

YANKEE ATOMIC ELECTRIC COMPANY

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Suite 200, 19 Midstate Drive, Auburn, Massachusetts 01501

April 23, 2002
BYR 2002-026

United States Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

References: (a) License No. DPR-3 (Docket No. 50-29)

Subject: 2001 ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING
REPORT

Enclosed is the 2001 Annual Radiological Environmental Operating Report. This report summarizes the findings of the Radiological Environmental Monitoring Program (REMP) conducted by Yankee Atomic Electric Company (YAEC) in the vicinity of the Yankee Nuclear Power Station (YNPS) in Rowe, Massachusetts. This information is submitted in accordance with YNPS Defueled Technical Specification 6.8.2.a.

We trust this information is satisfactory; however, if you have any questions, please contact me at (978) 568-2302.

Very truly yours,

YANKEE ATOMIC ELECTRIC COMPANY

James A. Kay
Manager of Regulatory affairs

Enclosure

c: J. Hickman, USNRC, Project Manager
R. B. Bellamy, USNRC, Region I

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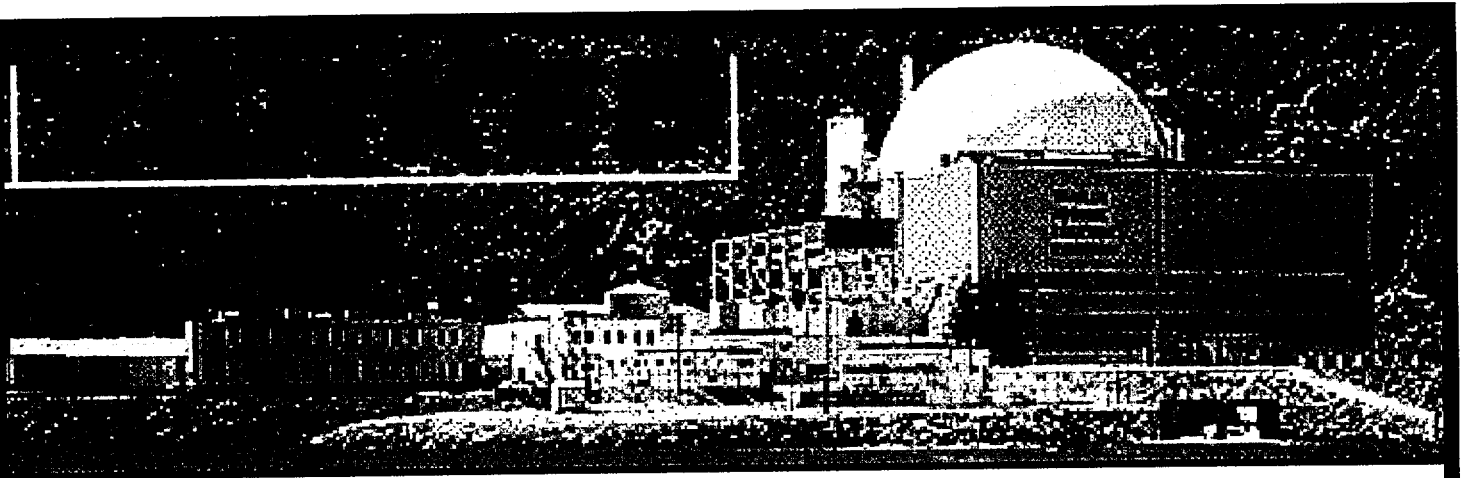
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ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

YANKEE ROWE STATION RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

JANUARY 1, 2001 - DECEMBER 31, 2001

**DOCKET NO. 50-29
LICENSE NO. DPR-3**

**YANKEE ATOMIC ELECTRIC COMPANY
Rowe, Massachusetts**

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1.0 EXECUTIVE SUMMARY

The radiological environmental monitoring program for the Yankee Rowe Nuclear Power Station was continued for the period January through December 2001, in compliance with the Technical Specifications and the Off-Site Dose Calculation Manual (ODCM). This annual report was prepared for the Yankee Atomic Electric Company (YAEC) by the Radiological Engineering Group of Duke Engineering and Services (DE&S). Sample collection and preparation was performed by Normandeau Associates. Gamma exposure rate measurements and laboratory analyses were performed by Duke Engineering and Services Environmental Laboratory (DESEL).

Thermoluminescent dosimeters (TLDs) were used to measure direct gamma exposure in the vicinity of the station and as far away as 22.2 miles. Radiochemical and radiological analyses of samples were performed to detect the presence of any station-related radioactivity. Samples collected include air-particulate filters, milk, broad leaf vegetation, well water, fruits, vegetables, river water, bottom sediment, and fish. In evaluating the results of these analyses it is necessary to consider the variability of natural and man-made sources of radioactivity, distribution in the environment and uptake in environmental media. This variability is dependent on many factors including station release rates, past spatial variability of radioactive fallout from nuclear weapons tests and on-going redistribution of the fallout, contribution from cosmically produced radioactivity, ground water dynamics, soil characteristics, farming practices, and feed type. Any one of these factors could cause significant variations in measured levels of radioactivity. Therefore, these factors need to be considered in order to properly explain any variations in radiation detected and to distinguish between natural and station related radioactivity.

Yankee Rowe was permanently shutdown in 1991. Primary activities at the Yankee Rowe station are now focused on fuel storage, site decontamination and facility decommissioning. Even though the station is no longer generating power, decommissioning activities include processing and discharging of liquids containing radioactivity and monitoring for any release of airborne radioactivity. However, the levels of radioactivity released are significantly lower than releases during plant operation. The radiological monitoring of the environment through this program will continue to assure the health and safety of the public and workers are maintained at all times.

The predominant radioactivity detected by the monitoring program was that from outside sources, such as fallout from nuclear weapons tests and naturally occurring radionuclides. As typical of previous years, station-related radioactivity was observed at some of the monitoring locations. The specific observations of station effects were tritium in ground water and Cobalt-60 in two bottom sediment samples. Air sample results demonstrated that no plan related airborne particulate activity was found.

As usual, Strontium-90 was measured in milk. This was measured at the control location in Williamstown, MA, 21 km from the plant. The levels are a result of nuclear weapons testing in the 1960s and not the result of station decommissioning operations. This can be concluded because an insufficient quantity of this isotope has been released by the station to account for the measured concentrations. Higher levels of Strontium-90 were detected prior to initial plant operation and have been declining since the ban on nuclear weapons testing in the 1960s.

During 2001, there were no changes made to the radiological environmental monitoring program. The ODCM was revised to reflect the abandonment of the meteorological tower and the move to use 5-year meteorological averages.

2.0 INTRODUCTION

2.1 General Plant Site Information

The Yankee Nuclear Power Station (YNPS) is located on a 2200-acre site in a predominantly rural area of northwestern Massachusetts, three-quarters of a mile south of the Vermont border. The plant resides in the town of Rowe, Massachusetts, approximately 9 air miles east-northeast of North Adams, Massachusetts. The surrounding area is heavily forested and lightly populated. Hills bounding the river valley rise 500 to 1000 feet above the site, reaching elevations of 2100 feet.

The Deerfield River is used extensively for hydroelectric power generation both upstream and downstream of YNPS. Sherman Dam, immediately adjacent to YNPS, operates as a hydroelectric generating station. Sherman Pond, the impoundment behind this dam, has been used as a source of cooling water for YNPS.

YNPS voluntarily shut down on October 1, 1991 after 31 years of operation. The plant is involved in the process of decommissioning which involves the disassembly and removal of the plant components and structures. This process is taking place in strict conformance with USNRC regulations. Oversight of the decommissioning process will also continue from the U.S. Environmental Protection Agency, the Massachusetts Department of Environmental Protection, Massachusetts Department of Public Health, and Massachusetts Emergency Management Administration.

The radiological environmental monitoring program for YNPS continued during 2001 and will continue throughout the decommissioning period until its 10CFR50 license is terminated.

2.2 Program Design

The Radiological Environmental Monitoring Program for the YNPS was designed with specific objectives in mind. These were:

- To provide an early indication of the appearance or accumulation of any radioactive material in the environment caused by YNPS activities.
- To provide assurance to regulatory agencies and the public that the environmental impact from YNPS is known and within anticipated limits.
- To verify the adequacy and proper functioning of station effluent controls and monitoring systems.
- To provide standby monitoring capability for rapid assessment of risk to the general public in the event of unanticipated or accidental releases of radioactive material.

These objectives will continue to be in force, to varying degrees, throughout decommissioning activities at the YNPS site. Due to the shutdown status of the plant and due to the relatively low quantities of radioactive material now on the site, some of the objectives have a different degree of importance than in the past.

The radiological environmental monitoring program was initiated in 1958, approximately two years before the plant began operation in 1960. It has been in operation continuously since that time, with improvements made periodically over those years. The program continued without modification following the shutdown of the plant in 1991 and was reduced in scope beginning in 1997 primarily to reflect the absence of short lived radionuclides in various pathways resulting from the plant shutdown (no source of production) and the individual radionuclides short half-life (long decay time since the shutdown).

The program was designed to meet the intent of NRC Regulatory Guide 4.1, *Programs for Monitoring Radioactivity in the Environs of Nuclear Power Plants*; NRC Regulatory Guide 4.8, *Environmental Technical Specifications for Nuclear Power Plants*; the NRC Branch Technical Position of November 1979 entitled, *An Acceptable Radiological Environmental Monitoring Program*; and NRC NUREG-0472, *Radiological Effluent Technical Specifications for PWR's*.

The environmental TLD program was designed and tested around NRC Regulatory Guide 4.13, *Performance, Testing and Procedural Specifications for Thermoluminescence Dosimetry: Environmental Applications*. The quality assurance program was designed around the guidance given in NRC Regulatory Guide 4.15, *Quality Assurance for Radiological Monitoring Programs (Normal Operations) - Effluent Streams and the Environment*.

The sampling requirements of the REMP are given in Table 4.1 of the ODCM and in Table 2.1 of this report. The identification of the required sampling locations is given in Table 4.4 of the ODCM and in Tables 2.2 and 2.3 of this report. The sampling and monitoring locations are shown graphically on the maps in Figures 2.1 through 2.6.

2.3 Monitoring Zones

The REMP is designed to allow comparison of levels of radioactivity in samples from the area possibly influenced by the plant to levels found in areas not influenced by the plant. The first area locations are called "indicators", and the second area locations are called "controls." The distinction between the two areas, depending on the type of sample or sample pathway, is based on one or more of several factors, such as site meteorological history, meteorological dispersion calculations, relative direction from the plant, river flow, and distance. Analysis of survey data from the two areas aids in determining if there is a significant difference between the two areas. It can also help in differentiating between radioactivity or radiation due to plant activities and that due to other fluctuations in the environment, such as atmospheric nuclear weapons test fallout or seasonal variations in the natural background.

2.4 Pathways Monitored

Four pathway categories are monitored by the REMP. They are the direct radiation, airborne, waterborne, and ingestion pathways. Each of these four categories is monitored by the collection of one or more sample media, which are listed below, and are described in more detail in this section:

Airborne Pathway

Air Particulate Sampling

Waterborne Pathways

River Water Sampling

Ground Water Sampling
Storm Drain Water Sampling
Sediment Sampling

Ingestion Pathways
Milk Sampling
Fish Sampling
Food Product (fruits & vegetables, broad leaf vegetation) and Maple Syrup Sampling
Direct Radiation Pathway
TLD Monitoring

2.5 Descriptions of Monitoring Programs

Sample types and frequency of analysis are given in Table 2.1. The sample locations are listed in Table 2.2 and Table 2.3 and shown in Figures 2.1 - 2.6. The program as described here includes both required samples as specified in the Off-Site Dose Calculation Manual (ODCM) and any extra samples. Following is a detailed description of the sampling program:

2.5.1 Air Sampling

Continuous air samplers are installed at six locations, five of which are required by the YNPS ODCM. The sampling pumps at these locations operate continuously at a flow rate of approximately one cubic foot per minute. Airborne particulates are collected by passing air through a 47-mm glass-fiber filter. A dry gas meter is incorporated into the sampling stream to measure the total volume of air sampled in a given interval. The entire system is housed in a weatherproof structure. The filters are collected biweekly, and to allow for the decay of radon daughter products, they are held for at least 100 hours at the DESEL before being analyzed for gross-beta radioactivity (indicated as GR-B in the data tables). The biweekly filters are composited by location at the DESEL for a quarterly gamma spectroscopy analysis.

2.5.2 River Water Sampling

An automatic composite sampler is located at one downstream sampling location. The sampler is controlled by timers that collect an aliquot of river water at least every two hours over a period of one month. Grab samples are collected monthly at Sherman Pond and at one upstream location. All river water samples are preserved with HCl and NaHSO₃, or HNO₃, to prevent the plate out of potentially present radionuclides on the container walls. Each sample is analyzed for gross-beta and gamma-emitting radionuclides. The monthly samples are composited quarterly by location at the DESEL for a H-3 analysis. The monthly H-3 samples are also analyzed as a non ODCM requirement.

2.5.3 Ground Water Sampling

Grab samples are collected monthly from two on-site locations. The ODCM requires samples to be collected at least once per quarter. Each sample is required by the ODCM to be analyzed for gamma-emitting radionuclides and H-3. Samples are also analyzed for gross beta activity, which is not an ODCM requirement. Gross beta

analyses are performed to gather additional data that may help to provide early detection of plant-related activity.

2.5.4 Storm Drain Water Sampling

Grab samples are collected monthly from the East and West Storm Drain. These are not ODCM required sampling locations. This water is comprised of a network of storm drains connected to parking areas, associated facility, and administration building, as well as groundwater and precipitation (including snowmelt) draining from the east side and west side of the plant facility. Neither storm drain network is directly connected to any plant operation. Each sample is analyzed for gross-beta and gamma-emitting radionuclides and H-3.

2.5.5 Sediment Sampling

Shoreline sediment cores are collected semiannually from two locations, one upstream and one downstream of the plant. At each location, six two-inch inner diameter plastic coring tubes are driven into the sediment at least six inches deep. The cores are carefully extracted and kept in an upright position and frozen prior to delivery to the DESEL. At the DESEL, the frozen cores are cut into 5 cm (two-inch) segments. For each location, the 0-5 cm segments are blended into a single sample, as are the 5-10 cm and 10-15 cm segments. These composite samples are then analyzed for gamma-emitting radionuclides.

An additional bottom sediment core is collected semiannually in Sherman Pond near the plant discharge. A Wildco K. B. Core Sampler, fitted with a plastic coring tube, is dropped from a boat. Six cores are collected here, and are processed and analyzed as described above.

2.5.6 Milk Sampling

Milk samples are collected monthly from one control location. Immediately after collection, the milk sample is preserved with an appropriate amount of formaldehyde. The sample is analyzed for gamma-emitting radionuclides. Although not required by the ODCM, Sr-89 and Sr-90 analyses are also performed on quarterly composite samples.

2.5.7 Fish Sampling

Fish samples are collected semiannually at two locations (upstream of the plant and in Sherman Pond). A gill net is set overnight from a boat, and mixed species of fish are removed the following day. The species typically collected are yellow perch, smelt, pickerel, trout, bullheads or suckers. The fish samples are frozen and delivered to the DESEL where the edible portions are analyzed for gamma-emitting radionuclides.

2.5.8 Food Product Sampling

Food products are collected annually (at harvest) at three locations. The samples are either tuberous vegetables, above-ground vegetables, or fruit. Two indicator locations are chosen as a result of the annual Land Use Census, based on meteorological dispersion calculations. The third location is a control, which is located sufficiently far away from the plant to be outside any potential influence from it. The edible portions of the samples are then analyzed at the DESEL for gamma-emitting radionuclides.

2.5.9 Maple Syrup Sampling

Maple syrup is an important commercial product in northern New England, including the YNPS plant environs. Consequently, samples are collected annually from two or three locations although there is no ODCM requirement. These samples are collected from the syrup manufacturer as a finished product, that is, following the boiling down of the maple sap. Since the samples have already been boiled down as part of the syrup production process, no preservatives are needed in the samples. Following collection, the samples are analyzed at the DESEL for gamma-emitting radionuclides. It should be noted that because of the boiling down and filtering of the sap, the resulting radionuclide measurements do not represent actual environmental concentrations. It is estimated that the resulting syrup has been concentrated by a factor of from 15 to 120 times the original sap, depending mostly on the time of the season that the sap was collected.

2.5.10 TLD Monitoring

Direct gamma radiation exposure is continuously monitored with the use of thermoluminescent dosimeters (TLDs). Specifically, Panasonic UD-801AS1 and UD-814AS1 calcium sulfate dosimeters are used, with a total of five elements in place at each monitoring location. Each pair of dosimeters is sealed in a plastic bag, which is in turn housed in a plastic-screened container. This container is attached to an object such as a tree, fence or utility pole. TLDs are posted at 33 locations, with 24 of these stations required by the ODCM. All the TLDs are read out quarterly. Normandeau posts and retrieves all TLDs, while the DESEL processes them.

TABLE 2.1

***Radiological Environmental Monitoring Program
(as required by ODCM Table 4.1)***

Exposure Pathway And/or Sample Media	Collection			Analysis	
	Number of Sample Locations	Routine Sampling Mode	Collection Frequency	Analysis Type	Analysis Frequency
1. Direct Radiation (TLDs)	24*	Continuous	Quarterly	Gamma Dose	Each TLD
2. Airborne: Particulates	5	Continuous	Once per two weeks	Gross Beta Gamma Isotopic	Each Sample Quarterly Composite by Location
3. Waterborne					
a. Surface Water	1	Composite at two hour intervals- Downstream	Monthly	Gross Beta Gamma Isotopic Tritium (H-3)	Each Sample Each Sample Quarterly Composite
	1	Grab -Upstream	Monthly		
b. Ground Water	2	Grab	Quarterly	Gamma Isotopic Tritium (H-3)	Each Sample Each Sample
c. Shoreline Sediment	1	Grab	Semiannually	Gamma Isotopic	Each Sample

* Does not include General Site Area and Owner Controlled Area fence locations.

TABLE 2.1*(Continued)*

***Radiological Environmental Monitoring Program
(As required by ODCM Table 4.1)***

Exposure Pathway And/or Sample Media	Collection			Analysis	
	Nominal Number of Sample Locations	Routine Sampling Mode	Nominal Collection Frequency	Analysis Type	Analysis Frequency
4. Ingestion					
a. Milk	1*	Grab	Monthly	Gamma Isotopic	Each sample
b. Fish	2	Grab	Semiannually (or seasonal if appropriate)	Gamma Isotopic on edible portions	Each sample
c. Food Products					
Tuberous or above ground vegetables, or fruit	3	Grab	At harvest	Gamma Isotopic on edible portion	Each sample

* See Table 4.1 in ODCM.

TABLE 2.2***Radiological Environmental Monitoring Locations (non-TLD) in 2001
Yankee Nuclear Power Station***

<u>Exposure</u> <u>Pathway</u>	<u>Station</u> <u>Code</u>	<u>Station Description</u>	<u>Type</u> ^a	<u>Distance</u> <u>From Plant</u> <u>(km)</u>	<u>Direction</u> <u>From Plant</u>
1. Airborne					
	AP-11	Observation Stand	I	0.5	NW
	AP-12	Monroe Bridge	I	1.1	SW
	AP-13	Rowe School	I	4.2	SE
	AP-14	Harriman Station	I	3.2	N
	AP-21	Williamstown, MA	C	22.2	W
	AP-31	YAEC Visitor's Center	I	0.8	SW
2. Waterborne					
a. Surface					
	WR-11	Bear Swamp Lower	I	6.3	Down-river
	WR-21	Harriman Reservoir	C	10.1	Up-river
	WR-31	Sherman Pond	I	0.1	N
b. Ground					
	WG-11	Plant Potable	I	On-site	--
	WG-12	Sherman Spring	I	0.2	NW
c. Storm Drain					
	WW-51	East Storm Drain	I	On-site	--
	WW-52	West Storm Drain	I	On-site	--
d. Sediment					
	SE-11	No. 4 Station	I	36.2	Down-river
	SE-21	Harriman Reservoir	C	10.1	Up-river
	SE-91	Sherman Pond	I	0.1	N
3. Ingestion					
a. Milk					
	TM-21 ^b	Williamstown, MA	C	21	WSW
b. Fish					
	FH-11	Sherman Pond	I	1.5	Near Discharge
	FH-21	Harriman Reservoir	C	10.1	Up-river

^a I=Indicator Station, C=Control Station.^b No sampling location is available within five miles.

TABLE 2.2

(Continued)

***Radiological Environmental Monitoring Locations (non-TLD) in 2001
Yankee Nuclear Power Station***

<u>Exposure</u> <u>Pathway</u>	<u>Station</u> <u>Code</u>	<u>Station Description</u>	<u>Type</u> ^a	<u>Distance</u> <u>From Plant</u> <u>(km)</u>	<u>Direction</u> <u>From Plant</u>
Food Products					
	TF-11	Monroe Bridge, MA	I	1.3	SW
	TF-13	Monroe, MA	I	1.9	WNW
	TF-21	Williamstown, MA	C	21.0	WSW
	MS-33	Rowe, MA	I	1.0	S
	(Maple Syrup)				
	MS-45	Florida, MA	C	10.5	WSW
	(Maple Syrup)				

^a I=Indicator Station, C=Control Station.

TABLE 2.3

***Radiological Environmental Monitoring Locations (TLD) in 2001
Yankee Nuclear Power Station***

Station Code	Station Description	Type ^a	Distance From Plant (km)	Direction From Plant
GM-1	YAEC Visitors' Center	I	0.8	SW
GM-2	Observation Stand	I	0.5	NW
GM-3	Rowe School	I	4.2	SE
GM-4	Harriman Station	I	3.2	N
GM-5	Monroe Bridge	I	1.1	SW
GM-6	Readsboro Road Barrier	I	1.3	N
GM-7	Whitingham Line	I	3.5	NE
GM-8	Monroe Hill Barrier	I	1.8	S
GM-9	Dunbar Brook	I	3.2	SW
GM-10	Cross Road	I	3.5	E
GM-11	Adams High Line	I	2.1	WNW
GM-12	Readsboro, VT	I	5.5	NNW
GM-13 ^b	Restricted Area Fence	F	0.08	WSW
GM-14 ^b	Restricted Area Fence	F	0.11	WNW
GM-15 ^b	Restricted Area Fence	F	0.08	NNW
GM-16 ^b	Restricted Area Fence	F	0.13	NNE
GM-17 ^b	Restricted Area Fence	F	0.14	ENE
GM-18 ^b	Restricted Area Fence	F	0.14	ESE
GM-19 ^b	Restricted Area Fence	F	0.16	SE
GM-20 ^b	Restricted Area Fence	F	0.16	SSE
GM-21 ^b	Restricted Area Fence	F	0.11	SSW
GM-22	Heartwellville, VT	C	12.6	NNW
GM-23	Williamstown Substation	C	22.2	W
GM-25	Whitingham, VT	O	7.7	NNE
GM-27	Number 9 Road	O	7.6	ENE
GM-29	Route 8A	O	8.2	ESE

^a I = Indicator TLD; C = Control TLD; O = Outer Ring TLD; F = Fenceline TLD.

^b These TLDs are located inside of the site boundary and not, therefore, part of the REMP program. These were placed inside of the site boundary to provide early indication of the potential increase in site boundary dose due to plant-related activities.

TABLE 2.3
(Continued)

Radiological Environmental Monitoring Locations (TLD) in 2001
Yankee Nuclear Power Station

Station Code	Station Description	Type ^a	Distance From Plant (km)	Direction From Plant
GM-31	Legate Hill Road	O	7.6	SSE
GM-32	Rowe Road	O	7.9	S
GM-33	Zoar Road	O	6.9	SSW
GM-35	Whitcomb Summit	O	8.6	WSW
GM-36	Tilda Road	O	6.6	W
GM-38	West Hill Road	O	6.6	NW
GM-40	Readsboro Road	I	0.5	W

^a I = Indicator TLD; C = Control TLD; O = Outer Ring TLD; F = Fenceline TLD.

TABLE 2.4***Environmental Lower Limit of Detection (LLD) Sensitivity
Requirements from ODCM Table 4.3***

Analysis	Water (pCi/l)	Airborne Particulates or Gases (pCi/m ³)	Fish (pCi/kg) (wet)	Milk (pCi/l)	Food Product (pCi/kg) (wet)	Sediment (pCi/kg-dry)
Gross-Beta	4	0.01				
H-3	2000					
Mn-54	15		130			
Co-58,60	15		130			
Zn-65	30		260			
Zr-Nb-95	15					
Cs-134	15	0.05	130	15	60	150
Cs-137	18	0.06	150	18	80	180

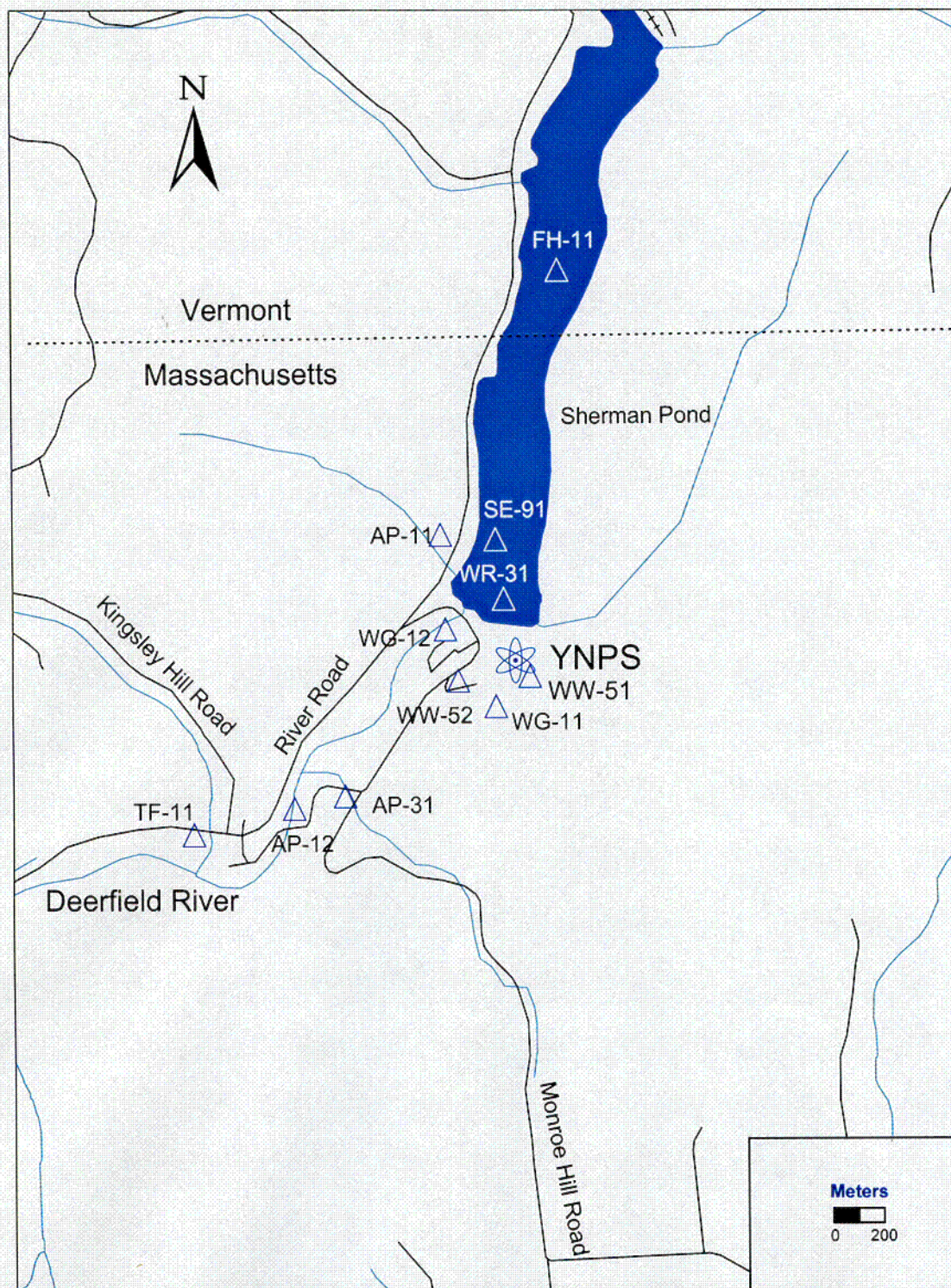
Additional explanatory footnotes are given in ODCM Table 4.3.

TABLE 2.5***Reporting Levels for Radioactivity Concentrations
In Environmental Samples from ODCM Table 4.2***

Analysis	Water (pCi/l)*	Airborne Particulates or Gases (pCi/m ³)	Fish (pCi/kg)	Milk (pCi/l)	Food Product (pCi/kg) (wet)
H-3	30000				
Mn-54	1000		30000		
Co-58	1000		30000		
Co-60	300		10000		
Zn-65	300		20000		
Zr-Nb-95	400				
Cs-134	30	10	1000	60	1000
Cs-137	50	20	2000	70	2000

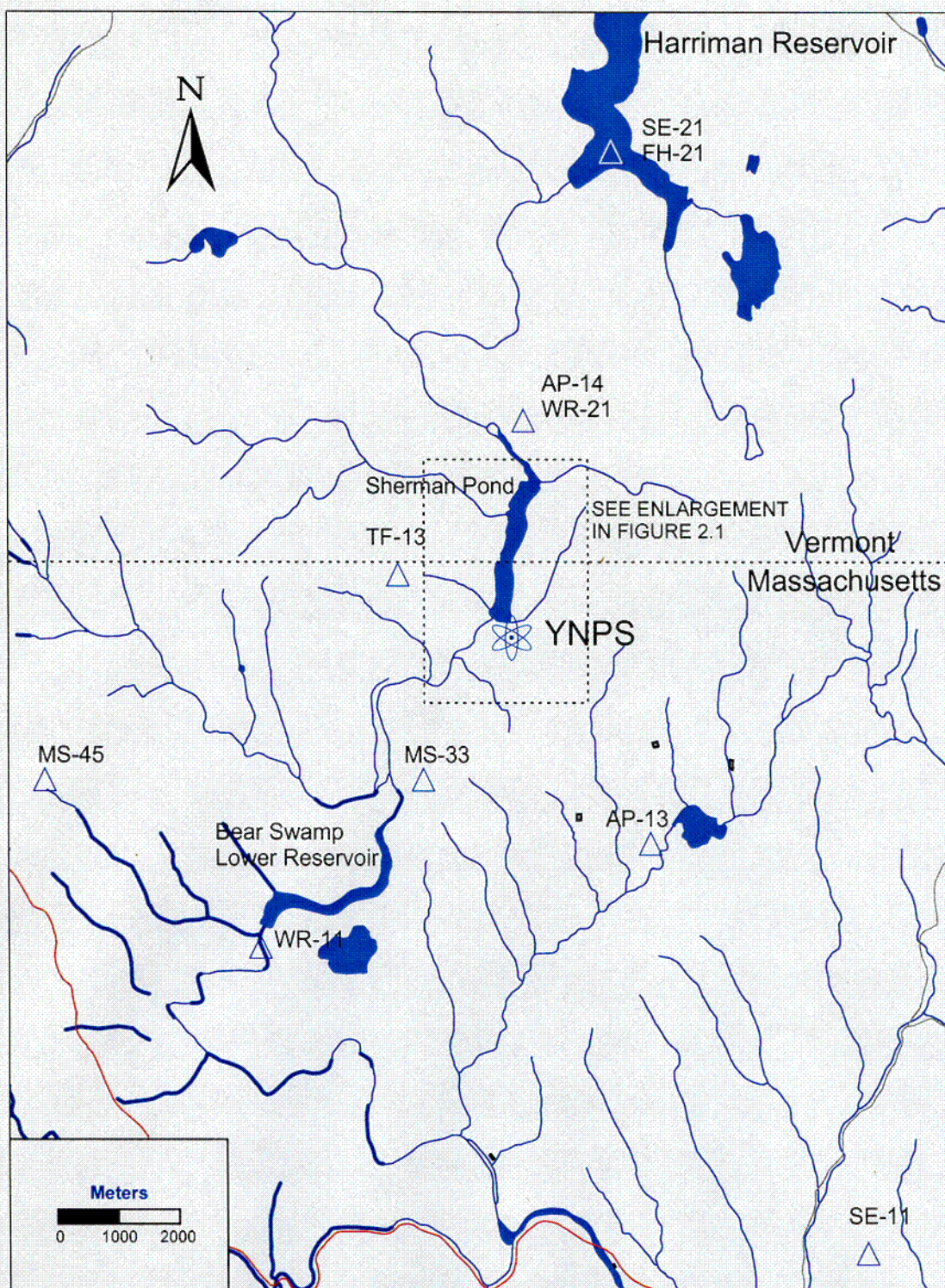
* Reporting Level for non-drinking water pathways.

