 4.4 | 231 | MAPLE ST. |
| 35 | 12.0 | 134 | HAZELTON |
| 36 | 13.0 | 114 | FREELAND |
| 37 | 15.0 | 150 | MC ADOO |

NRC TLD DOSES FOR SUSQUEHANNA AREA
(mR per 90 days)



* Plant

THREE MILE ISLAND
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 876915-880126 134 DAYS
 FIELD TIME 86 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|----------------|-------------------|---------------|---------------------|------|--------------------|-------------|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | Tot. | mR/Std. Qtr. | + Rdm; Tot. |
| 801 | 95 | 5.9 | 22.3 | +.7 | 13.4 | +.9 |
| 802 | 181 | 3.9 | 22.8 | +.7 | 13.9 | +.9 |
| 803 | 189 | 2.7 | MISSING OR DAMAGED | | MISSING OR DAMAGED | |
| 804 | 163 | 1.8 | 22.4 | +.7 | 13.4 | +.9 |
| 805 | 161 | 2.0 | 21.1 | +.9 | 13.0 | +.9 |
| 806 | 150 | 1.1 | 21.1 | +.9 | 13.0 | +.9 |
| 807 | 130 | 6.6 | 20.7 | +.9 | 12.8 | +.9 |
| 808 | 83 | 4.6 | 21.4 | +.9 | 13.1 | +.9 |
| 809 | 8 | 5.4 | 19.1 | +.9 | 12.6 | +.9 |
| 810 | 1 | 7.9 | 19.0 | +.9 | 12.6 | +.9 |
| 811 | 42 | 8.8 | 19.1 | +.9 | 12.6 | +.9 |
| 812 | 114 | 6.8 | 19.1 | +.9 | 12.6 | +.9 |
| 813 | 130 | 6.6 | 19.1 | +.9 | 12.6 | +.9 |
| 814 | 144 | 6.6 | 19.1 | +.9 | 12.6 | +.9 |
| 815 | 150 | 6.6 | 19.1 | +.9 | 12.6 | +.9 |
| 816 | 163 | 6.6 | 19.1 | +.9 | 12.6 | +.9 |
| 818 | 181 | 6.6 | 19.1 | +.9 | 12.6 | +.9 |
| 819 | 181 | 4.4 | 19.1 | +.9 | 12.6 | +.9 |
| 820 | 181 | 4.4 | 19.1 | +.9 | 12.6 | +.9 |
| 821 | 181 | 4.4 | 19.1 | +.9 | 12.6 | +.9 |
| 822 | 181 | 4.4 | 19.1 | +.9 | 12.6 | +.9 |
| 823 | 181 | 4.4 | 19.1 | +.9 | 12.6 | +.9 |
| 824 | 181 | 4.4 | 19.1 | +.9 | 12.6 | +.9 |
| 825 | 181 | 4.4 | 19.1 | +.9 | 12.6 | +.9 |
| 827 | 181 | 4.4 | MISSING OR DAMAGED | | MISSING OR DAMAGED | |
| 829 | 181 | 4.4 | MISSING OR DAMAGED | | MISSING OR DAMAGED | |
| 830 | 181 | 4.4 | MISSING OR DAMAGED | | MISSING OR DAMAGED | |
| 831 | 181 | 4.4 | MISSING OR DAMAGED | | MISSING OR DAMAGED | |
| 832 | 181 | 4.4 | MISSING OR DAMAGED | | MISSING OR DAMAGED | |
| 833 | 181 | 4.4 | MISSING OR DAMAGED | | MISSING OR DAMAGED | |
| 834 | 181 | 4.4 | MISSING OR DAMAGED | | MISSING OR DAMAGED | |
| 835 | 181 | 4.4 | MISSING OR DAMAGED | | MISSING OR DAMAGED | |
| 836 | 181 | 4.4 | MISSING OR DAMAGED | | MISSING OR DAMAGED | |
| 837 | 181 | 4.4 | MISSING OR DAMAGED | | MISSING OR DAMAGED | |
| 838 | 181 | 4.4 | MISSING OR DAMAGED | | MISSING OR DAMAGED | |
| 839 | 181 | 4.4 | MISSING OR DAMAGED | | MISSING OR DAMAGED | |
| 840 | 181 | 4.4 | MISSING OR DAMAGED | | MISSING OR DAMAGED | |
| 841 | 181 | 4.4 | MISSING OR DAMAGED | | MISSING OR DAMAGED | |
| 842 | 181 | 4.4 | MISSING OR DAMAGED | | MISSING OR DAMAGED | |
| 843 | 181 | 4.4 | MISSING OR DAMAGED | | MISSING OR DAMAGED | |
| 844 | 181 | 4.4 | MISSING OR DAMAGED | | MISSING OR DAMAGED | |
| 845 | 181 | 4.4 | MISSING OR DAMAGED | | MISSING OR DAMAGED | |
| 846 | 181 | 4.4 | MISSING OR DAMAGED | | MISSING OR DAMAGED | |
| 847 | 181 | 4.4 | MISSING OR DAMAGED | | MISSING OR DAMAGED | |
| 848 | 181 | 4.4 | MISSING OR DAMAGED | | MISSING OR DAMAGED | |
| 849 | 181 | 4.4 | MISSING OR DAMAGED | | MISSING OR DAMAGED | |
| 850 | 181 | 4.4 | MISSING OR DAMAGED | | MISSING OR DAMAGED | |
| TRANSIT DOSE | 9.5 | +.5 | 14.1 | +.9 | 8.0 | +.9 |

THREE MILE ISLAND
FOR THE PERIOD 870915-880126

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 13.1 \pm 3.5 | 5 |
| 11.25-33.75 (NNE) | 12.1 \pm .3 | 3 |
| 33.75-56.25 (NE) | 12.1 \pm .3 | 2 |
| 56.25-78.75 (ENE) | 10.9 \pm 1.8 | 2 |
| 78.75-101.25 (E) | 14.3 \pm 1.2 | 3 |
| 101.25-123.75 (ESE) | NO DATA+-NO DATA | 0 |
| 123.75-146.25 (SE) | 13.7 \pm 1.8 | 3 |
| 146.25-168.75 (SSE) | 13.1 \pm .3 | 3 |
| 168.75-191.25 (S) | 13.7 \pm 3.4 | 4 |
| 191.25-213.75 (SSW) | 11.7 \pm 3.9 | 2 |
| 213.75-236.25 (SW) | 13.5 \pm 0.0 | 1 |
| 236.25-258.75 (WSW) | NO DATA+-NO DATA | 0 |
| 258.75-281.25 (W) | 12.7 \pm 1.5 | 4 |
| 281.25-303.75 (WNW) | 11.4 \pm 2.6 | 2 |
| 303.75-326.25 (NW) | 11.8 \pm 2.4 | 2 |
| 326.25-348.75 (NNW) | 10.6 \pm 4.2 | 2 |
| | | |

| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 12.1 \pm 2.3 | 9 |
| 2-5 | 12.4 \pm 1.8 | 17 |
| >5 | 13.4 \pm 2.6 | 12 |
| UPWIND CONTROL DATA | 11.8 \pm 2.7 | 3 |

THREE MILE ISLAND

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|--------------------------------------|
| 1 | 5.9 | 95 | ROUTE 241 AND TURNPIKE ROAD |
| 2 | 3.9 | 101 | TURNPIKE ROAD AND BOSSLER FORD |
| 3 | 2.7 | 109 | FALMOUTH AND HILLSDALE ROAD |
| 4 | 1.8 | 163 | MC CANN RESIDENCE |
| 5 | 2.2 | 161 | COLLINS SUBSTATION |
| 6 | 1.0 | 150 | RED HILL FARM STAND |
| 7 | .6 | 136 | 500 KE' SUBSTATION |
| 8 | .4 | 83 | ROUTE 441 AND MEADOW LANE |
| 9 | .5 | 60 | ROUTE 441 AND LAUREL ROAD |
| 10 | 1.7 | 1 | 1.5 MILE NORTH OF STATION 9 |
| 11 | .9 | 25 | BUCKLOCK MARKET |
| 12 | 2.8 | 46 | GINGRICH ROAD |
| 13 | 5.2 | 19 | HILLSDALE DRIVE |
| 14 | 2.5 | 358 | GRUBB STREET |
| 15 | 9.0 | 133 | CARGILL TANKS |
| 16 | 3.1 | 0 | RACE AND CONEWAGO STREETS |
| 18 | 3.5 | 349 | GRANDVIEW ELEMENTARY |
| 19 | 3.2 | 343 | PENN STATE CAMPUS |
| 20 | 5.8 | 318 | HIGHSPIRE |
| 21 | 1.3 | 348 | MANSBERGER ELEMENTARY |
| 22 | 3.1 | 17 | STARLITE MOTEL |
| 23 | 3.8 | 64 | ROUTE 230 AND DEODATE ROAD |
| 24 | 3.6 | 44 | LONDONBERRY ELEMENTARY |
| 25 | .5 | 335 | KOHR ISLAND |
| 27 | 7.4 | 6 | VINE STREET AND ROUTE 322 |
| 29 | .4 | 293 | SHELLY ISLAND |
| 30 | 1.2 | 317 | HILL ISLAND |
| 31 | 9.6 | 306 | MEADOWBROOK ROAD |
| 32 | 7.4 | 297 | OLD YORK ROAD AT THE TURNPIKE |
| 33 | 5.9 | 301 | MARSH RUN ROAD |
| 34 | 2.3 | 267 | ROUTE 262/YOCUMTOWN ROAD |
| 35 | 1.8 | 299 | STILL HOUSE ROAD |
| 36 | 1.2 | 267 | GOLDSBORO BOAT RAMP |
| 37 | 1.4 | 256 | GOLDSBORO CEMENT BRIDGE |
| 38 | 1.9 | 225 | ROUTE 262 AND RIVER ROAD |
| 39 | 2.1 | 200 | ROUTE 262E BY THE R.R. TRACKS |
| 40 | 2.5 | 204 | ROUTE 295 AND 382 |
| 41 | 13.0 | 185 | YORK SUBSTATION |
| 42 | 7.3 | 259 | ROUTE 382W AND ROUTE 177 |
| 43 | 5.8 | 268 | ROUTE 392E(.4MI FROM ROUTE 177) |
| 44 | 4.7 | 263 | ROXBERRY AND LEWISBERRY SCHOOL |
| 45 | .5 | 230 | BEECH ISLAND NORTH |
| 46 | 3.8 | 177 | LANDVALE ST. & PA. AVE. |
| 47 | 5.7 | 177 | GEORGE STREET AND MEETING HOUSE ROAD |
| 48 | 9.0 | 182 | ROUTE 181S AND ROUTE 238W |
| 49 | .9 | 206 | BEECH ISLAND SOUTH |
| 50 | 4.9 | 145 | BAINBRIDGE ELEMENTARY |

TROJAN
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870914-880128 137 DAYS
 FIELD TIME 164 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | | |
|----------------|-------------------|---------------|------------------------------|-------|-------------------|-------------|-----|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | Tot. | mR/Std. Qtr. | + Rdm; Tot. | |
| 001 | 340 | 0.6 | 17.5 | +- .5 | 11.1 | +- .6 | |
| 002 | 334 | 1.1 | 21.0 | +- .6 | 14.2 | +- .6 | |
| 003 | 340 | 1.7 | 17.2 | +- .5 | 10.9 | +- .6 | |
| 004 | 328 | 3.1 | MISSING OR DAMAGED DOSIMETER | | | | 5.5 |
| 005 | 308 | 4.4 | 19.6 | +- .6 | 13.0 | +- .7 | |
| 006 | 312 | 4.4 | 23.1 | +- .7 | 16.0 | +- .7 | |
| 007 | 297 | 4.4 | 21.5 | +- .7 | 14.6 | +- .7 | |
| 008 | 277 | 4.4 | 23.1 | +- .7 | 16.4 | +- .7 | |
| 009 | 274 | 3.1 | 23.0 | +- .7 | 16.1 | +- .7 | |
| 010 | 263 | 2.7 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 011 | 255 | 2.2 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 012 | 233 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 013 | 196 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 014 | 180 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 015 | 160 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 016 | 112 | 1.1 | MISSING OR DAMAGED DOSIMETER | | | | 5.5 |
| 017 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 018 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 019 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 020 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 021 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 022 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 023 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 024 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 025 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 026 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 027 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 028 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 029 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 030 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 031 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 032 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 033 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 034 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 035 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 036 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 037 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 038 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 039 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 040 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 041 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 042 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 043 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 044 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 045 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 046 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 047 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 048 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 049 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 050 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 051 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 052 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 053 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 054 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 055 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 056 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 057 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 058 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 059 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 060 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 061 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 062 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 063 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 064 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 065 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 066 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 067 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 068 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 069 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 070 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 071 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 072 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 073 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 074 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 075 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 076 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 077 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 078 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 079 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 080 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 081 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 082 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 083 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 084 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 085 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 086 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 087 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 088 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 089 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 090 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 091 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 092 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 093 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 094 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 095 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 096 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 097 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 098 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 099 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| 100 | 60 | 1.1 | 21.0 | +- .7 | 14.0 | +- .7 | |
| TRANSIT DOSE = | 4.7 | +- | 4 | 0 | | | |

A- 255

TROJAN
FOR THE PERIOD 870914-880128

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 12.2 \pm .3 | 2 |
| 11.25-33.75 (NNE) | 12.0 \pm .7 | 2 |
| 33.75-56.25 (NE) | 13.0 \pm 1.1 | 2 |
| 56.25-78.75 (ENE) | 13.7 \pm .0 | 2 |
| 78.75-101.25 (E) | 13.2 \pm 2.6 | 2 |
| 101.25-123.75 (ESE) | 12.3 \pm .3 | 2 |
| 123.75-146.25 (SE) | 13.3 \pm 2.5 | 2 |
| 146.25-168.75 (SSE) | 13.4 \pm 1.7 | 2 |
| 168.75-191.25 (S) | 15.3 \pm .6 | 2 |
| 191.25-213.75 (SSW) | 15.0 \pm 0.0 | 1 |
| 213.75-236.25 (SW) | 15.7 \pm .6 | 2 |
| 236.25-258.75 (WSW) | 15.4 \pm 0.0 | 1 |
| 258.75-281.25 (W) | 14.8 \pm 1.0 | 4 |
| 281.25-303.75 (WNW) | NO DATA--NO DATA | 0 |
| 303.75-326.25 (NW) | 14.5 \pm 2.2 | 2 |
| 326.25-348.75 (NNW) | 11.8 \pm 1.5 | 5 |
| | | |

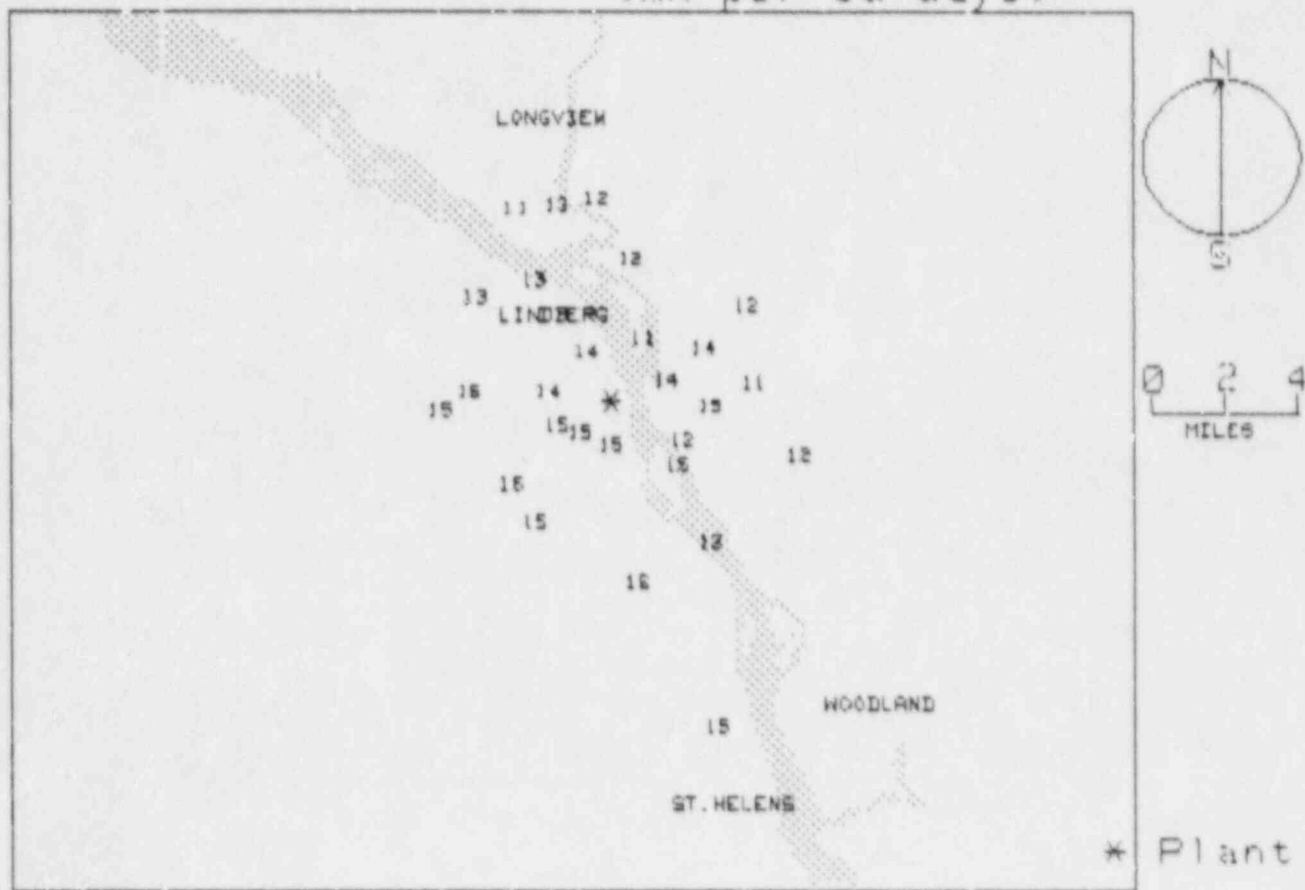
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 13.6 \pm 1.7 | 12 |
| 2-5 | 13.8 \pm 1.7 | 16 |
| >5 | 12.6 \pm 1.4 | 5 |
| UPWIND CONTROL DATA | 15.5 \pm .5 | 3 |