**Figure 2.1 Radiological Environmental Sampling Locations
Within 1 Mile of Yankee Rowe Nuclear Power Station**



C-01

Figure 2.2 Radiological Environmental Sampling Locations Within 12 Miles of Yankee Rowe Nuclear Power Station



C-02

Figure 2.3 Radiological Environmental Sampling Locations
Outside 12 Miles of Yankee Rowe Nuclear Power Station

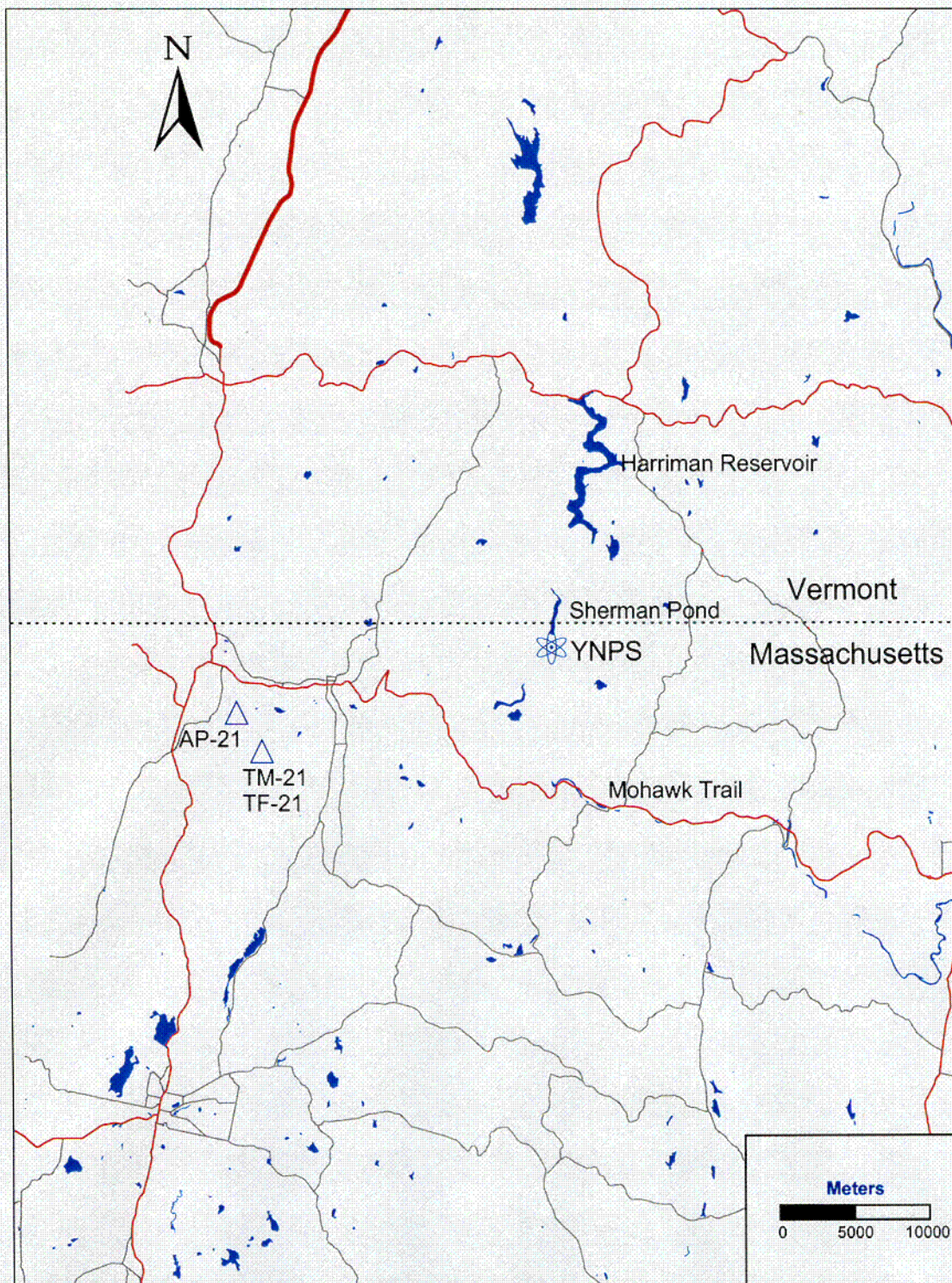


Figure 2.4

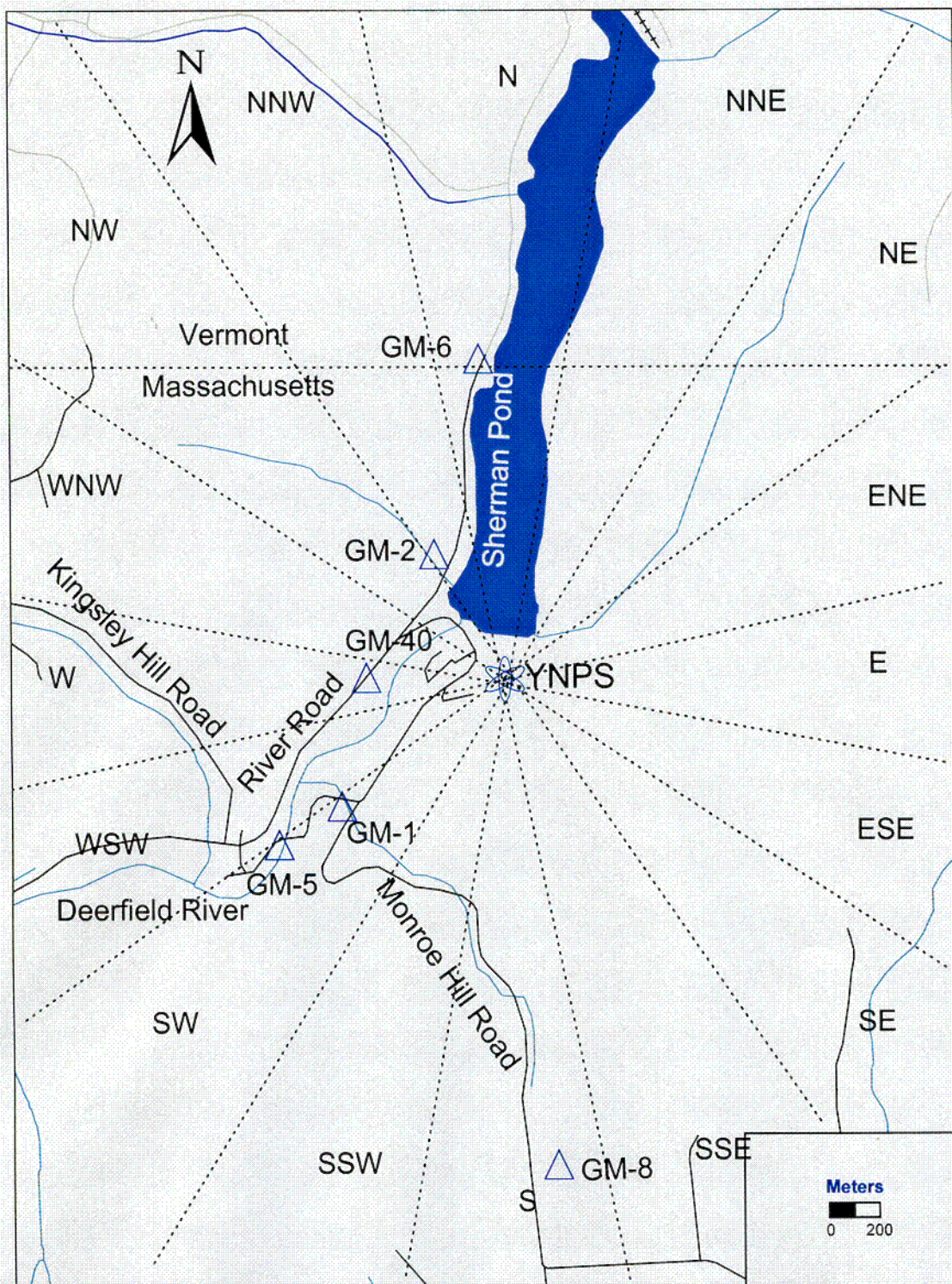
**Environmental TLD Monitoring Locations
Within 1 Mile of Yankee Rowe Nuclear Power Station**

Figure 2.5 **Environmental TLD Monitoring Locations**
Within 12 Miles of Yankee Rowe Nuclear Power Station

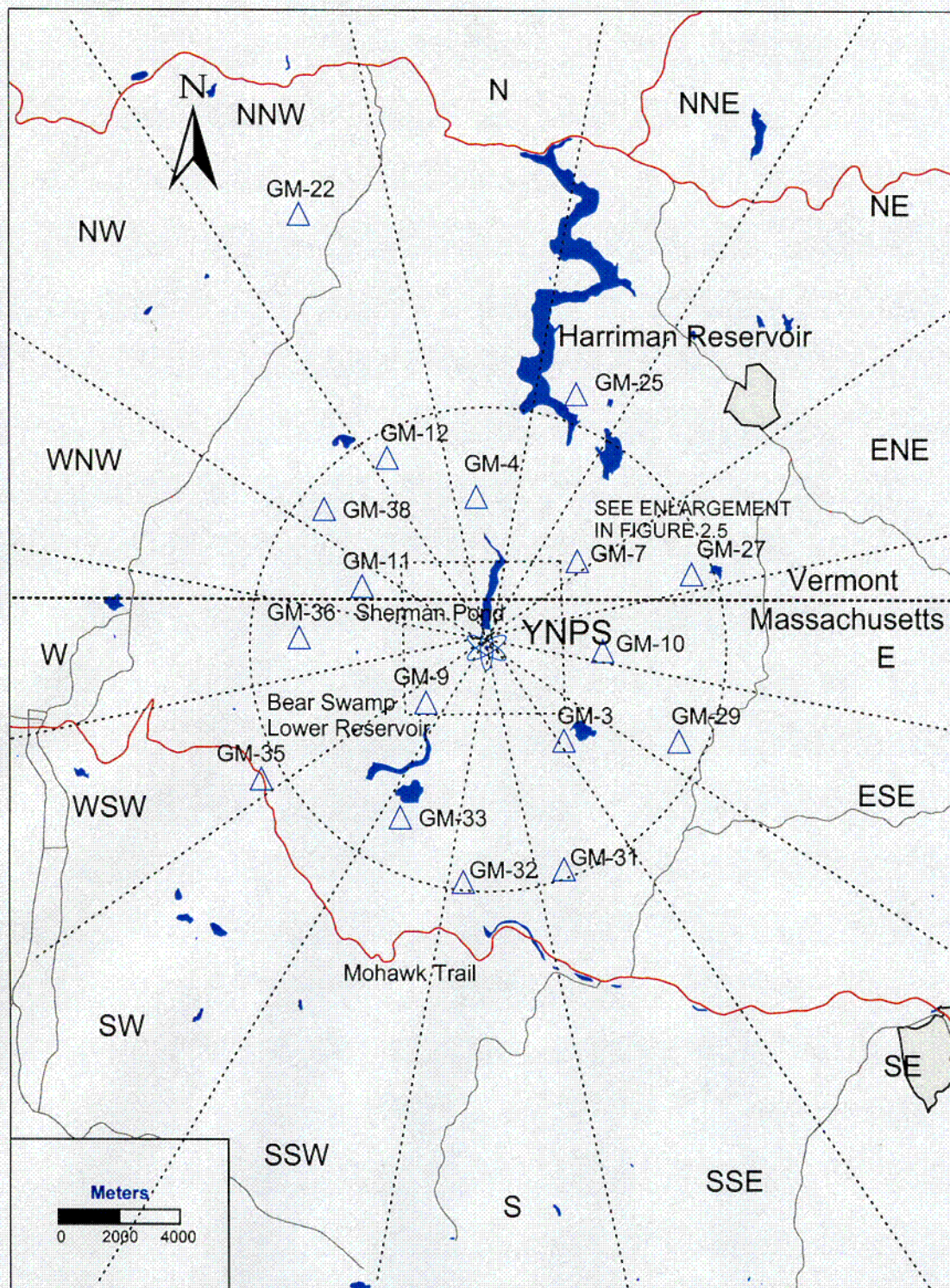
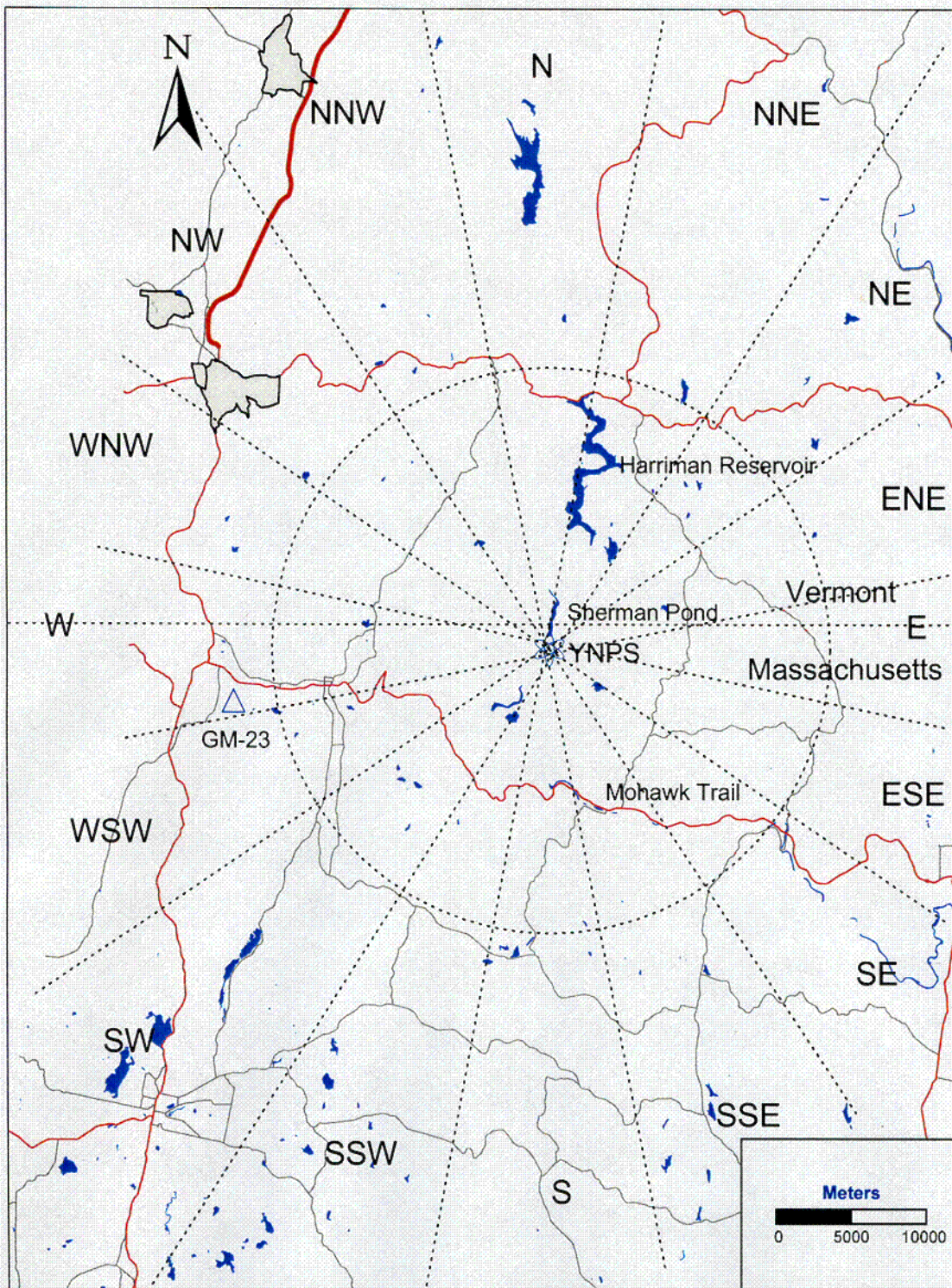


Figure 2.6 **Environmental TLD Monitoring Locations**
Outside of 12 Miles from Yankee Rowe Nuclear Power Station



3.0 RADIOLOGICAL DATA SUMMARY TABLES

This section summarizes the analytical results of the environmental samples that were collected during 2001. These results, shown in Table 3.1, are presented in a format similar to that prescribed in the NRC's Radiological Assessment Branch Technical Position on Environmental Monitoring (Reference 1). The results are ordered by sample media type and then by radionuclide for the pathways described in Section 2.3. The units for each media type are also given. Table 3.2 provides the same information for TLD direct radiation measurements.

The left-most column contains the radionuclide of interest, the total number of analyses for that radionuclide in 2001, and the number of measurements which exceeded the Reporting Levels found in Table 4.2 of the YNPS ODCM. The latter are classified as "Non-routine" measurements. The second column lists the required Lower Limit of Detection (LLD) for those radionuclides, which have detection capability requirements as specified in the ODCM Table 4.3. The absence of a value in this column indicates that no LLD is specified in the ODCM for that radionuclide in that media. The target LLD for any analysis is typically 30-40 percent of the most restrictive required LLD. Occasionally the required LLD is not met. This is usually due to malfunctions in sampling equipment, which result in low sample volume. Such cases are addressed in Section 4.2.

For each radionuclide and media type, the remaining three columns summarize the data for the following categories of monitoring locations: (1) the Indicator stations, which are within the range of influence of the plant and which could conceivably be affected by plant activities; (2) the station which had the highest mean concentration during 2001 for that radionuclide; and (3) the Control stations, which are beyond the influence of the plant. Direct radiation monitoring stations (using TLDs) are grouped into Indicator, Outer Ring, Fenceline and Control stations.

In each of these columns, for each radionuclide, the following are given:

- The mean value of all concentrations including negative values and values that are not considered "detectable".
- The lowest and highest concentration.
- The number of detectable measurements divided by the total number of measurements.

A sample is considered to yield a "detectable measurement" when the concentration exceeds three times its associated standard deviation. The standard deviation on each measurement represents only the random uncertainty associated with the radioactive decay process (counting statistics), and not the propagation of all possible uncertainties in the analytical procedure.

The radionuclides reported in this section represent those that: 1) had a Reporting Level listed in Table 4.2 of the ODCM or, a LLD requirement in Table 4.3 of the ODCM or 2) had a positive measurement of radioactivity, whether it was naturally-occurring or man-made; or 3) were of specific interest for any other reason. The radionuclides that are routinely analyzed and reported by the DESEL in a gamma spectroscopy analysis are: Th-232, Ag-110m, Ba-140, Be-7, Ce-141, Ce-144, Co-57, Co-58, Co-60, Cr-51, Cs-134, Cs-137, Fe-59, I-131, I-133, K-40, Mn-54, Mo-99, Np-239, Ru-103, Ru-106, Sb-124, Se-75, TeI-132, Zn-65 and Zr-95. In no case did a

radionuclide not shown in Table 3.1 appear as a "detectable measurement" during 2001.

Data from direct radiation measurements made by TLDs are provided in Table 3.2 in a format essentially the same as above. The complete listing of quarterly TLD data is provided in Table 3.3.

Table 3.1
Radiological Environmental Program Summary
Yankee Nuclear Power Station, Rowe, MA
(January - December 2001)

MEDIUM: Air Particulates (AP) UNITS: pCi/cubic meter

Radionuclides* (No. Analyses) (Non-Routine**)	Required LLD	Indicator Stations *****	Station With Highest Mean *****	Control Stations *****
		Mean (Range) (No. Detected***)		
GR-B (174) (0)	0.01	2.5E -2 (9.2 - 51.6)E -3 (145/ 145)	12 3.2E -2 (1.6 - 5.2)E -2 (29/ 29)	2.4E -2 (1.3 - 3.4)E -2 (29/ 29)
Be-7 (24) (0)		8.0E -2 (3.6 - 13.8)E -2 (20/ 20)	12 1.1E -1 (8.6 - 13.8)E -2 (4/ 4)	8.3E -2 (5.1 - 11.1)E -2 (4/ 4)
Co-58 (24) (0)		2.2E -5 (-2.0 - 1.4)E -3 (0/ 20)	11 3.5E -4 (7.0 - 71.2)E -5 (0/ 4)	-2.2E -4 (-6.0 - 3.6)E -4 (0/ 4)
Co-60 (24) (0)		2.0E -4 (-1.4 - 1.0)E -3 (0/ 20)	13 8.8E -4 (8.3 - 9.6)E -4 (0/ 4)	-6.1E -5 (-1.9 - 1.5)E -4 (0/ 4)
Cs-134 (24) (0)	0.05	6.7E -5 (-6.7 - 8.2)E -4 (0/ 20)	31 2.1E -4 (-1.8 - 6.4)E -4 (0/ 4)	0.0E 0 (-4.1 - 2.6)E -4 (0/ 4)
Cs-137 (24) (0)	0.06	5.9E -5 (-9.0 - 9.1)E -4 (0/ 20)	13 6.2E -4 (1.5 - 9.1)E -4 (0/ 4)	2.4E -5 (-3.2 - 3.5)E -4 (0/ 4)

* The radionuclides reported in this table are those with LLD requirements, those for which positive radioactivity was detected, or those that were of specific interest for any other reason.

** Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table 4.2.

*** The fraction of sample analyses yielding detectable measurements (i.e. >3 standard deviations) is shown in parentheses.

Table 3.1
Radiological Environmental Program Summary
Yankee Nuclear Power Station, Rowe, MA
(January - December 2001)

MEDIUM: River Water (WR) UNITS: pCi/kg

Radionuclides* (No. Analyses) (Non-Routine**)	Required LLD	Indicator Stations *****	Station With Highest Mean *****	Control Stations *****
		Mean (Range) (No. Detected***)		
GR-B (37) (0)	4	1.5E 0 (2.4 - 34.0)E -1 (10/ 25)	11 1.6E 0 (2.4 - 34.0)E -1 (5/ 13)	1.5E 0 (5.1 - 23.5)E -1 (5/ 12)
H-3 (13) (0)	2000	3.0E 2 (-5.7 - 11.4)E 2 (0/ 9)	11 4.3E 2 (2.0 - 6.7)E 2 (0/ 4)	1.4E 2 (-2.1 - 5.6)E 2 (0/ 4)
Mn-54 (38) (0)	15	-1.1E -1 (-2.8 - 2.4)E 0 (0/ 26)	91 5.8E -1 (0/ 1)	8.8E -3 (-1.3 - 1.3)E 0 (0/ 12)
Co-58 (38) (0)	15	-6.2E -1 (-4.9 - 2.0)E 0 (0/ 26)	91 2.0E 0 (0/ 1)	-4.4E -1 (-2.2 - 1.3)E 0 (0/ 12)
Fe-59 (38) (0)		1.1E -1 (-9.0 - 6.9)E 0 (0/ 26)	21 1.6E 0 (-5.5 - 10.2)E 0 (0/ 12)	1.6E 0 (-5.5 - 10.2)E 0 (0/ 12)
Co-60 (38) (0)	15	-1.9E -2 (-2.7 - 3.4)E 0 (0/ 26)	91 2.1E 0 (0/ 1)	-2.0E -1 (-1.9 - 3.8)E 0 (0/ 12)
Zn-65 (38) (0)	30	-2.4E 0 (-7.1 - 10.9)E 0 (0/ 26)	21 -1.4E 0 (-6.4 - 9.4)E 0 (0/ 12)	-1.4E 0 (-6.4 - 9.4)E 0 (0/ 12)
Zr-95 (38) (0)	15	-4.4E -1 (-8.1 - 2.6)E 0 (0/ 26)	91 1.1E 0 (0/ 1)	-9.7E -1 (-5.7 - 3.7)E 0 (0/ 12)
I-131 (38) (0)		-7.6E -1 (-7.7 - 3.0)E 0 (0/ 26)	91 3.0E 0 (0/ 1)	-1.4E 0 (-5.9 - 3.5)E 0 (0/ 12)
Cs-134 (38) (0)	15	-1.7E -1 (-2.9 - 2.8)E 0 (0/ 26)	21 7.5E -1 (-8.1 - 23.6)E -1 (0/ 12)	7.5E -1 (-8.1 - 23.6)E -1 (0/ 12)
Cs-137 (38) (0)	18	-8.8E -1 (-5.7 - 2.8)E 0 (0/ 26)	91 4.3E -1 (0/ 1)	-1.1E 0 (-4.2 - 1.4)E 0 (0/ 12)
Ba-140 (38) (0)		-5.5E -1 (-1.0 - 0.4)E 1 (0/ 26)	91 3.5E 0 (0/ 1)	-9.3E -2 (-2.4 - 2.6)E 0 (0/ 12)

* The radionuclides reported in this table are those with LLD requirements, those for which positive radioactivity was detected, or those that were of specific interest for any other reason.

** Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table 4.2.

*** The fraction of sample analyses yielding detectable measurements (i.e. >3 standard deviations) is shown in parentheses.

Table 3.1
Radiological Environmental Program Summary
Yankee Nuclear Power Station, Rowe, MA
(January - December 2001)

MEDIUM: Ground Water (WG) UNITS: pCi/kg

Radionuclides* (No. Analyses) (Non-Routine**)	Required LLD	Indicator Stations *****	Station With Highest Mean *****		Control Stations *****
		Mean (Range) (No. Detected***)	Sta.	Mean (Range) (No. Detected***)	Mean (Range) (No. Detected***)
GR-B (24) (0)	4	3.9E 0 (1.8 - 6.9)E 0 (22/ 24)	12	4.7E 0 (2.4 - 6.9)E 0 (11/ 12)	NO DATA
H-3 (24) (0)	2000	5.2E 1 (-1.3 - 3.7)E 2 (2/ 24)	12	1.4E 2 (-6.9 - 37.4)E 1 (2/ 12)	NO DATA
Mn-54 (24) (0)	15	-2.5E -1 (-2.5 - 2.0)E 0 (0/ 24)	11	-6.4E -2 (-2.5 - 2.0)E 0 (0/ 12)	NO DATA
Co-58 (24) (0)	15	-1.1E 0 (-5.1 - 2.0)E 0 (0/ 24)	12	-1.1E -1 (-1.8 - 2.0)E 0 (0/ 12)	NO DATA
Fe-59 (24) (0)		4.7E -2 (-6.7 - 7.8)E 0 (0/ 24)	12	7.7E -1 (-3.2 - 7.8)E 0 (0/ 12)	NO DATA
Co-60 (24) (0)	15	2.8E -1 (-2.7 - 2.6)E 0 (0/ 24)	12	4.0E -1 (-2.7 - 2.6)E 0 (0/ 12)	NO DATA
Zn-65 (24) (0)	30	-8.7E -1 (-6.4 - 7.4)E 0 (0/ 24)	12	2.0E -1 (-6.4 - 7.4)E 0 (0/ 12)	NO DATA
Zr-95 (24) (0)	15	5.1E -2 (-4.9 - 4.8)E 0 (0/ 24)	12	6.0E -1 (-3.4 - 4.8)E 0 (0/ 12)	NO DATA
I-131 (24) (0)		6.1E -1 (-1.6 - 0.9)E 1 (0/ 24)	11	9.1E -1 (-2.0 - 4.2)E 0 (0/ 12)	NO DATA
Cs-134 (24) (0)	15	-2.9E -1 (-4.3 - 2.5)E 0 (0/ 24)	12	-9.2E -2 (-4.3 - 2.5)E 0 (0/ 12)	NO DATA
Cs-137 (24) (0)	18	-1.1E 0 (-4.7 - 2.3)E 0 (0/ 24)	12	-9.9E -1 (-3.9 - 1.0)E 0 (0/ 12)	NO DATA
Ba-140 (24) (0)		4.4E -1 (-3.2 - 6.3)E 0 (0/ 24)	12	8.1E -1 (-2.8 - 6.3)E 0 (0/ 12)	NO DATA

* The radionuclides reported in this table are those with LLD requirements, those for which positive radioactivity was detected, or those that were of specific interest for any other reason.

** Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table 4.2.

*** The fraction of sample analyses yielding detectable measurements (i.e. >3 standard deviations) is shown in parentheses.

Table 3.1
Radiological Environmental Program Summary
Yankee Nuclear Power Station, Rowe, MA
(January - December 2001)

MEDIUM: Storm Drain Water (WW) UNITS: pCi/kg

Radionuclides* (No. Analyses) (Non-Routine**)	Required LLD	Indicator Stations *****	Sta.	Station With Highest Mean *****	Control Stations *****
		Mean (Range) (No. Detected***)		Mean (Range) (No. Detected***)	Mean (Range) (No. Detected***)
GR-B (24) (0)	4	7.7E 0 (2.2 - 14.5)E 0 (22/ 24)	51	7.8E 0 (2.2 - 14.5)E 0 (11/ 13)	NO DATA
H-3 (24) (0)	2000	-2.5E 2 (-1.3 - 0.5)E 3 (0/ 24)	52	-2.3E 2 (-1.3 - 0.5)E 3 (0/ 11)	NO DATA
Mn-54 (24) (0)	15	-5.0E -1 (-2.3 - 2.2)E 0 (0/ 24)	52	-4.3E -1 (-1.3 - 0.9)E 0 (0/ 11)	NO DATA
Co-58 (24) (0)	15	-8.8E -1 (-3.1 - 0.8)E 0 (0/ 24)	51	-7.0E -1 (-3.1 - 0.8)E 0 (0/ 13)	NO DATA
Fe-59 (24) (0)		2.6E -1 (-5.3 - 9.8)E 0 (0/ 24)	52	1.1E 0 (-5.3 - 8.5)E 0 (0/ 11)	NO DATA
Co-60 (24) (0)	15	8.7E -2 (-3.4 - 2.6)E 0 (0/ 24)	52	3.0E -1 (-1.4 - 2.6)E 0 (0/ 11)	NO DATA
Zn-65 (24) (0)	30	4.2E -1 (-9.8 - 15.6)E 0 (0/ 24)	52	7.4E -1 (-5.6 - 15.6)E 0 (0/ 11)	NO DATA
Zr-95 (24) (0)	15	5.7E -1 (-4.5 - 6.4)E 0 (0/ 24)	52	1.0E 0 (-4.5 - 6.4)E 0 (0/ 11)	NO DATA
I-131 (24) (0)		9.9E -1 (-1.0 - 2.9)E 1 (0/ 24)	51	3.6E 0 (-9.7 - 29.4)E 0 (0/ 13)	NO DATA
Cs-134 (24) (0)	15	-1.1E -1 (-2.6 - 2.9)E 0 (0/ 24)	52	2.0E -1 (-2.1 - 2.9)E 0 (0/ 11)	NO DATA
Cs-137 (24) (0)	18	-6.1E -1 (-3.7 - 2.2)E 0 (0/ 24)	52	-5.1E -1 (-1.9 - 0.8)E 0 (0/ 11)	NO DATA
Ba-140 (24) (0)		7.9E -2 (-5.2 - 7.2)E 0 (0/ 24)	51	8.4E -1 (-2.0 - 7.2)E 0 (0/ 13)	NO DATA

* The radionuclides reported in this table are those with LLD requirements, those for which positive radioactivity was detected, or those that were of specific interest for any other reason.

** Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table 4.2.

*** The fraction of sample analyses yielding detectable measurements (i.e. >3 standard deviations) is shown in parentheses.

Table 3.1
Radiological Environmental Program Summary
Yankee Nuclear Power Station, Rowe, MA
(January - December 2001)

MEDIUM: Sediment (SE) UNITS: pCi/kg dry

Radionuclides* (No. Analyses) (Non-Routine**)	Required LLD	Indicator Stations *****	Station With Highest Mean *****		Control Stations *****
		Mean (Range) (No. Detected***)	Sta.	Mean (Range) (No. Detected***)	Mean (Range) (No. Detected***)
Be-7 (18) (0)		9.7E 0 (-1.8 - 2.3)E 2 (0/ 12)	11	1.2E 2 (0.0 - 2.3)E 2 (0/ 6)	-3.9E 1 (-1.4 - 0.9)E 2 (0/ 6)
K-40 (18) (0)		1.9E 4 (1.2 - 2.6)E 4 (12/ 12)	91	2.5E 4 (2.3 - 2.6)E 4 (6/ 6)	1.5E 4 (1.3 - 1.8)E 4 (6/ 6)
Co-58 (18) (0)		-1.0E 1 (-5.1 - 1.4)E 1 (0/ 12)	11	-4.2E 0 (-3.5 - 1.4)E 1 (0/ 6)	-6.2E 0 (-2.4 - 1.2)E 1 (0/ 6)
Co-60 (18) (0)		1.8E 1 (-1.2 - 6.3)E 1 (2/ 12)	91	1.9E 1 (-5.8 - 53.2)E 0 (2/ 6)	1.6E 0 (-2.8 - 2.2)E 1 (0/ 6)
Cs-134 (18) (0)	150	9.3E -1 (-3.2 - 4.3)E 1 (0/ 12)	11	3.7E 0 (-3.2 - 4.3)E 1 (0/ 6)	9.1E -1 (-1.2 - 1.0)E 1 (0/ 6)
Cs-137 (18) (0)	180	8.3E 2 (7.4 - 199.2)E 1 (9/ 12)	91	1.5E 3 (1.1 - 2.0)E 3 (6/ 6)	-2.1E 0 (-6.3 - 3.8)E 1 (0/ 6)
Th-232 (18) (0)		1.5E 3 (6.9 - 22.7)E 2 (12/ 12)	91	2.0E 3 (1.8 - 2.3)E 3 (6/ 6)	2.8E 2 (-3.2 - 4.7)E 2 (5/ 6)

* The radionuclides reported in this table are those with LLD requirements, those for which positive radioactivity was detected, or those that were of specific interest for any other reason.

** Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table 4.2.

*** The fraction of sample analyses yielding detectable measurements (i.e. >3 standard deviations) is shown in parentheses.

Table 3.1
Radiological Environmental Program Summary
Yankee Nuclear Power Station, Rowe, MA
(January - December 2001)

MEDIUM: Milk (TM) UNITS: pCi/kg

Radionuclides*		Indicator Stations *****		Station With Highest Mean *****		Control Stations *****	
(No. Analyses)	Required	Mean		Sta. Mean		Mean	
(Non-Routine**)	LLD	(Range)		(Range)		(Range)	
		(No. Detected***)		(No. Detected***)		(No. Detected***)	
K-40	(12)	NO DATA		21	1.4E 3	1.4E 3	
	(0)				(1.3 - 1.4)E 3	(1.3 - 1.4)E 3	
					(12/ 12)	(12/ 12)	
Sr-89	(4)	NO DATA		21	1.8E -1	1.8E -1	
	(0)				(-5.0 - 6.8)E 0	(-5.0 - 6.8)E 0	
					(0/ 4)	(0/ 4)	
Sr-90	(4)	NO DATA		21	1.4E 0	1.4E 0	
	(0)				(6.6 - 28.9)E -1	(6.6 - 28.9)E -1	
					(1/ 4)	(1/ 4)	
I-131	(12)	NO DATA		21	-4.4E -2	-4.4E -2	
	(0)				(-5.4 - 4.0)E 0	(-5.4 - 4.0)E 0	
					(0/ 12)	(0/ 12)	
Cs-134	(12)	15 NO DATA		21	1.4E -1	1.4E -1	
	(0)				(-1.5 - 2.2)E 0	(-1.5 - 2.2)E 0	
					(0/ 12)	(0/ 12)	
Cs-137	(12)	18 NO DATA		21	9.0E -1	9.0E -1	
	(0)				(-1.5 - 6.4)E 0	(-1.5 - 6.4)E 0	
					(0/ 12)	(0/ 12)	
Ba-140	(12)	NO DATA		21	2.1E -1	2.1E -1	
	(0)				(-3.7 - 2.7)E 0	(-3.7 - 2.7)E 0	
					(0/ 12)	(0/ 12)	
Th-232	(12)	NO DATA		21	3.3E 0	3.3E 0	
	(0)				(-1.6 - 1.5)E 1	(-1.6 - 1.5)E 1	
					(0/ 12)	(0/ 12)	

* The radionuclides reported in this table are those with LLD requirements, those for which positive radioactivity was detected, or those that were of specific interest for any other reason.

** Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table 4.2.

*** The fraction of sample analyses yielding detectable measurements (i.e. >3 standard deviations) is shown in parentheses.

Table 3.1
Radiological Environmental Program Summary
Yankee Nuclear Power Station, Rowe, MA
(January - December 2001)

MEDIUM: Fish (FH) UNITS: pCi/kg

Radionuclides* (No. Analyses) (Non-Routine**)	Required LLD	Indicator Stations *****	Sta.	Station With Highest Mean *****	Control Stations *****
		Mean (Range) (No. Detected***)		Mean (Range) (No. Detected***)	Mean (Range) (No. Detected***)
K-40 (4) (0)		2.9E 3 (2.2 - 3.5)E 3 (2/ 2)	21	3.0E 3 (2.7 - 3.3)E 3 (2/ 2)	3.0E 3 (2.7 - 3.3)E 3 (2/ 2)
Mn-54 (4) (0)	130	-3.9E 0 (-9.6 - 1.7)E 0 (0/ 2)	21	-2.8E 0 (-1.4 - 0.8)E 1 (0/ 2)	-2.8E 0 (-1.4 - 0.8)E 1 (0/ 2)
Co-58 (4) (0)	130	1.1E 1 (7.4 - 15.6)E 0 (0/ 2)	11	1.1E 1 (7.4 - 15.6)E 0 (0/ 2)	5.9E -2 (-4.4 - 4.6)E 0 (0/ 2)
Fe-59 (4) (0)		-2.2E 1 (-2.3 - -2.2)E 1 (0/ 2)	21	2.6E 1 (-2.2 - 7.5)E 1 (0/ 2)	2.6E 1 (-2.2 - 7.5)E 1 (0/ 2)
Co-60 (4) (0)	130	8.3E 0 (4.4 - 12.2)E 0 (0/ 2)	11	8.3E 0 (4.4 - 12.2)E 0 (0/ 2)	-2.9E -1 (-1.5 - 1.4)E 1 (0/ 2)
Zn-65 (4) (0)	260	-3.6E 1 (-5.1 - -2.1)E 1 (0/ 2)	21	-1.1E 1 (-1.4 - -0.8)E 1 (0/ 2)	-1.1E 1 (-1.4 - -0.8)E 1 (0/ 2)
Cs-134 (4) (0)	130	4.2E 0 (-1.1 - 9.5)E 0 (0/ 2)	11	4.2E 0 (-1.1 - 9.5)E 0 (0/ 2)	-7.2E 0 (-1.2 - -0.3)E 1 (0/ 2)
Cs-137 (4) (0)	150	3.5E 1 (3.1 - 3.9)E 1 (0/ 2)	11	3.5E 1 (3.1 - 3.9)E 1 (0/ 2)	5.5E 0 (-9.1 - 20.1)E 0 (0/ 2)

* The radionuclides reported in this table are those with LLD requirements, those for which positive radioactivity was detected, or those that were of specific interest for any other reason.

** Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table 4.2.

*** The fraction of sample analyses yielding detectable measurements (i.e. >3 standard deviations) is shown in parentheses.

Table 3.1
Radiological Environmental Program Summary
Yankee Nuclear Power Station, Rowe, MA
(January - December 2001)

MEDIUM: Food Crop (TF) UNITS: pCi/kg

Radionuclides* (No. Analyses) (Non-Routine**)	Required LLD	Indicator Stations *****	Sta.	Station With Highest Mean *****	Control Stations *****
		Mean (Range) (No. Detected***)		Mean (Range) (No. Detected***)	Mean (Range) (No. Detected***)
K-40 (3) (0)		4.9E 3 (8.1 - 89.7)E 2 (2/ 2)	11	9.0E 3 (1/ 1)	1.9E 3 (1/ 1)
Co-58 (3) (0)		-1.6E 1 (-2.4 - -0.8)E 1 (0/ 2)	21	-1.4E 0 (0/ 1)	-1.4E 0 (0/ 1)
Co-60 (3) (0)		-2.4E 1 (-2.6 - -2.2)E 1 (0/ 2)	21	-5.1E 0 (0/ 1)	-5.1E 0 (0/ 1)
I-131 (3) (0)		1.6E 0 (-1.1 - 1.5)E 1 (0/ 2)	13	1.5E 1 (0/ 1)	3.8E 0 (0/ 1)
Cs-134 (3) (0)	60	1.7E 1 (0.0 - 3.5)E 1 (0/ 2)	11	3.5E 1 (0/ 1)	-7.2E 0 (0/ 1)
Cs-137 (3) (0)	80	1.1E 1 (6.3 - 16.3)E 0 (0/ 2)	13	1.6E 1 (0/ 1)	3.0E 0 (0/ 1)

* The radionuclides reported in this table are those with LLD requirements, those for which positive radioactivity was detected, or those that were of specific interest for any other reason.

** Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table 4.2.

*** The fraction of sample analyses yielding detectable measurements (i.e. >3 standard deviations) is shown in parentheses.

Table 3.1
Radiological Environmental Program Summary
Yankee Nuclear Power Station, Rowe, MA
(January - December 2001)

MEDIUM: Maple Syrup (MS) UNITS: pCi/kg

Radionuclides* (No. Analyses) (Non-Routine**)		Required LLD	Indicator Stations *****	Station With Highest Mean *****		Control Stations *****
			Mean (Range) (No. Detected***)	Sta.	Mean (Range) (No. Detected***)	Mean (Range) (No. Detected***)
K-40	(2)		1.8E 3	33	1.8E 3	1.5E 3
	(0)		(1/ 1)		(1/ 1)	(1/ 1)
Co-58	(2)		6.4E -2	45	3.6E -1	3.6E -1
	(0)		(0/ 1)		(0/ 1)	(0/ 1)
Co-60	(2)		-2.9E 0	45	-1.4E 0	-1.4E 0
	(0)		(0/ 1)		(0/ 1)	(0/ 1)
I-131	(2)		2.1E 0	33	2.1E 0	-4.9E 0
	(0)		(0/ 1)		(0/ 1)	(0/ 1)
Cs-134	(2)	60	8.6E -1	45	1.1E 0	1.1E 0
	(0)		(0/ 1)		(0/ 1)	(0/ 1)
Cs-137	(2)	80	1.8E 1	33	1.8E 1	1.4E 1
	(0)		(1/ 1)		(1/ 1)	(1/ 1)

* The radionuclides reported in this table are those with LLD requirements, those for which positive radioactivity was detected, or those that were of specific interest for any other reason.

** Non-Routine refers to those radionuclides that exceeded the Reporting Levels in ODCM Table 4.2.

*** The fraction of sample analyses yielding detectable measurements (i.e. >3 standard deviations) is shown in parentheses.

TABLE 3.2***ENVIRONMENTAL TLD DATA SUMMARY*
(JANUARY - DECEMBER 2001)***

<u>INDICATOR TLDs</u>	<u>OUTER RING TLDs</u>	<u>FENCELINE TLDs**</u>	<u>CONTROL TLDs</u>
MEAN	MEAN	MEAN	MEAN
RANGE	RANGE	RANGE	RANGE
<u>(NO. MEASUREMENTS)*</u>	<u>(NO. MEASUREMENTS)*</u>	<u>(NO. MEASUREMENTS)*</u>	<u>(NO. MEASUREMENTS)*</u>
6.4 ± 0.9	6.2 ± 1.1	7.2 ± 1.1	7.0 ± 0.8
4.1 - 8.3	4.3 - 8.5	5.3 - 9.1	5.2 - 7.7
(51)	(36)	(36)	(8)

OFFSITE STATION WITH HIGHEST MEAN

	MEAN
STA.	RANGE
<u>NO.</u>	<u>(NO. MEASUREMENTS)*</u>
GM-38	7.5 ± 1.3
	5.9 - 8.5
	(4)

* Each "measurement" is based on quarterly readings from five TLD elements. Measurement units are $\mu\text{R/hr}$.

** Not part of REMP Program.

TABLE 3.3
2001 ENVIRONMENTAL TLD MEASUREMENTS*
(Micro-R per hour)

Sta. No.	Description	1ST QUARTER		2ND QUARTER		3RD QUARTER		4TH QUARTER		ANNUAL
		EXP.	S.D.	EXP.	S.D.	EXP.	S.D.	EXP.	S.D.	AVE. EXP.
GM-01	YNPS Visitor's Center	5.6 ± 0.2		6.9 ± 0.2		6.8 ± 0.3		6.7 ± 0.3		6.5
GM-02	Observation Stand	5.0 ± 0.4		5.9 ± 0.3		6.4 ± 0.3		6.1 ± 0.3		5.8
GM-03	Rowe School	4.1 ± 0.2		5.6 ± 0.3		5.3 ± 0.2		5.3 ± 0.3		5.1
GM-04	Harriman Station	4.9 ± 0.3		5.8 ± 0.2		5.5 ± 0.3		5.7 ± 0.3		5.5
GM-05	Monroe Bridge	6.6 ± 0.2		7.3 ± 0.3		7.1 ± 0.3		7.0 ± 0.3		7.0
GM-06	Readsboro Rd. Barrier	5.3 ± 0.3		6.9 ± 0.4		7.3 ± 0.4		7.3 ± 0.3		6.7
GM-07	Whitingham Line	5.8 ± 0.7		6.4 ± 0.2		7.7 ± 0.3		7.4 ± 0.3		6.8
GM-08	Monroe Hill Barrier	5.1 ± 0.2		5.8 ± 0.4		6.3 ± 0.3		6.2 ± 0.3		5.8
GM-09	Dunbar Brook	5.3 ± 0.3		6.9 ± 0.3		7.3 ± 0.4		7.1 ± 0.3		6.7
GM-10	Cross Rd.	4.8 ± 0.3		6.2 ± 0.2		6.9 ± 0.3		6.5 ± 0.3		6.1
GM-11	Adams High Line	5.1 ± 0.4		6.8 ± 0.2		6.5 ± 0.2		7.1 ± 0.3		6.4
GM-12	Readsboro, VT	7.2 ± 0.4		7.9 ± 0.3		8.3 ± 0.5		7.8 ± 0.5		7.8
GM-13	Indust. Area Fence	6.1 ± 0.3		7.7 ± 0.4		8.5 ± 0.4		8.3 ± 0.5		7.7
GM-14	Indust. Area Fence	5.6 ± 0.4		7.1 ± 0.3		7.4 ± 0.4		7.1 ± 0.3		6.8
GM-15	Indust. Area Fence	5.8 ± 0.4		6.9 ± 0.2		7.5 ± 0.5		7.1 ± 0.3		6.8
GM-16	Indust. Area Fence	5.7 ± 0.3		6.7 ± 0.3		7.1 ± 0.3		7.1 ± 0.3		6.6
GM-17	Indust. Area Fence	5.7 ± 0.7		6.9 ± 0.4		7.7 ± 0.4		7.6 ± 0.3		7.0
GM-18	Indust. Area Fence	6.8 ± 0.4		8.1 ± 0.3		8.9 ± 0.3		9.0 ± 0.3		8.2
GM-19	Indust. Area Fence	6.0 ± 0.2		7.3 ± 0.2		8.8 ± 0.3		9.1 ± 0.3		7.8
GM-20	Indust. Area Fence	5.7 ± 0.3		7.4 ± 0.2		8.7 ± 0.3		8.7 ± 0.4		7.6
GM-21	Indust. Area Fence	5.3 ± 0.3		6.5 ± 0.3		7.1 ± 0.4		7.4 ± 0.3		6.6
GM-22	Heartwellville, VT	5.2 ± 0.3		7.2 ± 0.4		7.4 ± 0.3		7.7 ± 0.4		6.9
GM-23	Williamstown Subst.	6.8 ± 0.3		7.3 ± 0.2		7.2 ± 0.7		7.7 ± 0.4		7.2
GM-25	Whitingham, VT	4.8 ± 0.3		5.8 ± 0.3		6.5 ± 0.3		5.9 ± 0.4		5.8
GM-27	Number 9 Rd.	4.6 ± 0.2		5.9 ± 0.3		6.3 ± 0.4		6.0 ± 0.3		5.7
GM-29	Route 8A	4.3 ± 0.5		4.8 ± 0.3		5.0 ± 0.3		4.8 ± 0.2		4.7
GM-31	Legate Hill Rd.	5.0 ± 0.3		6.2 ± 0.3		6.2 ± 0.3		6.8 ± 0.3		6.1
GM-32	Rowe Rd.	5.1 ± 0.2		6.6 ± 0.3		7.0 ± 0.2		6.5 ± 0.4		6.3
GM-33	Zoar Rd.	5.6 ± 0.2		6.3 ± 0.2		7.4 ± 0.3		6.8 ± 0.3		6.5
GM-35	Whitcomb Summit	5.4 ± 0.5		6.7 ± 0.3		7.7 ± 0.3		7.9 ± 0.4		6.9
GM-36	Tilda Rd.	5.3 ± 0.2		6.5 ± 0.3		6.7 ± 0.2		7.8 ± 0.9		6.6
GM-38	West Hill Rd.	5.9 ± 0.3		7.1 ± 0.3		8.4 ± 0.5		8.5 ± 0.5		7.5
GM-40	Readsboro Rd.	5.0 ± 0.2		6.8 ± 0.3		7.0 ± 0.4		6.9 ± 0.3		6.5

* Each "measurement" is based on quarterly readings from five TLD elements.

4.0 ANALYSIS OF ENVIRONMENTAL RESULTS

4.1 Sampling Program Deviations

ODCM Control 4.1 allows for deviations "if specimens are unobtainable due to hazardous conditions, seasonal unavailability or malfunction of automatic sampling equipment." There was only one program deviation noted in the REMP during 2001:

- April change-out of the first quarter TLD at station GM-05 (Monroe Bridge) indicated that the TLD reported as missing for the fourth quarter 2000 had actually been left out in the field for a six-month exposure period.

4.2 Comparison of Achieved LLDs with Requirements

Table 4.3 of the ODCM (Table 2.4 in this report) gives the required Lower Limits of Detection (LLDs) for environmental sample analyses. On occasion, an LLD is not achieved due to situations such as a low sample volume caused by sampling equipment malfunction. In such a case, Control 7.1 of the ODCM requires a discussion of the situation in the Annual Radiological Environmental Operating Report. At the DESEL, the target LLD for any analysis is typically 30-40 percent of the most restrictive required LLD. Expressed differently, the typical sensitivities achieved for each analysis are at least 2.5 to 3 times better than that required by the YNPS ODCM.

For each analysis having an LLD requirement in ODCM Table 4.3, the *a posteriori* or after the fact LLD calculated for that analysis was compared with the required LLD. Of the more than 670 analyses performed with a specified LLD requirement, 99.7% met the requirements of Table 4.3 of the ODCM in 2001. Two storm drain samples for station 51 did not meet the required LLD. However, these samples are not a required part of the REMP as it is not a location specified in the ODCM.

4.3 Results Compared Against Reporting Levels

ODCM Control 4.1.a. requires the written notification to the NRC within 30 days whenever a Reporting Level in ODCM Table 4.2 is exceeded. Reporting Levels are the environmental concentrations that relate to the ALARA design dose objectives of 10 CFR 50, Appendix I. It should be noted that environmental concentrations are averaged over calendar quarters for the purposes of this comparison, and that Reporting Levels apply only to measured levels of radioactivity due to plant effluents. During 2001, no Reporting Levels were exceeded.

4.4 Data Analysis by Media Type

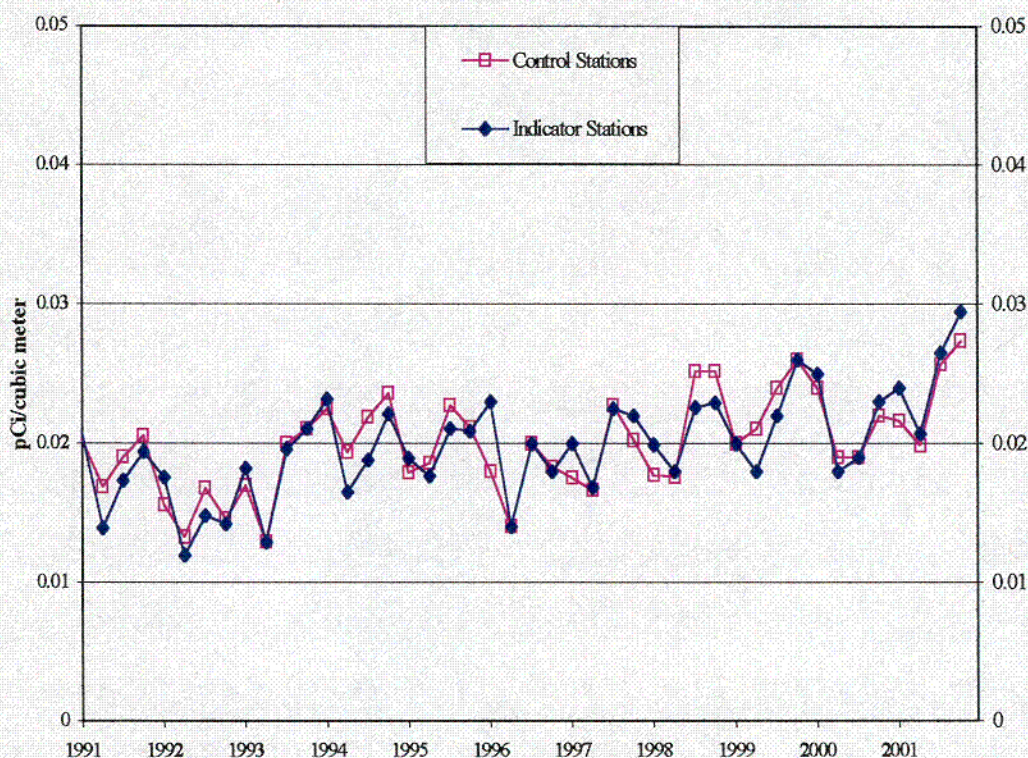
The 2001 REMP data for each media type are discussed below. These are arranged in the same order as in Table 3.1, and are further categorized by pathway. Graphical plots of monitoring data are also shown in Figures 4-1 to 4-11. With respect to data plots, all values are plotted, whether they are "detectable" or "non-detectable."

4.4.1 Air Particulates

The biweekly air particulate filters from each of the six operating sampling sites were analyzed for gross-beta radioactivity. At the end of each quarter, the individual filters collected during the quarter from each sampling site were composited for a gamma analysis. The results of the biweekly air-particulate sampling program are shown in Table 3.1 and Figures 4-1 through 4-2.

Figure 4-1

Gross-Beta Measurements on Air Particulate Filters
(Quarterly Averages)

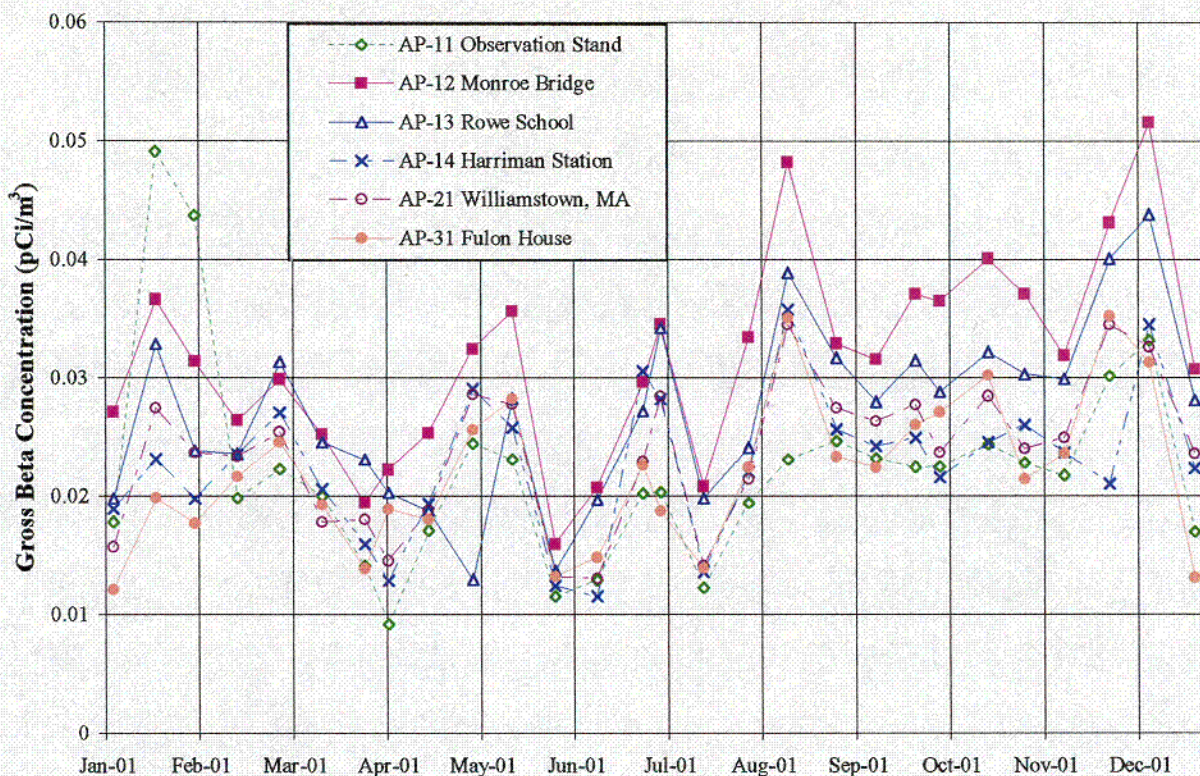


As shown in Figure 4-1, there has been no significant difference between the concentration at the indicator (near-plant) stations and the control (distant from plant) stations.

Figure 4-2 shows the biweekly gross beta concentration at each air particulate sampling location required by the ODCM along with the control air particulate sampling location at AP-21 (Williamstown, MA). It can be seen that the gross-beta measurements on air particulate filters fluctuate significantly over the course of a year. This is due principally to seasonal variations and the related effects on naturally occurring terrestrial radionuclide emissions. The measurements from control station AP-21 vary similarly, indicating that these fluctuations are due to regional changes in naturally-occurring airborne radioactive materials, and not due to YNPS operations. Table 3.1 shows that the mean concentration from indicator stations, on the average, are similar to those from control locations, further supporting this conclusion.

Figure 4-2

Bi-Weekly Air Particulate Gross Beta Analysis Results



4.4.2 River Water

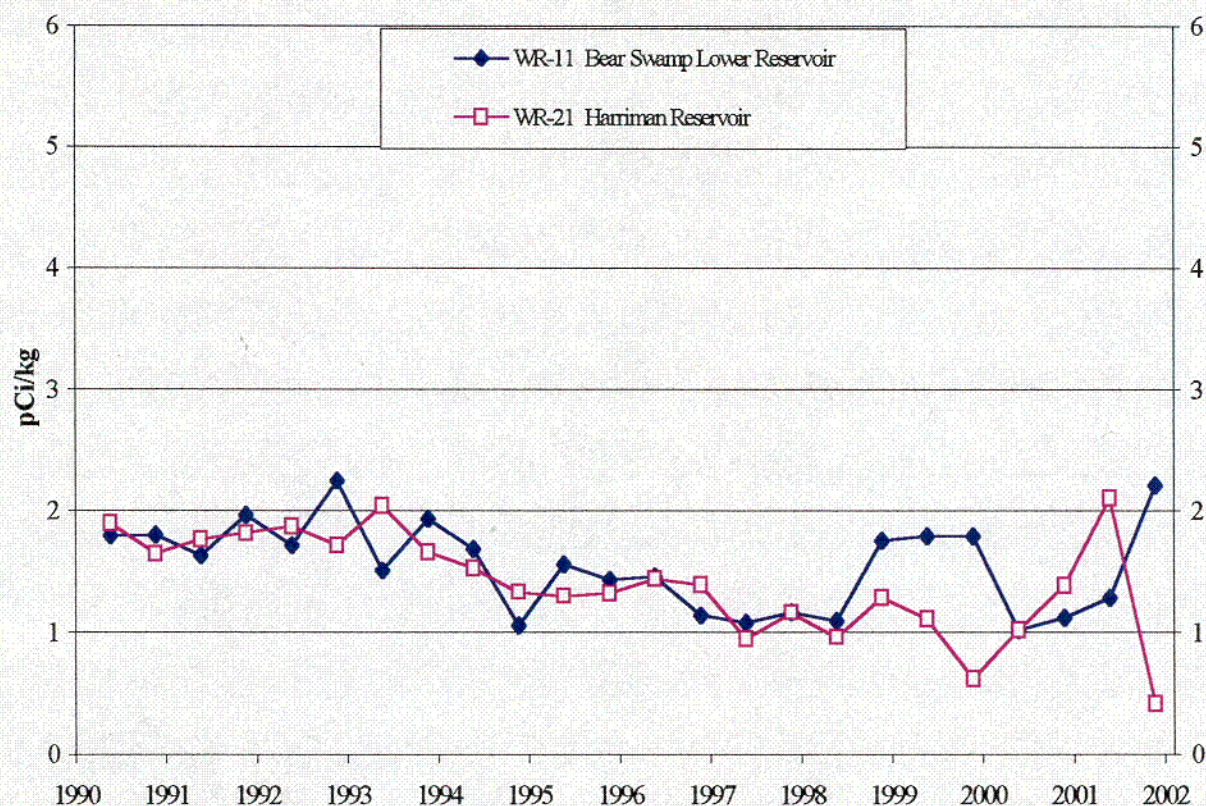
Aliquots of river water were automatically collected every two hours from the Deerfield River downstream from the plant. These composited samples were collected monthly and sent to the DESEL for analysis. Monthly grab samples were also collected at the Harriman Reservoir control location and at Sherman Pond near the discharge area.

Table 3.1 shows that gross-beta measurements were positive in fifteen of the thirty-seven samples collected, as would be expected, due to naturally-occurring radionuclides in the water. The historical concentrations at the indicator and control locations have not been significantly different, as shown in Figure 4-3 except during the last half of 1992 and 1998-1999 when the levels at WR-11 were slightly elevated relative to the control. This was attributed to naturally-occurring radioactivity and is discussed in the 1992, 1993, 1998, and 1999 Annual Radiological Environmental Operating Reports.

C-08

Figure 4-3

**Gross-Beta Measurements of River Water
(Semi-Annual Averages)**



No gamma-emitting radionuclides attributable to activities at YNPS were detected in any of the samples. For each sampling site, the monthly samples were composited into quarterly samples for H-3 analyses. No H-3 was detected in river water samples during 2001.

Beginning in July 1994, a split-sampling program was undertaken in cooperation with the Massachusetts Radiation Control Program (MCRP). Water samples are collected at the discharge point and then split with the MCRP, at their discretion. During 2001, one sample was split and analyzed by the DESEL and the MCRP laboratory. A gamma spectroscopy and H-3 analysis was performed on the sample. No radioactivity was detected in the 2001 samples, as analyzed at the DESEL. In Figure 2.1 and Table 2.2, this sample location is in the same vicinity as WR-31. In the data collected in Table 3.1, this location is labeled as WR-91 to distinguish it from routine REMP samples collected from WR-31.

4.4.3 Ground Water

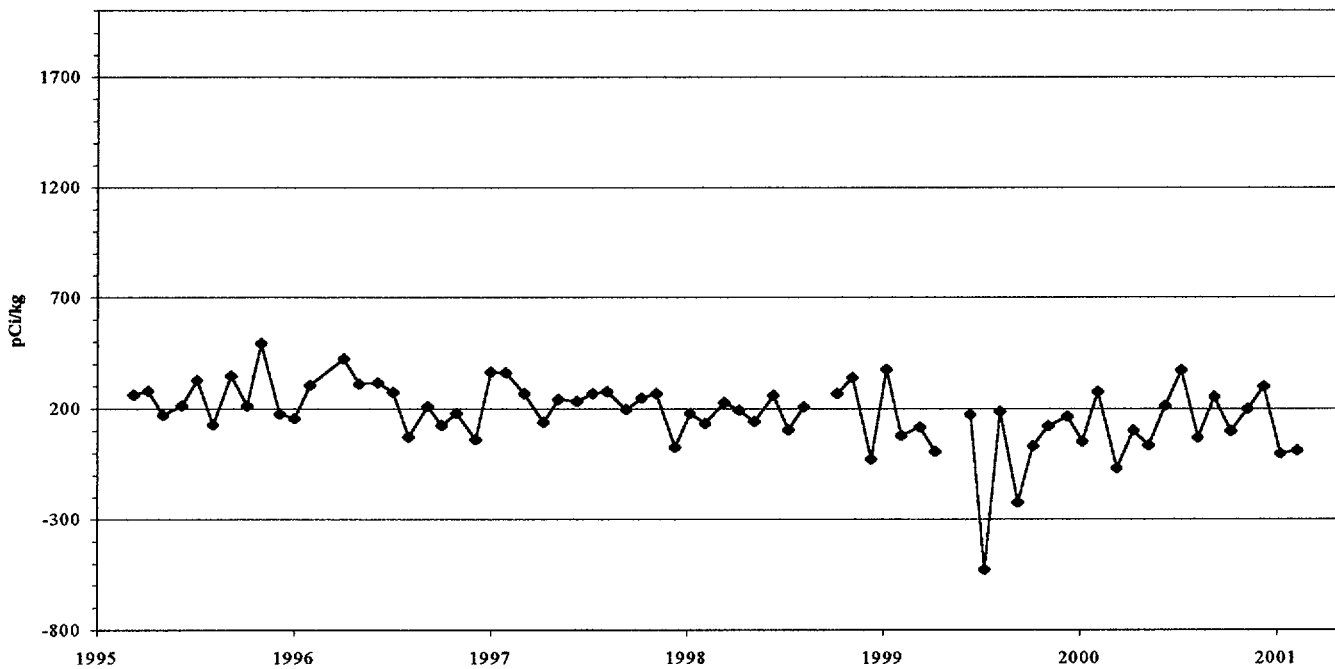
Monthly ground water samples were collected from two on-site locations during 2001. (Only quarterly samples are required by ODCM Table 4.1.) Table 3.1 shows that gross-beta measurements were positive in most of the samples. This is due to naturally-occurring radionuclides in the water.

Tritium was also detected in two of the samples from WG-12 (Sherman Springs). A steadily decreasing concentration of H-3 has been detected in previous years in Sherman Spring samples, as shown in Figure 4-4. The water from Sherman Spring leaves the ground on YNPS property and flows into the Deerfield River. Neither the Deerfield River nor Sherman Spring are used for drinking water.

No gamma-emitting radionuclides were detected in any of the ground water samples.

Figure 4-4

**Tritium in Ground Water
Station WG-12, Sherman Spring**



4.4.4 Storm Drain Water

Monthly grab samples were collected from the East and West Storm Drains (WW-51 and 52) when available during 2001. Each sample was analyzed for gross-beta and gamma-emitting radionuclides and H-3. Gross-beta measurements were positive in twenty-two of the twenty-four samples taken, as would be expected. The levels are consistent with those from previous years. No gamma-emitting radionuclides or H-3 were detected in any of the samples.

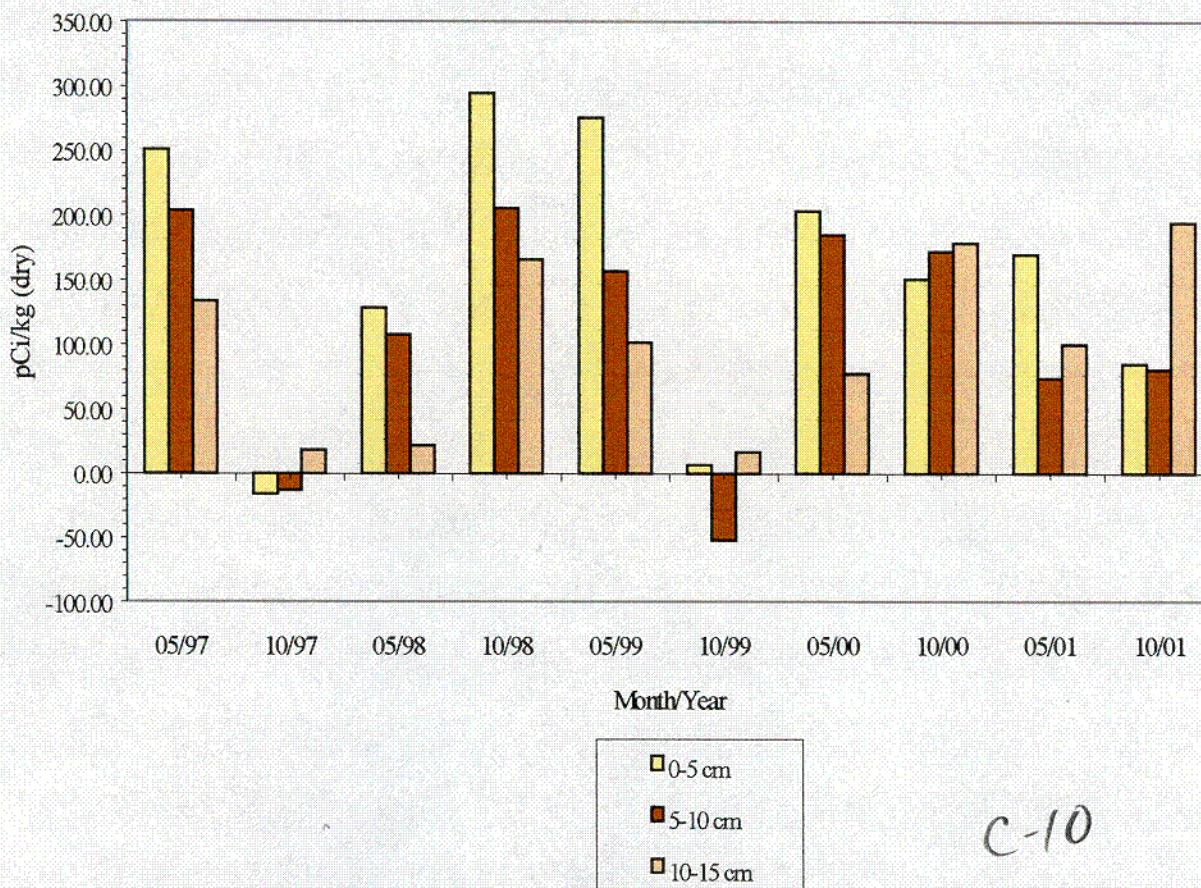
4.4.5 Sediment

Semiannual sediment core samples were collected from three locations during 2001. Each set of samples was segmented by depth (0-5, 5-10, 10-15 cm) and analyzed for gamma-emitting radionuclides. As would be expected, naturally-occurring K-40 and Th-232 were detected in most of the samples.

In addition to the naturally-occurring radionuclides, Cs-137 was detected in half of the segments. The results from the 0-5 cm depth segment from downstream location SE-11 are consistent with what has been measured in previous years (see Figure 4-5) and is attributed to nuclear weapons testing fallout. The Cs-137 in the 5-10 cm and 10-15 cm depth segments at SE-11 are bounded by levels previously reported at the control location (SE-21). The levels and the distribution of the Cs-137 in the core segments indicate nuclear weapons testing fallout as the origin. At both the indicator and the control location, the character of the sediment is highly dependent on the specific location sampled, which in turn is dependent on

FIGURE 4-5

CESIUM-137 IN SHORELINE SEDIMENT STATION SE-11



the water level in Harriman Reservoir or on the Deerfield River shoreline at the time of sampling. The diverse character of the sediment at either location and the fact that Cs-137 tends to bind more to sediment containing organic matter than to sandy and rocky sediment leads to a wide range of Cs-137 concentrations, as shown in Figures 4-5 through 4-7.