TROJAN

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|--------------------------------|
| 1 | .6 | 340 | SCHOOL ST. (END) |
| 2 | 1.5 | 334 | THOMPSON RESIDENCE |
| 3 | 1.7 | 340 | JACK FALLS RD. |
| 4 | 3.9 | 328 | HWY. 30 NEAR RAINIER |
| 5 | 4.6 | 308 | FERNHILL RD. |
| 6 | 4.5 | 312 | FERNCREST DRIVE |
| 7 | 4.6 | 267 | ZIMMER RD. |
| 8 | 3.8 | 274 | HUTCHISON RD. |
| 9 | 1.7 | 279 | NEER CITY RD. |
| 10 | 2.8 | 263 | BROWNLEE RD. |
| 11 | 1.6 | 245 | LIRES RESIDENCE |
| 12 | 1.2 | 223 | NEER CITY RD. & P-45 |
| 13 | 1.1 | 196 | CEMETERY RD. |
| 14 | 1.2 | 180 | NEER'S RESIDENCE |
| 15 | 1.7 | 165 | NICOLAI RD. |
| 16 | 3.9 | 212 | FAIRVIEW RD. |
| 17 | 3.5 | 230 | WALKER RD. |
| 18 | 9.3 | 162 | REICHOLD CHEMICALS |
| 19 | 5.8 | 172 | TIDE CR. RD. |
| 20 | 5.8 | 334 | LONGVIEW (WASHINGTON) |
| 21 | 5.5 | 345 | TENNANT RD. |
| 22 | 5.5 | 356 | TALLEY RD. |
| 23 | 3.9 | 8 | SIGNS FOR THE LORD |
| 24 | 3.7 | 15 | ROSE VALLEY RD. |
| 25 | 1.9 | 27 | CARROLLS BLUFF |
| 26 | 2.1 | 37 | MT. PLEASANT RD. |
| 27 | 2.9 | 60 | MT. PLEASANT CEMETERY |
| 28 | 4.5 | 55 | NEAR KOOL RD. |
| 29 | 1.6 | 69 | OLD 99 SOUTH |
| 30 | 3.9 | 83 | SALMON FISH HATCHERY |
| 31 | 2.7 | 93 | SPENCER CR. RD. |
| 32 | 2.2 | 119 | OLD 99 SOUTH (N. OF ELM) |
| 33 | 5.3 | 106 | CHINA GARDEN RD. |
| 34 | 2.5 | 134 | SPENCER CR. RD. |
| 35 | 4.7 | 145 | OLD 99 SOUTH NEAR KILKELLY RD. |
| 36 | 17.0 | 270 | HWY. 47 |
| 37 | 17.0 | 270 | HWY. 47 |
| 38 | 17.0 | 270 | HWY. 47 |

NRC TLD DOSES FOR TROJAN AREA (mR per 90 days)



TURKEY POINT
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870917-880127 133 DAYS
 FIELD TIME 93 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | NET EXPOSURE RATE | |
|----------------|-------------------|---------------|------------------------|-------------------|-----------|
| | AZIMUTH (Deg.) | DIST (Mi.) | | mR/Std. Qtr. | Rdm; Tot. |
| 001 | | | 1.1 | 1.1 | 1.1 |
| 002 | | | 1.1 | 1.1 | 1.1 |
| 003 | | | 1.1 | 1.1 | 1.1 |
| 004 | | | 1.1 | 1.1 | 1.1 |
| 005 | | | 1.1 | 1.1 | 1.1 |
| 006 | | | 1.1 | 1.1 | 1.1 |
| 007 | | | 1.1 | 1.1 | 1.1 |
| 008 | | | 1.1 | 1.1 | 1.1 |
| 009 | | | 1.1 | 1.1 | 1.1 |
| 010 | | | 1.1 | 1.1 | 1.1 |
| 011 | | | 1.1 | 1.1 | 1.1 |
| 012 | | | 1.1 | 1.1 | 1.1 |
| 013 | | | 1.1 | 1.1 | 1.1 |
| 014 | | | 1.1 | 1.1 | 1.1 |
| 015 | | | 1.1 | 1.1 | 1.1 |
| 016 | | | 1.1 | 1.1 | 1.1 |
| 017 | | | 1.1 | 1.1 | 1.1 |
| 018 | | | 1.1 | 1.1 | 1.1 |
| 019 | | | 1.1 | 1.1 | 1.1 |
| 020 | | | 1.1 | 1.1 | 1.1 |
| 021 | | | 1.1 | 1.1 | 1.1 |
| 022 | | | 1.1 | 1.1 | 1.1 |
| 023 | | | 1.1 | 1.1 | 1.1 |
| 024 | | | 1.1 | 1.1 | 1.1 |
| 025 | | | 1.1 | 1.1 | 1.1 |
| 026 | | | 1.1 | 1.1 | 1.1 |
| 027 | | | 1.1 | 1.1 | 1.1 |
| 028 | | | 1.1 | 1.1 | 1.1 |
| 029 | | | 1.1 | 1.1 | 1.1 |
| 030 | | | 1.1 | 1.1 | 1.1 |
| 031 | | | 1.1 | 1.1 | 1.1 |
| 032 | | | 1.1 | 1.1 | 1.1 |
| 033 | | | 1.1 | 1.1 | 1.1 |
| 034 | | | 1.1 | 1.1 | 1.1 |
| 035 | | | 1.1 | 1.1 | 1.1 |
| 036 | | | 1.1 | 1.1 | 1.1 |
| 037 | | | 1.1 | 1.1 | 1.1 |
| 038 | | | 1.1 | 1.1 | 1.1 |
| 039 | | | 1.1 | 1.1 | 1.1 |
| 040 | | | 1.1 | 1.1 | 1.1 |
| 041 | | | 1.1 | 1.1 | 1.1 |
| 042 | | | 1.1 | 1.1 | 1.1 |
| 043 | | | 1.1 | 1.1 | 1.1 |
| 044 | | | 1.1 | 1.1 | 1.1 |
| 045 | | | 1.1 | 1.1 | 1.1 |
| 046 | | | 1.1 | 1.1 | 1.1 |
| 047 | | | 1.1 | 1.1 | 1.1 |
| 048 | | | 1.1 | 1.1 | 1.1 |
| 049 | | | 1.1 | 1.1 | 1.1 |
| 050 | | | 1.1 | 1.1 | 1.1 |
| 051 | | | 1.1 | 1.1 | 1.1 |
| 052 | | | 1.1 | 1.1 | 1.1 |
| 053 | | | 1.1 | 1.1 | 1.1 |
| 054 | | | 1.1 | 1.1 | 1.1 |
| 055 | | | 1.1 | 1.1 | 1.1 |
| 056 | | | 1.1 | 1.1 | 1.1 |
| 057 | | | 1.1 | 1.1 | 1.1 |
| 058 | | | 1.1 | 1.1 | 1.1 |
| 059 | | | 1.1 | 1.1 | 1.1 |
| 060 | | | 1.1 | 1.1 | 1.1 |
| 061 | | | 1.1 | 1.1 | 1.1 |
| 062 | | | 1.1 | 1.1 | 1.1 |
| 063 | | | 1.1 | 1.1 | 1.1 |
| 064 | | | 1.1 | 1.1 | 1.1 |
| 065 | | | 1.1 | 1.1 | 1.1 |
| 066 | | | 1.1 | 1.1 | 1.1 |
| 067 | | | 1.1 | 1.1 | 1.1 |
| 068 | | | 1.1 | 1.1 | 1.1 |
| 069 | | | 1.1 | 1.1 | 1.1 |
| 070 | | | 1.1 | 1.1 | 1.1 |
| 071 | | | 1.1 | 1.1 | 1.1 |
| 072 | | | 1.1 | 1.1 | 1.1 |
| 073 | | | 1.1 | 1.1 | 1.1 |
| 074 | | | 1.1 | 1.1 | 1.1 |
| 075 | | | 1.1 | 1.1 | 1.1 |
| 076 | | | 1.1 | 1.1 | 1.1 |
| 077 | | | 1.1 | 1.1 | 1.1 |
| 078 | | | 1.1 | 1.1 | 1.1 |
| 079 | | | 1.1 | 1.1 | 1.1 |
| 080 | | | 1.1 | 1.1 | 1.1 |
| 081 | | | 1.1 | 1.1 | 1.1 |
| 082 | | | 1.1 | 1.1 | 1.1 |
| 083 | | | 1.1 | 1.1 | 1.1 |
| 084 | | | 1.1 | 1.1 | 1.1 |
| 085 | | | 1.1 | 1.1 | 1.1 |
| 086 | | | 1.1 | 1.1 | 1.1 |
| 087 | | | 1.1 | 1.1 | 1.1 |
| 088 | | | 1.1 | 1.1 | 1.1 |
| 089 | | | 1.1 | 1.1 | 1.1 |
| 090 | | | 1.1 | 1.1 | 1.1 |
| 091 | | | 1.1 | 1.1 | 1.1 |
| 092 | | | 1.1 | 1.1 | 1.1 |
| 093 | | | 1.1 | 1.1 | 1.1 |
| 094 | | | 1.1 | 1.1 | 1.1 |
| 095 | | | 1.1 | 1.1 | 1.1 |
| 096 | | | 1.1 | 1.1 | 1.1 |
| 097 | | | 1.1 | 1.1 | 1.1 |
| 098 | | | 1.1 | 1.1 | 1.1 |
| 099 | | | 1.1 | 1.1 | 1.1 |
| 100 | | | 1.1 | 1.1 | 1.1 |

TRANSIT DOSE = 4.0
 DISTANCE = 4.0
 RATE = 1.1

TURKEY POINT
FOR THE PERIOD 870917-880127

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 12.7 \pm .8 | 4 |
| 11.25-33.75 (NNE) | 11.7 \pm 2.1 | 4 |
| 33.75-56.25 (NE) | NO DATA+-NO DATA | 0 |
| 56.25-78.75 (ENE) | NO DATA+-NO DATA | 0 |
| 78.75-101.25 (E) | NO DATA+-NO DATA | 0 |
| 101.25-123.75 (ESE) | NO DATA+-NO DATA | 0 |
| 123.75-146.25 (SE) | NO DATA+-NO DATA | 0 |
| 146.25-168.75 (SSE) | 13.1 \pm 0.0 | 1 |
| 168.75-191.25 (S) | 11.5 \pm 2.7 | 3 |
| 191.25-213.75 (SSW) | 12.2 \pm 0.0 | 1 |
| 213.75-236.25 (SW) | 10.6 \pm 3.0 | 3 |
| 236.25-258.75 (WSW) | 11.8 \pm .3 | 2 |
| 258.75-281.25 (W) | 9.8 \pm .8 | 3 |
| 281.25-303.75 (WNW) | 13.3 \pm 1.9 | 5 |
| 303.75-326.25 (NW) | 11.0 \pm .7 | 3 |
| 326.25-348.75 (NNW) | 12.6 \pm 1.1 | 3 |
| | | |

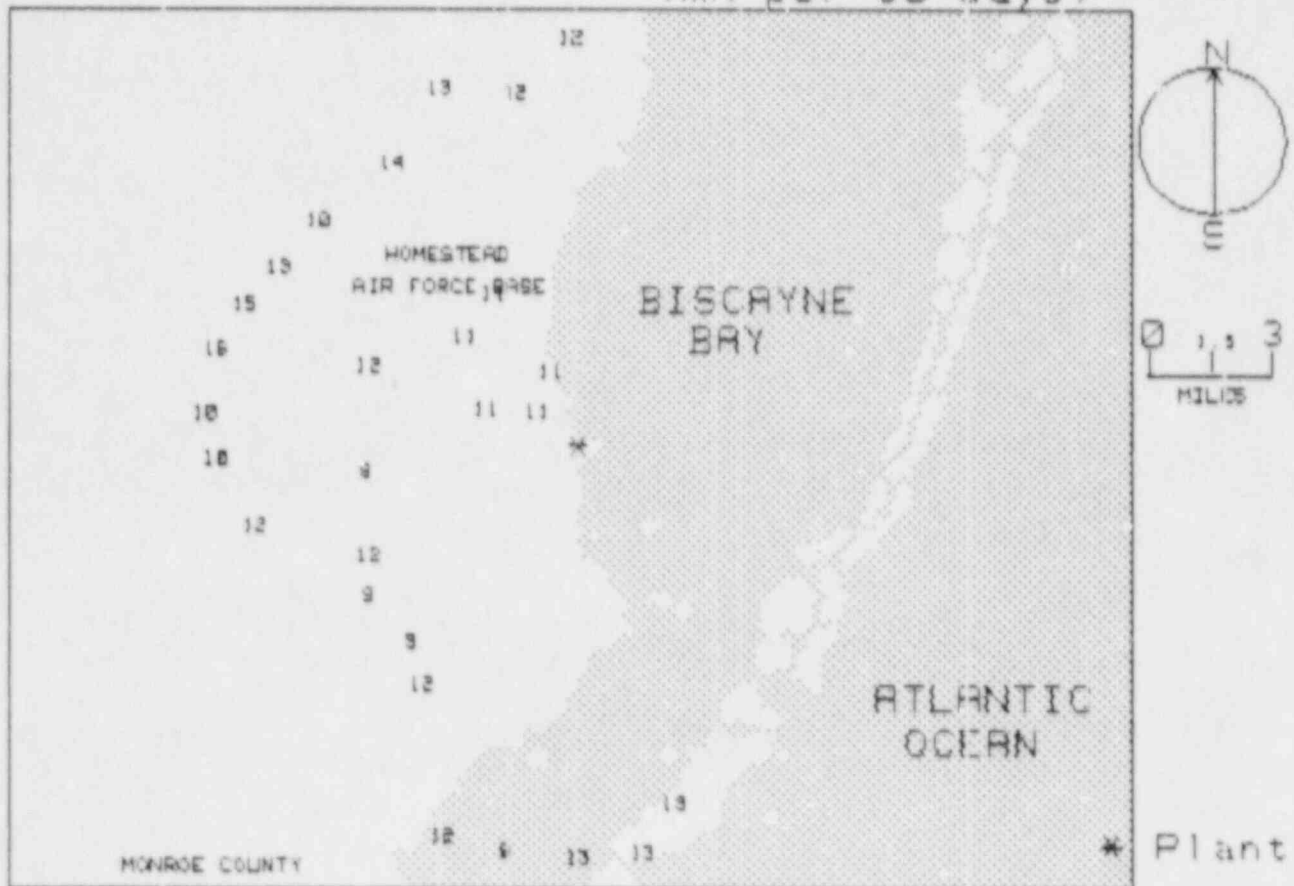
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 12.4 \pm 1.1 | 5 |
| 2-5 | 11.2 \pm .1 | 2 |
| >5 | 11.8 \pm 2.0 | 25 |
| UPWIND CONTROL DATA | 12.4 \pm .5 | 3 |