FIGURE 4-6

CESIUM-137 IN SHORELINE SEDIMENT STATION SE-21

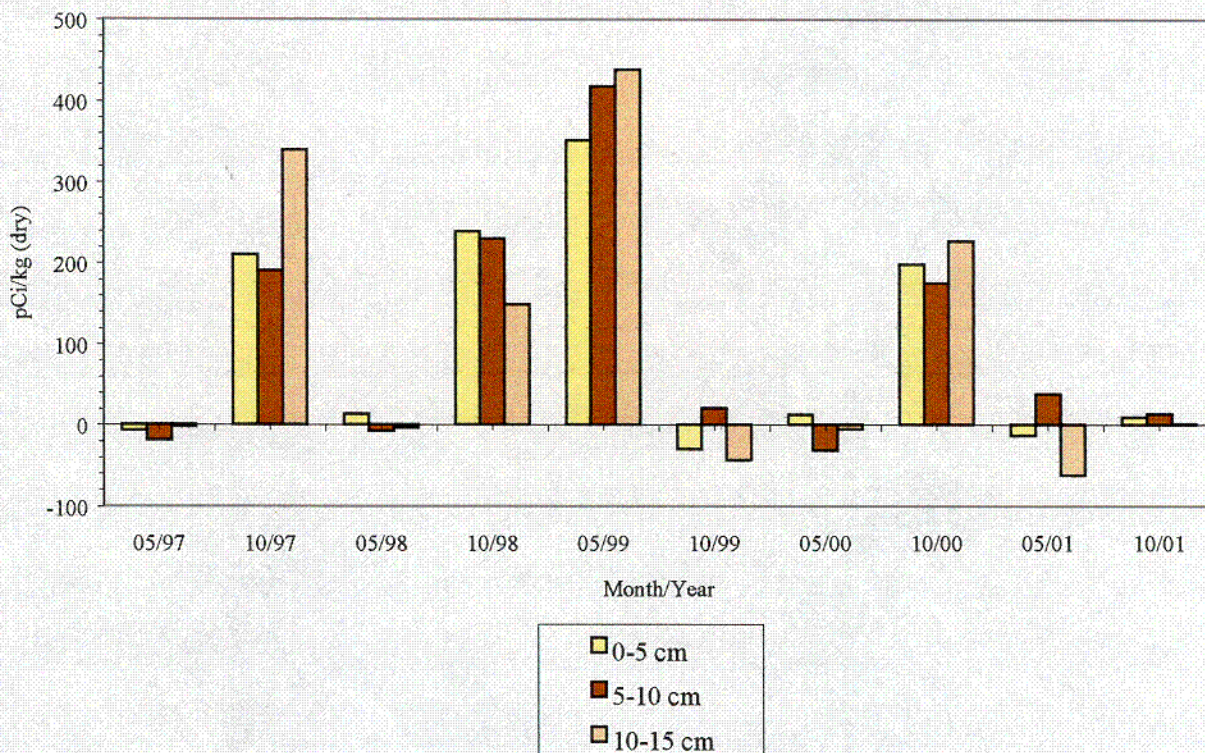


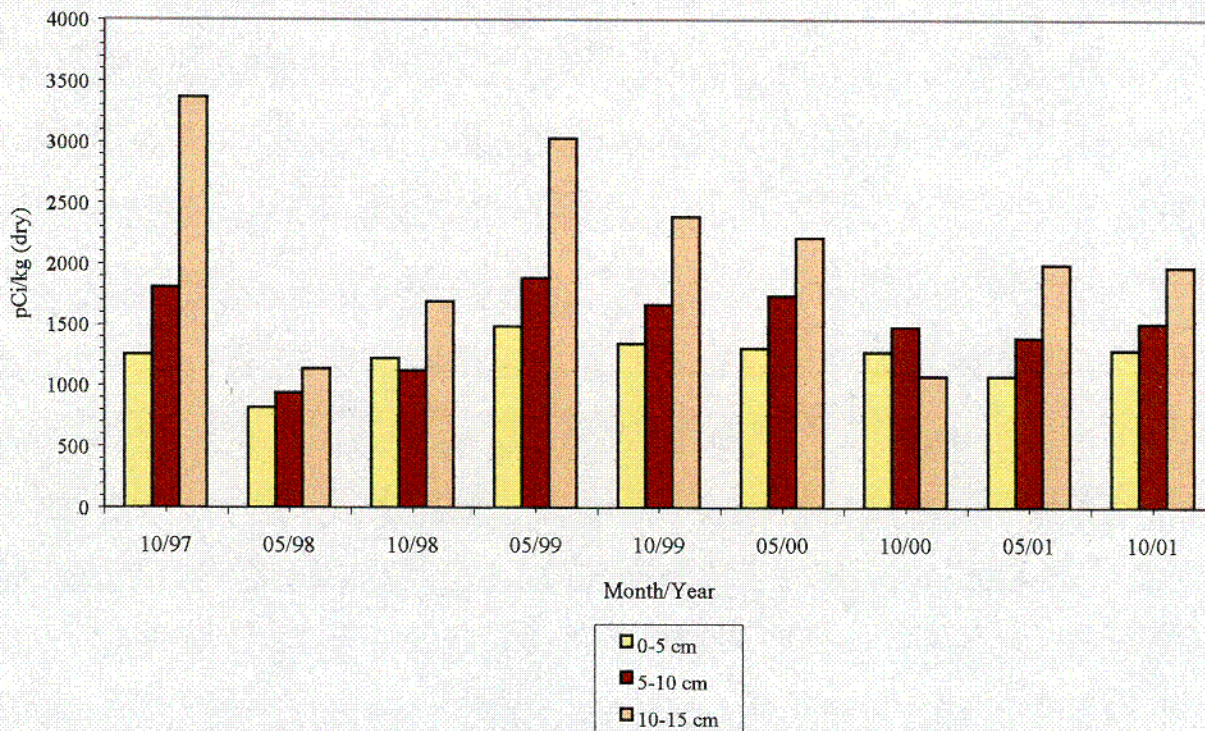
Table 3.1 and Figure 4-7 show the levels of Cs-137 at station SE-91. These samples were collected from a deep water location near the plant discharge in Sherman Pond. Although much of the Cs-137 in this sediment is due to global nuclear weapons testing fallout, some of the Cs-137 in these samples is likely due to effluents released from monitored plant discharges. It is believed that the higher Cs-137 levels at SE-91, whether due to fallout or plant effluents, are related to the physical make-up of the sediment (rich organic benthic layer) at the bottom of Sherman Pond.

Co-60 has also been detected in the deep water sediment at SE-91. With respect to 2001 samples, the 0-5 cm segment from the core taken in May 2001 at SE-91 showed a concentration of 53 ± 10 pCi/kg-dry and the 10-15 cm segment showed a concentration of 48 ± 14 pCi/kg-dry. This sample, as all others at SE-91, were collected in deep water, well away from the shoreline and is attributed to licensed plant discharges in past years. None of this radioactivity is involved in any significant pathway to exposure to man.

C-11

FIGURE 4-7

CESIUM-137 IN SHORELINE SEDIMENT STATION SE-91



4.4.6 Milk

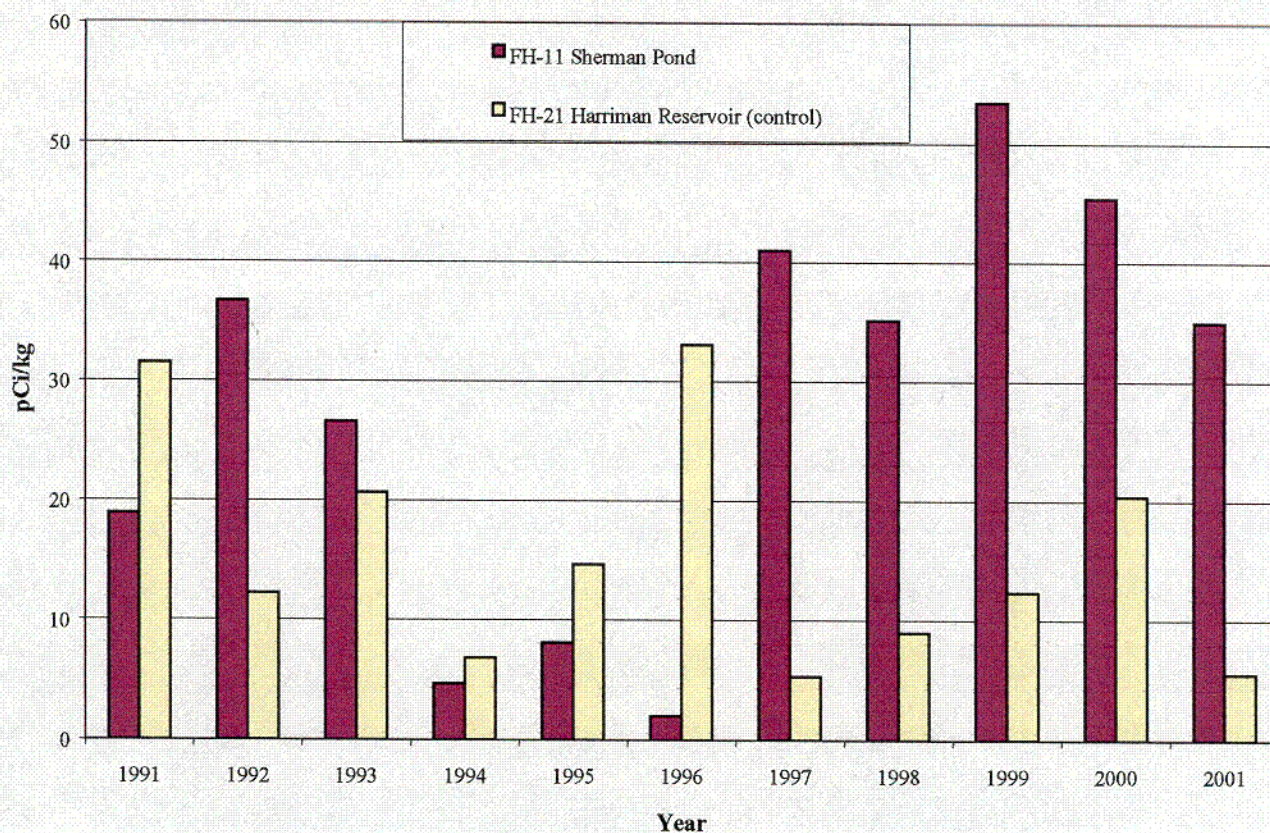
Milk samples from cows at one control farm were collected monthly (when available) during the year. The indicator farm sold its milking cows in August 1998, making indicator milk samples unavailable since this time. Each sample was analyzed for gamma-emitting radionuclides. Quarterly composites, by location, were analyzed for Sr-89 and Sr-90.

As expected, naturally-occurring K-40 was detected in all samples. Sr-90 was detected in one of the four composite samples. The Sr-90 levels are consistent with those detected in previous years near YNPS and is indicative of the residual levels due to weapons testing fallout.

4.4.7 Fish

Semiannual samples of fish were collected from two locations during 2001. The edible portions of each of these were analyzed for gamma-emitting radionuclides. As expected in biological matter, naturally-occurring K-40 was detected in all samples. No other gamma emitting radionuclides were detected in 2001 fish samples. The average Cs-137 concentrations shown in Figure 4-8 are not considered detectable or "positive" measurements. The wide variation in Cs-137 activity is primarily due to the different species of fish and the specific eating habits of the fish. Fish that are bottom feeders would tend to pick up more of the Cs-137 activity located in the water sediment.

FIGURE 4-8

CESIUM-137 IN FISH
ANNUAL AVERAGE CONCENTRATIONS

4.4.8 Food

Three food samples were collected during 2001 and analyzed for gamma-emitting radionuclides. K-40 was detected in all three samples. No other gamma emitting radionuclides were detected in 2001 food samples.

4.4.9 Maple Syrup

Processed maple syrup samples were collected from an indicator and control location during the month of April. These samples had been concentrated, relative to the original tree sap, by boiling (see Section 2.5.9). Naturally-occurring K-40 and Cs-137 were detected in both samples. The concentrations of Cs-137 in 2001 samples are consistent with that detected in both indicator and control samples in previous years, and is attributed to global nuclear weapons testing fallout.

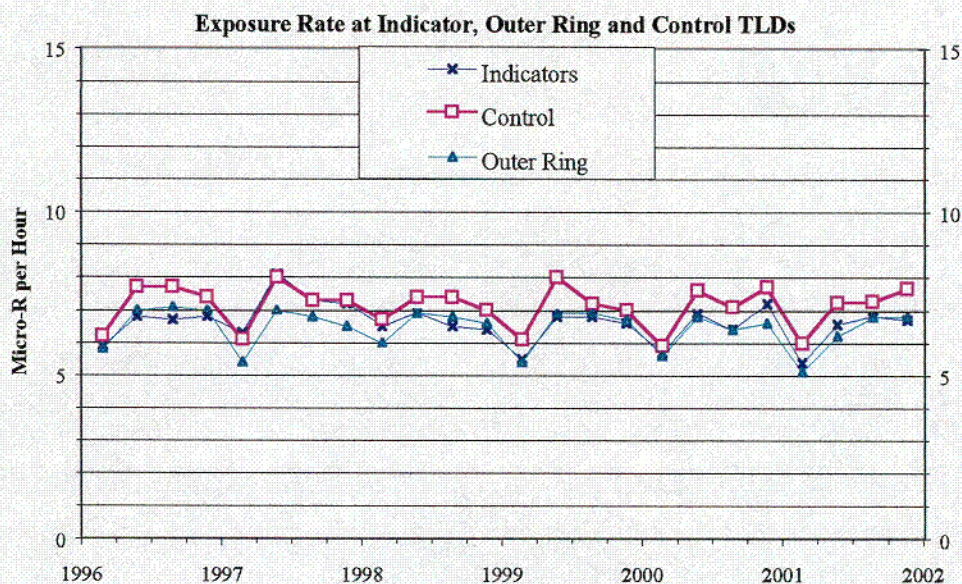
C-13

4.4.10 Direct Radiation

Direct radiation is continuously measured at 33 locations surrounding YNPS with the use of thermoluminescent dosimeters (TLDs). These are collected every calendar quarter for readout at the DESEL.

As shown in Figure 4-9, there is a distinct annual cycle at both indicator and control locations. The lowest point of the cycle occurs during the winter months. This is due primarily to the attenuating effect of the snow cover on radon emissions and on direct irradiation by naturally-occurring radionuclides in the soil. Differing amounts of these radionuclides in the underlying soil, rock or nearby building materials result in different radiation levels between one field site and another. From Table 3.2 and 3.3, it can be seen that the mean exposure rates for the Indicator, Outer Ring, and Control categories

Figure 4-9



were not significantly different in 2001. This indicates that there was no significant overall increase in direct radiation exposure rates in the plant vicinity. As shown in Figures 4-10 through 4-11, the levels in 2001 are consistent with or bounded by levels in previous years.

C-14

The Fenceline TLDs shown in Figures 4-11 and summarized in Tables 3.2 and 3.3 are located on the fence surrounding the Radiation Control Area within the YNPS property bounds, and are influenced by licensed plant activities. The Fenceline exposure rates have shown a declining trend as the decommissioning of the site has progressed.

Figure 4-10

Exposure Rate at Indicator TLDs, GM-01-GM-12

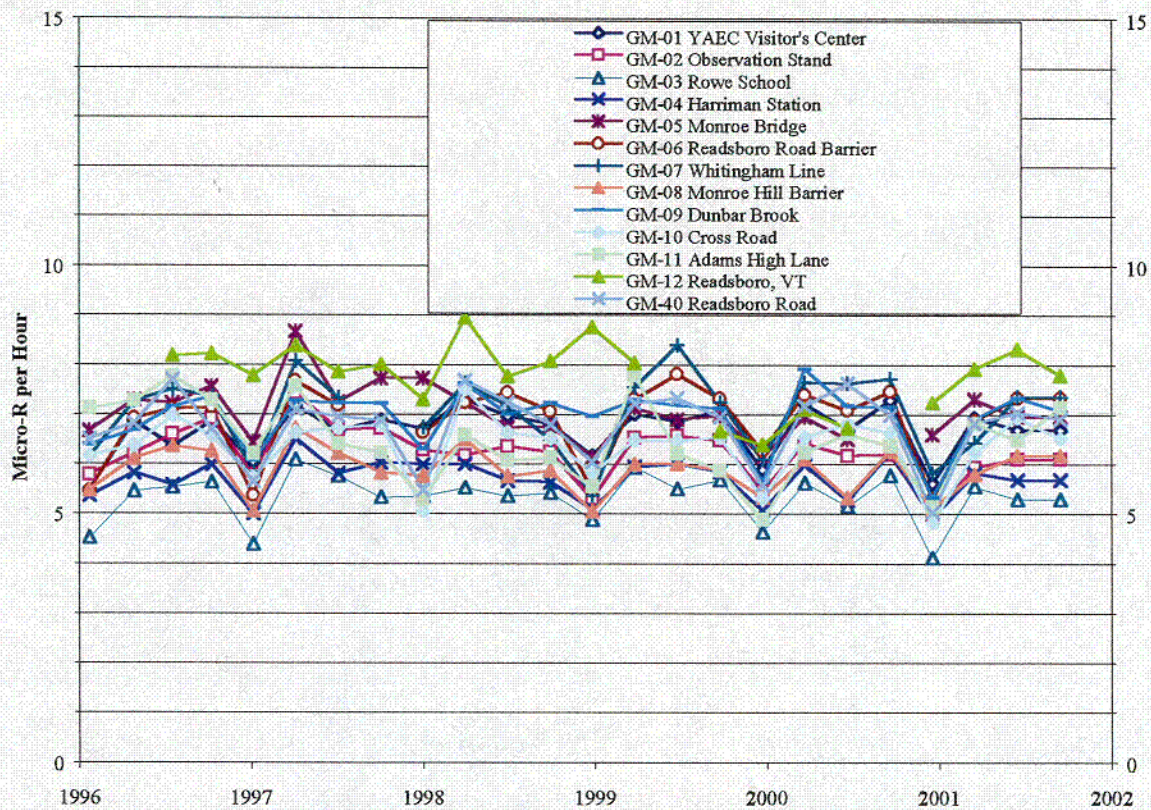
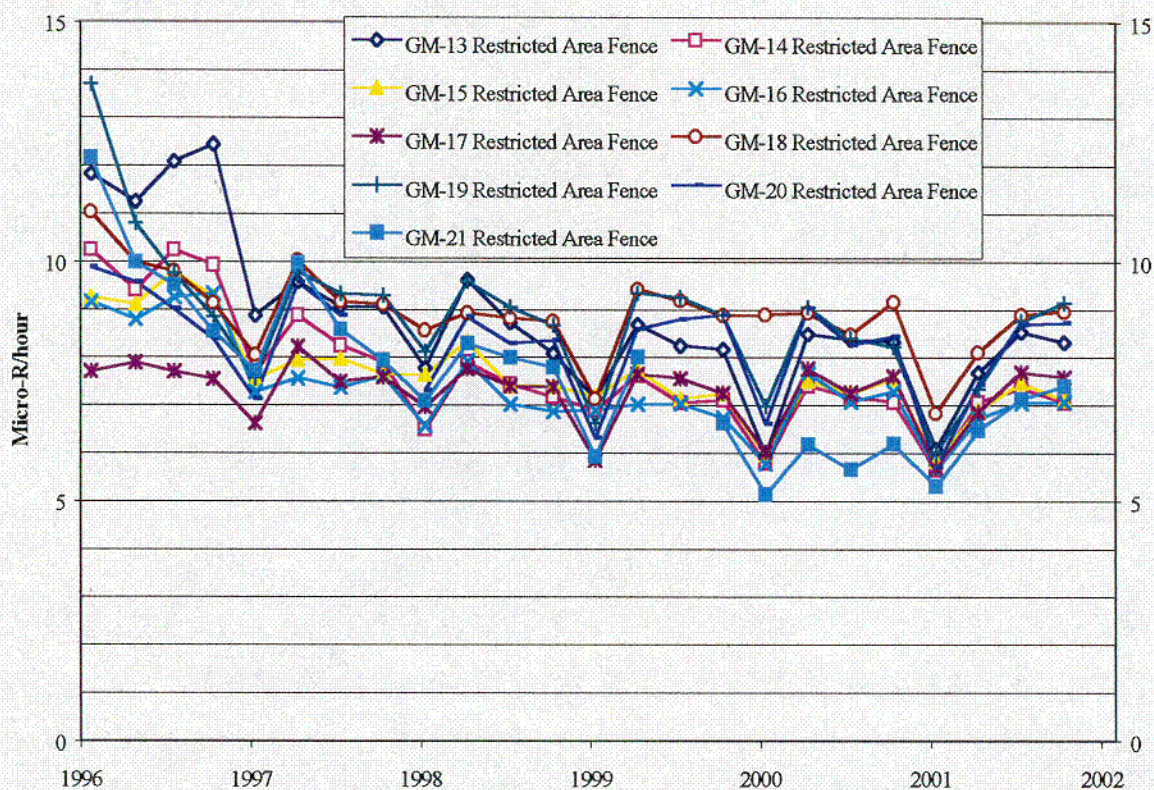


Figure 4-11

Exposure Rate at Fenceline TLDs



5.0 OFF-SITE DOSE EQUIVALENT COMMITMENTS

The purpose of this section is to evaluate off-site dose consequences (dose equivalent commitments) associated with detectable plant related radioactivity in environmental media. This assessment utilizes actual measurements of the concentration of radioactivity in various environmental media (e.g., air, milk, fish) to compute the dose consequences resulting from the inhalation or ingestion of such material. These evaluations can be used to provide assurance that the station's radioactive liquid and airborne effluent dose models are unlikely to underestimate actual impacts.

During 2001, there were a few instances where plant-related radioactivity was observed in environmental media. Station related tritium activity was observed in on-site well water. On-site well water is used for station processes and services, and is available for limited on-site human consumption. Comparing the maximum H-3 concentration observed (374 pCi/kg) to the EPA standard for tritium in drinking water of 4 mrem/year per 20,000 pCi/L (Reference 7) results in a predicted whole body dose of 0.075 mrem/year to an on-site individual (plant staff). In addition, Cesium-137 and Cobalt-60 were identified in bottom sediment samples. Although these concentrations maybe attributable to plant-related discharges in past years, these samples were taken from deep water sediment in Sherman Pond where there is no direct exposure pathway to man.

Since the REMP for 2001 did not indicate plant related radioactivity in off-site media associated directly with human inhalation or ingestion pathways, there is no indication that the plant's effluent dose models underestimate the dose impacts to members of the public.

6.0 REFERENCES

1. USNRC Radiological Assessment Branch Technical Position, "An Acceptable Radiological Environmental Monitoring Program," Revision 1, November 1979.
2. NCRP Report No. 94, Exposure of the Population in the United States and Canada from Natural Background Radiation, National Council on Radiation Protection and Measurements, 1987.
3. Ionizing Radiation: Sources and Biological Effects, United Nations Scientific Committee on the Effects of Atomic Radiation (UNSCEAR), 1982 Report to the General Assembly.
4. Kathren, Ronald L., Radioactivity and the Environment - Sources, Distribution, and Surveillance, Harwood Academic Publishers, New York, 1984.
5. Letter, "Issuance of Amendment No. 146 to Facility Possession Only License No. DPR-3-Yankee Nuclear Power Station," M. Fairtile, NRC to J. Grant, Yankee Atomic Electric Company, dated November 5, 1992.
6. NRC Generic Letter 89-01, Subject: Implementation of Programmatic Controls for Radiological Effluent Technical Specifications in the Administrative Controls Section of the Technical Specifications and the Relocation of Procedural Details of RETS to the Offsite Dose Calculation Manual or to the Process Control Program. Dated January 31, 1989.
7. USEPA, 40 CFR 141, National Primary Drinking Water Regulations.

APPENDIX A - LAND USE CENSUS FOR 2001

A Land Use Census is conducted annually between the dates of June 1 and October 1 to identify the locations of the nearest milk animal, the nearest residence, and the nearest garden of greater than 500 square feet producing fresh leafy vegetables in each of the 16 meteorological sectors within a distance of five miles of the plant.

Immediately following the collection of field data, in compliance with ODCM Control 4.2, a dosimetric analysis is performed to compare the census locations to the "Critical Receptor" identified in the ODCM. This Critical Receptor is the location that is used in the conservative Method I dose calculations found in the ODCM (i.e. the dose calculations done in compliance with ODCM Surveillance Requirement 3.4). If a Census location has a 20% greater potential dose than that of the Critical Receptor, this fact must be announced in the Semiannual Effluent Release Report for that period. A re-evaluation of which location to use as a Critical Receptor would also be done at that time. For the 2001 Census, no such location was identified.

Pursuant to ODCM Control 4.2, a dosimetric analysis is then performed, using site specific meteorological data, to determine which milk and food product census locations would provide the optimal sampling locations. If any location has a 20% greater potential dose commitment than at a currently-sampled location, the new location is added to the routine environmental sampling program in replacement of the location with the lowest calculated dose (which is later eliminated from the program). For the 2001 Census, no such garden location was identified, and consequently no changes were mandated for the food product sampling program. Also, there were no milk animal locations that could provide milk samples for the REMP identified in the 2001 census.

The Land Use Census was carried out and completed between the dates of June 1 and October 1, as required. The results of the 2001 Land Use Census are included in this report in compliance with ODCM Surveillance Requirement 4.2. The locations identified during the Census may be found in Table A-1.

TABLE A.1***2001 LAND USE CENSUS LOCATIONS***

SECTOR	NEAREST RESIDENCE Km (Mi)	NEAREST GARDEN Km (Mi)	NEAREST MILK ANIMAL Km (Mi)
N	5.2 (3.2)	6.0 (3.7)**	*
NNE	4.3 (2.7)	4.8 (3.0)	*
NE	3.4 (2.1)	3.5 (2.1)**	*
ENE	3.7 (2.3)	5.8 (3.6)	*
E	2.8 (1.8)	3.7 (2.3)**	*
ESE	3.4 (2.1)	3.4 (2.1)	*
SE	2.0 (1.3)	3.4 (2.1)	*
SSE	1.9 (1.2)	3.0 (1.9)	*
S	2.1 (1.3)	2.8 (1.8)	*
SSW	*	*	*
SW	1.3 (0.8)	7.2 (4.5)	*
WSW	1.3 (0.8)	1.9 (1.2)	*
W	2.1 (1.3)	2.9 (1.8)	*
WNW	2.1 (1.3)	2.1 (1.3)	*
NW	2.4 (1.5)	2.4 (1.5)	*
NNW	2.9 (1.8)	3.7 (2.3)	*

* No location was identified within 5 miles of the plant.

** New location in 2001

APPENDIX B - QUALITY CONTROL PROGRAM

QUALITY ASSURANCE PROGRAM

The quality assurance program at the Duke Engineering & Services Environmental Laboratory (DESEL) is designed to serve two overall purposes: 1) Establish a measure of confidence in the measurement process to assure the licensee, regulatory agencies and the public that analytical results are accurate and precise; and 2) Identify deficiencies in the sampling and/or measurement process to those responsible for these operations so that corrective action can be taken. Quality assurance is applied to all steps of the measurement process, including the collection, measurement and reporting of data, as well as the record keeping of the final results. Quality control, as part of the quality assurance program, provides a means to control and measure the characteristics of the measurement equipment and processes, relative to established requirements.

The DESEL employs a comprehensive quality assurance program designed to monitor the quality of analytical processing to ensure reliable environmental monitoring data. The program includes the use of controlled procedures for all work activities, a nonconformance and corrective action tracking system, systematic internal audits, audits by external groups, a laboratory quality control program, and a staff training program. Monitoring programs include the Intralaboratory Quality Control Program administered by the Laboratory QA Officer (used in conjunction with the National Institute of Standards and Technology Measurement Assurance Program, NIST MAP) and a third party cross check program administered by Analytics, Inc. Together these programs are targeted to supply QC/QA sources at 5% of the client sample analysis load. In addition the Laboratory Quality Control Audit Committee administers a blind duplicate program conducted through client environmental monitoring programs.

This summary reports all intralaboratory and third party results received by DESEL on or before December 31, 2001.

Intralaboratory Quality Control Program

The DESEL QA Officer administers an extensive intralaboratory quality control program in which process check samples are submitted for analysis. These samples are submitted either in duplicate to evaluate the precision of a measurement process or are "spiked" with a known amount of radioactive material to assess the bias in the measurement. Table B.1 provides the summary of the process check results for January to December 2001. Of the 290 analyses, 97.9% passed the bias criteria and 100% of the results evaluated for precision were acceptable. For 2001, the individual gross alpha and beta failures may not initiate an investigation unless the mean of three consecutive results is outside the DESEL performance criteria. During 2001, a spiked alpha or beta sample was run with each set of client samples. Samples were reprocessed if the individual spike sample was outside the $\pm 25\%$ criteria.

Third Party Cross Check Program

The DESEL participates in a third party cross check program managed by Analytics Inc. to satisfy the requirement of the Environmental Technical Specification/ODCM. The DESEL Analytics program was originally used to augment the EPA Intercomparison Program that it now replaces. The current program is designed to be comparable to the pre-1996 EPA PE Program in terms of the number of samples, matrices and nuclides. The results for the 4th quarter 2000 through the 3rd quarter 2001 are summarized in Table B.2. Each sample is analyzed in triplicate and

the results are evaluated against the internal acceptance criteria described in the DESEL Manual 100-Laboratory Quality Assurance Plan. This acceptance protocol is used for all interlaboratory programs with no pre-set acceptance criteria. When results fall outside of the acceptance criteria, an investigation is initiated to determine the cause of the problem and if appropriate, corrective measures are taken. The DESEL internal acceptance criteria are summarized at the end of Table B.2.

Investigations were initiated for the Analytics results that fell within the 'non-agreement' category.

- Sr-89 on filter – Low Sr89:Sr90 ratio. Evaluation pending as of 12/31/2001.
- Np-237 in water - Non-agreement due to contaminated glassware. Glassware will be disposed following processing of spiked samples. Investigation closed as of 12/31/01.
- Sr-89 in milk - Evaluation ongoing.

Blind Duplicate Program

The Laboratory Quality Control Audit Committee (LQCAC) is comprised of representatives from several New England DESEL clients. Two of the primary functions of the LQCAC have been to conduct an annual audit of Laboratory operations and to coordinate the Blind Duplicate Quality Assurance Program. Under the Blind Duplicate Quality Assurance Program, samples are split from homogeneous environmental media by the client and sent to the DESEL for analysis. They are "blind" in that the identification of the matching sample is not identified to the Laboratory.

Participating clients submitted a total of 31 paired samples in 2001. The measurements evaluated include twenty-five gamma emitting radionuclides, H-3, Sr-89, Sr-90, I-131 and gross-beta. All measurements are evaluated, whether the results are statistically positive or not, and whether the net concentration is positive or negative.

The samples submitted as part of this program are listed in TableB.3. For the 2001 program, 99.4% of the measurements met the DESEL internal acceptance criteria.

Environmental TLD Quality Assurance Program

Performance documentation of the routine processing of the Panasonic environmental TLDs (thermoluminescent dosimeter) program at the DESEL is provided by the dosimetry quality assurance testing program. This program includes the National Voluntary Laboratory Accreditation Program, independent third party performance testing by Battelle Pacific Northwest Labs and internal performance testing conducted by the Laboratory QA Officer. Under these programs, dosimeters are irradiated to ANSI specified testing criteria and submitted for processing to the Dosimetry Services Group as "unknowns". The bias and precision of TLD processing is measured against this standard and is used to indicate trends and changes in performance. Instrumentation checks, although routinely performed by the Dosimetry Services Group and representing between 5-10% of the TLDs processed, are not presented in this report because they do not represent a true process check sample since the doses are known to the processor.

Eighty-four performance tests were conducted in 2001 by DESEL and the third party tester. Of these, 100% of the dosimeter evaluations met the DESEL Internal Acceptance Criteria for bias ($\pm 20.1\%$) and precision ($\pm 12.8\%$). In

addition 14 TLD test sets passed the control limits set by the LQCAC in 1998 to evaluate the sum of the bias and precision values. A tolerance limit of $\pm 30\%$ applies to environmental dosimeters. Third Party QC results are summarized below.

Percentage of Individual Analyses which passed DESEL Internal Criteria

Dosimeter Type	Number Tested	Shallow (7mg/cm ²)	
		% passed bias criteria	% passed precision criteria
Panasonic Environmental	84	100	100

Summary of Third Party Testing

Dosimeter Type	Exposure Period	NVLAP Category	Shallow (7mg/cm ²)	
			% (Bias \pm SD)	B + S*
Panasonic Environmental	Q4/2000	IV, high energy	-1.7 \pm 0.8	0.025
"	Q1/2001	IV, high energy	8.8 \pm 1.2	0.100
"	Q2/2001	IV, high energy	-2.9 \pm 1.3	0.042
"	Q3/2001	IV, high energy	6.4 \pm 1.3	0.079

Note: Results are expressed as the delivered exposure for environmental TLD. NVLAP Category IV, High energy photons (Cs-137 or Co-60).

* American National Standards Institute (ANSI) Performance Statistic as referenced in the Dosimetry Services Semi-Annual QA Status Report.

TABLE B.1***DESEL RESULTS IN THE INTRALABORATORY PROCESS CONTROL PROGRAM
January - December 2001***

Media Analysis	Bias Criteria (1)				Precision Criteria (2)			
	1	2	3	4	1	2	3	4
I. Air Charcoal								
Gamma	36	5	0	0	0	0	0	0
II. Air Filter								
Alpha								
Beta	100	2	0	0	0	0	0	0
Gamma								
III. Milk								
Gamma								
Iodine-LL	7	3	0	0	15	0	0	0
Strontium-89	0	1	9	0	8	2	0	0
Strontium-90	6	3	1	0	7	3	0	0
IV. Water								
Gross Alpha	7	12	17	3	4	1	0	0
Gross Beta	25	5	10	3	5	0	0	0
Gamma	0	0	0	0	6	4	6	0
Iodine-LL								
Radium 226	11	7	2	0	15	4	1	0
Radium-228	3	1	2	0	3	0	2	0
Tritium	4	1	0	0	0	0	0	0
V. Sediment/Soil								
Gamma								
Radium-226								
VI. Vegetation								
Gamma								
Total Number in Range	199	40	45	6	63	14	9	0
Sum of Analyses	290				86			

(1) Percent Bias Criteria by Bias Category

Bias Category = 1 > 0% and ≤ 5%

Bias Category = 2 > 5% and ≤ 10%

Bias Category = 3 > 10% and ≤ 15%, or
within 2 sigma of known

Gross alpha and beta, Sr 89/90 > 10% and ≤ 25%

Transuranics > 10% and ≤ 20%

Bias Category = 4 Outside Criteria

(2) Percent Precision Criteria by Precision Category

Precision Category = 1 > 0% and ≤ 5%

Precision Category = 2 > 5% and ≤ 10%

Precision Category = 3 > 10% and ≤ 15%, or
within 2 sigma of mean

Precision Category = 4 Outside Criteria

TABLE B.2

DESEL RESULTS IN THE ANALYTICS INC. CROSS CHECK PROGRAM
Quarter 4, 2000 - Quarter 3, 2001

Sample	Quarter Year	Sample Media	Nuclide	Reported Value *	Known Value *	Ratio DESEL/ Analytics	Evaluation
E2477-162	4th/00	Filter	Sr-89	60	85	0.70	Non-agreement
			Sr-90	42	41	1.03	Agreement
E2478-162	4th/00	Filter	Gross Alpha	20	21	0.97	Agreement
			Gross Beta	136	114	1.19	Agreement
E2479-162	4th/00	Water	H-3	9657	10082	0.96	Agreement
E2480-162	4th/00	Milk	I-131LL	89	85	1.05	Agreement
			I-131	86	85	1.01	Agreement
			Ce-141	362	356	1.02	Agreement
			Cr-51	521	503	1.04	Agreement
			Cs-134	84	85	0.99	Agreement
			Cs-137	204	199	1.02	Agreement
			Co-58	79	76	1.04	Agreement
			Mn-54	162	152	1.06	Agreement
			Fe-59	93	82	1.13	Agreement
			Zn-65	148	148	1.00	Agreement
			Co-60	185	184	1.00	Agreement
E2592-162	1st/01	Water	I-131	88	90	0.98	Agreement
			I-131LL	89	90	0.99	Agreement
			Ce-141	100	94	1.06	Agreement
			Cr-51	236	242	0.98	Agreement
			Cs-134	120	129	0.93	Agreement
			Cs-137	97	102	0.95	Agreement
			Co-58	48	48	1.00	Agreement
			Mn-54	103	101	1.02	Agreement
			Fe-59	88	84	1.05	Agreement
			Zn-65	187	186	1.01	Agreement
			Co-60	144	147	0.98	Agreement
E2593-162	1st/01	Water	Gross Alpha	40	39	1.03	Agreement
			Gross Beta	300	268	1.12	Agreement
E2598A-162	1st/01	Filter	Gross Alpha	30	30	1.00	Agreement
			Gross Beta	229	211	1.18	Agreement
E2594-162	1st/01	Water	Ra-226	51	50	1.02	Agreement
			Ra-228	63	63	1.00	Agreement

* pCi/Liter (Filters in pCi)

TABLE B.2
(continued)
DESEL RESULTS IN THE ANALYTICS INC. CROSS CHECK PROGRAM
Quarter 4, 2000 - Quarter 3, 2001

Sample	Quarter Year	Sample Media	Nuclide	Reported Value *	Known Value *	Ratio DESEL/ Analytics	Evaluation
E2595-162	1 st /01	Milk	I-131	78	77	1.01	Agreement
			I-131LL	74	77	0.96	Agreement
			Ce-141	166	162	1.02	Agreement
			Cr-51	455	418	1.09	Agreement
			Cs-134	217	223	0.97	Agreement
			Cs-137	173	176	0.98	Agreement
			Co-58	86	82	1.05	Agreement
			Mn-54	185	175	1.06	Agreement
			Fe-59	151	146	1.03	Agreement
			Zn-65	328	322	1.02	Agreement
			Co-60	252	254	0.99	Agreement
E2597-162	1 st /01	Water	Am-241	5.6	6.0	0.93	Agreement
			Pu-238	7.2	7.5	0.96	Agreement
			Pu-239	5.5	5.5	1.00	Agreement
			Np-237	9.6	7.9	1.22	Non-Agreement
			Cm-244	5.6	6.3	0.89	Agreement
E2670-162	2 nd /01	Milk	I-131	63	69	0.91	Agreement
			I-131LL	66	69	0.96	Agreement
			Ce-141	165	163	1.01	Agreement
			Cr-51	228	224	1.02	Agreement
			Cs-134	131	134	0.98	Agreement
			Cs-137	128	121	1.06	Agreement
			Co-58	97	96	1.01	Agreement
			Mn-54	154	150	1.03	Agreement
			Fe-59	91	88	1.03	Agreement
			Zn-65	180	182	0.99	Agreement
E2666-162	2 nd /01	Filter	Co-60	138	135	1.03	Agreement
			Ce-141	91	96	0.95	Agreement
			Cr-51	130	132	0.98	Agreement
			Cs-134	74	79	0.94	Agreement
			Cs-137	77	71	1.08	Agreement
			Co-58	57	57	1.00	Agreement
			Mn-54	99	88	1.13	Agreement
			Fe-59	58	51	1.14	Agreement
			Zn-65	118	107	1.10	Agreement
			Co-60	77	79	0.97	Agreement

*Units in pCi/Liter (filter in pCi)

TABLE B.2*(continued)***DESEL RESULTS IN THE ANALYTICS INC. CROSS CHECK PROGRAM****Quarter 4, 2000 - Quarter 3, 2001**

Sample	Quarter Year	Sample Media	Nuclide	Reported Value *	Known Value *	Ratio DESEL/ Analytics	Evaluation
E2669-162	2nd/01	Water	H-3	7007	7494	0.94	Agreement
E2667-162	2nd/01	Filter	Sr-89	89	84	1.06	Agreement
			Sr-90	75	64	1.17	Agreement
E2806-162	3rd/01	Water	I-131	63	60	1.05	Agreement
			I-131LL	62	60	1.04	Agreement
			Ce-141	96	88	1.09	Agreement
			Cr-51	275	265	1.04	Agreement
			Cs-134	113	116	0.97	Agreement
			Cs-137	234	232	1.01	Agreement
			Co-58	132	128	1.03	Agreement
			Mn-54	153	149	1.03	Agreement
			Fe-59	66	62	1.06	Agreement
			Zn-65	184	184	1.00	Agreement
			Co-60	195	193	1.01	Agreement
E2805-162	3rd/01	Water	Gross Alpha	84	78	1.08	Agreement
			Gross Beta	175	205	0.85	Agreement
E2808-162	3rd/01	Filter	Gross Alpha	51	50	1.02	Agreement
			Gross Beta	136	133	1.02	Agreement
E2809-162	3rd/01	Milk	I-131	90	91	0.99	Agreement
			I-131LL	91	91	1.00	Agreement
			Ce-141	131	121	1.08	Agreement
			Cr-51	374	366	1.02	Agreement
			Cs-134	157	160	0.98	Agreement
			Cs-137	323	319	1.01	Agreement
			Co-58	182	177	1.03	Agreement
			Mn-54	211	205	1.03	Agreement
			Fe-59	87	86	1.01	Agreement
			Zn-65	261	254	1.03	Agreement
			Co-60	274	266	1.03	Agreement
E2807-162	3rd/01	Water	Sr-89	87	85	1.02	Agreement
			Sr-90	61	59	1.03	Agreement
E2810-162	3rd/01	Milk	Sr-89	121	75	1.61	Non-Agreement
			Sr-90	49	50	0.98	Agreement

*Units in pCi/Liter (filters in pCi)

Bias Acceptance Criteria $\pm 15\%$, or as noted below:Gross alpha and beta, Sr 89/90 $\pm 25\%$ Transuranics and Radium $\pm 20\%$ or,Precision Acceptance Criteria $\pm 15\%$, or as noted below:Gross alpha and beta, Sr 89/90 $\pm 25\%$ Transuranics and Radium $\pm 20\%$

If known value falls within 2 sigma range acceptance criteria is met

TABLE B.3
SUMMARY OF BLIND DUPLICATE SAMPLES
January - December 2001

TYPE OF SAMPLE	NUMBER OF PAIRED SAMPLES SUBMITTED
Milk	8
Ground Water	2
Surface Water	14
Algae	2
Mussels	4
Food Product	1
TOTAL	31

APPENDIX C - SUMMARY OF 2001 REMP DATA

Yankee Nuclear Power Station
Radiological Environmental Monitoring System
Summary of 2001 Data

MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/cu.m)	STD DEV. (pCi/cu.m)	MDC (pCi/cu.m)

AIR PARTICULATES							
AP	11	59634	03/27/01	Be-7	7.60E-02	1.14E-02	2.52E-02 *
AP	11	59634	03/27/01	Co-58	4.22E-04	5.44E-04	2.00E-03
AP	11	59634	03/27/01	Co-60	-4.26E-05	2.96E-04	1.31E-03
AP	11	59634	03/27/01	Cs-134	1.75E-04	1.60E-04	5.71E-04
AP	11	59634	03/27/01	Cs-137	-5.40E-04	2.40E-04	1.17E-03
AP	11	61235	06/27/01	Be-7	8.30E-02	1.09E-02	2.22E-02 *
AP	11	61235	06/27/01	Co-58	7.12E-04	3.96E-04	1.18E-03
AP	11	61235	06/27/01	Co-60	6.99E-05	2.19E-04	9.23E-04
AP	11	61235	06/27/01	Cs-134	-9.58E-05	1.82E-04	8.45E-04
AP	11	61235	06/27/01	Cs-137	0.00E+00	2.10E-04	8.37E-04
AP	11	62401	09/25/01	Be-7	0.10E+00	9.89E-03	1.65E-02 *
AP	11	62401	09/25/01	Co-58	6.99E-05	3.33E-04	1.36E-03
AP	11	62401	09/25/01	Co-60	2.71E-04	2.17E-04	7.36E-04
AP	11	62401	09/25/01	Cs-134	1.48E-04	1.35E-04	4.83E-04
AP	11	62401	09/25/01	Cs-137	-2.75E-04	1.75E-04	8.54E-04
AP	11	63644	01/02/02	Be-7	6.50E-02	6.64E-03	1.21E-02 *
AP	11	63644	01/02/02	Co-58	1.94E-04	2.44E-04	8.98E-04
AP	11	63644	01/02/02	Co-60	1.59E-04	1.90E-04	6.99E-04
AP	11	63644	01/02/02	Cs-134	4.16E-04	1.76E-04	4.88E-04
AP	11	63644	01/02/02	Cs-137	-1.08E-04	1.85E-04	7.34E-04

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

Yankee Nuclear Power Station
Radiological Environmental Monitoring System
Summary of 2001 Data

MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/cu.m)	STD DEV. (pCi/cu.m)	MDC (pCi/cu.m)	
AP	12	59635	03/27/01	Be-7	8.80E-02	2.06E-02	5.25E-02	*
AP	12	59635	03/27/01	Co-58	-1.39E-04	1.04E-03	4.50E-03	
AP	12	59635	03/27/01	Co-60	5.15E-04	5.67E-04	2.14E-03	
AP	12	59635	03/27/01	Cs-134	8.23E-04	4.79E-04	1.38E-03	
AP	12	59635	03/27/01	Cs-137	8.70E-04	5.03E-04	1.55E-03	
AP	12	61236	06/27/01	Be-7	0.12E+00	2.38E-02	5.26E-02	*
AP	12	61236	06/27/01	Co-58	-2.04E-03	1.47E-03	6.89E-03	
AP	12	61236	06/27/01	Co-60	2.30E-04	7.20E-04	3.03E-03	
AP	12	61236	06/27/01	Cs-134	1.70E-04	6.31E-04	2.57E-03	
AP	12	61236	06/27/01	Cs-137	-8.98E-04	6.50E-04	2.95E-03	
AP	12	62402	09/25/01	Be-7	0.14E+00	2.10E-02	3.69E-02	*
AP	12	62402	09/25/01	Co-58	4.77E-04	8.13E-04	3.31E-03	
AP	12	62402	09/25/01	Co-60	6.68E-04	4.72E-04	9.04E-04	
AP	12	62402	09/25/01	Cs-134	-1.19E-04	5.85E-04	2.65E-03	
AP	12	62402	09/25/01	Cs-137	8.32E-04	6.43E-04	2.18E-03	
AP	12	63645	01/02/02	Be-7	8.58E-02	1.76E-02	4.03E-02	*
AP	12	63645	01/02/02	Co-58	-1.31E-04	9.75E-04	4.23E-03	
AP	12	63645	01/02/02	Co-60	-1.38E-03	9.01E-04	4.41E-03	
AP	12	63645	01/02/02	Cs-134	-1.56E-04	3.30E-04	1.80E-03	
AP	12	63645	01/02/02	Cs-137	-6.17E-04	4.77E-04	2.32E-03	

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

Yankee Nuclear Power Station
Radiological Environmental Monitoring System
Summary of 2001 Data

MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/cu.m)	STD DEV. (pCi/cu.m)	MDC (pCi/cu.m)
AP	13	59636	03/27/01	Be-7	6.77E-02	1.93E-02	5.34E-02 *
AP	13	59636	03/27/01	Co-58	2.15E-04	1.02E-03	4.16E-03
AP	13	59636	03/27/01	Co-60	9.60E-04	6.20E-04	1.93E-03
AP	13	59636	03/27/01	Cs-134	6.00E-04	4.72E-04	1.60E-03
AP	13	59636	03/27/01	Cs-137	5.02E-04	4.78E-04	1.69E-03
AP	13	61237	06/27/01	Be-7	6.34E-02	2.00E-02	5.54E-02 *
AP	13	61237	06/27/01	Co-58	1.36E-03	1.07E-03	3.64E-03
AP	13	61237	06/27/01	Co-60	8.50E-04	6.79E-04	2.31E-03
AP	13	61237	06/27/01	Cs-134	1.08E-04	5.72E-04	2.40E-03
AP	13	61237	06/27/01	Cs-137	9.08E-04	5.97E-04	1.94E-03
AP	13	62403	09/25/01	Be-7	8.31E-02	1.97E-02	5.06E-02 *
AP	13	62403	09/25/01	Co-58	2.31E-04	1.10E-03	4.48E-03
AP	13	62403	09/25/01	Co-60	8.78E-04	8.76E-04	3.16E-03
AP	13	62403	09/25/01	Cs-134	-5.45E-04	5.54E-04	2.79E-03
AP	13	62403	09/25/01	Cs-137	1.50E-04	7.72E-04	2.97E-03
AP	13	63646	01/02/02	Be-7	6.33E-02	1.52E-02	3.64E-02 *
AP	13	63646	01/02/02	Co-58	-5.45E-04	6.09E-04	3.36E-03
AP	13	63646	01/02/02	Co-60	8.32E-04	4.80E-04	7.50E-04
AP	13	63646	01/02/02	Cs-134	-5.00E-04	4.03E-04	2.23E-03
AP	13	63646	01/02/02	Cs-137	9.07E-04	4.50E-04	1.23E-03

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

Yankee Nuclear Power Station
Radiological Environmental Monitoring System
Summary of 2001 Data

MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/cu.m)	STD DEV. (pCi/cu.m)	MDC (pCi/cu.m)
AP	14	59637	03/27/01	Be-7	4.76E-02	1.01E-02	2.42E-02 *
AP	14	59637	03/27/01	Co-58	-1.16E-04	3.85E-04	1.86E-03
AP	14	59637	03/27/01	Co-60	-1.74E-05	2.09E-04	1.08E-03
AP	14	59637	03/27/01	Cs-134	1.37E-04	2.51E-04	9.99E-04
AP	14	59637	03/27/01	Cs-137	2.81E-04	2.26E-04	7.74E-04
AP	14	61238	06/27/01	Be-7	7.26E-02	1.31E-02	2.99E-02 *
AP	14	61238	06/27/01	Co-58	-2.80E-04	5.32E-04	2.47E-03
AP	14	61238	06/27/01	Co-60	1.05E-04	3.29E-04	1.39E-03
AP	14	61238	06/27/01	Cs-134	-2.77E-04	2.91E-04	1.39E-03
AP	14	61238	06/27/01	Cs-137	-7.83E-04	3.20E-04	1.56E-03
AP	14	62404	09/25/01	Be-7	9.20E-02	1.27E-02	2.54E-02 *
AP	14	62404	09/25/01	Co-58	-2.25E-05	6.06E-04	2.49E-03
AP	14	62404	09/25/01	Co-60	-3.79E-04	4.03E-04	1.95E-03
AP	14	62404	09/25/01	Cs-134	-6.72E-04	2.99E-04	1.64E-03
AP	14	62404	09/25/01	Cs-137	8.83E-05	3.55E-04	1.37E-03
AP	14	63647	01/02/02	Be-7	7.79E-02	1.08E-02	2.01E-02 *
AP	14	63647	01/02/02	Co-58	4.91E-04	5.43E-04	1.97E-03
AP	14	63647	01/02/02	Co-60	-1.31E-04	2.27E-04	1.22E-03
AP	14	63647	01/02/02	Cs-134	2.91E-04	2.57E-04	9.01E-04
AP	14	63647	01/02/02	Cs-137	-3.80E-04	3.14E-04	1.38E-03

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

Yankee Nuclear Power Station
Radiological Environmental Monitoring System
Summary of 2001 Data

MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/cu.m)	STD DEV. (pCi/cu.m)	MDC (pCi/cu.m)	
AP	21	59638	03/27/01	Be-7	5.09E-02	1.06E-02	2.43E-02	*
AP	21	59638	03/27/01	Co-58	-5.98E-04	6.34E-04	2.92E-03	
AP	21	59638	03/27/01	Co-60	-1.85E-04	2.77E-04	1.46E-03	
AP	21	59638	03/27/01	Cs-134	1.47E-04	2.69E-04	1.07E-03	
AP	21	59638	03/27/01	Cs-137	-6.88E-05	2.84E-04	1.19E-03	
AP	21	61239	06/27/01	Be-7	9.82E-02	1.54E-02	3.53E-02	*
AP	21	61239	06/27/01	Co-58	-5.17E-04	4.17E-04	2.30E-03	
AP	21	61239	06/27/01	Co-60	1.47E-04	1.47E-04	3.99E-04	
AP	21	61239	06/27/01	Cs-134	4.18E-05	1.81E-04	8.40E-04	
AP	21	61239	06/27/01	Cs-137	1.35E-04	2.10E-04	8.20E-04	
AP	21	62405	09/25/01	Be-7	0.11E+00	1.27E-02	2.16E-02	*
AP	21	62405	09/25/01	Co-58	-1.09E-04	3.62E-04	1.75E-03	
AP	21	62405	09/25/01	Co-60	-1.91E-04	2.87E-04	1.51E-03	
AP	21	62405	09/25/01	Cs-134	2.58E-04	2.94E-04	1.09E-03	
AP	21	62405	09/25/01	Cs-137	-3.25E-04	2.51E-04	1.22E-03	
AP	21	63648	01/02/02	Be-7	7.15E-02	1.05E-02	2.14E-02	*
AP	21	63648	01/02/02	Co-58	3.58E-04	3.74E-04	1.38E-03	
AP	21	63648	01/02/02	Co-60	-1.65E-05	1.98E-04	1.03E-03	
AP	21	63648	01/02/02	Cs-134	-4.12E-04	1.84E-04	1.14E-03	
AP	21	63648	01/02/02	Cs-137	3.52E-04	1.98E-04	5.78E-04	

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

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MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/cu.m)	STD DEV. (pCi/cu.m)	MDC (pCi/cu.m)	
AP	31	59639	03/27/01	Be-7	3.64E-02	1.19E-02	3.47E-02	*
AP	31	59639	03/27/01	Co-58	-4.87E-04	4.95E-04	2.49E-03	
AP	31	59639	03/27/01	Co-60	4.07E-04	4.06E-04	1.46E-03	
AP	31	59639	03/27/01	Cs-134	-1.79E-04	2.00E-04	1.10E-03	
AP	31	59639	03/27/01	Cs-137	-3.28E-04	2.54E-04	1.23E-03	
AP	31	61240	06/27/01	Be-7	0.11E+00	1.66E-02	2.49E-02	*
AP	31	61240	06/27/01	Co-58	1.45E-04	7.73E-04	3.24E-03	
AP	31	61240	06/27/01	Co-60	-7.67E-05	5.33E-04	2.36E-03	
AP	31	61240	06/27/01	Cs-134	9.31E-05	4.42E-04	1.81E-03	
AP	31	61240	06/27/01	Cs-137	-5.71E-05	3.04E-04	1.34E-03	
AP	31	62406	09/25/01	Be-7	8.19E-02	1.39E-02	2.86E-02	*
AP	31	62406	09/25/01	Co-58	-5.57E-04	6.82E-04	3.23E-03	
AP	31	62406	09/25/01	Co-60	6.16E-04	4.91E-04	1.67E-03	
AP	31	62406	09/25/01	Cs-134	6.35E-04	3.70E-04	1.07E-03	
AP	31	62406	09/25/01	Cs-137	5.61E-04	3.75E-04	1.22E-03	
AP	31	63649	01/02/02	Be-7	4.75E-02	1.04E-02	2.44E-02	*
AP	31	63649	01/02/02	Co-58	4.42E-04	4.03E-04	1.44E-03	
AP	31	63649	01/02/02	Co-60	-6.18E-04	4.92E-04	2.40E-03	
AP	31	63649	01/02/02	Cs-134	2.92E-04	3.32E-04	1.23E-03	
AP	31	63649	01/02/02	Cs-137	6.37E-05	2.29E-04	9.66E-04	

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

Yankee Nuclear Power Station
Radiological Environmental Monitoring System
Summary of 2001 Data

MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/cu.m)	STD DEV. (pCi/cu.m)	MDC (pCi/cu.m)	
AP	11	57892	01/03/01	GR-B	1.78E-02	1.11E-03	2.59E-03	*
AP	11	58547	01/17/01	GR-B	4.91E-02	1.32E-03	1.82E-03	*
AP	11	58310	01/30/01	GR-B	4.37E-02	1.75E-03	2.82E-03	*
AP	11	58566	02/13/01	GR-B	1.98E-02	8.06E-04	1.67E-03	*
AP	11	58695	02/27/01	GR-B	2.23E-02	9.50E-04	1.53E-03	*
AP	11	59000	03/13/01	GR-B	2.00E-02	6.27E-04	9.74E-04	*
AP	11	59218	03/27/01	GR-B	1.41E-02	6.10E-04	1.24E-03	*
AP	11	59380	04/04/01	GR-B	9.17E-03	6.93E-04	1.67E-03	*
AP	11	59532	04/17/01	GR-B	1.71E-02	1.04E-03	2.36E-03	*
AP	11	59774	05/02/01	GR-B	2.44E-02	1.01E-03	1.73E-03	*
AP	11	59937	05/15/01	GR-B	2.31E-02	1.02E-03	1.63E-03	*
AP	11	60339	05/29/01	GR-B	1.15E-02	7.75E-04	1.56E-03	*
AP	11	60518	06/12/01	GR-B	1.29E-02	6.01E-04	1.28E-03	*
AP	11	60795	06/27/01	GR-B	2.02E-02	9.30E-04	1.51E-03	*
AP	11	60884	07/03/01	GR-B	2.03E-02	1.15E-03	2.39E-03	*
AP	11	61035	07/17/01	GR-B	1.23E-02	6.36E-04	1.40E-03	*
AP	11	61334	08/01/01	GR-B	1.94E-02	6.52E-04	1.08E-03	*
AP	11	61476	08/14/01	GR-B	2.31E-02	6.93E-04	1.17E-03	*
AP	11	61748	08/30/01	GR-B	2.47E-02	7.65E-04	1.12E-03	*
AP	11	61925	09/12/01	GR-B	2.32E-02	7.96E-04	1.49E-03	*
AP	11	62024	09/25/01	GR-B	2.25E-02	8.27E-04	1.58E-03	*
AP	11	62198	10/03/01	GR-B	2.25E-02	9.94E-04	1.84E-03	*
AP	11	62591	10/19/01	GR-B	2.44E-02	6.68E-04	9.48E-04	*
AP	11	62678	10/31/01	GR-B	2.28E-02	1.06E-03	1.76E-03	*
AP	11	62858	11/13/01	GR-B	2.18E-02	7.26E-04	1.23E-03	*
AP	11	63045	11/28/01	GR-B	3.02E-02	8.48E-04	1.16E-03	*
AP	11	63260	12/11/01	GR-B	3.32E-02	1.21E-03	1.70E-03	*
AP	11	63496	12/26/01	GR-B	1.70E-02	5.68E-04	9.94E-04	*
AP	11	63570	01/02/02	GR-B	2.51E-02	1.10E-03	2.16E-03	*

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

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MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/cu.m)	STD DEV. (pCi/cu.m)	MDC (pCi/cu.m)
AP	12	57893	01/03/01	GR-B	2.71E-02	2.35E-03	6.05E-03 *
AP	12	58548	01/17/01	GR-B	3.66E-02	1.62E-03	2.93E-03 *
AP	12	58311	01/30/01	GR-B	3.14E-02	2.15E-03	4.54E-03 *
AP	12	58567	02/13/01	GR-B	2.64E-02	1.86E-03	4.67E-03 *
AP	12	58696	02/27/01	GR-B	2.99E-02	2.06E-03	4.34E-03 *
AP	12	59001	03/13/01	GR-B	2.52E-02	1.36E-03	2.78E-03 *
AP	12	59219	03/27/01	GR-B	1.94E-02	1.48E-03	3.57E-03 *
AP	12	59381	04/04/01	GR-B	2.22E-02	2.41E-03	6.51E-03 *
AP	12	59533	04/17/01	GR-B	2.53E-02	1.70E-03	4.11E-03 *
AP	12	59775	05/02/01	GR-B	3.24E-02	2.26E-03	5.05E-03 *
AP	12	59938	05/15/01	GR-B	3.56E-02	2.36E-03	4.70E-03 *
AP	12	60340	05/29/01	GR-B	1.59E-02	1.87E-03	4.68E-03 *
AP	12	60519	06/12/01	GR-B	2.07E-02	1.55E-03	3.89E-03 *
AP	12	60796	06/27/01	GR-B	2.96E-02	2.21E-03	4.72E-03 *
AP	12	60885	07/03/01	GR-B	3.45E-02	3.00E-03	7.04E-03 *
AP	12	61036	07/17/01	GR-B	2.08E-02	1.71E-03	4.27E-03 *
AP	12	61335	08/01/01	GR-B	3.34E-02	1.72E-03	3.39E-03 *
AP	12	61477	08/14/01	GR-B	4.82E-02	2.20E-03	4.54E-03 *
AP	12	61749	08/30/01	GR-B	3.29E-02	1.56E-03	2.89E-03 *
AP	12	61926	09/12/01	GR-B	3.16E-02	1.97E-03	4.57E-03 *
AP	12	62025	09/25/01	GR-B	3.71E-02	2.22E-03	5.07E-03 *
AP	12	62199	10/03/01	GR-B	3.65E-02	2.58E-03	5.88E-03 *
AP	12	62592	10/19/01	GR-B	4.01E-02	1.64E-03	2.93E-03 *
AP	12	62679	10/31/01	GR-B	3.71E-02	2.70E-03	5.51E-03 *
AP	12	62859	11/13/01	GR-B	3.19E-02	1.78E-03	3.83E-03 *
AP	12	63046	11/28/01	GR-B	4.31E-02	2.03E-03	3.79E-03 *
AP	12	63261	12/11/01	GR-B	5.16E-02	2.85E-03	5.16E-03 *
AP	12	63497	12/26/01	GR-B	3.07E-02	1.56E-03	3.29E-03 *
AP	12	63571	01/02/02	GR-B	3.78E-02	2.87E-03	6.98E-03 *

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

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MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/cu.m)	STD DEV. (pCi/cu.m)	MDC (pCi/cu.m)	
AP	13	57894	01/03/01	GR-B	1.98E-02	2.22E-03	5.86E-03	*
AP	13	58549	01/17/01	GR-B	3.28E-02	1.53E-03	2.88E-03	*
AP	13	58312	01/30/01	GR-B	2.38E-02	1.98E-03	4.47E-03	*
AP	13	58568	02/13/01	GR-B	2.36E-02	1.84E-03	4.66E-03	*
AP	13	58697	02/27/01	GR-B	3.14E-02	2.08E-03	4.29E-03	*
AP	13	59002	03/13/01	GR-B	2.46E-02	1.33E-03	2.77E-03	*
AP	13	59220	03/27/01	GR-B	2.31E-02	1.73E-03	4.29E-03	*
AP	13	59382	04/04/01	GR-B	2.02E-02	2.40E-03	6.42E-03	*
AP	13	59534	04/17/01	GR-B	1.88E-02	1.63E-03	4.09E-03	*
AP	13	59776	05/02/01	GR-B	1.29E-02	1.70E-03	4.54E-03	*
AP	13	59939	05/15/01	GR-B	2.82E-02	2.25E-03	4.81E-03	*
AP	13	60341	05/29/01	GR-B	1.37E-02	1.81E-03	4.63E-03	*
AP	13	60520	06/12/01	GR-B	1.97E-02	1.54E-03	3.87E-03	*
AP	13	60797	06/27/01	GR-B	2.72E-02	2.09E-03	4.56E-03	*
AP	13	60886	07/03/01	GR-B	3.42E-02	3.06E-03	7.15E-03	*
AP	13	61037	07/17/01	GR-B	1.98E-02	1.66E-03	4.11E-03	*
AP	13	61336	08/01/01	GR-B	2.41E-02	1.51E-03	3.27E-03	*
AP	13	61478	08/14/01	GR-B	3.89E-02	2.01E-03	4.34E-03	*
AP	13	61750	08/30/01	GR-B	3.17E-02	1.50E-03	2.80E-03	*
AP	13	61927	09/12/01	GR-B	2.80E-02	1.86E-03	4.41E-03	*
AP	13	62026	09/25/01	GR-B	3.15E-02	2.04E-03	4.80E-03	*
AP	13	62200	10/03/01	GR-B	2.88E-02	2.35E-03	5.55E-03	*
AP	13	62593	10/19/01	GR-B	3.22E-02	1.53E-03	2.85E-03	*
AP	13	62680	10/31/01	GR-B	3.03E-02	2.44E-03	5.34E-03	*
AP	13	62860	11/13/01	GR-B	2.99E-02	1.73E-03	3.74E-03	*
AP	13	63047	11/28/01	GR-B	4.01E-02	1.93E-03	3.62E-03	*
AP	13	63262	12/11/01	GR-B	4.38E-02	2.62E-03	4.95E-03	*
AP	13	63498	12/26/01	GR-B	2.81E-02	1.47E-03	3.14E-03	*
AP	13	63572	01/02/02	GR-B	3.49E-02	2.71E-03	6.65E-03	*

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

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MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/cu.m)	STD DEV. (pCi/cu.m)	MDC (pCi/cu.m)	
AP	14	57895	01/03/01	GR-B	1.89E-02	1.36E-03	3.28E-03	*
AP	14	58550	01/17/01	GR-B	2.31E-02	7.81E-04	1.24E-03	*
AP	14	58313	01/30/01	GR-B	1.98E-02	1.03E-03	1.92E-03	*
AP	14	58569	02/13/01	GR-B	2.35E-02	1.17E-03	2.60E-03	*
AP	14	58698	02/27/01	GR-B	2.71E-02	1.33E-03	2.36E-03	*
AP	14	59003	03/13/01	GR-B	2.06E-02	8.37E-04	1.52E-03	*
AP	14	59221	03/27/01	GR-B	1.60E-02	8.71E-04	1.94E-03	*
AP	14	59383	04/04/01	GR-B	1.28E-02	1.16E-03	2.97E-03	*
AP	14	59535	04/17/01	GR-B	1.94E-02	9.85E-04	2.21E-03	*
AP	14	59777	05/02/01	GR-B	2.91E-02	1.41E-03	2.68E-03	*
AP	14	59940	05/15/01	GR-B	2.58E-02	1.42E-03	2.57E-03	*
AP	14	60342	05/29/01	GR-B	1.24E-02	1.05E-03	2.37E-03	*
AP	14	60521	06/12/01	GR-B	1.15E-02	6.83E-04	1.57E-03	*
AP	14	60798	06/27/01	GR-B	3.06E-02	1.82E-03	3.49E-03	*
AP	14	60887	07/03/01	GR-B	2.82E-02	1.82E-03	3.91E-03	*
AP	14	61038	07/17/01	GR-B	1.36E-02	9.25E-04	2.19E-03	*
AP	14	61337	08/01/01	GR-B	2.21E-02	9.50E-04	1.74E-03	*
AP	14	61479	08/14/01	GR-B	3.58E-02	1.26E-03	2.29E-03	*
AP	14	61751	08/30/01	GR-B	2.56E-02	9.40E-04	1.51E-03	*
AP	14	61928	09/12/01	GR-B	2.42E-02	1.10E-03	2.34E-03	*
AP	14	62027	09/25/01	GR-B	2.49E-02	1.20E-03	2.57E-03	*
AP	14	62201	10/03/01	GR-B	2.16E-02	1.42E-03	3.03E-03	*
AP	14	62594	10/19/01	GR-B	2.46E-02	9.18E-04	1.49E-03	*
AP	14	62681	10/31/01	GR-B	2.60E-02	1.52E-03	2.89E-03	*
AP	14	62861	11/13/01	GR-B	2.37E-02	1.04E-03	2.01E-03	*
AP	14	63048	11/28/01	GR-B	2.10E-02	9.78E-04	1.84E-03	*
AP	14	63263	12/11/01	GR-B	3.45E-02	1.63E-03	2.77E-03	*
AP	14	63499	12/26/01	GR-B	2.23E-02	8.92E-04	1.70E-03	*
AP	14	63573	01/03/02	GR-B	2.64E-02	1.48E-03	3.25E-03	*