TURKEY POINT

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|---|
| 1 | 1.3 | 310 | SITE RD. & PALM DR. |
| 2 | 2.4 | 292 | PALM DR (1.2 MILES W. OF SITE RD.) |
| 3 | 1.9 | 340 | HOMESTEAD BAYFRONT PARK |
| 4 | 2.0 | 354 | HOMESTEAD BAYFRONT PARK (BOAT LAUNCH) |
| 5 | 3.0 | 314 | WAREHAUSER SHRIMP FARM |
| 6 | 4.2 | 331 | S. ALLAPATTAH DR. |
| 7 | 5.4 | 291 | N. CANAL DR. & TALLAHASSEE RD. |
| 8 | 5.1 | 263 | S. OF CANAL DR. ON TALLAHASSEE RD. |
| 9 | 5.7 | 242 | TALLAHASSEE RD. (4.5 MILES S. OF CANAL RD.) |
| 10 | 6.2 | 234 | TALLAHASSEE RD. (5.6 MILES S. OF CANAL RD.) |
| 11 | 6.2 | 220 | OFF TALLAHASSEE RD. ON DIRT RD. WITH STEEL BARR |
| 12 | 6.9 | 213 | OFF TALLAHASSEE RD. ON DIRT RD. AT LEVEE |
| 13 | 10.0 | 199 | CARD SOUND RD. |
| 14 | 10.0 | 190 | CARD SOUND RD. AT BARNES PT. |
| 15 | 10.0 | 180 | CARD SOUND RD. AT STEAMBOAT CR. |
| 16 | 10.0 | 171 | CARD SOUND RD. (RT. 905) |
| 17 | 9.0 | 165 | KEY LARGO CLUB GATEHOUSE |
| 18 | 16.0 | 203 | HWY. 1 (6 MILES N. OF RT. 905) |
| 19 | 16.0 | 203 | HWY. 1 (6.4 MILES N. OF RT. 905) |
| 20 | 16.0 | 203 | HWY. 1 (6.4 MILES N. OF RT. 905) |
| 21 | 8.7 | 260 | NAVY SECURITY COMPLEX |
| 22 | 8.0 | 256 | CARD SOUND RD. (2.2 MILES SE OF RT. 1) |
| 23 | 9.0 | 275 | HWY. 1 (1 MILE N. OF CARD SOUND RD.) |
| 24 | 9.0 | 285 | HWY. 1 & MOWRY ST. |
| 25 | 8.7 | 293 | HWY. 1 & KINGS HWY. |
| 26 | 8.4 | 301 | HWY. 1 & BISCAYNE BLVD. |
| 27 | 8.3 | 311 | HWY. 1 & SW 145TH ST. |
| 28 | 8.2 | 327 | COCONUT PALM DR. |
| 29 | 9.3 | 339 | HWY. 1 & SW 220TH ST. |
| 30 | 8.7 | 350 | OLD CUTLER RD. & SW 223RD ST. |
| 31 | 9.9 | 359 | FRANJO RD. |
| 32 | 18.0 | 2 | HWY. 1 & SW 104TH ST. |
| 33 | 22.0 | 12 | HWY. 1 & GRANADA RD. |
| 34 | 24.0 | 18 | NATOMA SUBSTATION |
| 35 | 22.0 | 28 | CRANDON BLVD. & EASTWOOD DR. |
| 36 | .3 | 15 | TURKEY PT. BEACH |
| 37 | .5 | 228 | TURKEY PT. BOY SCOUT CAMP |

NRC TLD DOSES FOR TURKEY POINT AREA
(mR per 90 days)



VERMONT YANKEE
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870918-880126 131 DAYS
 FIELD TIME 94 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) + - Rdm; Tot. | NET EXPOSURE RATE mR/Std. Dtr. + - Rdm; Tot. |
|----------------|----------------|------------|---|--|
| | AZIMUTH (deg.) | DIST (mi.) | | |
| 001 | 111 | 1.1 | 1.1 | 1.1 |
| 002 | 111 | 1.1 | 1.1 | 1.1 |
| 003 | 111 | 1.1 | 1.1 | 1.1 |
| 004 | 111 | 1.1 | 1.1 | 1.1 |
| 005 | 111 | 1.1 | 1.1 | 1.1 |
| 006 | 111 | 1.1 | 1.1 | 1.1 |
| 007 | 111 | 1.1 | 1.1 | 1.1 |
| 008 | 111 | 1.1 | 1.1 | 1.1 |
| 009 | 111 | 1.1 | 1.1 | 1.1 |
| 010 | 111 | 1.1 | 1.1 | 1.1 |
| 011 | 111 | 1.1 | 1.1 | 1.1 |
| 012 | 111 | 1.1 | 1.1 | 1.1 |
| 013 | 111 | 1.1 | 1.1 | 1.1 |
| 014 | 111 | 1.1 | 1.1 | 1.1 |
| 015 | 111 | 1.1 | 1.1 | 1.1 |
| 016 | 111 | 1.1 | 1.1 | 1.1 |
| 017 | 111 | 1.1 | 1.1 | 1.1 |
| 018 | 111 | 1.1 | 1.1 | 1.1 |
| 019 | 111 | 1.1 | 1.1 | 1.1 |
| 020 | 111 | 1.1 | 1.1 | 1.1 |
| 021 | 111 | 1.1 | 1.1 | 1.1 |
| 022 | 111 | 1.1 | 1.1 | 1.1 |
| 023 | 111 | 1.1 | 1.1 | 1.1 |
| 024 | 111 | 1.1 | 1.1 | 1.1 |
| 025 | 111 | 1.1 | 1.1 | 1.1 |
| 026 | 111 | 1.1 | 1.1 | 1.1 |
| 027 | 111 | 1.1 | 1.1 | 1.1 |
| 028 | 111 | 1.1 | 1.1 | 1.1 |
| 029 | 111 | 1.1 | 1.1 | 1.1 |
| 030 | 111 | 1.1 | 1.1 | 1.1 |
| 031 | 111 | 1.1 | 1.1 | 1.1 |
| 032 | 111 | 1.1 | 1.1 | 1.1 |
| 033 | 111 | 1.1 | 1.1 | 1.1 |
| 034 | 111 | 1.1 | 1.1 | 1.1 |
| 035 | 111 | 1.1 | 1.1 | 1.1 |
| 036 | 111 | 1.1 | 1.1 | 1.1 |
| 037 | 111 | 1.1 | 1.1 | 1.1 |
| 038 | 111 | 1.1 | 1.1 | 1.1 |
| 039 | 111 | 1.1 | 1.1 | 1.1 |
| 040 | 111 | 1.1 | 1.1 | 1.1 |
| TRANSIT DOSE = | 5. | + | 4 | |

ING OR PHMAG
 DOSIM

VERMONT YANKEE
FOR THE PERIOD 870918-880126

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std. Dev. | # IN GROUP |
|---------------------|--|------------|
| 348.75-11.25 (N) | 15.0 \pm 1.6 | 2 |
| 11.25-33.75 (NNE) | 14.7 \pm 4.1 | 2 |
| 33.75-56.25 (NE) | 20.5 \pm 0.0 | 1 |
| 56.25-78.75 (ENE) | 16.5 \pm 0.0 | 1 |
| 78.75-101.25 (E) | 15.6 \pm 3.7 | 2 |
| 101.25-123.75 (ESE) | 15.1 \pm 2.1 | 2 |
| 123.75-146.25 (SE) | 13.7 \pm 1.0 | 2 |
| 146.25-168.75 (SSE) | 14.1 \pm 2.4 | 3 |
| 168.75-191.25 (S) | 15.0 \pm .8 | 2 |
| 191.25-213.75 (SSW) | 14.3 \pm 1.0 | 3 |
| 213.75-236.25 (SW) | 15.3 \pm 1.0 | 3 |
| 236.25-258.75 (WSW) | 15.2 \pm 0.0 | 1 |
| 258.75-281.25 (W) | 13.1 \pm 1.0 | 2 |
| 281.25-303.75 (WNW) | 15.8 \pm 1.4 | 5 |
| 303.75-326.25 (NW) | 14.8 \pm .7 | 2 |
| 326.25-348.75 (NNW) | 15.0 \pm .3 | 2 |
| | | |

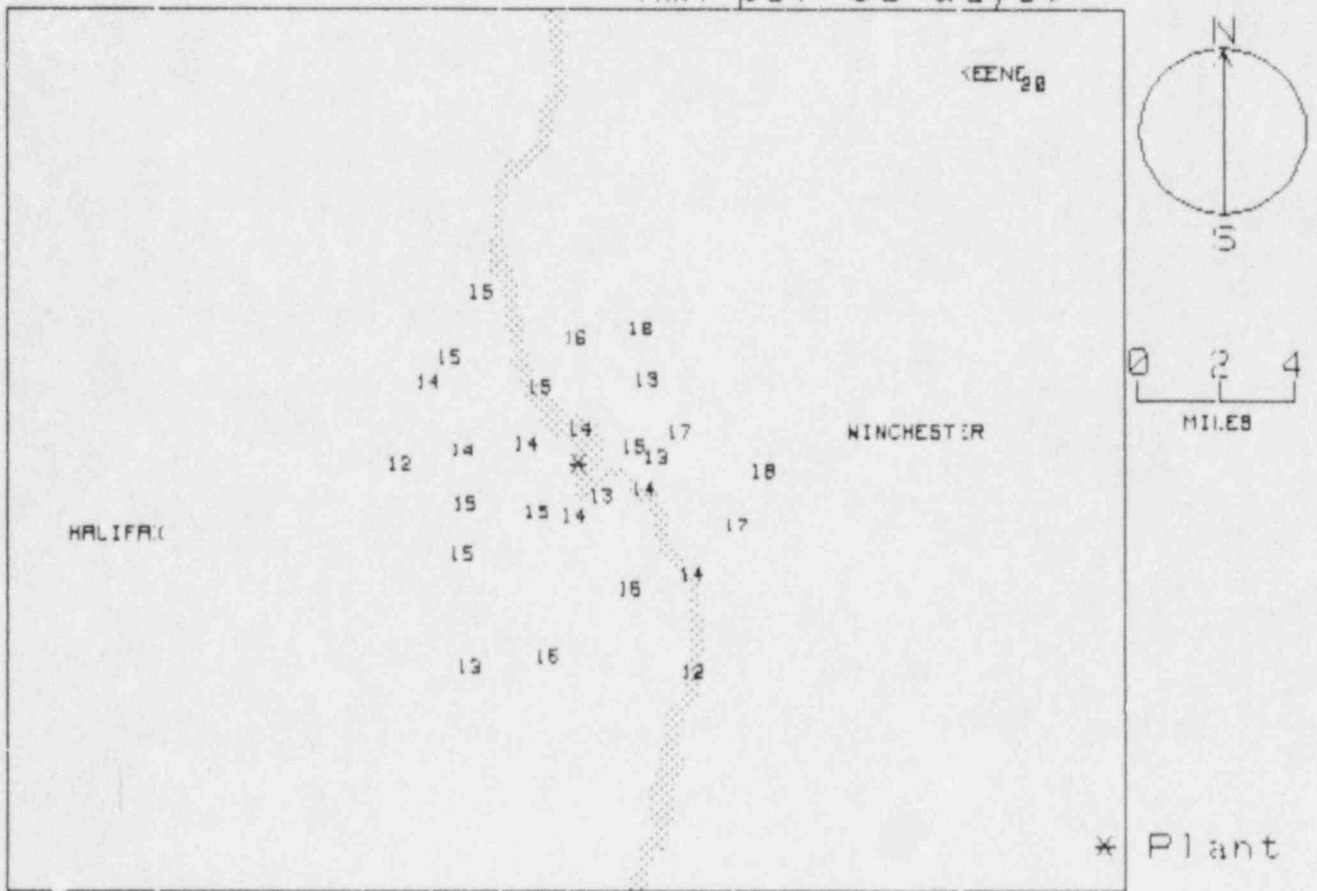
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std. Dev. | # IN GROUP |
|-------------------------------|--|------------|
| 0-2 | 14.0 \pm 1.1 | 12 |
| 2-5 | 15.5 \pm 1.4 | 16 |
| >5 | 15.8 \pm 2.9 | 7 |
| UPWIND CONTROL DATA | 15.7 \pm .7 | 2 |

VERMONT YANKEE

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|--|
| 1 | 1.0 | 142 | SNEAD LUMBER CO. |
| 2 | 1.0 | 158 | STEBBINS RD. |
| 3 | 1.3 | 184 | RT. 142 & POND RD. |
| 4 | 1.4 | 201 | WEST RD. & EDGEWOOD PARK RD. |
| 5 | 1.6 | 220 | FAIRMAN RD. |
| 6 | 3.4 | 157 | POND RD. & HOUGHTON HILL RD. |
| 7 | 4.9 | 189 | HUCKLE HILL RD. |
| 8 | 13.0 | 201 | GREENFIELD |
| 9 | 5.8 | 208 | RT. 5 & COUCH RD. |
| 10 | 3.7 | 232 | RT. 5 |
| 11 | 2.9 | 277 | RT. 5 |
| 12 | 1.4 | 292 | TYLER HILL RD. |
| 13 | 1.4 | 314 | RT. 142 |
| 14 | 4.2 | 310 | RT. 5 & GUILFORD CTR RD. |
| 15 | 4.3 | 299 | GUILFORD CTR RD. |
| 16 | 4.5 | 270 | WEATHER HEAD HOLLOW RD. & STONY HILL RD. |
| 17 | 5.0 | 331 | BRATTLEBORO HIGH SCHOOL |
| 18 | 19.0 | 290 | WILMINGTON |
| 19 | 19.0 | 290 | WILMINGTON |
| 20 | 19.0 | 290 | WILMINGTON |
| 21 | 3.2 | 359 | MIDDLE OX BOW RD. |
| 23 | 2.2 | 334 | HINSDALE RACEWAY |
| 24 | .9 | 4 | RT. 119 |
| 25 | 1.0 | 30 | RT. 119 |
| 26 | 1.5 | 72 | RT. 119 |
| 27 | .7 | 44 | RT. 119 & PROSPECT RD. |
| 28 | 2.8 | 39 | RT. 63 & OLD CHESTERFIELD RD. |
| 29 | 3.8 | 25 | RT. 63 |
| 30 | 2.7 | 72 | RT. 119 |
| 31 | 2.0 | 85 | DEPOT ST. |
| 32 | 1.8 | 111 | RT. 63 |
| 33 | 4.0 | 134 | RT. 63 |
| 34 | 6.0 | 151 | NORTHFIELD |
| 35 | 4.3 | 111 | RIGHT SIDE RD. OFF ASHUELOT RD. |
| 36 | 4.7 | 52 | ASHUELOT RD. |
| 37 | 15.0 | 50 | KEENE |
| 39 | .3 | 222 | GOV. HUNT RD. |
| 40 | 3.0 | 250 | RT. 5 |

NRC TLD DOSES FOR VERMONT YANKEE AREA (mR per 90 days)



VOGTLE
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870916-880204 142 DAYS
 FIELD TIME 104 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | | |
|--------------------------|----------------|------------|------------------------------|-------|-------------------|-------------|--|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | Tot. | mR/Std. Qtr. | + Rdm; Tot. | |
| 001 | 298 | 1.6 | 19.0 | +- .6 | 11.9 | +- .6 | |
| 002 | 309 | 1.6 | 19.2 | +- .6 | 12.1 | +- .6 | |
| 003 | 336 | 1.4 | 18.9 | +- .6 | 11.0 | +- .6 | |
| 004 | 270 | 1.3 | 18.4 | +- .6 | 11.4 | +- .6 | |
| 005 | 247 | 1.2 | 20.6 | +- .6 | 13.3 | +- .6 | |
| 006 | 215 | 1.2 | 23.2 | +- .6 | 15.6 | +- .6 | |
| 007 | 205 | 1.2 | 23.7 | +- .6 | 16.0 | +- .6 | |
| 008 | 180 | 1.1 | 24.7 | +- .6 | 16.9 | +- .6 | |
| 009 | 153 | 1.2 | 19.8 | +- .6 | 12.6 | +- .6 | |
| 010 | 134 | 1.3 | 23.6 | +- .6 | 15.9 | +- .6 | |
| 011 | 103 | 1.1 | 17.9 | +- .5 | 11.0 | +- .6 | |
| 012 | 134 | 3.3 | 20.7 | +- .6 | 13.4 | +- .6 | |
| 013 | 123 | 4.2 | 21.7 | +- .6 | 14.3 | +- .6 | |
| 014 | 141 | 4.6 | 18.0 | +- .5 | 11.1 | +- .6 | |
| 015 | 153 | 5.3 | 19.1 | +- .6 | 12.0 | +- .6 | |
| 016 | 162 | 6.3 | 21.9 | +- .7 | 14.5 | +- .6 | |
| 017 | 157 | 7.3 | MISSING OR DAMAGED DOSIMETER | | | | |
| 018 | 191 | 4.8 | 18.8 | +- .6 | 11.0 | +- .6 | |
| 019 | 208 | 4.7 | 17.9 | +- .5 | 11.0 | +- .6 | |
| 020 | 232 | 4.9 | 17.1 | +- .5 | 10.3 | +- .6 | |
| 021 | 250 | 5.6 | 19.8 | +- .6 | 12.6 | +- .6 | |
| 022 | 264 | 4.3 | 18.6 | +- .6 | 11.6 | +- .6 | |
| 023 | 301 | 4.2 | 20.0 | +- .6 | 12.0 | +- .6 | |
| 024 | 308 | 4.6 | 23.4 | +- .7 | 15.7 | +- .6 | |
| 025 | 329 | 6.7 | 20.0 | +- .6 | 12.0 | +- .6 | |
| 026 | 258 | 15. | 25.0 | +- .7 | 17.1 | +- .6 | |
| 027 | 308 | 13. | 23.5 | +- .7 | 15.9 | +- .6 | |
| 028 | 338 | 30. | 18.1 | +- .5 | 11.1 | +- .6 | |
| 031 | 357 | 5.2 | 21.7 | +- .7 | 14.3 | +- .6 | |
| 032 | 26 | 4.9 | 15.7 | +- .5 | 9.9 | +- .6 | |
| 033 | 17 | 3.3 | 17.6 | +- .5 | 10.7 | +- .6 | |
| 034 | 36 | 3.9 | 18.4 | +- .6 | 11.4 | +- .6 | |
| 035 | 48 | 2.4 | 22.0 | +- .7 | 14.5 | +- .6 | |
| 036 | 69 | 2.0 | 19.3 | +- .6 | 12.2 | +- .6 | |
| 037 | 74 | 4.4 | 18.5 | +- .6 | 11.5 | +- .6 | |
| 038 | 94 | 4.5 | 18.1 | +- .6 | 11.1 | +- .6 | |
| TRANSIT DOSE = 5.2 +- .4 | | | ; 6.0 | | | | |

VOGTLE
FOR THE PERIOD 870916-880204

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 14.3 \pm 0.0 | 1 |
| 11.25-33.75 (NNE) | 9.9 \pm 1.1 | 2 |
| 33.75-56.25 (NE) | 13.0 \pm 2.2 | 2 |
| 56.25-78.75 (ENE) | 11.9 \pm .5 | 2 |
| 78.75-101.25 (E) | 11.1 \pm 0.0 | 1 |
| 101.25-123.75 (ESE) | 12.6 \pm 2.3 | 2 |
| 123.75-146.25 (SE) | 13.5 \pm 2.4 | 3 |
| 146.25-168.75 (SSE) | 13.0 \pm 1.3 | 3 |
| 168.75-191.25 (S) | 14.3 \pm 3.6 | 2 |
| 191.25-213.75 (SSW) | 13.5 \pm 3.5 | 2 |
| 213.75-236.25 (SW) | 12.9 \pm 3.7 | 2 |
| 236.25-258.75 (WSW) | 13.0 \pm .5 | 2 |
| 258.75-281.25 (W) | 11.5 \pm .1 | 2 |
| 281.25-303.75 (WNW) | 12.4 \pm .6 | 2 |
| 303.75-326.25 (NW) | 13.9 \pm 2.6 | 2 |
| 326.25-348.75 (NNW) | 12.3 \pm .7 | 2 |
| | | |

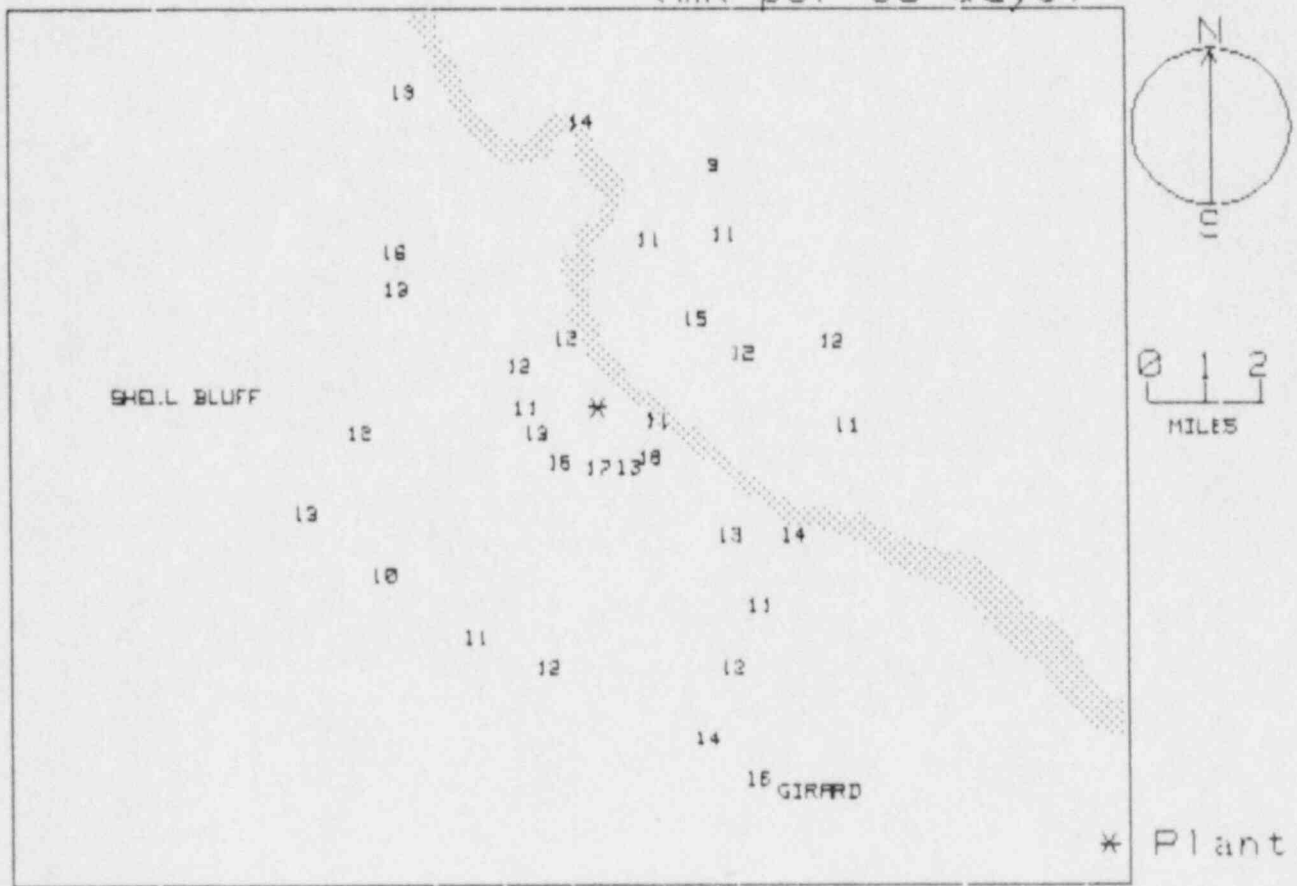
| DISTANCE (mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|--------------------------------|---|------------|
| 0-2 | 13.5 \pm 2.2 | 11 |
| 2-5 | 12.2 \pm 1.7 | 16 |
| >5 | 13.2 \pm 1.1 | 5 |
| UPWIND CONTROL DATA | 14.7 \pm 3.1 | 3 |

VOGTLE

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|---|
| 1 | 1.6 | 298 | HANCOCK LANDING & RIVER RD |
| 2 | 1.6 | 309 | 0.7 MI. EAST OF RIVER RD(FROM ST.1) |
| 3 | 1.4 | 336 | HANCOCK LANDING RD AT G.P. AIR SAMPLER |
| 4 | 1.3 | 270 | RIVER RD, 1 MI S. OF HANCOCK LANDING RD |
| 5 | 1.2 | 247 | RIVER RD AT DeLAGLE MHP |
| 6 | 1.2 | 215 | INTERSECTION OF RIVER & CC ROADS |
| 7 | 1.2 | 205 | RIVER RD 0.3 MI NW OF TLD STATION 18 |
| 8 | 1.1 | 180 | RIVER RD 0.4 MI E OF TLD STATION 7 |
| 9 | 1.2 | 153 | RIVER RD 0.5 MI E OF TLD STATION 8 |
| 10 | 1.3 | 134 | RIVER RD AT PLANT GATE 3 |
| 11 | 1.1 | 103 | PLANT WILSON BOUNDARY RD |
| 12 | 3.3 | 134 | NEAR RESIDENCE OF OLD RIVER RD |
| 13 | 4.2 | 123 | GRIFFINS LANDING RD |
| 14 | 4.6 | 141 | GRIFFINS LANDING AND EARLE DIXON RDS |
| 15 | 5.3 | 153 | GRIFFINS LANDING & CHANCE RDS |
| 16 | 6.3 | 162 | GIRARD ELEMENTARY SCHOOL |
| 17 | 7.3 | 157 | CITY OF GIRARD |
| 18 | 4.8 | 191 | GA HWY 23 & THOMPSON BRIDGE RD |
| 19 | 4.7 | 208 | GA HWY 23, 1.5 MI NW OF TLD STATION 18 |
| 20 | 4.9 | 232 | GA HWY 23 & ESKEW ROAD |
| 21 | 5.6 | 250 | GA HWY 23 & HANCOCK LANDING RD |
| 22 | 4.3 | 264 | HANCOCK LANDING & CLAXTON LIVERLY RDS |
| 23 | 4.2 | 301 | RIVER RD AND HATCHER ROAD |
| 24 | 4.6 | 308 | PIONEER TRAILER PARK ON RIVER RD |
| 25 | 6.7 | 329 | SHELL BLUFF LANDING |
| 26 | 15.0 | 258 | GP DISTRICT OFFI. IN WAYNESBORO |
| 27 | 13.0 | 300 | McBEAN FIRE STATION |
| 28 | 30.0 | 330 | GA WELCOME CENTER I-20 W, AUGUSTA |
| 31 | 5.2 | 357 | SRP BOAT DOCK(SC) |
| 32 | 4.9 | 26 | SRP A-12 & SEABOARD COAST FR (SC) |
| 33 | 3.2 | 17 | 1.2 MI FROM INTERSEC. DIRT RD & SRP A12.2 |
| 34 | 3.9 | 36 | INTERSEC. OF SRP A-13 & SRP A-13.2(SC) |
| 35 | 2.4 | 48 | INTERSEC. OF SRP A-13 & BEAR TRACK RD(SC) |
| 36 | 2.8 | 69 | 2ND INTERSEC. SRP A-13 & BEAR RD(SC) |
| 37 | 4.4 | 74 | INTERSEC. OF A-13 & SRP A-13.2 (SC) |
| 38 | 4.5 | 94 | INTERSEC. OF SRP A-17 & WILSON RD(SC) |

NRC TLD DOSES FOR VOGTLE AREA (mR per 90 days)



WASHINGTON NUCLEAR 2
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870914-880128 137 DAYS
 FIELD TIME 95 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|----------------|-------------------|---------------|------------------------|------|-------------------|-------------|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | Tot. | mR/Std. Dev. | + Rdm; Tot. |
| 001 | 174 | 12. | 22.6 | +- | 15.5 | +- |
| 002 | 163 | 11. | 23.0 | +- | 15.5 | +- |
| 003 | 161 | 9.0 | 23.7 | +- | 16.0 | +- |
| 004 | 152 | 5.0 | 26.7 | +- | 19.0 | +- |
| 005 | 155 | 2.0 | 24.1 | +- | 16.0 | +- |
| 006 | 220 | 1.5 | 23.0 | +- | 15.0 | +- |
| 007 | 92 | 0.0 | 25.0 | +- | 17.0 | +- |
| 008 | 155 | 1.0 | 24.0 | +- | 17.0 | +- |
| 009 | 130 | 0.5 | 25.1 | +- | 17.0 | +- |
| 010 | 70 | 0.0 | 26.1 | +- | 18.0 | +- |
| 011 | 225 | 0.0 | 24.5 | +- | 17.0 | +- |
| 012 | 315 | 0.0 | 25.4 | +- | 18.0 | +- |
| 013 | 290 | 0.0 | 31.6 | +- | 24.0 | +- |
| 014 | 270 | 0.0 | 24.0 | +- | 17.0 | +- |
| 015 | 245 | 1.0 | 25.6 | +- | 18.0 | +- |
| 016 | 285 | 3.0 | 26.0 | +- | 19.0 | +- |
| 017 | 240 | 4.0 | 23.0 | +- | 17.0 | +- |
| 018 | 190 | 7.0 | 23.4 | +- | 17.0 | +- |
| 019 | 173 | 8.5 | 24.0 | +- | 17.0 | +- |
| 020 | 150 | 20. | 25.0 | +- | 17.0 | +- |
| 021 | 114 | 7.0 | 26.0 | +- | 18.0 | +- |
| 022 | 120 | 8.0 | 25.0 | +- | 18.0 | +- |
| 023 | 134 | 6.0 | 27.0 | +- | 19.0 | +- |
| 024 | 110 | 4.0 | 31.1 | +- | 23.0 | +- |
| 025 | 85 | 5.0 | 27.6 | +- | 20.0 | +- |
| 026 | 65 | 5.0 | 28.0 | +- | 21.0 | +- |
| 027 | 53 | 4.0 | 25.1 | +- | 17.0 | +- |
| 028 | 44 | 0.0 | 27.2 | +- | 19.0 | +- |
| 029 | 33 | 10. | 24.4 | +- | 17.0 | +- |
| 030 | 0 | 9.5 | 27.5 | +- | 20.0 | +- |
| 031 | 215 | 15. | 24.5 | +- | 17.0 | +- |
| TRANSIT DOSE = | 6.0 | +- | 6.0 | | | |

WASHINGTON NUCLEAR 2
FOR THE PERIOD 870914-880128

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std. Dev. | # IN GROUP |
|---------------------|--|------------|
| 348.75-11.25 (N) | 20.1 \pm 0.0 | 1 |
| 11.25-33.75 (NNE) | 17.3 \pm .1 | 2 |
| 33.75-56.25 (NE) | 18.8 \pm 1.4 | 2 |
| 56.25-78.75 (ENE) | 20.1 \pm 1.8 | 2 |
| 78.75-101.25 (E) | 18.8 \pm 1.7 | 2 |
| 101.25-123.75 (ESE) | 20.4 \pm 2.8 | 3 |
| 123.75-146.25 (SE) | 18.7 \pm 1.3 | 2 |
| 146.25-168.75 (SSE) | 17.3 \pm 1.3 | 5 |
| 168.75-191.25 (S) | 17.6 \pm 0.0 | 1 |
| 191.25-213.75 (SSW) | 16.5 \pm .5 | 2 |
| 213.75-236.25 (SW) | 15.8 \pm 0.0 | 1 |
| 236.25-258.75 (WSW) | 17.1 \pm 1.7 | 2 |
| 258.75-281.25 (W) | 17.3 \pm 0.0 | 1 |
| 281.25-303.75 (WNW) | 21.7 \pm 3.2 | 2 |
| 303.75-326.25 (NW) | 18.1 \pm 0.0 | 1 |
| 326.25-348.75 (NNW) | NO DATA \pm NO DATA | 0 |
| | | |

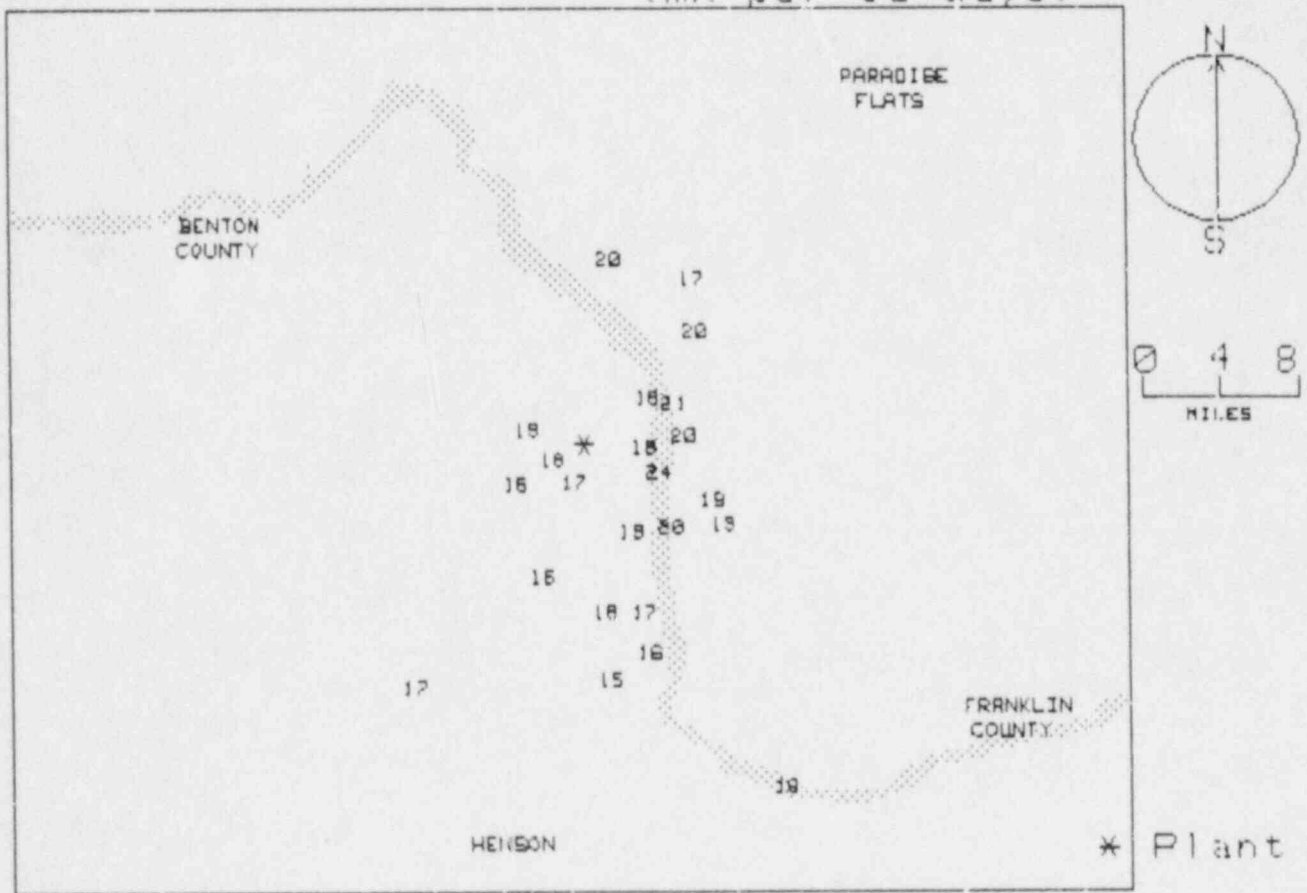
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std. Dev. | # IN GROUP |
|-------------------------------|--|------------|
| 0-2 | 18.1 \pm 2.2 | 10 |
| 2-5 | 19.4 \pm 2.4 | 8 |
| >5 | 18.0 \pm 1.5 | 11 |
| UPWIND CONTROL DATA | 16.4 \pm 1.2 | 2 |