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

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MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/cu.m)	STD DEV. (pCi/cu.m)	MDC (pCi/cu.m)
AP	21	57896	01/03/01	GR-B	1.57E-02	1.27E-03	3.14E-03 *
AP	21	58551	01/17/01	GR-B	2.74E-02	9.68E-04	1.61E-03 *
AP	21	58314	01/30/01	GR-B	2.37E-02	1.30E-03	2.49E-03 *
AP	21	58570	02/13/01	GR-B	2.33E-02	1.15E-03	2.56E-03 *
AP	21	58699	02/27/01	GR-B	2.54E-02	1.24E-03	2.20E-03 *
AP	21	59004	03/13/01	GR-B	1.77E-02	7.66E-04	1.42E-03 *
AP	21	59222	03/27/01	GR-B	1.80E-02	9.43E-04	2.08E-03 *
AP	21	59384	04/04/01	GR-B	1.45E-02	1.26E-03	3.19E-03 *
AP	21	59536	04/17/01	GR-B	1.88E-02	9.18E-04	2.00E-03 *
AP	21	59778	05/02/01	GR-B	2.86E-02	1.36E-03	2.55E-03 *
AP	21	59941	05/15/01	GR-B	2.78E-02	1.37E-03	2.33E-03 *
AP	21	60343	05/29/01	GR-B	1.32E-02	1.02E-03	2.24E-03 *
AP	21	60522	06/12/01	GR-B	1.30E-02	7.81E-04	1.84E-03 *
AP	21	60799	06/27/01	GR-B	2.29E-02	1.18E-03	2.13E-03 *
AP	21	60888	07/03/01	GR-B	2.84E-02	1.69E-03	3.57E-03 *
AP	21	61039	07/17/01	GR-B	1.41E-02	8.44E-04	1.96E-03 *
AP	21	61338	08/01/01	GR-B	2.14E-02	8.63E-04	1.55E-03 *
AP	21	61480	08/14/01	GR-B	3.45E-02	1.13E-03	2.04E-03 *
AP	21	61752	08/30/01	GR-B	2.75E-02	8.61E-04	1.33E-03 *
AP	21	61929	09/12/01	GR-B	2.63E-02	1.05E-03	2.05E-03 *
AP	21	62028	09/25/01	GR-B	2.77E-02	1.12E-03	2.28E-03 *
AP	21	62202	10/03/01	GR-B	2.37E-02	1.28E-03	2.65E-03 *
AP	21	62595	10/19/01	GR-B	2.85E-02	8.77E-04	1.32E-03 *
AP	21	62682	10/31/01	GR-B	2.40E-02	1.36E-03	2.54E-03 *
AP	21	62862	11/13/01	GR-B	2.49E-02	9.65E-04	1.75E-03 *
AP	21	63049	11/28/01	GR-B	3.45E-02	1.13E-03	1.75E-03 *
AP	21	63264	12/11/01	GR-B	3.26E-02	1.44E-03	2.34E-03 *
AP	21	63500	12/26/01	GR-B	2.35E-02	8.46E-04	1.51E-03 *
AP	21	63574	01/03/02	GR-B	2.99E-02	1.39E-03	2.88E-03 *

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

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MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/cu.m)	STD DEV. (pCi/cu.m)	MDC (pCi/cu.m)
AP	31	57897	01/03/01	GR-B	1.21E-02	1.45E-03	3.86E-03 *
AP	31	58552	01/17/01	GR-B	1.98E-02	8.34E-04	1.44E-03 *
AP	31	58315	01/30/01	GR-B	1.77E-02	1.09E-03	2.24E-03 *
AP	31	58571	02/13/01	GR-B	2.16E-02	1.33E-03	3.18E-03 *
AP	31	58700	02/27/01	GR-B	2.46E-02	1.50E-03	2.96E-03 *
AP	31	59005	03/13/01	GR-B	1.93E-02	9.53E-04	1.88E-03 *
AP	31	59223	03/27/01	GR-B	1.39E-02	1.00E-03	2.42E-03 *
AP	31	59385	04/04/01	GR-B	1.88E-02	1.84E-03	4.74E-03 *
AP	31	59537	04/17/01	GR-B	1.80E-02	1.17E-03	2.82E-03 *
AP	31	59779	05/02/01	GR-B	2.56E-02	1.63E-03	3.50E-03 *
AP	31	59942	05/15/01	GR-B	2.82E-02	1.68E-03	3.21E-03 *
AP	31	60344	05/29/01	GR-B	1.32E-02	1.31E-03	3.05E-03 *
AP	31	60523	06/12/01	GR-B	1.48E-02	1.05E-03	2.57E-03 *
AP	31	60800	06/27/01	GR-B	2.26E-02	1.50E-03	3.04E-03 *
AP	31	60889	07/03/01	GR-B	1.87E-02	1.85E-03	4.55E-03 *
AP	31	61040	07/17/01	GR-B	1.39E-02	1.12E-03	2.77E-03 *
AP	31	61339	08/01/01	GR-B	2.24E-02	1.11E-03	2.19E-03 *
AP	31	61481	08/14/01	GR-B	3.51E-02	1.47E-03	2.94E-03 *
AP	31	61753	08/30/01	GR-B	2.33E-02	1.07E-03	1.89E-03 *
AP	31	61930	09/12/01	GR-B	2.24E-02	1.33E-03	2.99E-03 *
AP	31	62029	09/25/01	GR-B	2.60E-02	1.44E-03	3.20E-03 *
AP	31	62203	10/03/01	GR-B	2.71E-02	1.72E-03	3.77E-03 *
AP	31	62596	10/19/01	GR-B	3.02E-02	1.13E-03	1.95E-03 *
AP	31	62683	10/31/01	GR-B	2.14E-02	1.68E-03	3.65E-03 *
AP	31	62863	11/13/01	GR-B	2.36E-02	1.22E-03	2.56E-03 *
AP	31	63050	11/28/01	GR-B	3.52E-02	1.45E-03	2.50E-03 *
AP	31	63265	12/11/01	GR-B	3.13E-02	1.84E-03	3.39E-03 *
AP	31	63501	12/26/01	GR-B	1.31E-02	6.05E-04	1.24E-03 *
AP	31	63575	01/02/02	GR-B	3.18E-02	2.02E-03	4.61E-03 *

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

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MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD DEV. (pCi/kg)	MDC (pCi/kg)

FISH							
FH	11	59983	05/16/01	Co-58	1.56E+01	1.10E+01	3.66E+01
FH	11	59983	05/16/01	Co-60	4.44E+00	9.71E+00	3.64E+01
FH	11	59983	05/16/01	Cs-134	9.45E+00	9.45E+00	3.29E+01
FH	11	59983	05/16/01	Cs-137	3.91E+01	1.54E+01	4.78E+01
FH	11	59983	05/16/01	Fe-59	-2.18E+01	2.46E+01	1.10E+02
FH	11	59983	05/16/01	K-40	2.19E+03	2.66E+02	5.24E+02 *
FH	11	59983	05/16/01	Mn-54	1.71E+00	8.91E+00	3.34E+01
FH	11	59983	05/16/01	Zn-65	-2.06E+01	2.35E+01	9.47E+01
FH	11	62446	10/10/01	Co-58	7.35E+00	9.22E+00	3.40E+01
FH	11	62446	10/10/01	Co-60	1.22E+01	1.41E+01	5.09E+01
FH	11	62446	10/10/01	Cs-134	-1.06E+00	1.29E+01	5.04E+01
FH	11	62446	10/10/01	Cs-137	3.08E+01	1.62E+01	5.18E+01
FH	11	62446	10/10/01	Fe-59	-2.30E+01	4.76E+01	1.92E+02
FH	11	62446	10/10/01	K-40	3.51E+03	4.06E+02	7.37E+02 *
FH	11	62446	10/10/01	Mn-54	-9.55E+00	9.06E+00	4.08E+01
FH	11	62446	10/10/01	Zn-65	-5.12E+01	3.50E+01	1.47E+02
FH	21	59984	05/15/01	Co-58	4.56E+00	8.59E+00	3.16E+01
FH	21	59984	05/15/01	Co-60	1.44E+01	8.09E+00	2.51E+01
FH	21	59984	05/15/01	Cs-134	-2.85E+00	7.12E+00	2.93E+01
FH	21	59984	05/15/01	Cs-137	2.01E+01	1.11E+01	3.57E+01
FH	21	59984	05/15/01	Fe-59	-2.25E+01	3.19E+01	1.30E+02
FH	21	59984	05/15/01	K-40	2.70E+03	2.64E+02	4.00E+02 *
FH	21	59984	05/15/01	Mn-54	7.98E+00	8.92E+00	3.12E+01
FH	21	59984	05/15/01	Zn-65	-7.90E+00	1.58E+01	6.58E+01
FH	21	62447	10/10/01	Co-58	-4.44E+00	1.26E+01	5.13E+01
FH	21	62447	10/10/01	Co-60	-1.50E+01	1.30E+01	6.07E+01
FH	21	62447	10/10/01	Cs-134	-1.15E+01	1.46E+01	5.96E+01
FH	21	62447	10/10/01	Cs-137	-9.14E+00	1.51E+01	5.89E+01
FH	21	62447	10/10/01	Fe-59	7.48E+01	4.19E+01	1.30E+02
FH	21	62447	10/10/01	K-40	3.32E+03	3.96E+02	5.98E+02 *
FH	21	62447	10/10/01	Mn-54	-1.35E+01	1.05E+01	4.70E+01
FH	21	62447	10/10/01	Zn-65	-1.39E+01	2.79E+01	1.16E+02

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

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MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD DEV. (pCi/kg)	MDC (pCi/kg)

SEDIMENT							
SE	11	60034	05/08/01	Be-7	0.00E+00	2.98E+02	1.08E+03
SE	11	60034	05/08/01	Co-58	1.43E+01	2.66E+01	9.73E+01
SE	11	60034	05/08/01	Co-60	-1.24E+01	2.57E+01	1.05E+02
SE	11	60034	05/08/01	Cs-134	-1.78E+01	2.23E+01	8.61E+01
SE	11	60034	05/08/01	Cs-137	1.70E+02	4.22E+01	1.21E+02 *
SE	11	60034	05/08/01	K-40	1.53E+04	9.77E+02	9.94E+02 *
SE	11	60034	05/08/01	Th-232	1.14E+03	1.19E+02	3.55E+02 *
SE	11	60035	05/08/01	Be-7	0.00E+00	2.56E+02	9.48E+02
SE	11	60035	05/08/01	Co-58	-5.16E+00	3.07E+01	1.19E+02
SE	11	60035	05/08/01	Co-60	6.26E+01	2.88E+01	8.48E+01
SE	11	60035	05/08/01	Cs-134	-3.20E+01	3.73E+01	1.41E+02
SE	11	60035	05/08/01	Cs-137	7.44E+01	3.98E+01	1.29E+02
SE	11	60035	05/08/01	K-40	1.33E+04	9.91E+02	1.25E+03 *
SE	11	60035	05/08/01	Th-232	8.33E+02	1.05E+02	2.83E+02 *
SE	11	60036	05/08/01	Be-7	2.35E+02	1.66E+02	5.52E+02
SE	11	60036	05/08/01	Co-58	-0.51E+00	2.30E+01	8.47E+01
SE	11	60036	05/08/01	Co-60	2.13E+01	1.80E+01	6.15E+01
SE	11	60036	05/08/01	Cs-134	4.93E+00	1.66E+01	5.89E+01
SE	11	60036	05/08/01	Cs-137	1.00E+02	2.67E+01	7.83E+01 *
SE	11	60036	05/08/01	K-40	1.25E+04	6.68E+02	6.54E+02 *
SE	11	60036	05/08/01	Th-232	6.92E+02	7.54E+01	2.54E+02 *
SE	11	62448	10/09/01	Be-7	1.90E+02	2.28E+02	7.90E+02
SE	11	62448	10/09/01	Co-58	2.94E+00	2.21E+01	8.42E+01
SE	11	62448	10/09/01	Co-60	1.41E+00	2.15E+01	8.52E+01
SE	11	62448	10/09/01	Cs-134	4.32E+01	3.40E+01	1.06E+02
SE	11	62448	10/09/01	Cs-137	8.45E+01	3.56E+01	1.12E+02
SE	11	62448	10/09/01	K-40	1.54E+04	9.77E+02	1.12E+03 *
SE	11	62448	10/09/01	Th-232	1.19E+03	1.16E+02	3.68E+02 *
SE	11	62449	10/09/01	Be-7	2.22E+02	2.12E+02	7.28E+02
SE	11	62449	10/09/01	Co-58	-1.86E+00	2.27E+01	8.87E+01
SE	11	62449	10/09/01	Co-60	8.53E+00	2.26E+01	8.73E+01
SE	11	62449	10/09/01	Cs-134	3.69E+00	2.10E+01	7.67E+01
SE	11	62449	10/09/01	Cs-137	8.09E+01	3.77E+01	1.20E+02
SE	11	62449	10/09/01	K-40	1.28E+04	9.19E+02	8.52E+02 *
SE	11	62449	10/09/01	Th-232	1.04E+03	1.12E+02	3.60E+02 *
SE	11	62450	10/09/01	Be-7	1.04E+02	2.10E+02	7.57E+02
SE	11	62450	10/09/01	Co-58	-3.48E+01	2.75E+01	1.16E+02
SE	11	62450	10/09/01	Co-60	2.16E+01	2.79E+01	1.01E+02
SE	11	62450	10/09/01	Cs-134	2.01E+01	2.52E+01	8.77E+01
SE	11	62450	10/09/01	Cs-137	1.95E+02	4.08E+01	1.07E+02 *
SE	11	62450	10/09/01	K-40	1.42E+04	9.99E+02	8.77E+02 *
SE	11	62450	10/09/01	Th-232	7.93E+02	1.10E+02	4.86E+02 *

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

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MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD DEV. (pCi/kg)	MDC (pCi/kg)
SE	21	60037	05/08/01	Be-7	-1.43E+02	1.67E+02	6.33E+02
SE	21	60037	05/08/01	Co-58	1.24E+01	1.70E+01	5.99E+01
SE	21	60037	05/08/01	Co-60	1.85E+01	1.35E+01	4.50E+01
SE	21	60037	05/08/01	Cs-134	3.42E+00	1.39E+01	4.97E+01
SE	21	60037	05/08/01	Cs-137	-1.30E+01	1.77E+01	6.61E+01
SE	21	60037	05/08/01	K-40	1.59E+04	6.94E+02	4.81E+02 *
SE	21	60037	05/08/01	Th-232	3.32E+02	6.04E+01	2.20E+02 *
SE	21	60038	05/08/01	Be-7	-1.26E+02	2.31E+02	8.73E+02
SE	21	60038	05/08/01	Co-58	-7.33E+00	2.45E+01	9.51E+01
SE	21	60038	05/08/01	Co-60	-4.21E+00	1.92E+01	7.78E+01
SE	21	60038	05/08/01	Cs-134	6.65E+00	1.69E+01	6.11E+01
SE	21	60038	05/08/01	Cs-137	3.82E+01	1.66E+01	4.94E+01
SE	21	60038	05/08/01	K-40	1.81E+04	9.62E+02	8.97E+02 *
SE	21	60038	05/08/01	Th-232	4.04E+02	9.24E+01	3.23E+02 *
SE	21	60039	05/08/01	Be-7	6.36E+01	1.96E+02	7.14E+02
SE	21	60039	05/08/01	Co-58	-2.40E+01	2.21E+01	9.37E+01
SE	21	60039	05/08/01	Co-60	-2.81E+01	2.32E+01	1.01E+02
SE	21	60039	05/08/01	Cs-134	1.01E+01	1.72E+01	6.13E+01
SE	21	60039	05/08/01	Cs-137	-6.25E+01	2.08E+01	9.22E+01
SE	21	60039	05/08/01	K-40	1.74E+04	9.78E+02	5.98E+02 *
SE	21	60039	05/08/01	Th-232	4.68E+02	8.25E+01	2.43E+02 *
SE	21	62451	10/09/01	Be-7	-1.59E+01	1.24E+02	4.54E+02
SE	21	62451	10/09/01	Co-58	-4.55E+00	1.33E+01	5.11E+01
SE	21	62451	10/09/01	Co-60	2.62E+00	1.12E+01	4.28E+01
SE	21	62451	10/09/01	Cs-134	-4.32E+00	1.13E+01	4.23E+01
SE	21	62451	10/09/01	Cs-137	1.01E+01	1.40E+01	4.88E+01
SE	21	62451	10/09/01	K-40	1.26E+04	5.92E+02	5.65E+02 *
SE	21	62451	10/09/01	Th-232	-3.19E+02	9.89E+01	4.13E+02
SE	21	62452	10/09/01	Be-7	8.86E+01	1.14E+02	3.97E+02
SE	21	62452	10/09/01	Co-58	3.19E+00	1.25E+01	4.59E+01
SE	21	62452	10/09/01	Co-60	-0.62E+00	1.20E+01	4.64E+01
SE	21	62452	10/09/01	Cs-134	-1.21E+01	1.10E+01	4.25E+01
SE	21	62452	10/09/01	Cs-137	1.37E+01	1.25E+01	4.25E+01
SE	21	62452	10/09/01	K-40	1.35E+04	5.86E+02	4.40E+02 *
SE	21	62452	10/09/01	Th-232	4.07E+02	5.66E+01	1.65E+02 *
SE	21	62453	10/09/01	Be-7	-1.03E+02	1.35E+02	5.25E+02
SE	21	62453	10/09/01	Co-58	-1.69E+01	1.60E+01	6.62E+01
SE	21	62453	10/09/01	Co-60	2.15E+01	1.92E+01	6.58E+01
SE	21	62453	10/09/01	Cs-134	1.68E+00	1.41E+01	5.13E+01
SE	21	62453	10/09/01	Cs-137	1.22E+00	1.78E+01	6.48E+01
SE	21	62453	10/09/01	K-40	1.27E+04	6.93E+02	5.03E+02 *
SE	21	62453	10/09/01	Th-232	3.89E+02	7.09E+01	2.03E+02 *

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

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MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD DEV. (pCi/kg)	MDC (pCi/kg)
SE	91	60040	05/08/01	Be-7	-7.84E+01	1.88E+02	6.42E+02
SE	91	60040	05/08/01	Co-58	-5.06E+01	1.77E+01	6.54E+01
SE	91	60040	05/08/01	Co-60	5.32E+01	1.04E+01	4.16E+01 *
SE	91	60040	05/08/01	Cs-134	0.58E+00	1.54E+01	5.23E+01
SE	91	60040	05/08/01	Cs-137	1.07E+03	3.45E+01	7.14E+01 *
SE	91	60040	05/08/01	K-40	2.31E+04	5.25E+02	7.31E+02 *
SE	91	60040	05/08/01	Th-232	2.27E+03	6.53E+01	2.48E+02 *
SE	91	60041	05/08/01	Be-7	-1.76E+02	1.91E+02	6.58E+02
SE	91	60041	05/08/01	Co-58	-2.54E+01	2.19E+01	7.68E+01
SE	91	60041	05/08/01	Co-60	4.81E+01	1.38E+01	4.83E+01 *
SE	91	60041	05/08/01	Cs-134	1.03E+01	1.53E+01	5.19E+01
SE	91	60041	05/08/01	Cs-137	1.39E+03	3.79E+01	7.16E+01 *
SE	91	60041	05/08/01	K-40	2.53E+04	5.60E+02	8.03E+02 *
SE	91	60041	05/08/01	Th-232	2.07E+03	6.64E+01	2.50E+02 *
SE	91	60042	05/08/01	Be-7	-9.02E+01	1.71E+02	5.85E+02
SE	91	60042	05/08/01	Co-58	-3.34E+00	1.77E+01	6.09E+01
SE	91	60042	05/08/01	Co-60	1.30E+01	1.46E+01	4.93E+01
SE	91	60042	05/08/01	Cs-134	-1.99E+01	1.77E+01	6.06E+01
SE	91	60042	05/08/01	Cs-137	1.99E+03	4.02E+01	6.47E+01 *
SE	91	60042	05/08/01	K-40	2.56E+04	5.23E+02	7.10E+02 *
SE	91	60042	05/08/01	Th-232	1.85E+03	5.75E+01	2.22E+02 *
SE	91	62454	10/09/01	Be-7	4.31E+00	1.35E+02	4.55E+02
SE	91	62454	10/09/01	Co-58	-8.77E+00	1.31E+01	4.54E+01
SE	91	62454	10/09/01	Co-60	-3.49E+00	1.39E+01	4.78E+01
SE	91	62454	10/09/01	Cs-134	4.41E+00	1.35E+01	4.52E+01
SE	91	62454	10/09/01	Cs-137	1.29E+03	3.11E+01	6.10E+01 *
SE	91	62454	10/09/01	K-40	2.59E+04	4.78E+02	7.11E+02 *
SE	91	62454	10/09/01	Th-232	2.27E+03	5.52E+01	2.17E+02 *
SE	91	62455	10/09/01	Be-7	-1.77E+02	2.36E+02	8.45E+02
SE	91	62455	10/09/01	Co-58	3.11E+00	2.50E+01	8.90E+01
SE	91	62455	10/09/01	Co-60	7.77E+00	2.56E+01	9.18E+01
SE	91	62455	10/09/01	Cs-134	-9.10E+00	2.15E+01	7.67E+01
SE	91	62455	10/09/01	Cs-137	1.51E+03	6.47E+01	1.07E+02 *
SE	91	62455	10/09/01	K-40	2.42E+04	9.64E+02	1.06E+03 *
SE	91	62455	10/09/01	Th-232	1.93E+03	1.02E+02	2.91E+02 *
SE	91	62456	10/09/01	Be-7	-1.16E+02	1.85E+02	6.52E+02
SE	91	62456	10/09/01	Co-58	-9.87E+00	1.79E+01	6.50E+01
SE	91	62456	10/09/01	Co-60	-5.83E+00	1.67E+01	6.12E+01
SE	91	62456	10/09/01	Cs-134	2.70E+00	1.58E+01	5.48E+01
SE	91	62456	10/09/01	Cs-137	1.97E+03	5.70E+01	8.36E+01 *
SE	91	62456	10/09/01	K-40	2.56E+04	7.29E+02	6.80E+02 *
SE	91	62456	10/09/01	Th-232	1.75E+03	7.51E+01	2.68E+02 *

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

Yankee Nuclear Power Station
Radiological Environmental Monitoring System
Summary of 2001 Data

MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD DEV. (pCi/kg)	MDC (pCi/kg)
FOOD CROP							
TF	11	61468	08/14/01	Co-58	-8.38E+00	1.71E+01	6.73E+01
TF	11	61468	08/14/01	Co-60	-2.58E+01	1.56E+01	7.36E+01
TF	11	61468	08/14/01	Cs-134	3.47E+01	1.87E+01	5.96E+01
TF	11	61468	08/14/01	Cs-137	6.34E+00	1.43E+01	5.23E+01
TF	11	61468	08/14/01	I-131	-1.14E+01	3.96E+01	1.48E+02
TF	11	61468	08/14/01	K-40	8.97E+03	6.50E+02	7.04E+02 *
TF	13	61469	08/14/01	Co-58	-2.43E+01	1.33E+01	5.71E+01
TF	13	61469	08/14/01	Co-60	-2.16E+01	8.77E+00	4.76E+01
TF	13	61469	08/14/01	Cs-134	0.00E+00	1.16E+01	4.46E+01
TF	13	61469	08/14/01	Cs-137	1.63E+01	1.40E+01	4.75E+01
TF	13	61469	08/14/01	I-131	1.46E+01	3.67E+01	1.31E+02
TF	13	61469	08/14/01	K-40	8.12E+02	2.38E+02	6.72E+02 *
TF	21	61470	08/14/01	Co-58	-1.42E+00	7.48E+00	3.03E+01
TF	21	61470	08/14/01	Co-60	-5.06E+00	1.05E+01	4.28E+01
TF	21	61470	08/14/01	Cs-134	-7.18E+00	9.72E+00	3.94E+01
TF	21	61470	08/14/01	Cs-137	3.03E+00	9.74E+00	3.57E+01
TF	21	61470	08/14/01	I-131	3.77E+00	2.47E+01	9.06E+01
TF	21	61470	08/14/01	K-40	1.92E+03	2.37E+02	4.00E+02 *

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

Yankee Nuclear Power Station
Radiological Environmental Monitoring System
Summary of 2001 Data

MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD DEV. (pCi/kg)	MDC (pCi/kg)

MAPLE SYRUP							
MS	33	59772	04/24/01	Co-58	6.38E-02	1.29E+00	4.70E+00
MS	33	59772	04/24/01	Co-60	-2.87E+00	1.55E+00	6.29E+00
MS	33	59772	04/24/01	Cs-134	0.86E+00	1.32E+00	4.62E+00
MS	33	59772	04/24/01	Cs-137	1.78E+01	2.28E+00	5.73E+00 *
MS	33	59772	04/24/01	I-131	2.05E+00	4.81E+00	1.66E+01
MS	33	59772	04/24/01	K-40	1.85E+03	6.47E+01	5.91E+01 *
MS	45	59773	04/19/01	Co-58	0.36E+00	1.39E+00	5.12E+00
MS	45	59773	04/19/01	Co-60	-1.41E+00	1.60E+00	6.46E+00
MS	45	59773	04/19/01	Cs-134	1.07E+00	1.43E+00	5.04E+00
MS	45	59773	04/19/01	Cs-137	1.42E+01	2.43E+00	6.40E+00 *
MS	45	59773	04/19/01	I-131	-4.88E+00	8.62E+00	3.13E+01
MS	45	59773	04/19/01	K-40	1.53E+03	6.82E+01	5.86E+01 *

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

Yankee Nuclear Power Station
Radiological Environmental Monitoring System
Summary of 2001 Data

MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD DEV. (pCi/kg)	MDC (pCi/kg)

MILK							
TM	21	57924	01/03/01	Th-232	8.21E+00	7.67E+00	2.61E+01
TM	21	57924	01/03/01	Ba-140	1.89E+00	2.44E+00	8.87E+00
TM	21	57924	01/03/01	Cs-134	-1.47E+00	1.86E+00	7.24E+00
TM	21	57924	01/03/01	Cs-137	8.01E-02	1.53E+00	5.68E+00
TM	21	57924	01/03/01	I-131	-1.37E+00	3.25E+00	1.19E+01
TM	21	57924	01/03/01	K-40	1.31E+03	7.23E+01	7.71E+01 *
TM	21	58317	01/30/01	Th-232	1.22E+01	6.87E+00	2.22E+01
TM	21	58317	01/30/01	Ba-140	2.70E+00	1.95E+00	6.49E+00
TM	21	58317	01/30/01	Cs-134	-1.21E+00	1.60E+00	6.38E+00
TM	21	58317	01/30/01	Cs-137	-1.46E+00	1.80E+00	6.90E+00
TM	21	58317	01/30/01	I-131	0.80E+00	2.37E+00	8.37E+00
TM	21	58317	01/30/01	K-40	1.31E+03	7.33E+01	8.53E+01 *
TM	21	58712	02/27/01	Th-232	-4.24E+00	5.81E+00	2.16E+01
TM	21	58712	02/27/01	Ba-140	1.95E+00	2.61E+00	9.15E+00
TM	21	58712	02/27/01	Cs-134	0.55E+00	1.70E+00	6.02E+00
TM	21	58712	02/27/01	Cs-137	6.43E+00	2.77E+00	8.89E+00
TM	21	58712	02/27/01	I-131	-3.85E+00	3.54E+00	1.28E+01
TM	21	58712	02/27/01	K-40	1.42E+03	6.01E+01	6.73E+01 *
TM	21	59693	02/27/01	Sr-89	6.84E+00	2.35E+00	6.94E+00
TM	21	59693	02/27/01	Sr-90	0.66E+00	0.43E+00	1.40E+00
TM	21	59343	04/04/01	Th-232	-1.63E+01	6.70E+00	2.83E+01
TM	21	59343	04/04/01	Ba-140	-3.74E+00	3.09E+00	1.36E+01
TM	21	59343	04/04/01	Cs-134	-0.61E+00	1.70E+00	6.53E+00
TM	21	59343	04/04/01	Cs-137	1.34E+00	1.60E+00	5.59E+00
TM	21	59343	04/04/01	I-131	-5.40E+00	3.71E+00	1.45E+01
TM	21	59343	04/04/01	K-40	1.29E+03	7.31E+01	8.67E+01 *
TM	21	59753	05/02/01	Th-232	-0.17E+00	7.98E+00	2.90E+01
TM	21	59753	05/02/01	Ba-140	0.66E+00	3.15E+00	1.19E+01
TM	21	59753	05/02/01	Cs-134	-0.93E+00	1.75E+00	6.81E+00
TM	21	59753	05/02/01	Cs-137	1.82E+00	1.80E+00	6.18E+00
TM	21	59753	05/02/01	I-131	1.42E+00	3.10E+00	1.09E+01
TM	21	59753	05/02/01	K-40	1.34E+03	7.48E+01	7.53E+01 *
TM	21	60346	05/29/01	Th-232	-2.94E+00	5.90E+00	2.20E+01
TM	21	60346	05/29/01	Ba-140	-1.16E+00	2.79E+00	1.14E+01
TM	21	60346	05/29/01	Cs-134	0.92E+00	1.54E+00	5.43E+00
TM	21	60346	05/29/01	Cs-137	2.05E+00	1.69E+00	5.68E+00
TM	21	60346	05/29/01	I-131	-0.45E+00	4.73E+00	1.69E+01
TM	21	60346	05/29/01	K-40	1.31E+03	6.29E+01	7.20E+01 *
TM	21	61186	05/29/01	Sr-89	4.78E-02	2.82E+00	8.74E+00
TM	21	61186	05/29/01	Sr-90	2.89E+00	0.56E+00	1.75E+00 *

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

Yankee Nuclear Power Station
Radiological Environmental Monitoring System
Summary of 2001 Data

MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD DEV. (pCi/kg)	MDC (pCi/kg)
TM	21	60832	07/03/01	Th-232	1.11E+01	7.85E+00	2.61E+01
TM	21	60832	07/03/01	Ba-140	-2.60E+00	3.12E+00	1.37E+01
TM	21	60832	07/03/01	Cs-134	1.62E+00	1.83E+00	6.34E+00
TM	21	60832	07/03/01	Cs-137	-1.16E+00	1.76E+00	6.68E+00
TM	21	60832	07/03/01	I-131	-0.57E+00	5.94E+00	2.12E+01
TM	21	60832	07/03/01	K-40	1.36E+03	7.39E+01	8.18E+01 *
TM	21	61276	08/01/01	Th-232	3.54E+00	4.34E+00	1.49E+01
TM	21	61276	08/01/01	Ba-140	-1.07E+00	1.26E+00	5.23E+00
TM	21	61276	08/01/01	Cs-134	0.64E+00	1.15E+00	4.04E+00
TM	21	61276	08/01/01	Cs-137	-0.60E+00	1.16E+00	4.26E+00
TM	21	61276	08/01/01	I-131	2.46E+00	1.82E+00	6.06E+00
TM	21	61276	08/01/01	K-40	1.39E+03	5.20E+01	5.56E+01 *
TM	21	61717	08/30/01	Th-232	3.08E+00	2.95E+00	9.95E+00
TM	21	61717	08/30/01	Ba-140	1.55E+00	1.18E+00	3.95E+00
TM	21	61717	08/30/01	Cs-134	-0.23E+00	0.75E+00	2.68E+00
TM	21	61717	08/30/01	Cs-137	-0.10E+00	0.78E+00	2.75E+00
TM	21	61717	08/30/01	I-131	0.50E+00	1.87E+00	6.43E+00
TM	21	61717	08/30/01	K-40	1.37E+03	3.57E+01	3.70E+01 *
TM	21	62523	08/30/01	Sr-89	-5.04E+00	3.16E+00	9.01E+00
TM	21	62523	08/30/01	Sr-90	1.22E+00	0.57E+00	1.87E+00
TM	21	62231	10/03/01	Th-232	1.49E+01	6.97E+00	2.19E+01
TM	21	62231	10/03/01	Ba-140	-0.54E+00	1.61E+00	7.04E+00
TM	21	62231	10/03/01	Cs-134	2.20E+00	1.57E+00	5.24E+00
TM	21	62231	10/03/01	Cs-137	1.74E+00	1.72E+00	5.91E+00
TM	21	62231	10/03/01	I-131	3.99E+00	2.30E+00	7.49E+00
TM	21	62231	10/03/01	K-40	1.36E+03	7.33E+01	7.02E+01 *
TM	21	62731	10/31/01	Th-232	5.32E+00	7.85E+00	2.73E+01
TM	21	62731	10/31/01	Ba-140	1.62E+00	2.22E+00	8.08E+00
TM	21	62731	10/31/01	Cs-134	-7.00E-02	1.68E+00	6.29E+00
TM	21	62731	10/31/01	Cs-137	1.72E+00	2.16E+00	7.42E+00
TM	21	62731	10/31/01	I-131	-1.61E+00	2.78E+00	1.01E+01
TM	21	62731	10/31/01	K-40	1.42E+03	7.53E+01	8.05E+01 *
TM	21	63052	11/28/01	Th-232	5.48E+00	4.94E+00	1.67E+01
TM	21	63052	11/28/01	Ba-140	1.32E+00	1.65E+00	5.79E+00
TM	21	63052	11/28/01	Cs-134	0.26E+00	1.37E+00	4.90E+00
TM	21	63052	11/28/01	Cs-137	-1.11E+00	1.48E+00	5.42E+00
TM	21	63052	11/28/01	I-131	3.55E+00	1.94E+00	6.30E+00
TM	21	63052	11/28/01	K-40	1.40E+03	5.44E+01	5.95E+01 *
TM	21	63661	11/28/01	Sr-89	-1.13E+00	2.62E+00	9.15E+00
TM	21	63661	11/28/01	Sr-90	0.92E+00	0.48E+00	1.55E+00

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

Yankee Nuclear Power Station
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Summary of 2001 Data

MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD DEV. (pCi/kg)	MDC (pCi/kg)
GROUND WATER							
WG	11	57929	01/03/01	Ba-140	-3.22E+00	2.65E+00	1.17E+01
WG	11	57929	01/03/01	Co-58	-1.40E+00	1.21E+00	5.19E+00
WG	11	57929	01/03/01	Co-60	-1.08E+00	1.39E+00	6.05E+00
WG	11	57929	01/03/01	Cs-134	0.72E+00	1.36E+00	5.00E+00
WG	11	57929	01/03/01	Cs-137	-0.49E+00	1.32E+00	5.15E+00
WG	11	57929	01/03/01	Fe-59	0.00E+00	3.56E+00	1.35E+01
WG	11	57929	01/03/01	GR-B	2.84E+00	0.70E+00	2.18E+00 *
WG	11	57929	01/03/01	H-3	-1.02E+02	1.12E+02	3.78E+02
WG	11	57929	01/03/01	I-131	-1.05E+00	3.15E+00	1.15E+01
WG	11	57929	01/03/01	Mn-54	0.52E+00	1.37E+00	5.06E+00
WG	11	57929	01/03/01	Zn-65	-3.26E+00	4.61E+00	1.84E+01
WG	11	57929	01/03/01	Zr-95	-1.70E+00	2.46E+00	9.87E+00
WG	11	58322	01/30/01	Ba-140	-1.14E+00	2.78E+00	1.11E+01
WG	11	58322	01/30/01	Co-58	-3.13E+00	1.72E+00	7.10E+00
WG	11	58322	01/30/01	Co-60	0.55E+00	2.03E+00	7.49E+00
WG	11	58322	01/30/01	Cs-134	-0.96E+00	1.58E+00	6.26E+00
WG	11	58322	01/30/01	Cs-137	-1.14E+00	1.74E+00	6.64E+00
WG	11	58322	01/30/01	Fe-59	2.66E+00	4.57E+00	1.66E+01
WG	11	58322	01/30/01	GR-B	1.80E+00	1.01E+00	3.29E+00
WG	11	58322	01/30/01	H-3	0.00E+00	1.12E+02	3.74E+02
WG	11	58322	01/30/01	I-131	3.18E+00	3.04E+00	1.03E+01
WG	11	58322	01/30/01	Mn-54	-2.55E+00	1.94E+00	7.60E+00
WG	11	58322	01/30/01	Zn-65	-3.19E+00	3.67E+00	1.47E+01
WG	11	58322	01/30/01	Zr-95	0.79E+00	2.78E+00	1.01E+01
WG	11	58726	02/26/01	Ba-140	0.00E+00	2.50E+00	9.85E+00
WG	11	58726	02/26/01	Co-58	-5.06E+00	1.40E+00	6.59E+00
WG	11	58726	02/26/01	Co-60	-0.67E+00	2.02E+00	7.73E+00
WG	11	58726	02/26/01	Cs-134	-1.41E+00	1.35E+00	5.59E+00
WG	11	58726	02/26/01	Cs-137	-2.39E+00	1.49E+00	6.07E+00
WG	11	58726	02/26/01	Fe-59	0.88E+00	3.96E+00	1.51E+01
WG	11	58726	02/26/01	GR-B	2.99E+00	0.54E+00	1.65E+00 *
WG	11	58726	02/26/01	H-3	-1.08E+02	1.19E+02	4.01E+02
WG	11	58726	02/26/01	I-131	-1.80E+00	3.43E+00	1.26E+01
WG	11	58726	02/26/01	Mn-54	-0.27E+00	1.15E+00	4.51E+00
WG	11	58726	02/26/01	Zn-65	-5.90E+00	2.77E+00	1.26E+01
WG	11	58726	02/26/01	Zr-95	-2.82E+00	2.22E+00	9.34E+00
WG	11	59339	04/03/01	Ba-140	-0.86E+00	2.35E+00	9.15E+00
WG	11	59339	04/03/01	Co-58	-0.97E+00	0.97E+00	3.85E+00
WG	11	59339	04/03/01	Co-60	0.60E+00	1.12E+00	4.01E+00
WG	11	59339	04/03/01	Cs-134	-0.30E+00	0.93E+00	3.55E+00
WG	11	59339	04/03/01	Cs-137	0.77E+00	1.10E+00	3.83E+00
WG	11	59339	04/03/01	Fe-59	-4.43E+00	2.85E+00	1.21E+01
WG	11	59339	04/03/01	GR-B	4.23E+00	0.54E+00	1.58E+00 *
WG	11	59339	04/03/01	H-3	-1.07E+02	1.05E+02	3.53E+02
WG	11	59339	04/03/01	I-131	-2.04E+00	3.54E+00	1.29E+01
WG	11	59339	04/03/01	Mn-54	0.58E+00	0.94E+00	3.31E+00
WG	11	59339	04/03/01	Zn-65	3.38E+00	4.78E+00	1.62E+01
WG	11	59339	04/03/01	Zr-95	2.20E+00	1.84E+00	6.23E+00

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

Yankee Nuclear Power Station
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Summary of 2001 Data

MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD DEV. (pCi/kg)	MDC (pCi/kg)
<hr/>							
WG	11	59758	05/02/01	Ba-140	0.00E+00	3.44E+00	1.30E+01
WG	11	59758	05/02/01	Co-58	-1.37E+00	1.53E+00	6.12E+00
WG	11	59758	05/02/01	Co-60	1.61E+00	2.20E+00	7.76E+00
WG	11	59758	05/02/01	Cs-134	-3.56E-02	1.74E+00	6.52E+00
WG	11	59758	05/02/01	Cs-137	-4.71E+00	2.13E+00	8.52E+00
WG	11	59758	05/02/01	Fe-59	-6.72E+00	5.46E+00	2.23E+01
WG	11	59758	05/02/01	GR-B	2.92E+00	0.53E+00	1.62E+00 *
WG	11	59758	05/02/01	H-3	4.40E+01	1.06E+02	3.51E+02
WG	11	59758	05/02/01	I-131	4.19E+00	3.60E+00	1.21E+01
WG	11	59758	05/02/01	Mn-54	-2.04E+00	2.01E+00	7.72E+00
WG	11	59758	05/02/01	Zn-65	-5.13E+00	3.74E+00	1.54E+01
WG	11	59758	05/02/01	Zr-95	1.49E+00	2.62E+00	9.42E+00
WG	11	60350	05/29/01	Ba-140	0.45E+00	2.68E+00	9.92E+00
WG	11	60350	05/29/01	Co-58	-0.30E+00	1.01E+00	3.83E+00
WG	11	60350	05/29/01	Co-60	0.64E+00	1.18E+00	4.25E+00
WG	11	60350	05/29/01	Cs-134	-1.76E+00	1.07E+00	4.36E+00
WG	11	60350	05/29/01	Cs-137	-3.88E+00	1.19E+00	4.99E+00
WG	11	60350	05/29/01	Fe-59	-0.90E+00	3.02E+00	1.17E+01
WG	11	60350	05/29/01	GR-B	2.38E+00	0.64E+00	2.00E+00 *
WG	11	60350	05/29/01	H-3	-7.11E+01	1.14E+02	3.82E+02
WG	11	60350	05/29/01	I-131	1.45E+00	3.50E+00	1.23E+01
WG	11	60350	05/29/01	Mn-54	0.00E+00	0.97E+00	3.57E+00
WG	11	60350	05/29/01	Zn-65	-3.18E+00	2.53E+00	9.97E+00
WG	11	60350	05/29/01	Zr-95	1.89E+00	1.84E+00	6.30E+00
WG	11	60849	07/03/01	Ba-140	0.00E+00	3.52E+00	1.40E+01
WG	11	60849	07/03/01	Co-58	-2.96E+00	1.40E+00	6.29E+00
WG	11	60849	07/03/01	Co-60	-0.69E+00	1.43E+00	5.98E+00
WG	11	60849	07/03/01	Cs-134	-1.65E+00	1.40E+00	5.89E+00
WG	11	60849	07/03/01	Cs-137	-2.60E+00	1.63E+00	6.64E+00
WG	11	60849	07/03/01	Fe-59	-2.10E+00	4.34E+00	1.79E+01
WG	11	60849	07/03/01	GR-B	2.49E+00	0.55E+00	1.72E+00 *
WG	11	60849	07/03/01	H-3	0.00E+00	8.34E+01	2.79E+02
WG	11	60849	07/03/01	I-131	1.74E+00	4.75E+00	1.68E+01
WG	11	60849	07/03/01	Mn-54	0.26E+00	1.53E+00	5.68E+00
WG	11	60849	07/03/01	Zn-65	-5.88E+00	3.87E+00	1.60E+01
WG	11	60849	07/03/01	Zr-95	-4.87E+00	2.75E+00	1.17E+01
WG	11	61272	08/01/01	Ba-140	1.45E+00	1.57E+00	5.47E+00
WG	11	61272	08/01/01	Co-58	-1.54E+00	1.05E+00	4.21E+00
WG	11	61272	08/01/01	Co-60	-0.12E+00	1.08E+00	4.10E+00
WG	11	61272	08/01/01	Cs-134	0.16E+00	1.02E+00	3.75E+00
WG	11	61272	08/01/01	Cs-137	-1.76E+00	1.19E+00	4.62E+00
WG	11	61272	08/01/01	Fe-59	-4.71E+00	2.27E+00	1.03E+01
WG	11	61272	08/01/01	GR-B	3.23E+00	0.54E+00	1.64E+00 *
WG	11	61272	08/01/01	H-3	-1.31E+02	1.06E+02	3.55E+02
WG	11	61272	08/01/01	I-131	2.32E+00	2.12E+00	7.11E+00
WG	11	61272	08/01/01	Mn-54	0.14E+00	1.10E+00	3.97E+00
WG	11	61272	08/01/01	Zn-65	0.46E+00	6.18E+00	2.12E+01
WG	11	61272	08/01/01	Zr-95	-0.48E+00	1.85E+00	6.90E+00

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

Yankee Nuclear Power Station
Radiological Environmental Monitoring System
Summary of 2001 Data

MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD DEV. (pCi/kg)	MDC (pCi/kg)
WG	11	61714	08/30/01	Ba-140	3.80E+00	2.60E+00	8.59E+00
WG	11	61714	08/30/01	Co-58	-2.10E+00	1.14E+00	4.91E+00
WG	11	61714	08/30/01	Co-60	0.17E+00	1.43E+00	5.38E+00
WG	11	61714	08/30/01	Cs-134	-1.05E+00	1.14E+00	4.65E+00
WG	11	61714	08/30/01	Cs-137	2.30E+00	1.35E+00	4.40E+00
WG	11	61714	08/30/01	Fe-59	-3.26E+00	3.49E+00	1.46E+01
WG	11	61714	08/30/01	GR-B	2.81E+00	0.63E+00	1.97E+00 *
WG	11	61714	08/30/01	H-3	6.12E+01	9.03E+01	2.83E+02
WG	11	61714	08/30/01	I-131	0.35E+00	3.25E+00	1.16E+01
WG	11	61714	08/30/01	Mn-54	-0.12E+00	1.08E+00	4.11E+00
WG	11	61714	08/30/01	Zn-65	-1.06E+00	6.68E+00	2.34E+01
WG	11	61714	08/30/01	Zr-95	0.72E+00	2.33E+00	8.46E+00
WG	11	62236	10/03/01	Ba-140	-2.11E+00	1.94E+00	8.13E+00
WG	11	62236	10/03/01	Co-58	-4.34E+00	1.34E+00	5.88E+00
WG	11	62236	10/03/01	Co-60	0.14E+00	1.48E+00	5.58E+00
WG	11	62236	10/03/01	Cs-134	-1.77E+00	1.46E+00	5.79E+00
WG	11	62236	10/03/01	Cs-137	0.78E+00	1.47E+00	5.18E+00
WG	11	62236	10/03/01	Fe-59	0.76E+00	4.13E+00	1.52E+01
WG	11	62236	10/03/01	GR-B	3.73E+00	0.43E+00	1.04E+00 *
WG	11	62236	10/03/01	H-3	9.94E+01	8.93E+01	2.80E+02
WG	11	62236	10/03/01	I-131	-0.83E+00	1.97E+00	7.20E+00
WG	11	62236	10/03/01	Mn-54	0.55E+00	1.23E+00	4.41E+00
WG	11	62236	10/03/01	Zn-65	3.85E+00	8.11E+00	2.76E+01
WG	11	62236	10/03/01	Zr-95	8.49E-02	2.23E+00	8.22E+00
WG	11	62735	10/31/01	Ba-140	-0.59E+00	1.77E+00	6.76E+00
WG	11	62735	10/31/01	Co-58	-1.38E+00	1.21E+00	4.66E+00
WG	11	62735	10/31/01	Co-60	1.56E+00	1.33E+00	4.49E+00
WG	11	62735	10/31/01	Cs-134	0.44E+00	1.16E+00	4.14E+00
WG	11	62735	10/31/01	Cs-137	-1.86E+00	1.38E+00	5.22E+00
WG	11	62735	10/31/01	Fe-59	7.38E+00	2.87E+00	8.41E+00
WG	11	62735	10/31/01	GR-B	3.22E+00	0.45E+00	1.15E+00 *
WG	11	62735	10/31/01	H-3	-7.60E+01	1.04E+02	3.34E+02
WG	11	62735	10/31/01	I-131	1.09E+00	2.09E+00	7.20E+00
WG	11	62735	10/31/01	Mn-54	0.14E+00	1.00E+00	3.65E+00
WG	11	62735	10/31/01	Zn-65	-5.15E+00	6.03E+00	2.13E+01
WG	11	62735	10/31/01	Zr-95	0.61E+00	1.99E+00	7.11E+00
WG	11	63056	11/28/01	Ba-140	2.94E+00	1.71E+00	5.53E+00
WG	11	63056	11/28/01	Co-58	-0.52E+00	0.97E+00	3.74E+00
WG	11	63056	11/28/01	Co-60	-0.76E+00	1.40E+00	5.31E+00
WG	11	63056	11/28/01	Cs-134	1.68E+00	1.20E+00	3.98E+00
WG	11	63056	11/28/01	Cs-137	-0.26E+00	1.20E+00	4.38E+00
WG	11	63056	11/28/01	Fe-59	2.34E+00	2.64E+00	9.27E+00
WG	11	63056	11/28/01	GR-B	3.10E+00	0.35E+00	0.91E+00 *
WG	11	63056	11/28/01	H-3	-5.48E+01	1.12E+02	3.50E+02
WG	11	63056	11/28/01	I-131	2.35E+00	2.16E+00	7.26E+00
WG	11	63056	11/28/01	Mn-54	2.02E+00	1.27E+00	4.18E+00
WG	11	63056	11/28/01	Zn-65	1.86E+00	6.63E+00	2.26E+01
WG	11	63056	11/28/01	Zr-95	-3.91E+00	1.81E+00	7.49E+00

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

Yankee Nuclear Power Station
Radiological Environmental Monitoring System
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MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD DEV. (pCi/kg)	MDC (pCi/kg)
WG	12	57930	01/03/01	Ba-140	1.64E+00	1.94E+00	6.79E+00
WG	12	57930	01/03/01	Co-58	-0.40E+00	0.98E+00	3.74E+00
WG	12	57930	01/03/01	Co-60	2.15E+00	1.07E+00	3.33E+00
WG	12	57930	01/03/01	Cs-134	1.23E+00	1.04E+00	3.54E+00
WG	12	57930	01/03/01	Cs-137	-0.31E+00	1.23E+00	4.49E+00
WG	12	57930	01/03/01	Fe-59	0.69E+00	2.14E+00	7.79E+00
WG	12	57930	01/03/01	GR-B	3.44E+00	0.75E+00	2.28E+00 *
WG	12	57930	01/03/01	H-3	-6.85E+01	1.13E+02	3.81E+02
WG	12	57930	01/03/01	I-131	-0.22E+00	2.19E+00	7.82E+00
WG	12	57930	01/03/01	Mn-54	-0.29E+00	1.11E+00	4.11E+00
WG	12	57930	01/03/01	Zn-65	4.68E+00	5.80E+00	1.96E+01
WG	12	57930	01/03/01	Zr-95	1.68E+00	1.87E+00	6.46E+00
WG	12	58323	01/30/01	Ba-140	1.47E+00	1.52E+00	5.32E+00
WG	12	58323	01/30/01	Co-58	-0.43E+00	0.92E+00	3.54E+00
WG	12	58323	01/30/01	Co-60	-1.12E+00	1.03E+00	4.24E+00
WG	12	58323	01/30/01	Cs-134	-4.02E-02	0.96E+00	3.61E+00
WG	12	58323	01/30/01	Cs-137	-1.58E+00	1.02E+00	4.07E+00
WG	12	58323	01/30/01	Fe-59	-1.72E+00	2.47E+00	9.98E+00
WG	12	58323	01/30/01	GR-B	2.42E+00	1.14E+00	3.69E+00
WG	12	58323	01/30/01	H-3	1.02E+02	1.13E+02	3.73E+02
WG	12	58323	01/30/01	I-131	2.71E+00	1.74E+00	5.73E+00
WG	12	58323	01/30/01	Mn-54	-0.14E+00	0.85E+00	3.21E+00
WG	12	58323	01/30/01	Zn-65	-4.49E+00	1.93E+00	8.48E+00
WG	12	58323	01/30/01	Zr-95	-0.67E+00	1.66E+00	6.32E+00
WG	12	58727	02/26/01	Ba-140	1.61E+00	4.11E+00	1.52E+01
WG	12	58727	02/26/01	Co-58	-1.80E+00	2.08E+00	8.18E+00
WG	12	58727	02/26/01	Co-60	-1.94E+00	2.08E+00	8.69E+00
WG	12	58727	02/26/01	Cs-134	-4.29E+00	1.98E+00	8.57E+00
WG	12	58727	02/26/01	Cs-137	-1.61E+00	2.02E+00	7.82E+00
WG	12	58727	02/26/01	Fe-59	-1.31E+00	5.27E+00	2.10E+01
WG	12	58727	02/26/01	GR-B	3.38E+00	0.55E+00	1.65E+00 *
WG	12	58727	02/26/01	H-3	3.59E+01	1.20E+02	3.99E+02
WG	12	58727	02/26/01	I-131	9.03E+00	4.74E+00	1.53E+01
WG	12	58727	02/26/01	Mn-54	0.62E+00	1.85E+00	6.75E+00
WG	12	58727	02/26/01	Zn-65	2.33E+00	5.03E+00	1.74E+01
WG	12	58727	02/26/01	Zr-95	-3.37E+00	3.24E+00	1.31E+01
WG	12	59340	04/03/01	Ba-140	2.69E+00	3.14E+00	1.11E+01
WG	12	59340	04/03/01	Co-58	-1.06E+00	1.30E+00	5.16E+00
WG	12	59340	04/03/01	Co-60	0.79E+00	1.36E+00	4.94E+00
WG	12	59340	04/03/01	Cs-134	-0.94E+00	1.28E+00	5.06E+00
WG	12	59340	04/03/01	Cs-137	-6.21E-02	1.32E+00	4.87E+00
WG	12	59340	04/03/01	Fe-59	7.83E+00	4.23E+00	1.34E+01
WG	12	59340	04/03/01	GR-B	3.66E+00	0.54E+00	1.62E+00 *
WG	12	59340	04/03/01	H-3	2.15E+02	1.08E+02	3.55E+02
WG	12	59340	04/03/01	I-131	-1.61E+01	4.67E+00	1.90E+01
WG	12	59340	04/03/01	Mn-54	-0.64E+00	1.33E+00	5.07E+00
WG	12	59340	04/03/01	Zn-65	-2.51E+00	7.21E+00	2.53E+01
WG	12	59340	04/03/01	Zr-95	0.14E+00	2.11E+00	7.91E+00

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

Yankee Nuclear Power Station
Radiological Environmental Monitoring System
Summary of 2001 Data

MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD DEV. (pCi/kg)	MDC (pCi/kg)
WG	12	59759	05/02/01	Ba-140	-2.83E+00	1.57E+00	6.87E+00
WG	12	59759	05/02/01	Co-58	-0.32E+00	1.05E+00	3.94E+00
WG	12	59759	05/02/01	Co-60	0.78E+00	1.27E+00	4.50E+00
WG	12	59759	05/02/01	Cs-134	-0.10E+00	0.89E+00	3.39E+00
WG	12	59759	05/02/01	Cs-137	0.80E+00	1.19E+00	4.15E+00
WG	12	59759	05/02/01	Fe-59	0.75E+00	2.75E+00	1.02E+01
WG	12	59759	05/02/01	GR-B	4.13E+00	0.58E+00	1.72E+00 *
WG	12	59759	05/02/01	H-3	3.74E+02	1.09E+02	3.53E+02 *
WG	12	59759	05/02/01	I-131	0.00E+00	1.76E+00	6.32E+00
WG	12	59759	05/02/01	Mn-54	0.57E+00	1.09E+00	3.86E+00
WG	12	59759	05/02/01	Zn-65	0.00E+00	1.84E+00	6.98E+00
WG	12	59759	05/02/01	Zr-95	4.79E+00	1.83E+00	5.49E+00
WG	12	60351	05/29/01	Ba-140	6.33E+00	2.63E+00	7.94E+00
WG	12	60351	05/29/01	Co-58	2.04E+00	1.84E+00	6.17E+00
WG	12	60351	05/29/01	Co-60	1.13E+00	1.14E+00	3.94E+00
WG	12	60351	05/29/01	Cs-134	1.08E+00	1.06E+00	3.62E+00
WG	12	60351	05/29/01	Cs-137	-2.37E+00	1.34E+00	5.12E+00
WG	12	60351	05/29/01	Fe-59	-3.23E+00	3.86E+00	1.48E+01
WG	12	60351	05/29/01	GR-B	3.54E+00	0.71E+00	2.17E+00 *
WG	12	60351	05/29/01	H-3	7.08E+01	1.15E+02	3.81E+02
WG	12	60351	05/29/01	I-131	3.01E+00	4.32E+00	1.47E+01
WG	12	60351	05/29/01	Mn-54	-1.33E+00	1.23E+00	4.65E+00
WG	12	60351	05/29/01	Zn-65	7.36E+00	6.96E+00	2.32E+01
WG	12	60351	05/29/01	Zr-95	-3.04E+00	2.17E+00	8.42E+00
WG	12	60850	07/03/01	Ba-140	0.21E+00	1.68E+00	6.05E+00
WG	12	60850	07/03/01	Co-58	-0.77E+00	0.77E+00	2.79E+00
WG	12	60850	07/03/01	Co-60	-0.53E+00	0.61E+00	2.30E+00
WG	12	60850	07/03/01	Cs-134	-0.68E+00	0.65E+00	2.39E+00
WG	12	60850	07/03/01	Cs-137	-1.03E+00	0.65E+00	2.40E+00
WG	12	60850	07/03/01	Fe-59	2.16E+00	1.92E+00	6.48E+00
WG	12	60850	07/03/01	GR-B	4.49E+00	0.64E+00	1.90E+00 *
WG	12	60850	07/03/01	H-3	2.55E+02	8.55E+01	2.78E+02
WG	12	60850	07/03/01	I-131	0.99E+00	3.38E+00	1.16E+01
WG	12	60850	07/03/01	Mn-54	-0.51E+00	0.63E+00	2.28E+00
WG	12	60850	07/03/01	Zn-65	3.12E+00	3.19E+00	1.06E+01
WG	12	60850	07/03/01	Zr-95	-1.22E+00	1.15E+00	4.22E+00
WG	12	61273	08/01/01	Ba-140	-1.82E+00	1.77E+00	7.12E+00
WG	12	61273	08/01/01	Co-58	0.00E+00	1.40E+00	5.00E+00
WG	12	61273	08/01/01	Co-60	2.62E+00	1.28E+00	4.04E+00
WG	12	61273	08/01/01	Cs-134	0.78E+00	1.28E+00	4.46E+00
WG	12	61273	08/01/01	Cs-137	-3.90E+00	1.37E+00	5.48E+00
WG	12	61273	08/01/01	Fe-59	2.47E+00	2.36E+00	8.21E+00
WG	12	61273	08/01/01	GR-B	6.25E+00	0.66E+00	1.89E+00 *
WG	12	61273	08/01/01	H-3	9.59E+01	1.08E+02	3.57E+02
WG	12	61273	08/01/01	I-131	2.16E+00	2.28E+00	7.71E+00
WG	12	61273	08/01/01	Mn-54	0.42E+00	1.20E+00	4.26E+00
WG	12	61273	08/01/01	Zn-65	1.91E+00	6.86E+00	2.33E+01
WG	12	61273	08/01/01	Zr-95	0.85E+00	1.97E+00	6.97E+00

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

Yankee Nuclear Power Station
Radiological Environmental Monitoring System
Summary of 2001 Data

MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD DEV. (pCi/kg)	MDC (pCi/kg)
WG	12	61715	08/30/01	Ba-140	2.26E+00	2.50E+00	9.04E+00
WG	12	61715	08/30/01	Co-58	0.60E+00	1.54E+00	5.63E+00
WG	12	61715	08/30/01	Co-60	-2.66E+00	1.42E+00	6.71E+00
WG	12	61715	08/30/01	Cs-134	2.53E+00	1.63E+00	5.34E+00
WG	12	61715	08/30/01	Cs-137	-0.45E+00	1.85E+00	6.86E+00
WG	12	61715	08/30/01	Fe-59	-2.28E+00	4.71E+00	1.90E+01
WG	12	61715	08/30/01	GR-B	5.80E+00	0.72E+00	2.13E+00 *
WG	12	61715	08/30/01	H-3	1.99E+02	9.09E+01	2.82E+02
WG	12	61715	08/30/01	I-131	1.35E+00	4.11E+00	1.45E+01
WG	12	61715	08/30/01	Mn-54	-1.57E+00	1.28E+00	5.41E+00
WG	12	61715	08/30/01	Zn-65	-5.90E+00	3.28E+00	1.44E+01
WG	12	61715	08/30/01	Zr-95	1.69E+00	2.32E+00	8.35E+00
WG	12	62237	10/03/01	Ba-140	0.00E+00	2.17E+00	8.62E+00
WG	12	62237	10/03/01	Co-58	1.59E+00	1.16E+00	3.87E+00
WG	12	62237	10/03/01	Co-60	1.26E+00	1.46E+00	5.25E+00
WG	12	62237	10/03/01	Cs-134	-0.72E+00	1.58E+00	6.20E+00
WG	12	62237	10/03/01	Cs-137	-1.60E+00	1.38E+00	5.67E+00
WG	12	62237	10/03/01	Fe-59	0.81E+00	4.36E+00	1.66E+01
WG	12	62237	10/03/01	GR-B	6.87E+00	0.60E+00	1.37E+00 *
WG	12	62237	10/03/01	H-3	2.98E+02	9.09E+01	2.79E+02 *
WG	12	62237	10/03/01	I-131	1.61E+00	1.90E+00	6.58E+00
WG	12	62237	10/03/01	Mn-54	-0.77E+00	1.48E+00	5.78E+00
WG	12	62237	10/03/01	Zn-65	-6.45E+00	3.53E+00	1.52E+01
WG	12	62237	10/03/01	Zr-95	1.81E+00	2.49E+00	8.84E+00
WG	12	62736	10/31/01	Ba-140	-1.13E+00	1.39E+00	5.70E+00
WG	12	62736	10/31/01	Co-58	-1.73E+00	1.04E+00	4.18E+00
WG	12	62736	10/31/01	Co-60	1.99E+00	1.16E+00	3.75E+00
WG	12	62736	10/31/01	Cs-134	0.16E+00	1.20E+00	4.32E+00
WG	12	62736	10/31/01	Cs-137	-0.73E+00	1.06E+00	4.02E+00
WG	12	62736	10/31/01	Fe-59	2.94E+00	2.45E+00	8.36E+00
WG	12	62736	10/31/01	GR-B	6.30E+00	0.62E+00	1.43E+00 *
WG	12	62736	10/31/01	H-3	0.00E+00	1.25E+02	3.86E+02
WG	12	62736	10/31/01	I-131	-1.41E+00	1.80E+00	6.63E+00
WG	12	62736	10/31/01	Mn-54	-0.55E+00	0.96E+00	3.66E+00
WG	12	62736	10/31/01	Zn-65	2.68E+00	5.02E+00	1.71E+01
WG	12	62736	10/31/01	Zr-95	1.40E+00	1.58E+00	5.48E+00
WG	12	63057	11/28/01	Ba-140	-0.65E+00	1.35E+00	5.39E+00
WG	12	63057	11/28/01	Co-58	0.94E+00	0.92E+00	3.15E+00
WG	12	63057	11/28/01	Co-60	0.29E+00	0.95E+00	3.54E+00
WG	12	63057	11/28/01	Cs-134	-0.11E+00	0.96E+00	3.59E+00
WG	12	63057	11/28/01	Cs-137	1.00E+00	0.99E+00	3.40E+00
WG	12	63057	11/28/01	Fe-59	0.11E+00	2.64E+00	9.88E+00
WG	12	63057	11/28/01	GR-B	6.73E+00	0.49E+00	1.11E+00 *
WG	12	63057	11/28/01	H-3	1.11E+02	1.15E+02	3.54E+02
WG	12	63057	11/28/01	I-131	0.50E+00	1.59E+00	5.60E+00
WG	12	63057	11/28/01	Mn-54	-1.16E+00	0.77E+00	3.20E+00
WG	12	63057	11/28/01	Zn-65	-0.32E+00	2.75E+00	1.00E+01
WG	12	63057	11/28/01	Zr-95	3.16E+00	1.74E+00	5.60E+00

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

Yankee Nuclear Power Station
Radiological Environmental Monitoring System
Summary of 2001 Data

MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD DEV. (pCi/kg)	MDC (pCi/kg)
RIVER WATER							
WR	11	57926	01/03/01	Ba-140	-1.85E+00	3.09E+00	1.24E+01
WR	11	57926	01/03/01	Co-58	-4.94E+00	2.09E+00	8.61E+00
WR	11	57926	01/03/01	Co-60	1.88E+00	2.48E+00	8.68E+00
WR	11	57926	01/03/01	Cs-134	0.58E+00	2.15E+00	7.71E+00
WR	11	57926	01/03/01	Cs-137	-5.73E+00	2.47E+00	9.70E+00
WR	11	57926	01/03/01	Fe-59	-1.29E+00	4.08E+00	1.55E+01
WR	11	57926	01/03/01	GR-B	1.42E+00	0.63E+00	2.02E+00
WR	11	57926	01/03/01	I-131	-4.59E+00	4.35E+00	1.58E+01
WR	11	57926	01/03/01	Mn-54	-0.52E+00	2.24E+00	8.19E+00
WR	11	57926	01/03/01	Zn-65	-3.27E+00	4.09E+00	1.61E+01
WR	11	57926	01/03/01	Zr-95	-8.12E+00	3.07E+00	1.32E+01
WR	11	58318	01/30/01	Ba-140	-0.54E+00	1.42E+00	5.57E+00
WR	11	58318	01/30/01	Co-58	-2.00E+00	1.19E+00	4.69E+00
WR	11	58318	01/30/01	Co-60	-1.94E+00	1.13E+00	4.71E+00
WR	11	58318	01/30/01	Cs-134	-0.47E+00	1.23E+00	4.58E+00
WR	11	58318	01/30/01	Cs-137	0.14E+00	1.07E+00	3.88E+00
WR	11	58318	01/30/01	Fe-59	1.96E+00	3.02E+00	1.07E+01
WR	11	58318	01/30/01	GR-B	2.22E+00	0.95E+00	3.05E+00
WR	11	58318	01/30/01	I-131	-2.76E+00	1.93E+00	7.16E+00
WR	11	58318	01/30/01	Mn-54	-1.38E+00	1.09E+00	4.23E+00
WR	11	58318	01/30/01	Zn-65	1.66E+00	6.24E+00	2.13E+01
WR	11	58318	01/30/01	Zr-95	-1.88E+00	1.74E+00	6.81E+00
WR	11	58723	02/26/01	Ba-140	-1.24E+00	1.90E+00	7.81E+00
WR	11	58723	02/26/01	Co-58	-1.66E+00	1.01E+00	4.30E+00
WR	11	58723	02/26/01	Co-60	-2.14E+00	1.31E+00	5.54E+00
WR	11	58723	02/26/01	Cs-134	0.82E+00	1.32E+00	4.68E+00
WR	11	58723	02/26/01	Cs-137	-0.17E+00	1.31E+00	4.80E+00
WR	11	58723	02/26/01	Fe-59	-0.93E+00	3.22E+00	1.26E+01
WR	11	58723	02/26/01	GR-B	0.24E+00	0.45E+00	1.51E+00
WR	11	59631	02/26/01	H-3	3.89E+02	3.67E+02	1.22E+03
WR	11	58723	02/26/01	I-131	-4.50E+00	2.70E+00	1.04E+01
WR	11	58723	02/26/01	Mn-54	0.00E+00	1.04E+00	3.88E+00
WR	11	58723	02/26/01	Zn-65	-2.09E+00	2.33E+00	9.39E+00
WR	11	58723	02/26/01	Zr-95	2.35E+00	1.98E+00	6.72E+00
WR	11	59336	04/03/01	Ba-140	-2.64E+00	3.41E+00	1.47E+01
WR	11	59336	04/03/01	Co-58	-7.14E-02	1.36E+00	5.28E+00
WR	11	59336	04/03/01	Co-60	3.42E+00	1.80E+00	5.61E+00
WR	11	59336	04/03/01	Cs-134	-1.32E+00	1.48E+00	6.03E+00
WR	11	59336	04/03/01	Cs-137	-2.28E+00	1.57E+00	6.36E+00
WR	11	59336	04/03/01	Fe-59	-2.23E+00	4.62E+00	1.89E+01
WR	11	59336	04/03/01	GR-B	1.39E+00	0.46E+00	1.45E+00 *
WR	11	59336	04/03/01	I-131	-1.16E+00	4.57E+00	1.69E+01
WR	11	59336	04/03/01	Mn-54	0.52E+00	1.32E+00	4.88E+00
WR	11	59336	04/03/01	Zn-65	-6.54E+00	4.13E+00	1.70E+01
WR	11	59336	04/03/01	Zr-95	0.68E+00	2.17E+00	8.22E+00

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

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Radiological Environmental Monitoring System
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MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD DEV. (pCi/kg)	MDC (pCi/kg)
WR	11	59754	05/02/01	Ba-140	-0.86E+00	1.69E+00	6.58E+00
WR	11	59754	05/02/01	Co-58	-0.14E+00	1.15E+00	4.19E+00
WR	11	59754	05/02/01	Co-60	-1.66E+00	1.01E+00	4.31E+00
WR	11	59754	05/02/01	Cs-134	-0.47E+00	1.07E+00	4.04E+00
WR	11	59754	05/02/01	Cs-137	-1.30E+00	1.18E+00	4.48E+00
WR	11	59754	05/02/01	Fe-59	-2.05E+00	2.37E+00	9.73E+00
WR	11	59754	05/02/01	GR-B	1.06E+00	0.46E+00	1.49E+00
WR	11	59754	05/02/01	I-131	0.36E+00	1.90E+00	6.67E+00
WR	11	59754	05/02/01	Mn-54	-0.55E+00	0.98E+00	3.73E+00
WR	11	59754	05/02/01	Zn-65	-1.51E+00	6.74E+00	2.32E+01
WR	11	59754	05/02/01	Zr-95	0.65E+00	1.77E+00	6.34E+00
WR	11	60347	05/29/01	Ba-140	3.56E+00	3.78E+00	1.34E+01
WR	11	60347	05/29/01	Co-58	0.11E+00	1.24E+00	4.82E+00
WR	11	60347	05/29/01	Co-60	0.89E+00	1.42E+00	5.27E+00
WR	11	60347	05/29/01	Cs-134	-0.51E+00	1.11E+00	4.65E+00
WR	11	60347	05/29/01	Cs-137	1.03E+00	1.40E+00	4.95E+00
WR	11	60347	05/29/01	Fe-59	-9.02E+00	4.77E+00	2.16E+01
WR	11	60347	05/29/01	GR-B	0.76E+00	0.59E+00	1.93E+00
WR	11	61092	05/29/01	H-3	6.68E+02	4.54E+02	1.50E+03
WR	11	60347	05/29/01	I-131	-7.65E+00	4.82E+00	1.89E+01
WR	11	60347	05/29/01	Mn-54	2.36E+00	1.46E+00	4.76E+00
WR	11	60347	05/29/01	Zn-65	-0.66E+00	3.17E+00	1.25E+01
WR	11	60347	05/29/01	Zr-95	-3.56E+00	2.76E+00	1.14E+01
WR	11	60846	07/03/01	Ba-140	-1.03E+01	3.86E+00	1.88E+01
WR	11	60846	07/03/01	Co-58	-0.95E+00	1.30E+00	5.39E+00
WR	11	60846	07/03/01	Co-60	0.75E+00	1.72E+00	6.40E+00
WR	11	60846	07/03/01	Cs-134	2.79E+00	1.23E+00	3.52E+00
WR	11	60846	07/03/01	Cs-137	-0.21E+00	1.60E+00	6.00E+00
WR	11	60846	07/03/01	Fe-59	2.56E+00	4.08E+00	1.52E+01
WR	11	60846	07/03/01	GR-B	1.19E+00	0.50E+00	1.61E+00
WR	11	60846	07/03/01	I-131	-1.92E+00	5.15E+00	1.91E+01
WR	11	60846	07/03/01	Mn-54	-1.84E+00	1.47E+00	6.05E+00
WR	11	60846	07/03/01	Zn-65	-2.65E+00	3.25E+00	1.41E+01
WR	11	60846	07/03/01	Zr-95	-3.59E+00	2.79E+00	1.16E+01
WR	11	61269	08/01/01	Ba-140	-1.87E+00	1.91E+00	8.06E+00
WR	11	61269	08/01/01	Co-58	-2.50E+00	1.16E+00	5.00E+00
WR	11	61269	08/01/01	Co-60	0.69E+00	1.53E+00	5.58E+00
WR	11	61269	08/01/01	Cs-134	-1.85E+00	1.13E+00	4.83E+00
WR	11	61269	08/01/01	Cs-137	-0.31E+00	1.16E+00	4.40E+00
WR	11	61269	08/01/01	Fe-59	5.50E+00	3.58E+00	1.18E+01
WR	11	61269	08/01/01	GR-B	1.34E+00	0.46E+00	1.46E+00
WR	11	61269	08/01/01	I-131	-1.79E+00	2.12E+00	7.89E+00
WR	11	61269	08/01/01	Mn-54	1.21E+00	1.15E+00	3.97E+00
WR	11	61269	08/01/01	Zn-65	1.09E+01	6.66E+00	2.19E+01
WR	11	61269	08/01/01	Zr-95	0.21E+00	2.03E+00	7.55E+00