WASHINGTON NUCLEAR 2

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|---|
| 1 | 12.0 | 174 | STEVENS DR. & VAN GIESEN ST. |
| 2 | 11.0 | 163 | HANFORD SCHOOL |
| 3 | 9.0 | 161 | BENTON BLVD. |
| 4 | 5.0 | 152 | RT.4 AT RR CROSSING |
| 5 | 2.0 | 195 | RT.4 & WNP 1-4 ACCESS RD. |
| 6 | 1.5 | 220 | RT. 4 N. OF FFTF ACCESS RD. |
| 7 | 3.0 | 92 | WNP-2 INTAKE STRUCTURE |
| 8 | 1.0 | 155 | WNP 1-4 ACCESS RD. & WNP-2 CUTOFF |
| 9 | .5 | 130 | WNP-2 CUTOFF & WASTE WATER TREATMENT ACCESS RD. |
| 10 | .5 | 70 | WNP-4 EXCLUS. BOUNDARY BY WNP-2 CUTOFF |
| 11 | .8 | 25 | N.W. CORNER WNP-4 EXCLUSION BOUNDARY |
| 12 | .5 | 315 | B.P.A.H.J. ASHE SUBSTATION |
| 13 | .5 | 290 | WNP-2 EXCLUSION BOUNDARY |
| 14 | .5 | 270 | WPPSS METEOROLOGY STATION |
| 15 | 1.0 | 245 | RT.4 & WNP-2 ACCESS ROAD |
| 16 | 3.0 | 285 | WYE BARRICADE |
| 17 | 4.0 | 240 | RT.10 & FFTF ACCESS ROAD |
| 18 | 7.0 | 190 | B.P.A. WHITE BLUFF SUBSTATION |
| 19 | 8.5 | 173 | HORN RAPIDS ROAD ACROSS FROM EXXON |
| 20 | 20.0 | 150 | RD.#36 & RUBY IN PASCO |
| 21 | 7.0 | 114 | EDWIN MARKHAM SCHOOL |
| 22 | 8.0 | 120 | BPA BAXTER SUBSTATION |
| 23 | 6.0 | 134 | COTTONWOOD ROAD N. OF PASCO |
| 24 | 4.0 | 110 | END OF FIR ROAD N.W. OF PASCO |
| 25 | 5.0 | 85 | GLENWOOD & GUM INTERSECTION |
| 26 | 5.0 | 65 | ELTOPIA RINGOLD ROAD |
| 27 | 4.0 | 53 | RINGOLD FISH HATCHERY |
| 28 | 8.0 | 44 | RD.#170 & KLAMATH INTERSECTION |
| 29 | 10.0 | 33 | WAHLUKE SO. & BASIN HILL RD. INTERSECTION |
| 30 | 9.5 | 8 | HOLLINGSWORTH & MT. VISTA RD. |
| 31 | 15.0 | 215 | ACORD & WHAN RD. INTERSECTION |

NRC TLD DOSES FOR WASHINGTON AREA (mR per 90 days)



WATERFORD
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870915-880127 135 DAYS
 FIELD TIME 94 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE(mR) | | NET EXPOSURE RATE | |
|----------------|-------------------|---------------|-----------------------|------|-------------------|-------------|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | Tot. | mR/Std. Qtr. | + Rdm; Tot. |
| 001 | 101 | 0.4 | 19.6 | +- | 14.7 | +- |
| 002 | 116 | 1.1 | 19.7 | +- | 14.7 | +- |
| 003 | 132 | 1.3 | 24.4 | +- | 19.2 | +- |
| 004 | 160 | 1.8 | 19.5 | +- | 14.6 | +- |
| 005 | 183 | 1.4 | 19.6 | +- | 14.7 | +- |
| 006 | 202 | 1.2 | 18.9 | +- | 14.8 | +- |
| 007 | 226 | 1.2 | 19.5 | +- | 14.7 | +- |
| 008 | 248 | 1.3 | 23.0 | +- | 17.9 | +- |
| 009 | 265 | 1.9 | 24.0 | +- | 18.9 | +- |
| 010 | 186 | 4.2 | 21.5 | +- | 16.5 | +- |
| 011 | 315 | 4.4 | 22.1 | +- | 17.1 | +- |
| 012 | 328 | 4.1 | 20.9 | +- | 15.9 | +- |
| 013 | 389 | 6.0 | 18.5 | +- | 13.8 | +- |
| 014 | 273 | 6.9 | 20.3 | +- | 15.4 | +- |
| 015 | 292 | 6.0 | 19.1 | +- | 14.2 | +- |
| 016 | 335 | 6.5 | 18.0 | +- | 13.1 | +- |
| 017 | 128 | 4.3 | 17.1 | +- | 12.3 | +- |
| 018 | 145 | 3.5 | 17.2 | +- | 12.4 | +- |
| 019 | 152 | 3.1 | 20.9 | +- | 15.9 | +- |
| 020 | 132 | 3.1 | 22.0 | +- | 17.0 | +- |
| 021 | 116 | 3.7 | 19.7 | +- | 14.7 | +- |
| 022 | 99 | 4.3 | 20.0 | +- | 15.0 | +- |
| 023 | 86 | 4.2 | 20.0 | +- | 15.0 | +- |
| 024 | 66 | 4.2 | 20.3 | +- | 15.2 | +- |
| 025 | 93 | 3.8 | 20.0 | +- | 15.0 | +- |
| 026 | 233 | 3.3 | 19.1 | +- | 14.2 | +- |
| 027 | 33 | 4.9 | 19.9 | +- | 15.0 | +- |
| 028 | 33 | 5.0 | 20.6 | +- | 15.6 | +- |
| 029 | 33 | 5.0 | 19.0 | +- | 14.1 | +- |
| 030 | 35 | 1.1 | 18.9 | +- | 14.0 | +- |
| 031 | 15 | 0.8 | 22.4 | +- | 17.4 | +- |
| 032 | 48 | 0.8 | 19.0 | +- | 14.1 | +- |
| 033 | 69 | 1.1 | MISSING OR DAMAGED | | 14.1 | +- |
| 034 | 292 | 15. | 20.0 | +- | 15.0 | +- |
| 035 | 282 | 27. | 22.1 | +- | 17.0 | +- |
| 036 | 268 | 21. | 18.3 | +- | 13.4 | +- |
| TRANSIT DOSE = | 4.2 | +- | .4 | +- | 0.3 | +- |

WATERFORD
FOR THE PERIOD 870915-880127

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 14.4 \pm .6 | 3 |
| 11.25-33.75 (NNE) | 15.8 \pm 2.3 | 2 |
| 33.75-56.25 (NE) | 15.5 \pm 2.0 | 2 |
| 56.25-78.75 (ENE) | 18.2 \pm 0.0 | 1 |
| 78.75-101.25 (E) | 15.4 \pm .7 | 3 |
| 101.25-123.75 (ESE) | 13.9 \pm 1.4 | 3 |
| 123.75-146.25 (SE) | 16.2 \pm 3.5 | 3 |
| 146.25-168.75 (SSE) | 15.3 \pm 1.0 | 2 |
| 168.75-191.25 (S) | 15.6 \pm 1.3 | 2 |
| 191.25-213.75 (SSW) | 14.0 \pm 0.0 | 1 |
| 213.75-236.25 (SW) | 14.6 \pm 0.0 | 1 |
| 236.25-258.75 (WSW) | 17.9 \pm 0.0 | 1 |
| 258.75-281.25 (W) | 17.1 \pm 2.5 | 2 |
| 281.25-303.75 (WNW) | 14.2 \pm 0.0 | 1 |
| 303.75-326.25 (NW) | 15.4 \pm 2.4 | 2 |
| 326.25-348.75 (NNW) | 14.9 \pm 1.5 | 3 |
| | | |

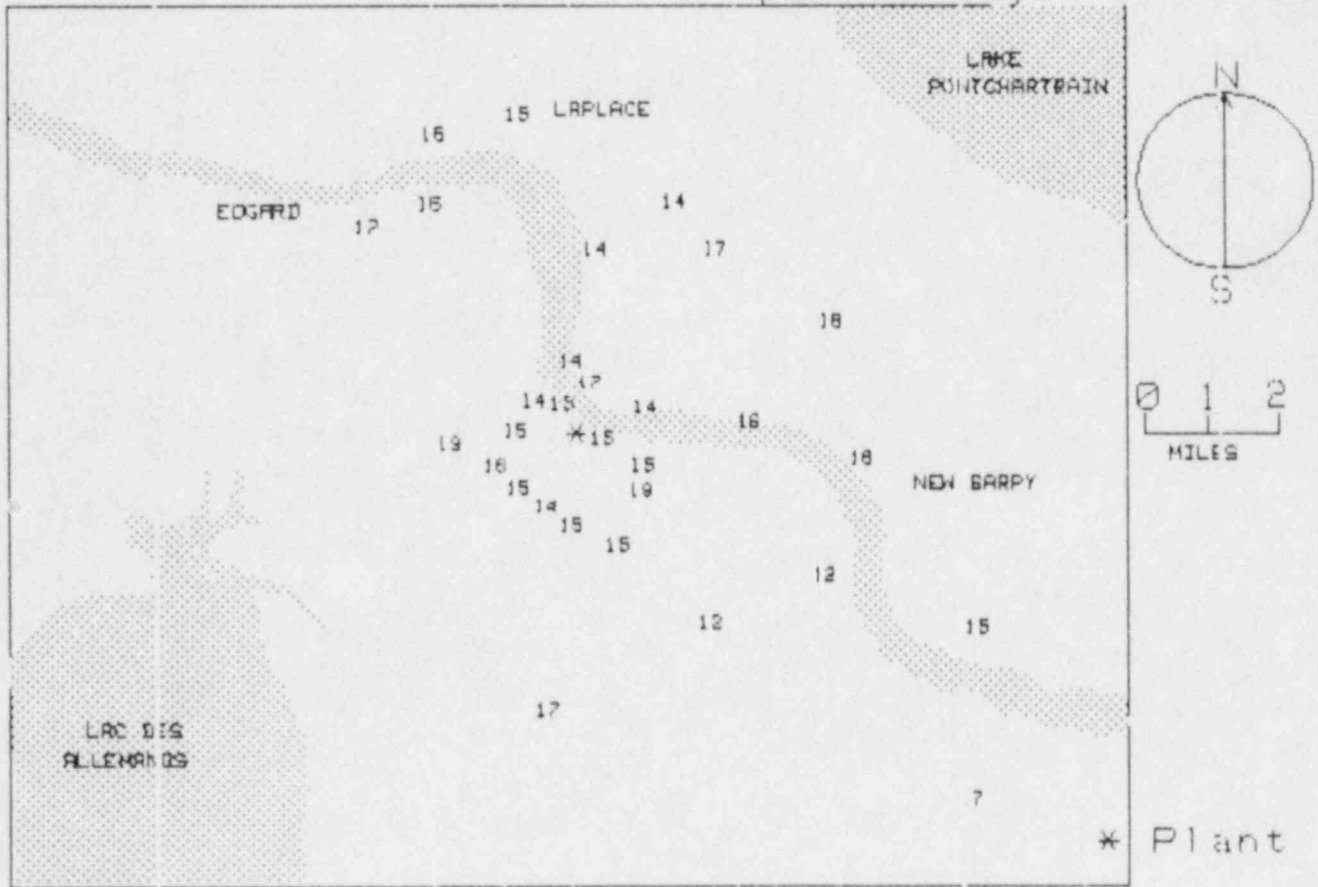
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 15.3 \pm 1.9 | 16 |
| 2-5 | 15.4 \pm 1.0 | 13 |
| >5 | 15.9 \pm 1.1 | 3 |
| UPWIND CONTROL DATA | 15.4 \pm 1.9 | 3 |

WATERFORD

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|-------------------------------|
| 1 | .4 | 101 | EBASCO ENTRANCE |
| 2 | 1.1 | 116 | HOOKER CHEMICAL SUBST. |
| 3 | 1.3 | 132 | WITCO EMPLOYEES LOT |
| 4 | 1.8 | 160 | LA3142&LA3127 |
| 5 | 1.4 | 183 | TEXACO VALVE STATION |
| 6 | 1.2 | 202 | STEEL FENCE (GATE 8) |
| 7 | 1.2 | 226 | STEEL GATE POST(GATE 9) |
| 8 | 1.3 | 248 | 2.3mi.W.OF LA3127&3142 |
| 9 | 1.9 | 265 | LA3127&3141(RD.SIGN) |
| 10 | 4.2 | 186 | PARISH BOUNDRY |
| 11 | 4.4 | 315 | GOLD MINE PLANTATION |
| 12 | 4.1 | 328 | 1mi.E.OF GOLD MINE PLANT. |
| 13 | .8 | 309 | .6mi.E.OFLA18&3141 |
| 14 | .9 | 273 | KILLONA ELEMENTARY SCH. |
| 15 | .8 | 292 | .3 mi.N.OFKILLONA SCH. |
| 16 | .5 | 335 | WATERFORD 1&2 INTAKE |
| 17 | 4.3 | 120 | ST.CHARLES COURT HOUSE |
| 18 | 3.5 | 145 | S.SIDE OF LA3160&3127 |
| 19 | 8.1 | 153 | HANNVILLE HIGH SCH. |
| 20 | 8.1 | 133 | LULING LP&L DISTRICT OFFICE |
| 21 | 6.7 | 116 | DESTREHAN HIGH SCH. |
| 22 | 4.3 | 95 | GOOD HOPE |
| 23 | 2.6 | 86 | SHELL CHEMICAL NARCO PLANT |
| 24 | 4.2 | 66 | NARCO LINES RECREATION PARK |
| 25 | 3.5 | 37 | W. BANK BONNET CARRE SPILLWAY |
| 26 | 3.8 | 23 | DOT WEIGH STATION |
| 27 | 4.9 | 350 | TWIN OAKS NURSING HOME |
| 28 | 5.0 | 335 | MILESVILLE SCH. |
| 29 | 2.8 | 6 | BAYOU STEEL PLANT |
| 30 | 1.1 | 356 | LITTLE GYPSY PLANT |
| 31 | .8 | 15 | LA628 SECURITY FENCE |
| 32 | .8 | 40 | LITTLE GYPSY FLT.WATER INTAKE |
| 33 | 1.1 | 69 | MONTZ PARK |
| 34 | 15.0 | 292 | US61&LA641 |
| 35 | 27.0 | 282 | SUNSHINE BRIDGE |
| 36 | 21.0 | 268 | ST.JAMES POST OFFICE |

NRC TLD DOSES FOR WATERFORD AREA
(mR per 90 days)



WATTS BAR
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870917-880127 133 DAYS
 FIELD TIME 100 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE(mR) | | NET EXPOSURE RATE | | | |
|--------------------------------|-------------------|---------------|------------------------------|-----------|-------------------|---------------|-----|--|
| | AZIMUTH (deg.) | DIST (mi.) | + - | Rdm; Tot. | mR/Std. Dtr. | + - Rdm; Tot. | | |
| 001 | 337 | 0.9 | 21.5 | +- .6 | 3.2 | 14.0 +- .7 | 6.2 | |
| 002 | 314 | 2.1 | 21.3 | +- .6 | 3.2 | 13.7 +- .7 | 6.2 | |
| 003 | 297 | 1.9 | 22.4 | +- .7 | 3.4 | 14.0 +- .7 | 6.3 | |
| 004 | 272 | 2.0 | 23.0 | +- .7 | 3.5 | 15.3 +- .7 | 6.3 | |
| 005 | 251 | 1.9 | 22.5 | +- .7 | 3.4 | 14.0 +- .7 | 6.3 | |
| 006 | 235 | 1.0 | MISSING OR DAMAGED DOSIMETER | | | | | |
| 007 | 230 | 3.0 | 24.7 | +- .7 | 3.7 | 16.0 +- .8 | 6.4 | |
| 008 | 200 | 3.6 | 24.3 | +- .7 | 3.5 | 16.4 +- .8 | 6.4 | |
| 009 | 249 | 4.2 | 21.1 | +- .6 | 3.2 | 13.5 +- .7 | 6.2 | |
| 010 | 266 | 3.1 | 21.6 | +- .6 | 3.2 | 14.0 +- .7 | 6.2 | |
| 011 | 289 | 3.3 | 20.3 | +- .6 | 3.0 | 12.0 +- .7 | 6.0 | |
| 012 | 310 | 4.7 | 20.0 | +- .6 | 3.0 | 12.0 +- .7 | 6.1 | |
| 013 | 337 | 3.6 | 17.9 | +- .5 | 2.7 | 10.0 +- .6 | 6.0 | |
| 014 | 330 | 7.0 | 21.0 | +- .6 | 3.2 | 13.0 +- .7 | 6.0 | |
| 015 | 350 | 4.7 | 25.2 | +- .8 | 3.5 | 17.0 +- .8 | 6.5 | |
| 016 | 7 | 1.1 | 25.7 | +- .8 | 3.6 | 17.0 +- .8 | 6.5 | |
| 017 | 23 | 1.6 | 19.1 | +- .6 | 3.0 | 11.0 +- .6 | 6.0 | |
| 018 | 41 | 2.0 | 21.7 | +- .6 | 3.2 | 14.0 +- .7 | 6.1 | |
| 019 | 69 | 1.0 | 25.7 | +- .8 | 3.6 | 17.0 +- .8 | 6.5 | |
| 020 | 89 | 1.2 | 26.0 | +- .8 | 3.6 | 18.0 +- .8 | 6.5 | |
| 021 | 114 | 1.1 | 20.5 | +- .6 | 3.1 | 12.0 +- .7 | 6.0 | |
| 022 | 141 | 1.0 | 25.0 | +- .7 | 3.5 | 17.0 +- .8 | 6.5 | |
| 023 | 163 | 1.1 | 29.0 | +- .9 | 4.4 | 20.0 +- .8 | 6.4 | |
| 024 | 187 | 1.1 | 24.0 | +- .7 | 3.4 | 16.0 +- .7 | 6.4 | |
| 025 | 203 | 1.2 | 26.0 | +- .8 | 3.6 | 18.0 +- .8 | 6.5 | |
| 026 | 184 | 5.9 | 23.2 | +- .7 | 3.5 | 15.0 +- .7 | 6.5 | |
| 027 | 176 | 4.5 | 21.5 | +- .6 | 3.2 | 14.0 +- .7 | 6.5 | |
| 028 | 161 | 3.5 | 20.0 | +- .6 | 3.1 | 13.0 +- .7 | 6.5 | |
| 029 | 144 | 3.0 | 24.2 | +- .7 | 3.5 | 16.0 +- .7 | 6.4 | |
| 030 | 117 | 3.1 | 20.7 | +- .6 | 3.1 | 13.0 +- .7 | 6.4 | |
| 031 | 97 | 4.0 | 21.0 | +- .6 | 3.2 | 14.0 +- .7 | 6.4 | |
| 032 | 76 | 4.1 | 19.1 | +- .6 | 3.0 | 11.0 +- .6 | 6.4 | |
| 033 | 32 | 4.1 | 21.4 | +- .6 | 3.2 | 13.0 +- .7 | 6.4 | |
| 034 | 36 | 4.7 | 18.0 | +- .5 | 2.7 | 10.0 +- .6 | 6.4 | |
| 035 | 330 | 19' | 20.4 | +- .6 | 3.1 | 13.0 +- .7 | 6.4 | |
| 036 | 330 | 19' | 20.0 | +- .6 | 3.0 | 12.0 +- .7 | 6.4 | |
| 037 | 330 | 19' | 23.1 | +- .7 | 3.5 | 15.0 +- .7 | 6.4 | |
| TRANSIT DOSE = 6.0 +- .4 ; 6.1 | | | | | | | | |

WATTS BAR
FOR THE PERIOD 870917-880127

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 17.5 \pm .3 | 2 |
| 11.25-33.75 (NNE) | 12.8 \pm 1.5 | 2 |
| 33.75-56.25 (NE) | 12.4 \pm 2.3 | 2 |
| 56.25-78.75 (ENE) | 14.8 \pm 4.2 | 2 |
| 78.75-101.25 (E) | 16.2 \pm 2.9 | 2 |
| 101.25-123.75 (ESE) | 13.1 \pm .1 | 2 |
| 123.75-146.25 (SE) | 16.7 \pm .5 | 2 |
| 146.25-168.75 (SSE) | 17.1 \pm 5.4 | 2 |
| 168.75-191.25 (S) | 15.2 \pm 1.1 | 3 |
| 191.25-213.75 (SSW) | 17.2 \pm 1.1 | 2 |
| 213.75-236.25 (SW) | 16.8 \pm 0.0 | 1 |
| 236.25-258.75 (WSW) | 14.2 \pm .9 | 2 |
| 258.75-281.25 (W) | 14.7 \pm .9 | 2 |
| 281.25-303.75 (WNW) | 13.8 \pm 1.4 | 2 |
| 303.75-326.25 (NW) | 13.1 \pm .8 | 2 |
| 326.25-348.75 (NNW) | 12.7 \pm 1.8 | 3 |
| | | |

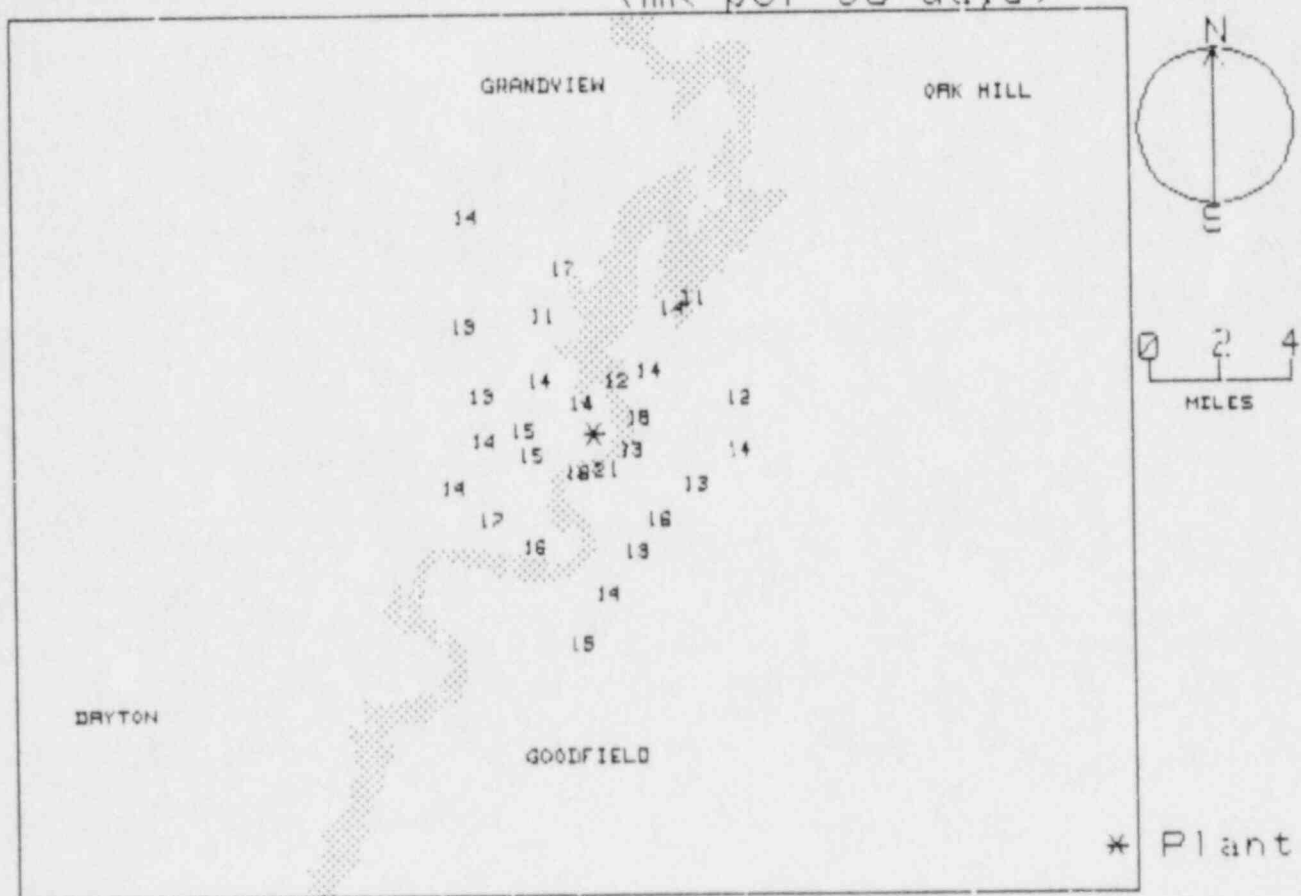
| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 16.1 \pm 2.5 | 13 |
| 2-5 | 13.9 \pm 1.9 | 18 |
| >5 | 14.5 \pm 1.4 | 2 |
| UPWIND CONTROL DATA | 13.6 \pm 1.5 | 3 |

WATTS BAR

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|--|
| 1 | .9 | 337 | EAST OF PLANT ACCESS RD. |
| 2 | 2.1 | 314 | HWY. 68 & OLD DIXIE HWY. |
| 3 | 1.9 | 297 | OLD DIXIE HWY. (HOUSE #286) |
| 4 | 2.0 | 272 | OLD DIXIE HWY. (NEAR BRIDGE) |
| 5 | 1.9 | 251 | NEAR YELLOW CR. BAPTIST CHURCH |
| 6 | 1.8 | 235 | END OF ROAD PAST YELLOW CR. BAPTIST CHURCH |
| 7 | 3.8 | 230 | INTERSECTION - BREEDENTON FERRY RD. |
| 8 | 3.6 | 208 | BOGLES CHAPEL |
| 9 | 4.2 | 249 | INTERSECTION - OLD DIXIE HWY. |
| 10 | 3.1 | 266 | INTERSECTION - OLD DIXIE HWY. |
| 11 | 3.3 | 289 | J&H PALLET CO. |
| 12 | 4.7 | 310 | HWY. 68 & WOLFE CR. RD. |
| 13 | 3.6 | 337 | WOLFE CR. RD. INTERSECTION |
| 14 | 7.0 | 330 | WATER TREATMENT PLANT |
| 15 | 4.7 | 350 | WELSH RESIDENCE |
| 16 | 1.1 | 7 | WATTS BAR DAM SUBSTATION |
| 17 | 1.6 | 23 | PEACH PARKING AREA |
| 18 | 2.3 | 41 | NEAR MEIGS CO. TRASH COMPACTOR |
| 19 | 1.3 | 69 | RIVER RD. NEAR CHICKEN SHED |
| 20 | 1.2 | 89 | HIGH TENSION TOWER |
| 21 | 1.1 | 114 | RIVER RD. BURNED-OUT HOUSE |
| 22 | 1.0 | 141 | RIVER RD. RED BRICK HOUSE |
| 23 | 1.1 | 163 | RIVER RD. NEAR STONEWALL |
| 24 | 1.1 | 187 | CAPTAIN JOHN'S RESTAURANT |
| 25 | 1.2 | 203 | NEAR BOAT DOCK OFF RIVER RD. |
| 26 | 5.9 | 184 | ARRANT RD. & RIVER RD. |
| 27 | 4.5 | 176 | EAVES FERRY RD. & HWY. 58 |
| 28 | 3.5 | 161 | HOUSE #584 |
| 29 | 3.0 | 144 | FAIRVIEW SCHOOL |
| 30 | 3.1 | 117 | BMLHT 771/772 |
| 31 | 4.0 | 97 | FEZZELL RD. & HWY. 58 |
| 32 | 4.1 | 76 | HICKORY FLAT CHURCH |
| 33 | 4.1 | 32 | NEAR BIVENS LAKESIDE MARKET |
| 34 | 4.7 | 36 | SAM'S BOAT DOCK |
| 35 | 19.0 | 338 | NEAR EXXON STATION - GEN'L STORE |
| 36 | 19.0 | 338 | PARKING AREA OFF HWY. 68 |
| 37 | 19.0 | 338 | OFF HWY. 68 AT RED BARN WITH SILO |

NRC TLD DOSES FOR WATTS BAR AREA
(mR per 90 days)



WOLF CR.
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870915-880128 136 DAYS
 FIELD TIME 96 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|----------------|-------------------|---------------|------------------------|--------|-------------------|-------------|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | Tot. | mR/Std. Qtr. | + Rdm; Tot. |
| 001 | 316 | 2.9 | 27.0 | +- .8 | 20.4 | +- .8 |
| 002 | 330 | 1.8 | 24.2 | +- .7 | 17.8 | +- .6 |
| 003 | 360 | 2.8 | 24.5 | +- .7 | 18.1 | +- .6 |
| 004 | 355 | 1.6 | 25.3 | +- .8 | 18.8 | +- .6 |
| 005 | 031 | 1.8 | 24.6 | +- .7 | 18.1 | +- .6 |
| 006 | 47 | 2. | 25.1 | +- .8 | 18.6 | +- .6 |
| 007 | 70 | 1.6 | 23.9 | +- .7 | 17.5 | +- .6 |
| 008 | 90 | 1.7 | 25.2 | +- .8 | 18.7 | +- .6 |
| 009 | 111 | 2.4 | 27.0 | +- .8 | 20.4 | +- .6 |
| 010 | 137 | 2.5 | 24.7 | +- .7 | 18.3 | +- .6 |
| 011 | 157 | 3.4 | 26.0 | +- .8 | 20.0 | +- .6 |
| 012 | 184 | 3.3 | 25.9 | +- .8 | 19.8 | +- .6 |
| 013 | 213 | 2.9 | 25.9 | +- .8 | 19.4 | +- .6 |
| 014 | 233 | 2.4 | 28.0 | +- .8 | 21.3 | +- .6 |
| 015 | 248 | 2.2 | 25.0 | +- .7 | 19.0 | +- .6 |
| 016 | 270 | 2.1 | 24.9 | +- .7 | 18.4 | +- .6 |
| 017 | 270 | 3.4 | 22.6 | +- .7 | 16.0 | +- .6 |
| 018 | 263 | 4.2 | 28.6 | +- .9 | 21.9 | +- .6 |
| 019 | 257 | 5.0 | 26.2 | +- .8 | 19.7 | +- .6 |
| 020 | 200 | 3.9 | 25.9 | +- .8 | 18.4 | +- .6 |
| 021 | 298 | 3.9 | 26.3 | +- .8 | 19.7 | +- .6 |
| 022 | 019 | 5.0 | MIS | ING OR | DAMAGED | DOSE |
| 023 | 032 | 5.0 | 27.5 | +- .8 | 20.9 | +- .6 |
| 024 | 19 | 3.9 | 25.1 | +- .8 | 18.8 | +- .6 |
| 025 | 05 | 4.4 | 21.1 | +- .7 | 15.8 | +- .6 |
| 026 | 67 | 4.3 | 25.3 | +- .8 | 18.8 | +- .6 |
| 027 | 00 | 4.1 | 25.0 | +- .8 | 18.8 | +- .6 |
| 028 | 110 | 4.5 | 26.0 | +- .8 | 19.8 | +- .6 |
| 029 | 120 | 4.4 | 28.1 | +- .9 | 21.4 | +- .6 |
| 030 | 112 | 16.4 | 22.4 | +- .7 | 15.6 | +- .6 |
| 031 | 127 | 9.4 | 22.1 | +- .7 | 15.8 | +- .6 |
| 032 | 162 | 11.7 | 24.3 | +- .8 | 17.9 | +- .6 |
| 033 | 153 | 5.3 | 22.6 | +- .7 | 14.8 | +- .6 |
| 034 | 174 | 4.7 | 22.6 | +- .7 | 14.8 | +- .6 |
| 035 | 197 | 5.3 | 22.0 | +- .7 | 14.8 | +- .6 |
| 036 | 204 | 4.0 | 22.3 | +- .7 | 14.8 | +- .6 |
| 037 | 200 | 14.0 | 22.0 | +- .7 | 14.8 | +- .6 |
| 038 | 200 | 6.5 | 22.4 | +- .7 | 14.8 | +- .6 |
| 039 | 200 | 10.5 | 22.5 | +- .7 | 14.8 | +- .6 |
| 040 | 200 | 15.7 | 22.3 | +- .7 | 14.8 | +- .6 |
| 041 | 200 | 6.7 | 22.5 | +- .7 | 14.8 | +- .6 |
| 042 | 34 | 13.7 | 22.5 | +- .7 | 14.8 | +- .6 |
| 043 | 55 | 13.7 | 22.5 | +- .7 | 14.8 | +- .6 |
| 044 | 0 | 0 | 22.5 | +- .7 | 14.8 | +- .6 |
| 045 | 015 | 7.0 | 22.5 | +- .7 | 14.8 | +- .6 |
| 046 | 041 | 7.0 | 22.5 | +- .7 | 14.8 | +- .6 |
| 047 | 05 | 1.1 | 22.5 | +- .7 | 14.8 | +- .6 |
| TRANSIT DOSE = | 5.2 | +- .4 | 22.5 | +- .7 | 14.8 | +- .6 |

WOLF CR.
FOR THE PERIOD 870915-880128

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 19.3 \pm 1.0 | 4 |
| 11.25-33.75 (NNE) | 18.8 \pm .8 | 3 |
| 33.75-56.25 (NE) | 16.8 \pm 2.6 | 2 |
| 56.25-78.75 (ENE) | 18.2 \pm .9 | 2 |
| 78.75-101.25 (E) | 18.6 \pm .1 | 2 |
| 101.25-123.75 (ESE) | 18.9 \pm 2.5 | 3 |
| 123.75-146.25 (SE) | 18.5 \pm 2.8 | 3 |
| 146.25-168.75 (SSE) | 19.2 \pm 1.2 | 3 |
| 168.75-191.25 (S) | 19.9 \pm .8 | 2 |
| 191.25-213.75 (SSW) | 19.8 \pm .6 | 2 |
| 213.75-236.25 (SW) | 18.2 \pm 3.5 | 3 |
| 236.25-258.75 (WSW) | 19.6 \pm .3 | 3 |
| 258.75-281.25 (W) | 18.9 \pm 2.0 | 5 |
| 281.25-303.75 (WNW) | 18.5 \pm 1.2 | 3 |
| 303.75-326.25 (NW) | 21.1 \pm 1.0 | 2 |
| 326.25-348.75 (NNW) | 19.4 \pm 1.4 | 4 |
| | | |

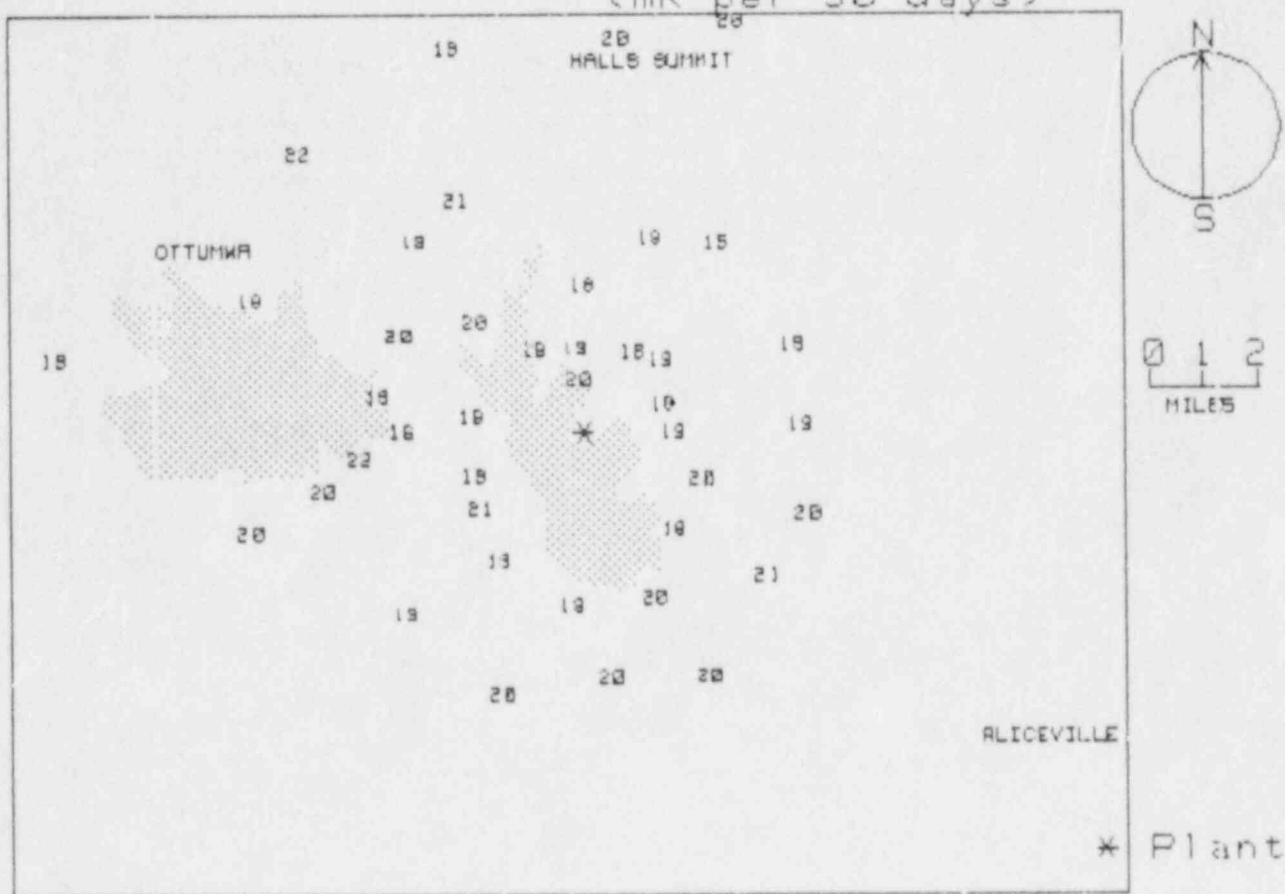
| DISTANCE (mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|--------------------------------|---|------------|
| 0-2 | 18.5 \pm .9 | 7 |
| 2-5 | 19.4 \pm 1.6 | 24 |
| >5 | 18.8 \pm 2.0 | 15 |
| UPWIND CONTROL DATA | NO DATA | NO DATA |

WOLF CR.

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|-------------------------------------|
| 1 | 2.9 | 316 | EOC ON TELEPHONE POLE |
| 2 | 1.8 | 330 | NORTH GATEPOST |
| 3 | 2.8 | 360 | WITH LICENSEE AIR SAMPLERS |
| 4 | 1.6 | 355 | NEAREST RESIDENCE |
| 5 | 1.8 | 31 | 2ND POLE EAST(N. SIDE OF ROAD) |
| 6 | 2.0 | 47 | 2ND POLE EAST(S. SIDE OF ROAD) |
| 7 | 1.6 | 70 | CORNER FENCEPOST(W. SIDE OF ROAD) |
| 8 | 1.7 | 90 | GIFFORD'S RESIDENCE |
| 9 | 2.4 | 111 | WHITE HOUSE YARD |
| 10 | 2.5 | 137 | CO-LOCATED WITH KS AND KG&E |
| 11 | 3.4 | 157 | LOGAN CEMETARY FENCEPOST |
| 12 | 3.3 | 184 | ON ROAD TO DAM |
| 13 | 2.9 | 213 | CO-LOCATED WITH KS ON METER POLE |
| 14 | 2.4 | 233 | CO-LOCATED WITH KG&E NEAR WITHERS |
| 15 | 2.2 | 248 | FENCEPOST SW CORNER |
| 16 | 2.1 | 278 | KG&E PROPERTY FENCEPOST |
| 17 | 3.4 | 270 | RIVERSIDE EAST WORK AREA |
| 18 | 4.2 | 263 | RIVERSIDE WEST |
| 19 | 5.0 | 257 | POLE ON SW CORNER |
| 20 | 3.9 | 280 | DAM SITE PUBLIC USE AREA |
| 21 | 3.9 | 298 | NW CORNER OF NEW STRAWN |
| 22 | 4.8 | 319 | SE CNR OF INTRST (STEEL POST) |
| 23 | 5.0 | 332 | NE CORNER OF INTERSECTION |
| 24 | 3.9 | 19 | NW CORNER OF INTERSECTION |
| 25 | 4.4 | 35 | NE CORNER OF INTERSECTION |
| 26 | 4.3 | 67 | CORNER POST SW OF T-INTERSECTION |
| 27 | 4.1 | 88 | SE OF INTERSECTION |
| 28 | 4.5 | 110 | CO-LOCATED WITH KG&E |
| 29 | 4.4 | 128 | N. SIDE OF FAS 10 |
| 30 | 16.0 | 112 | WESTPHALIA-NEAR SCHOOL |
| 31 | 9.4 | 127 | ALICEVILLE |
| 32 | 11.0 | 162 | LEROY |
| 33 | 5.2 | 153 | POLE ON N. SIDE OF ROAD |
| 34 | 4.7 | 174 | SW CORNER OF INTERSECTION |
| 35 | 5.2 | 197 | POLE WEST OF INTERSECTION |
| 36 | 4.8 | 224 | BURLINGTON(COUNTY COURT HOUSE) |
| 37 | 14.0 | 220 | GRIDLEY CORNER(1ST AND MAIN) |
| 38 | 6.5 | 253 | OTTER CREEK CAMPGROUND |
| 39 | 10.0 | 278 | S. SIDE OF INTERSECTION |
| 40 | 15.0 | 285 | HARTFORD (CO-LOCATED W KS AND KG&E) |
| 41 | 6.7 | 292 | TRANSFORMER POLE(N. SIDE OF ROAD) |
| 42 | 13.0 | 345 | BETO JUNCTION W OF HWAY 75 |
| 43 | 7.5 | 5 | HALL'S SUMMIT |
| 44 | 8.3 | 20 | HAVERLY ON POLE W. OF SUNSET MANOR |
| 45 | 7.5 | 315 | SE CORNER OF T-INTERSECTION |
| 46 | 7.7 | 341 | FAS 1133 TO HALL'S SUMMIT |
| 47 | 1.0 | 355 | 1ST POLE N. OF FENCE ON ACCESS ROAD |

NRC TLD DOSES FOR WOLF CREEK AREA (mR per 90 days)



YANKEE ROWE
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870918-880213 149 DAYS
 FIELD TIME 109 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | NET EXPOSURE RATE | |
|----------------|-------------------|---------------|------------------------|------|-------------------|-------------|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm | Tot. | mR/Std. Qtr. | + Rdm; Tot. |
| 001 | 0 | .8 | 38 | .5 | 20 | + |
| 002 | 265 | 14. | 26 | 1 | 16 | + |
| 003 | 137 | 12. | 26 | 1 | 16 | + |
| 005 | 85 | 22 | 44 | 7 | 25 | + |
| 006 | 110 | 22 | 44 | 7 | 25 | + |
| 007 | 137 | 22 | 44 | 7 | 25 | + |
| 008 | 145 | 22 | 44 | 7 | 25 | + |
| 009 | 145 | 22 | 44 | 7 | 25 | + |
| 010 | 145 | 22 | 44 | 7 | 25 | + |
| 011 | 145 | 22 | 44 | 7 | 25 | + |
| 012 | 145 | 22 | 44 | 7 | 25 | + |
| 013 | 145 | 22 | 44 | 7 | 25 | + |
| 014 | 145 | 22 | 44 | 7 | 25 | + |
| 015 | 145 | 22 | 44 | 7 | 25 | + |
| 016 | 145 | 22 | 44 | 7 | 25 | + |
| 017 | 145 | 22 | 44 | 7 | 25 | + |
| 018 | 145 | 22 | 44 | 7 | 25 | + |
| 019 | 145 | 22 | 44 | 7 | 25 | + |
| 020 | 145 | 22 | 44 | 7 | 25 | + |
| 021 | 145 | 22 | 44 | 7 | 25 | + |
| 022 | 145 | 22 | 44 | 7 | 25 | + |
| 023 | 145 | 22 | 44 | 7 | 25 | + |
| 024 | 145 | 22 | 44 | 7 | 25 | + |
| 025 | 145 | 22 | 44 | 7 | 25 | + |
| 026 | 145 | 22 | 44 | 7 | 25 | + |
| 027 | 145 | 22 | 44 | 7 | 25 | + |
| 028 | 145 | 22 | 44 | 7 | 25 | + |
| 029 | 145 | 22 | 44 | 7 | 25 | + |
| 030 | 145 | 22 | 44 | 7 | 25 | + |
| 031 | 145 | 22 | 44 | 7 | 25 | + |
| 032 | 145 | 22 | 44 | 7 | 25 | + |
| 033 | 145 | 22 | 44 | 7 | 25 | + |
| 034 | 145 | 22 | 44 | 7 | 25 | + |
| 035 | 145 | 22 | 44 | 7 | 25 | + |
| 036 | 145 | 22 | 44 | 7 | 25 | + |
| 037 | 145 | 22 | 44 | 7 | 25 | + |
| 038 | 145 | 22 | 44 | 7 | 25 | + |
| 039 | 145 | 22 | 44 | 7 | 25 | + |
| 040 | 145 | 22 | 44 | 7 | 25 | + |
| TRANSIT DOSE | | | | | | |

OR DAMAGE DOSE

YANKEE ROWE
FOR THE PERIOD 870918-880213

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 19.7 \pm .8 | 2 |
| 11.25-33.75 (NNE) | 15.4 \pm 0.0 | 1 |
| 33.75-56.25 (NE) | 17.2 \pm 1.7 | 3 |
| 56.25-78.75 (ENE) | 16.2 \pm 0.0 | 1 |
| 78.75-101.25 (E) | 15.2 \pm .5 | 2 |
| 101.25-123.75 (ESE) | 14.8 \pm .4 | 2 |
| 123.75-146.25 (SE) | 16.1 \pm 1.4 | 3 |
| 146.25-168.75 (SSE) | 18.2 \pm 0.0 | 1 |
| 168.75-191.25 (S) | 17.1 \pm 1.0 | 2 |
| 191.25-213.75 (SSW) | 17.2 \pm 0.0 | 1 |
| 213.75-236.25 (SW) | 19.4 \pm 1.5 | 2 |
| 236.25-258.75 (WSW) | 19.9 \pm 0.0 | 1 |
| 258.75-281.25 (W) | 16.8 \pm .3 | 3 |
| 281.25-303.75 (WNW) | 18.9 \pm 0.0 | 1 |
| 303.75-326.25 (NW) | 19.7 \pm 0.0 | 1 |
| 326.25-348.75 (NNW) | 19.1 \pm .1 | 2 |
| | | |

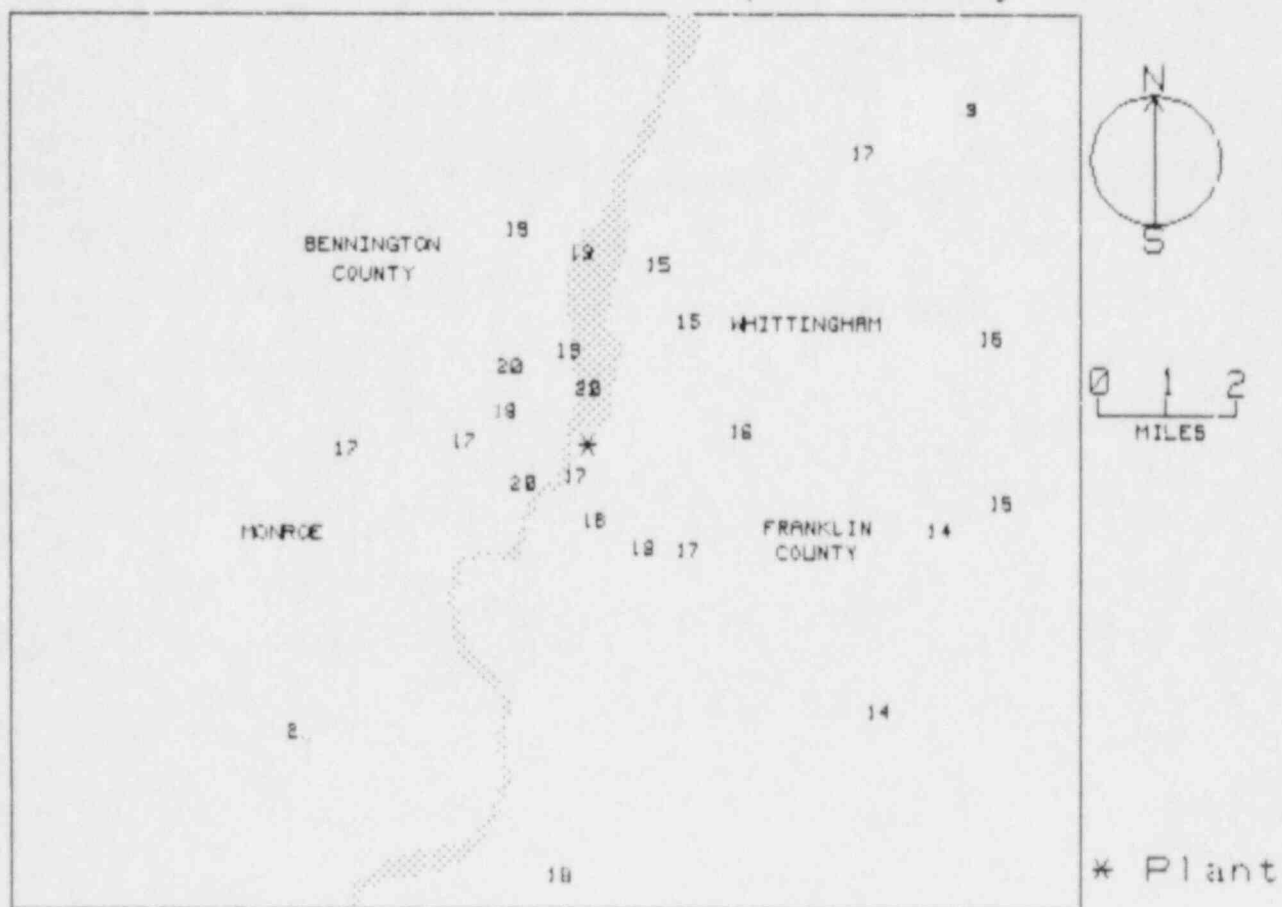
| DISTANCE (m) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 18.5 \pm 1.1 | 10 |
| 2-5 | 16.8 \pm 1.7 | 8 |
| >5 | 16.8 \pm 1.9 | 10 |
| UPWIND CONTROL DATA | 17.8 \pm 2.1 | 2 |

YANKEE ROWE

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|------------------------------|
| 1 | .8 | 0 | VT/MASS LINE-READSBORO ROAD |
| 2 | 14.0 | 265 | WILLIAMSTOWN SUBSTATION |
| 3 | 12.0 | 137 | CREAMERY AVE. (BUCKLAND) |
| 5 | 2.2 | 85 | WEST OF LESHURES ROAD |
| 6 | 2.6 | 118 | LESHURES & FORD HILL ROAD |
| 7 | 2.1 | 137 | FORD HILL & MIDDLETOWN ROADS |
| 8 | 1.7 | 153 | E. MILES RESIDENCE |
| 9 | 1.1 | 176 | MONROE HILL ROAD |
| 10 | .5 | 203 | MONROE HILL ROAD |
| 11 | .6 | 219 | MONROE HILL ROAD |
| 12 | 1.1 | 239 | MONROE BRIDGE |
| 13 | 1.8 | 272 | MAIN ROAD & DAVIS ROAD |
| 14 | 1.3 | 292 | MAIN ROAD |
| 15 | 1.6 | 315 | MAIN ROAD |
| 16 | 1.4 | 348 | BOSLEY HILL ROAD |
| 17 | 2.8 | 358 | Vt. Rt. 100 |
| 18 | 2.8 | 21 | Vt. Rt. 100 & POTTERS ROAD |
| 19 | 5.8 | 43 | Vt. Rt. 100 |
| 20 | 6.0 | 75 | Vt. Rt. 8A |
| 21 | 6.0 | 98 | MASS. Rt. 8A |
| 22 | 5.2 | 104 | MASS. Rt. 8A |
| 23 | 5.7 | 133 | MASS. Rt. 8A & DELL ROAD |
| 24 | 7.5 | 157 | MASS. Rts. 8A & 2 |
| 25 | 6.3 | 184 | COLD RIVER STATE PARK |
| 27 | 5.9 | 225 | Rt. 2 & CHURCH ROAD |
| 29 | 3.5 | 269 | NORTH ROAD |
| 32 | 3.3 | 342 | READSBORO FIREHOUSE |
| 34 | 7.3 | 48 | JACKSONVILLE |
| 35 | 2.3 | 39 | POTTERS ROAD |
| 47 | 9.6 | 260 | NORTH ADAMS |
| 48 | 9.0 | 261 | NORTH ADAMS HOSPITAL |

NRC TLD DOSES FOR YANKEE ROWE AREA
 (mR per 90 days)



ZION
 TLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 870914-880202 142 DAYS
 FIELD TIME 106 DAYS

| NRC STATION | LOCATION | | GROSS EXPOSURE (mR) | | | NET EXPOSURE RATE | | | | |
|----------------|-------------------|---------------|---------------------|----|-----------|-------------------|-------------|---|-----------|-----|
| | AZIMUTH (deg.) | DIST (mi.) | + Rdm; Tot. | ± | Std. Dev. | mR/Std. Qtr. | + Rdm; Tot. | ± | Std. Dev. | |
| 001 | 290 | 0.8 | 20.7 | ± | .6 | 3.1 | 15.4 | ± | .6 | 5.1 |
| 002 | 192 | 1.0 | 16.3 | ± | .5 | 2.4 | 11.7 | ± | .5 | 4.9 |
| 003 | 187 | 1.5 | 19.9 | ± | .6 | 3.0 | 14.8 | ± | .6 | 5.1 |
| 004 | 227 | 2.4 | 22.2 | ± | .7 | 3.3 | 16.7 | ± | .6 | 5.2 |
| 005 | 257 | 1.8 | 23.5 | ± | .7 | 3.5 | 17.8 | ± | .7 | 5.3 |
| 006 | 264 | 1.2 | 22.1 | ± | .7 | 3.3 | 16.6 | ± | .6 | 5.2 |
| 007 | 287 | 1.6 | 24.0 | ± | .7 | 3.6 | 18.3 | ± | .7 | 5.4 |
| 008 | 320 | 1.8 | 19.8 | ± | .6 | 2.9 | 14.8 | ± | .6 | 5.0 |
| 009 | 343 | 2.6 | 20.4 | ± | .6 | 3.1 | 15.2 | ± | .6 | 5.1 |
| 010 | 356 | 4.5 | 19.5 | ± | .6 | 2.9 | 14.4 | ± | .6 | 5.1 |
| 011 | 337 | 4.5 | 22.5 | ± | .7 | 3.4 | 16.9 | ± | .6 | 5.2 |
| 012 | 318 | 4.8 | 24.6 | ± | .7 | 3.7 | 18.8 | ± | .7 | 5.4 |
| 013 | 293 | 3.5 | 24.9 | ± | .7 | 3.7 | 19.8 | ± | .7 | 5.4 |
| 014 | 280 | 4.5 | 25.1 | ± | .8 | 3.8 | 19.1 | ± | .7 | 5.4 |
| 015 | 239 | 3.2 | 23.8 | ± | .7 | 3.6 | 17.4 | ± | .7 | 5.3 |
| 016 | 227 | 3.5 | 23.5 | ± | .7 | 3.6 | 17.8 | ± | .7 | 5.3 |
| 017 | 210 | 4.5 | 20.8 | ± | .6 | 3.1 | 13.5 | ± | .6 | 5.1 |
| 018 | 206 | 2.7 | 20.5 | ± | .6 | 3.1 | 15.3 | ± | .6 | 5.1 |
| 019 | 342 | 2.7 | 23.8 | ± | .7 | 3.6 | 17.4 | ± | .7 | 5.3 |
| 020 | 197 | 1.5 | 26.6 | ± | .8 | 4.0 | 20.4 | ± | .7 | 5.6 |
| 021 | 352 | 7.9 | 21.9 | ± | .7 | 3.3 | 16.5 | ± | .6 | 5.2 |
| 022 | 348 | 8.0 | MISSING | OR | DAMAGED | DOSIMETER | | | | |
| 023 | 336 | 8.5 | MISSING | OR | DAMAGED | DOSIMETER | | | | |
| 024 | 314 | 5.8 | 22.9 | ± | .7 | 3.4 | 17.8 | ± | .6 | 5.3 |
| 025 | 228 | 6.3 | 23.8 | ± | .7 | 3.6 | 17.4 | ± | .7 | 5.3 |
| 026 | 195 | 8.8 | 22.8 | ± | .7 | 3.6 | 16.6 | ± | .6 | 5.2 |
| 028 | 197 | 1.5 | 24.9 | ± | .7 | 3.7 | 19.8 | ± | .7 | 5.4 |
| 030 | 320 | 8.8 | 22.2 | ± | .7 | 3.3 | 16.7 | ± | .6 | 5.2 |
| 031 | 229 | 8.8 | 23.8 | ± | .7 | 3.6 | 18.1 | ± | .7 | 5.3 |
| 032 | 193 | 1.4 | 25.5 | ± | .8 | 4.0 | 19.5 | ± | .7 | 5.6 |
| TRANSIT DOSE : | | | 2.5 | ± | .3 | 5.2 | | | | |

ZION
FOR THE PERIOD 870914-880202

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

| AZIMUTH (deg.) | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|---------------------|---|------------|
| 348.75-11.25 (N) | 15.4 \pm 1.5 | 2 |
| 11.25-33.75 (NNE) | NO DATA+-NO DATA | 0 |
| 33.75-56.25 (NE) | NO DATA+-NO DATA | 0 |
| 56.25-78.75 (ENE) | NO DATA+-NO DATA | 0 |
| 78.75-101.25 (E) | NO DATA+-NO DATA | 0 |
| 101.25-123.75 (ESE) | NO DATA+-NO DATA | 0 |
| 123.75-146.25 (SE) | NO DATA+-NO DATA | 0 |
| 146.25-168.75 (SSE) | NO DATA+-NO DATA | 0 |
| 168.75-191.25 (S) | 14.8 \pm 0.0 | 1 |
| 191.25-213.75 (SSW) | 14.8 \pm 2.1 | 4 |
| 213.75-236.25 (SW) | 17.5 \pm .6 | 4 |
| 236.25-258.75 (WSW) | 17.6 \pm .3 | 2 |
| 258.75-281.25 (W) | 17.9 \pm 1.6 | 2 |
| 281.25-303.75 (WNW) | 17.6 \pm 1.9 | 3 |
| 303.75-326.25 (NW) | 16.7 \pm 2.0 | 4 |
| 326.25-348.75 (NNW) | 16.5 \pm 1.2 | 3 |
| | | |

| DISTANCE(mi) FROM THE REACTOR | AVER. EXPOSURE RATE (mR/Std.Qtr.) \pm Std.Dev. | # IN GROUP |
|-------------------------------|---|------------|
| 0-2 | 15.5 \pm 2.3 | 7 |
| 2-5 | 17.0 \pm 1.6 | 12 |
| >5 | 17.1 \pm .6 | 6 |
| UPWIND CONTROL DATA | 19.6 \pm .7 | 3 |

ZION

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING LOCATIONS

| STATION | DIST(mi.) | DIR | DESCRIPTION |
|---------|-----------|-----|-------------------------------------|
| 1 | .8 | 290 | SHILOH BLVD. NEAR RECYCLING CENTER |
| 2 | 1.0 | 192 | ILLINOIS BEACH STATE PARK |
| 3 | 1.5 | 187 | ILLINOIS BEACH STATE PARK |
| 4 | 2.4 | 227 | BEACH RD. & NORTH AVE. |
| 5 | 1.8 | 257 | ELMWOOD SCHOOL |
| 6 | 1.2 | 264 | CITY HALL |
| 7 | 1.6 | 287 | HIGH SCHOOL |
| 8 | 1.8 | 320 | 17TH & SHERIDAN RD. |
| 9 | 2.6 | 343 | WINTHROP HARBOR CITY GARAGE |
| 10 | 4.5 | 356 | 116TH ST. & LAKE |
| 11 | 4.5 | 337 | TOBIN - 116TH ST. & 28TH ST. |
| 12 | 4.0 | 310 | N. PRAIRIE SCHOOL |
| 13 | 3.5 | 293 | KENOSHA RD. & HWY. 173 |
| 14 | 4.5 | 280 | 21ST ST. & FOREST VIEW RD. |
| 15 | 3.2 | 239 | BEACH PARK SCHOOL |
| 16 | 3.5 | 227 | LAKE COUNTY BAPTIST SCHOOL |
| 17 | 4.5 | 210 | SUBSTAT. S OF GREENWOOD-SHERIDAN RD |
| 18 | 2.8 | 206 | YORK HOUSE RD. & SHERIDAN |
| 19 | 2.7 | 342 | LAKE COUNTY WATER TREATMENT PLANT |
| 20 | 15.2 | 197 | ILLINOIS STATE RT. 60 |
| 21 | 7.9 | 352 | SUBSTATION - 7TH AVE. & 80TH ST. |
| 22 | 8.3 | 348 | LINCOLN PK. (71ST. & 22ND) |
| 23 | 8.5 | 336 | 75TH ST. & COOPER RD. |
| 24 | 5.8 | 314 | GREENS BAY RD. & RT. 174 |
| 25 | 5.3 | 220 | RT. 131 & 132 |
| 26 | 8.0 | 195 | 12TH & GREENFIELD ST. |
| 28 | 15.0 | 197 | ILLINOIS STATE RT. 60 |
| 30 | 9.8 | 320 | PLEASANT PRAIRIE SCHOOL |
| 31 | 8.0 | 229 | WARREN TOWNSHIP HIGH SCHOOL |
| 32 | 14.0 | 193 | SANDERS RD OFF IL-60 NEAR JS-94 |

| | | | | | | | | | |
|--|--|-------|------|-------|------|-------|------|-------|------|
| <p>NRC FORM 336 (2-84) NRCM 1102, 3201, 3202</p> <p align="center">BIBLIOGRAPHIC DATA SHEET</p> <p>SEE INSTRUCTIONS ON THE REVERSE</p> | <p align="center">U.S. NUCLEAR REGULATORY COMMISSION</p> <p>1 REPORT NUMBER (Assigned by TIDC add Vol. No., if any.) NUREG-0837 Vol. 7, No. 4</p> | | | | | | | | |
| <p>2 TITLE AND SUBTITLE NRC TLD Direct Radiation Monitoring Network Progress Report October - December, 1987</p> | <p>3 LEAVE BLANK</p> | | | | | | | | |
| <p>5 AUTHOR(S) R. Struckmeyer, N. McNamara, L. Cohen</p> | <p>4 DATE REPORT COMPLETED</p> <table border="1"> <tr> <td>MONTH</td> <td>YEAR</td> </tr> <tr> <td align="center">March</td> <td align="center">1988</td> </tr> </table> <p>6 DATE REPORT ISSUED</p> <table border="1"> <tr> <td>MONTH</td> <td>YEAR</td> </tr> <tr> <td align="center">April</td> <td align="center">1988</td> </tr> </table> | MONTH | YEAR | March | 1988 | MONTH | YEAR | April | 1988 |
| MONTH | YEAR | | | | | | | | |
| March | 1988 | | | | | | | | |
| MONTH | YEAR | | | | | | | | |
| April | 1988 | | | | | | | | |
| <p>7 PERFORMING ORGANIZATION NAME AND MAILING ADDRESS (Include Zip Code) Region I U.S. Nuclear Regulatory Commission King of Prussia, PA 19406</p> | <p>8 PROJECT/TASK/WORK UNIT NUMBER</p> <p>9 FUND OR GRANT NUMBER</p> | | | | | | | | |
| <p>10 SPONSORING ORGANIZATION NAME AND MAILING ADDRESS (Include Zip Code) Same as 7. above</p> | <p>11 TYPE OF REPORT Quarterly</p> <p>12 PERIOD COVERED (Inclusive dates) October - December, 1987</p> | | | | | | | | |
| <p>12 SUPPLEMENTARY NOTES</p> | | | | | | | | | |
| <p>13 ABSTRACT (200 words or less) This report provides the status and results of the NRC Thermoluminescent Dosimeter (TLD) Direct Radiation Monitoring Network. It presents the radiation levels measured in the vicinity of NRC licensed facility sites throughout the country for the fourth quarter of 1987.</p> | | | | | | | | | |
| <p>14 DOCUMENT ANALYSIS - KEYWORDS/DESCRIPTORS Thermoluminescent Dosimeter (TLD) Direct Radiation Monitoring Network ambient radiation levels</p> <p>15 IDENTIFIERS/OPEN ENDED TERMS</p> | <p>15 AVAILABILITY STATEMENT Unlimited</p> <p>16 SECURITY CLASSIFICATION (This page) Unclassified (This report) Unclassified</p> <p>17 NUMBER OF PAGES</p> <p>18 PRICE</p> | | | | | | | | |

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