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

Yankee Nuclear Power Station
Radiological Environmental Monitoring System
Summary of 2001 Data

MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD DEV. (pCi/kg)	MDC (pCi/kg)
WR	11	61711	08/30/01	Ba-140	-4.03E+00	1.83E+00	8.22E+00
WR	11	61711	08/30/01	Co-58	-1.14E+00	0.81E+00	3.41E+00
WR	11	61711	08/30/01	Co-60	-0.41E+00	0.86E+00	3.51E+00
WR	11	61711	08/30/01	Cs-134	2.34E+00	0.94E+00	2.79E+00
WR	11	61711	08/30/01	Cs-137	-0.64E+00	0.98E+00	3.77E+00
WR	11	61711	08/30/01	Fe-59	0.39E+00	2.60E+00	9.84E+00
WR	11	61711	08/30/01	GR-B	1.03E+00	0.53E+00	1.72E+00
WR	11	62534	08/30/01	H-3	2.00E+02	2.76E+02	8.77E+02
WR	11	61711	08/30/01	I-131	2.31E+00	2.34E+00	7.97E+00
WR	11	61711	08/30/01	Mn-54	-0.87E+00	1.02E+00	3.95E+00
WR	11	61711	08/30/01	Zn-65	-7.00E+00	2.21E+00	9.86E+00
WR	11	61711	08/30/01	Zr-95	0.71E+00	1.64E+00	5.91E+00
WR	11	62233	10/03/01	Ba-140	0.55E+00	1.41E+00	5.21E+00
WR	11	62233	10/03/01	Co-58	-0.31E+00	0.88E+00	3.38E+00
WR	11	62233	10/03/01	Co-60	-0.37E+00	1.14E+00	4.37E+00
WR	11	62233	10/03/01	Cs-134	-1.16E+00	0.86E+00	3.61E+00
WR	11	62233	10/03/01	Cs-137	-0.61E+00	0.96E+00	3.68E+00
WR	11	62233	10/03/01	Fe-59	2.54E+00	3.01E+00	1.05E+01
WR	11	62233	10/03/01	GR-B	2.15E+00	0.36E+00	1.02E+00 *
WR	11	62233	10/03/01	I-131	-0.66E+00	1.62E+00	5.87E+00
WR	11	62233	10/03/01	Mn-54	-1.29E+00	0.87E+00	3.57E+00
WR	11	62233	10/03/01	Zn-65	-4.48E+00	2.04E+00	8.79E+00
WR	11	62233	10/03/01	Zr-95	0.38E+00	1.49E+00	5.48E+00
WR	11	62732	10/31/01	Ba-140	-1.60E+00	1.73E+00	7.43E+00
WR	11	62732	10/31/01	Co-58	-0.63E+00	1.18E+00	4.59E+00
WR	11	62732	10/31/01	Co-60	-0.62E+00	1.28E+00	5.16E+00
WR	11	62732	10/31/01	Cs-134	1.74E+00	1.35E+00	4.53E+00
WR	11	62732	10/31/01	Cs-137	-3.17E+00	1.43E+00	5.84E+00
WR	11	62732	10/31/01	Fe-59	-2.42E+00	3.47E+00	1.40E+01
WR	11	62732	10/31/01	GR-B	2.38E+00	0.41E+00	1.09E+00 *
WR	11	62732	10/31/01	I-131	2.52E+00	2.09E+00	7.01E+00
WR	11	62732	10/31/01	Mn-54	-0.82E+00	1.09E+00	4.34E+00
WR	11	62732	10/31/01	Zn-65	-6.71E+00	2.95E+00	1.27E+01
WR	11	62732	10/31/01	Zr-95	1.98E+00	1.84E+00	6.35E+00
WR	11	63053	11/28/01	Ba-140	3.47E+00	2.07E+00	6.67E+00
WR	11	63053	11/28/01	Co-58	-1.00E+00	1.11E+00	4.49E+00
WR	11	63053	11/28/01	Co-60	0.55E+00	1.10E+00	4.12E+00
WR	11	63053	11/28/01	Cs-134	-1.28E+00	1.44E+00	5.63E+00
WR	11	63053	11/28/01	Cs-137	-1.68E+00	1.43E+00	5.56E+00
WR	11	63053	11/28/01	Fe-59	-3.45E+00	3.45E+00	1.43E+01
WR	11	63053	11/28/01	GR-B	1.83E+00	0.30E+00	0.85E+00 *
WR	11	63053	11/28/01	I-131	0.90E+00	2.36E+00	8.22E+00
WR	11	63053	11/28/01	Mn-54	0.27E+00	1.39E+00	5.02E+00
WR	11	63053	11/28/01	Zn-65	-3.59E+00	2.84E+00	1.16E+01
WR	11	63053	11/28/01	Zr-95	1.03E+00	1.78E+00	6.46E+00

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

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Radiological Environmental Monitoring System
Summary of 2001 Data

MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD DEV. (pCi/kg)	MDC (pCi/kg)
WR	11	63603	01/02/02	Ba-140	-0.83E+00	3.28E+00	1.26E+01
WR	11	63603	01/02/02	Co-58	-1.30E+00	1.37E+00	5.41E+00
WR	11	63603	01/02/02	Co-60	-1.68E+00	1.64E+00	6.60E+00
WR	11	63603	01/02/02	Cs-134	-2.87E+00	1.32E+00	5.68E+00
WR	11	63603	01/02/02	Cs-137	0.95E+00	1.33E+00	4.67E+00
WR	11	63603	01/02/02	Fe-59	1.54E+00	3.78E+00	1.40E+01
WR	11	63603	01/02/02	GR-B	3.40E+00	0.58E+00	1.62E+00 *
WR	11	63674	01/02/02	H-3	4.77E+02	3.89E+02	1.29E+03
WR	11	63603	01/02/02	I-131	-2.55E+00	3.91E+00	1.43E+01
WR	11	63603	01/02/02	Mn-54	1.60E+00	1.36E+00	4.60E+00
WR	11	63603	01/02/02	Zn-65	-1.49E+00	3.65E+00	1.40E+01
WR	11	63603	01/02/02	Zr-95	2.61E+00	2.56E+00	8.78E+00

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

Yankee Nuclear Power Station
Radiological Environmental Monitoring System
Summary of 2001 Data

MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD DEV. (pCi/kg)	MDC (pCi/kg)
WR	21	57927	01/03/01	Ba-140	-2.44E+00	2.28E+00	1.02E+01
WR	21	57927	01/03/01	Co-58	-2.21E+00	1.72E+00	6.92E+00
WR	21	57927	01/03/01	Co-60	-0.51E+00	1.85E+00	7.26E+00
WR	21	57927	01/03/01	Cs-134	-0.50E+00	1.83E+00	6.92E+00
WR	21	57927	01/03/01	Cs-137	-2.74E+00	2.01E+00	7.80E+00
WR	21	57927	01/03/01	Fe-59	1.02E+01	3.92E+00	1.15E+01
WR	21	57927	01/03/01	GR-B	0.51E+00	0.60E+00	1.97E+00
WR	21	57927	01/03/01	I-131	-3.54E+00	4.06E+00	1.47E+01
WR	21	57927	01/03/01	Mn-54	1.28E+00	2.01E+00	7.02E+00
WR	21	57927	01/03/01	Zn-65	-1.93E+00	4.13E+00	1.58E+01
WR	21	57927	01/03/01	Zr-95	-3.33E+00	2.98E+00	1.19E+01
WR	21	58319	01/30/01	Ba-140	-1.81E+00	1.35E+00	5.68E+00
WR	21	58319	01/30/01	Co-58	-0.94E+00	0.94E+00	3.67E+00
WR	21	58319	01/30/01	Co-60	0.32E+00	0.91E+00	3.39E+00
WR	21	58319	01/30/01	Cs-134	1.54E+00	0.96E+00	3.13E+00
WR	21	58319	01/30/01	Cs-137	-0.48E+00	1.07E+00	3.96E+00
WR	21	58319	01/30/01	Fe-59	-8.54E-02	2.58E+00	9.71E+00
WR	21	58319	01/30/01	GR-B	0.84E+00	0.90E+00	3.01E+00
WR	21	58319	01/30/01	I-131	1.23E+00	1.61E+00	5.52E+00
WR	21	58319	01/30/01	Mn-54	-0.13E+00	0.82E+00	3.08E+00
WR	21	58319	01/30/01	Zn-65	-4.69E+00	5.08E+00	1.80E+01
WR	21	58319	01/30/01	Zr-95	-3.92E-02	1.87E+00	6.78E+00
WR	21	58724	02/26/01	Ba-140	-0.77E+00	1.73E+00	7.00E+00
WR	21	58724	02/26/01	Co-58	-1.70E+00	1.11E+00	4.52E+00
WR	21	58724	02/26/01	Co-60	-1.85E+00	0.98E+00	4.42E+00
WR	21	58724	02/26/01	Cs-134	0.92E+00	1.03E+00	3.60E+00
WR	21	58724	02/26/01	Cs-137	-0.94E+00	1.16E+00	4.44E+00
WR	21	58724	02/26/01	Fe-59	-5.27E+00	3.06E+00	1.31E+01
WR	21	58724	02/26/01	GR-B	1.03E+00	0.46E+00	1.51E+00
WR	21	59632	02/26/01	H-3	1.61E+02	3.63E+02	1.23E+03
WR	21	58724	02/26/01	I-131	-2.34E+00	2.46E+00	9.18E+00
WR	21	58724	02/26/01	Mn-54	-1.26E+00	0.92E+00	3.81E+00
WR	21	58724	02/26/01	Zn-65	3.89E+00	3.20E+00	9.91E+00
WR	21	58724	02/26/01	Zr-95	-5.66E+00	1.96E+00	8.52E+00
WR	21	59337	04/03/01	Ba-140	-2.27E+00	1.98E+00	8.56E+00
WR	21	59337	04/03/01	Co-58	-0.81E+00	0.94E+00	3.76E+00
WR	21	59337	04/03/01	Co-60	-1.93E+00	1.00E+00	4.38E+00
WR	21	59337	04/03/01	Cs-134	-0.81E+00	0.95E+00	3.78E+00
WR	21	59337	04/03/01	Cs-137	-1.13E+00	1.16E+00	4.43E+00
WR	21	59337	04/03/01	Fe-59	5.57E+00	3.01E+00	9.52E+00
WR	21	59337	04/03/01	GR-B	1.81E+00	0.46E+00	1.45E+00 *
WR	21	59337	04/03/01	I-131	1.09E+00	3.39E+00	1.19E+01
WR	21	59337	04/03/01	Mn-54	0.29E+00	1.05E+00	3.79E+00
WR	21	59337	04/03/01	Zn-65	-1.77E+00	2.09E+00	8.32E+00
WR	21	59337	04/03/01	Zr-95	1.02E+00	1.73E+00	6.18E+00

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

Yankee Nuclear Power Station
Radiological Environmental Monitoring System
Summary of 2001 Data

MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD DEV. (pCi/kg)	MDC (pCi/kg)
WR	21	59755	05/02/01	Ba-140	0.28E+00	1.48E+00	5.54E+00
WR	21	59755	05/02/01	Co-58	-3.44E-02	0.82E+00	3.10E+00
WR	21	59755	05/02/01	Co-60	-0.16E+00	1.07E+00	4.05E+00
WR	21	59755	05/02/01	Cs-134	1.52E+00	0.94E+00	3.06E+00
WR	21	59755	05/02/01	Cs-137	-2.32E+00	1.09E+00	4.38E+00
WR	21	59755	05/02/01	Fe-59	5.42E+00	2.64E+00	8.21E+00
WR	21	59755	05/02/01	GR-B	2.27E+00	1.02E+00	3.30E+00
WR	21	59755	05/02/01	I-131	-4.24E+00	1.74E+00	6.82E+00
WR	21	59755	05/02/01	Mn-54	-0.20E+00	0.88E+00	3.31E+00
WR	21	59755	05/02/01	Zn-65	-2.88E+00	2.27E+00	9.56E+00
WR	21	59755	05/02/01	Zr-95	-1.43E+00	1.76E+00	6.74E+00
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WR	21	60348	05/29/01	Ba-140	2.64E+00	4.41E+00	1.60E+01
WR	21	60348	05/29/01	Co-58	1.32E+00	1.46E+00	5.11E+00
WR	21	60348	05/29/01	Co-60	-0.69E+00	1.43E+00	5.98E+00
WR	21	60348	05/29/01	Cs-134	2.36E+00	1.42E+00	4.59E+00
WR	21	60348	05/29/01	Cs-137	-0.65E+00	1.50E+00	5.76E+00
WR	21	60348	05/29/01	Fe-59	-3.54E+00	5.02E+00	2.05E+01
WR	21	60348	05/29/01	GR-B	1.07E+00	0.58E+00	1.88E+00
WR	21	61093	05/29/01	H-3	-2.06E+02	4.23E+02	1.48E+03
WR	21	60348	05/29/01	I-131	3.49E+00	5.07E+00	1.76E+01
WR	21	60348	05/29/01	Mn-54	-0.26E+00	1.62E+00	6.10E+00
WR	21	60348	05/29/01	Zn-65	-3.92E+00	3.33E+00	1.39E+01
WR	21	60348	05/29/01	Zr-95	-2.16E+00	2.03E+00	8.82E+00
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WR	21	60847	07/03/01	Ba-140	-0.20E+00	2.23E+00	9.18E+00
WR	21	60847	07/03/01	Co-58	1.16E+00	1.31E+00	4.57E+00
WR	21	60847	07/03/01	Co-60	-1.79E+00	1.30E+00	5.59E+00
WR	21	60847	07/03/01	Cs-134	9.19E-02	1.31E+00	4.87E+00
WR	21	60847	07/03/01	Cs-137	-9.32E-02	1.14E+00	4.28E+00
WR	21	60847	07/03/01	Fe-59	-5.47E+00	4.37E+00	1.80E+01
WR	21	60847	07/03/01	GR-B	1.37E+00	0.49E+00	1.58E+00
WR	21	60847	07/03/01	I-131	-5.93E+00	4.11E+00	1.58E+01
WR	21	60847	07/03/01	Mn-54	0.22E+00	1.06E+00	3.95E+00
WR	21	60847	07/03/01	Zn-65	-6.37E+00	2.98E+00	1.27E+01
WR	21	60847	07/03/01	Zr-95	-2.44E+00	2.35E+00	9.37E+00
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WR	21	61270	08/01/01	Ba-140	0.00E+00	1.81E+00	7.51E+00
WR	21	61270	08/01/01	Co-58	0.40E+00	1.23E+00	4.62E+00
WR	21	61270	08/01/01	Co-60	3.78E+00	1.93E+00	6.03E+00
WR	21	61270	08/01/01	Cs-134	1.29E+00	1.42E+00	4.98E+00
WR	21	61270	08/01/01	Cs-137	-1.28E+00	1.62E+00	6.29E+00
WR	21	61270	08/01/01	Fe-59	5.85E+00	4.24E+00	1.42E+01
WR	21	61270	08/01/01	GR-B	1.78E+00	0.46E+00	1.46E+00 *
WR	21	61270	08/01/01	I-131	-1.46E+00	2.49E+00	9.27E+00
WR	21	61270	08/01/01	Mn-54	0.26E+00	1.29E+00	4.85E+00
WR	21	61270	08/01/01	Zn-65	-5.17E+00	3.42E+00	1.45E+01
WR	21	61270	08/01/01	Zr-95	2.68E+00	2.52E+00	8.69E+00

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

Yankee Nuclear Power Station
Radiological Environmental Monitoring System
Summary of 2001 Data

MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD DEV. (pCi/kg)	MDC (pCi/kg)
WR	21	61712	08/30/01	Ba-140	2.12E+00	2.06E+00	7.10E+00
WR	21	61712	08/30/01	Co-58	0.15E+00	1.32E+00	4.71E+00
WR	21	61712	08/30/01	Co-60	-0.19E+00	1.09E+00	4.13E+00
WR	21	61712	08/30/01	Cs-134	2.03E+00	1.28E+00	4.20E+00
WR	21	61712	08/30/01	Cs-137	1.03E+00	1.07E+00	3.65E+00
WR	21	61712	08/30/01	Fe-59	1.21E+00	2.59E+00	9.50E+00
WR	21	61712	08/30/01	GR-B	1.31E+00	0.53E+00	1.71E+00
WR	21	62535	08/30/01	H-3	4.79E+01	2.72E+02	8.75E+02
WR	21	61712	08/30/01	I-131	0.50E+00	2.77E+00	9.70E+00
WR	21	61712	08/30/01	Mn-54	0.42E+00	1.07E+00	3.82E+00
WR	21	61712	08/30/01	Zn-65	0.10E+00	5.63E+00	1.94E+01
WR	21	61712	08/30/01	Zr-95	-2.76E+00	1.78E+00	7.19E+00
WR	21	62234	10/03/01	Ba-140	1.34E+00	1.39E+00	4.85E+00
WR	21	62234	10/03/01	Co-58	-0.57E+00	1.05E+00	3.96E+00
WR	21	62234	10/03/01	Co-60	-1.15E+00	0.97E+00	4.03E+00
WR	21	62234	10/03/01	Cs-134	0.31E+00	1.10E+00	3.96E+00
WR	21	62234	10/03/01	Cs-137	-2.26E+00	1.35E+00	5.17E+00
WR	21	62234	10/03/01	Fe-59	2.19E+00	2.71E+00	9.54E+00
WR	21	62234	10/03/01	GR-B	2.35E+00	0.36E+00	0.97E+00 *
WR	21	62234	10/03/01	I-131	-0.32E+00	1.74E+00	6.20E+00
WR	21	62234	10/03/01	Mn-54	0.00E+00	1.02E+00	3.72E+00
WR	21	62234	10/03/01	Zn-65	9.42E+00	6.25E+00	2.06E+01
WR	21	62234	10/03/01	Zr-95	-2.71E+00	1.59E+00	6.53E+00
WR	21	62733	10/31/01	Ba-140	0.00E+00	2.01E+00	8.17E+00
WR	21	62733	10/31/01	Co-58	0.17E+00	1.25E+00	4.79E+00
WR	21	62733	10/31/01	Co-60	2.38E+00	1.60E+00	5.25E+00
WR	21	62733	10/31/01	Cs-134	-0.29E+00	1.00E+00	4.21E+00
WR	21	62733	10/31/01	Cs-137	-4.20E+00	1.63E+00	6.99E+00
WR	21	62733	10/31/01	Fe-59	-3.40E+00	4.92E+00	1.98E+01
WR	21	62733	10/31/01	GR-B	1.97E+00	0.37E+00	1.03E+00 *
WR	21	62733	10/31/01	I-131	-3.56E+00	2.41E+00	9.43E+00
WR	21	62733	10/31/01	Mn-54	0.00E+00	1.32E+00	5.03E+00
WR	21	62733	10/31/01	Zn-65	0.65E+00	4.39E+00	1.59E+01
WR	21	62733	10/31/01	Zr-95	1.49E+00	2.03E+00	7.34E+00
WR	21	63054	11/28/01	Ba-140	0.00E+00	2.43E+00	9.56E+00
WR	21	63054	11/28/01	Co-58	-2.24E+00	1.36E+00	5.88E+00
WR	21	63054	11/28/01	Co-60	-0.65E+00	1.32E+00	5.66E+00
WR	21	63054	11/28/01	Cs-134	0.54E+00	1.48E+00	5.47E+00
WR	21	63054	11/28/01	Cs-137	1.36E+00	1.31E+00	4.54E+00
WR	21	63054	11/28/01	Fe-59	6.78E+00	4.35E+00	1.42E+01
WR	21	63054	11/28/01	GR-B	1.45E+00	0.32E+00	0.95E+00 *
WR	21	63675	11/28/01	H-3	5.61E+02	3.91E+02	1.29E+03
WR	21	63054	11/28/01	I-131	-1.17E+00	2.27E+00	8.49E+00
WR	21	63054	11/28/01	Mn-54	-0.52E+00	1.37E+00	5.35E+00
WR	21	63054	11/28/01	Zn-65	-4.53E+00	2.82E+00	1.26E+01
WR	21	63054	11/28/01	Zr-95	3.71E+00	2.19E+00	7.01E+00

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

Yankee Nuclear Power Station
Radiological Environmental Monitoring System
Summary of 2001 Data

MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD DEV. (pCi/kg)	MDC (pCi/kg)
WR	31	57928	01/03/01	Ba-140	0.00E+00	2.72E+00	1.07E+01
WR	31	57928	01/03/01	Co-58	-0.48E+00	1.44E+00	5.61E+00
WR	31	57928	01/03/01	Co-60	-1.59E+00	1.66E+00	7.01E+00
WR	31	57928	01/03/01	Cs-134	-2.77E+00	1.34E+00	6.08E+00
WR	31	57928	01/03/01	Cs-137	-2.63E+00	1.66E+00	6.72E+00
WR	31	57928	01/03/01	Fe-59	-1.30E+00	3.43E+00	1.34E+01
WR	31	57928	01/03/01	GR-B	1.06E+00	0.61E+00	1.98E+00
WR	31	57928	01/03/01	I-131	0.70E+00	2.80E+00	1.00E+01
WR	31	57928	01/03/01	Mn-54	-1.04E+00	1.47E+00	5.82E+00
WR	31	57928	01/03/01	Zn-65	1.30E+00	2.76E+00	1.03E+01
WR	31	57928	01/03/01	Zr-95	-2.05E+00	2.56E+00	1.03E+01
WR	31	58320	01/30/01	Ba-140	-0.42E+00	1.68E+00	6.84E+00
WR	31	58320	01/30/01	Co-58	-1.93E+00	1.18E+00	4.92E+00
WR	31	58320	01/30/01	Co-60	0.41E+00	1.51E+00	5.58E+00
WR	31	58320	01/30/01	Cs-134	0.15E+00	1.11E+00	4.20E+00
WR	31	58320	01/30/01	Cs-137	-0.25E+00	1.31E+00	4.86E+00
WR	31	58320	01/30/01	Fe-59	-3.36E+00	3.84E+00	1.55E+01
WR	31	58320	01/30/01	GR-B	0.73E+00	0.88E+00	2.97E+00
WR	31	58320	01/30/01	I-131	0.23E+00	2.23E+00	7.92E+00
WR	31	58320	01/30/01	Mn-54	-0.75E+00	1.37E+00	5.19E+00
WR	31	58320	01/30/01	Zn-65	3.24E+00	7.50E+00	2.56E+01
WR	31	58320	01/30/01	Zr-95	-2.92E+00	2.10E+00	8.59E+00
WR	31	58725	02/26/01	Ba-140	-0.40E+00	1.74E+00	6.97E+00
WR	31	58725	02/26/01	Co-58	-0.89E+00	1.30E+00	4.94E+00
WR	31	58725	02/26/01	Co-60	0.50E+00	1.08E+00	3.98E+00
WR	31	58725	02/26/01	Cs-134	0.19E+00	1.36E+00	4.95E+00
WR	31	58725	02/26/01	Cs-137	-0.49E+00	1.25E+00	4.65E+00
WR	31	58725	02/26/01	Fe-59	3.52E+00	2.75E+00	9.31E+00
WR	31	58725	02/26/01	GR-B	2.07E+00	0.48E+00	1.49E+00 *
WR	31	59633	02/26/01	H-3	5.72E+02	3.74E+02	1.23E+03
WR	31	58725	02/26/01	I-131	0.82E+00	2.89E+00	1.01E+01
WR	31	58725	02/26/01	Mn-54	0.67E+00	1.16E+00	4.11E+00
WR	31	58725	02/26/01	Zn-65	-2.31E+00	6.03E+00	2.12E+01
WR	31	58725	02/26/01	Zr-95	-1.23E+00	1.84E+00	7.21E+00
WR	31	59338	04/03/01	Ba-140	2.24E+00	2.05E+00	7.10E+00
WR	31	59338	04/03/01	Co-58	0.64E+00	1.25E+00	4.42E+00
WR	31	59338	04/03/01	Co-60	-0.52E+00	1.17E+00	4.49E+00
WR	31	59338	04/03/01	Cs-134	-2.08E+00	1.14E+00	4.64E+00
WR	31	59338	04/03/01	Cs-137	1.77E+00	1.11E+00	3.64E+00
WR	31	59338	04/03/01	Fe-59	-1.48E+00	2.42E+00	9.99E+00
WR	31	59338	04/03/01	GR-B	1.26E+00	0.46E+00	1.47E+00
WR	31	59338	04/03/01	I-131	-1.80E+00	3.66E+00	1.33E+01
WR	31	59338	04/03/01	Mn-54	0.00E+00	1.08E+00	3.93E+00
WR	31	59338	04/03/01	Zn-65	-1.48E+00	2.65E+00	9.99E+00
WR	31	59338	04/03/01	Zr-95	1.04E+00	1.75E+00	6.23E+00

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

Yankee Nuclear Power Station
Radiological Environmental Monitoring System
Summary of 2001 Data

MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD DEV. (pCi/kg)	MDC (pCi/kg)
<hr/>							
WR	31	59756	05/02/01	Ba-140	2.52E+00	1.79E+00	5.95E+00
WR	31	59756	05/02/01	Co-58	1.72E+00	1.08E+00	3.51E+00
WR	31	59756	05/02/01	Co-60	0.17E+00	1.42E+00	5.37E+00
WR	31	59756	05/02/01	Cs-134	-0.77E+00	1.23E+00	4.84E+00
WR	31	59756	05/02/01	Cs-137	-1.99E+00	1.45E+00	5.66E+00
WR	31	59756	05/02/01	Fe-59	-2.72E+00	3.98E+00	1.58E+01
WR	31	59756	05/02/01	GR-B	1.68E+00	0.48E+00	1.52E+00 *
WR	31	59756	05/02/01	I-131	2.28E+00	2.54E+00	8.66E+00
WR	31	59756	05/02/01	Mn-54	1.96E+00	1.19E+00	3.89E+00
WR	31	59756	05/02/01	Zn-65	-5.29E+00	2.84E+00	1.20E+01
WR	31	59756	05/02/01	Zr-95	0.70E+00	2.24E+00	8.13E+00
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WR	31	60349	05/29/01	Ba-140	-0.44E+00	2.18E+00	8.51E+00
WR	31	60349	05/29/01	Co-58	-0.31E+00	1.08E+00	4.05E+00
WR	31	60349	05/29/01	Co-60	1.19E+00	1.01E+00	3.44E+00
WR	31	60349	05/29/01	Cs-134	1.25E+00	1.13E+00	3.84E+00
WR	31	60349	05/29/01	Cs-137	-1.73E+00	1.17E+00	4.55E+00
WR	31	60349	05/29/01	Fe-59	4.30E+00	2.69E+00	8.76E+00
WR	31	60349	05/29/01	GR-B	0.98E+00	0.57E+00	1.87E+00
WR	31	61094	05/29/01	H-3	-3.69E+02	4.31E+02	1.52E+03
WR	31	60349	05/29/01	I-131	-1.41E+00	3.48E+00	1.26E+01
WR	31	60349	05/29/01	Mn-54	-0.28E+00	1.00E+00	3.73E+00
WR	31	60349	05/29/01	Zn-65	-5.47E+00	2.66E+00	1.08E+01
WR	31	60349	05/29/01	Zr-95	-1.05E+00	1.65E+00	6.45E+00
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WR	31	60848	07/03/01	Ba-140	0.00E+00	3.56E+00	1.41E+01
WR	31	60848	07/03/01	Co-58	-2.53E+00	1.68E+00	7.00E+00
WR	31	60848	07/03/01	Co-60	-4.68E-02	1.73E+00	6.72E+00
WR	31	60848	07/03/01	Cs-134	0.65E+00	1.63E+00	5.97E+00
WR	31	60848	07/03/01	Cs-137	-2.02E+00	1.83E+00	7.13E+00
WR	31	60848	07/03/01	Fe-59	-2.52E+00	5.19E+00	2.08E+01
WR	31	60848	07/03/01	GR-B	0.66E+00	0.49E+00	1.59E+00
WR	31	60848	07/03/01	I-131	0.59E+00	5.10E+00	1.83E+01
WR	31	60848	07/03/01	Mn-54	0.53E+00	1.39E+00	5.12E+00
WR	31	60848	07/03/01	Zn-65	0.00E+00	3.37E+00	1.29E+01
WR	31	60848	07/03/01	Zr-95	0.12E+00	2.72E+00	1.03E+01
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WR	31	61271	08/01/01	Ba-140	-2.83E+00	2.59E+00	1.10E+01
WR	31	61271	08/01/01	Co-58	-0.33E+00	1.23E+00	4.87E+00
WR	31	61271	08/01/01	Co-60	0.64E+00	1.87E+00	6.93E+00
WR	31	61271	08/01/01	Cs-134	-3.55E-02	1.41E+00	5.41E+00
WR	31	61271	08/01/01	Cs-137	-3.57E+00	1.56E+00	6.64E+00
WR	31	61271	08/01/01	Fe-59	3.58E+00	4.66E+00	1.66E+01
WR	31	61271	08/01/01	GR-B	0.90E+00	0.45E+00	1.48E+00
WR	31	61271	08/01/01	I-131	-5.48E-07	2.26E+00	8.21E+00
WR	31	61271	08/01/01	Mn-54	-0.25E+00	1.37E+00	5.28E+00
WR	31	61271	08/01/01	Zn-65	-3.83E+00	3.26E+00	1.36E+01
WR	31	61271	08/01/01	Zr-95	-2.42E+00	2.43E+00	9.93E+00

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

Yankee Nuclear Power Station
Radiological Environmental Monitoring System
Summary of 2001 Data

MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD DEV. (pCi/kg)	MDC (pCi/kg)
WR	31	61713	08/30/01	Ba-140	-1.70E+00	1.77E+00	7.24E+00
WR	31	61713	08/30/01	Co-58	0.55E+00	0.76E+00	2.72E+00
WR	31	61713	08/30/01	Co-60	-0.81E+00	0.89E+00	3.68E+00
WR	31	61713	08/30/01	Cs-134	-0.39E+00	0.96E+00	3.67E+00
WR	31	61713	08/30/01	Cs-137	1.24E+00	1.03E+00	3.48E+00
WR	31	61713	08/30/01	Fe-59	3.46E+00	2.37E+00	7.84E+00
WR	31	61713	08/30/01	GR-B	1.34E+00	0.54E+00	1.72E+00
WR	31	62536	08/30/01	H-3	2.00E+02	2.76E+02	8.78E+02
WR	31	61713	08/30/01	I-131	0.95E+00	2.37E+00	8.28E+00
WR	31	61713	08/30/01	Mn-54	-1.30E+00	0.91E+00	3.64E+00
WR	31	61713	08/30/01	Zn-65	0.32E+00	2.55E+00	9.13E+00
WR	31	61713	08/30/01	Zr-95	2.44E+00	1.62E+00	5.35E+00
WR	31	62235	10/03/01	Ba-140	0.26E+00	1.06E+00	4.06E+00
WR	31	62235	10/03/01	Co-58	-0.58E+00	0.59E+00	2.51E+00
WR	31	62235	10/03/01	Co-60	0.27E+00	0.99E+00	3.67E+00
WR	31	62235	10/03/01	Cs-134	-0.93E+00	0.81E+00	3.33E+00
WR	31	62235	10/03/01	Cs-137	-1.67E+00	0.88E+00	3.62E+00
WR	31	62235	10/03/01	Fe-59	-0.17E+00	2.28E+00	8.76E+00
WR	31	62235	10/03/01	GR-B	2.21E+00	0.37E+00	0.99E+00 *
WR	31	62235	10/03/01	I-131	-1.81E+00	1.54E+00	5.76E+00
WR	31	62235	10/03/01	Mn-54	0.20E+00	0.77E+00	2.84E+00
WR	31	62235	10/03/01	Zn-65	-5.11E+00	1.81E+00	8.14E+00
WR	31	62235	10/03/01	Zr-95	-1.21E+00	1.54E+00	5.98E+00
WR	31	62734	10/31/01	Ba-140	-1.70E+00	2.48E+00	1.03E+01
WR	31	62734	10/31/01	Co-58	0.82E+00	1.47E+00	5.30E+00
WR	31	62734	10/31/01	Co-60	0.51E+00	1.35E+00	5.19E+00
WR	31	62734	10/31/01	Cs-134	1.53E+00	1.38E+00	4.74E+00
WR	31	62734	10/31/01	Cs-137	2.76E+00	1.47E+00	4.69E+00
WR	31	62734	10/31/01	Fe-59	0.58E+00	4.80E+00	1.81E+01
WR	31	62734	10/31/01	GR-B	1.92E+00	0.39E+00	1.10E+00 *
WR	31	62734	10/31/01	I-131	0.58E+00	2.42E+00	8.63E+00
WR	31	62734	10/31/01	Mn-54	1.02E+00	1.30E+00	4.62E+00
WR	31	62734	10/31/01	Zn-65	-7.03E+00	2.93E+00	1.36E+01
WR	31	62734	10/31/01	Zr-95	1.98E+00	2.69E+00	9.51E+00
WR	31	63055	11/28/01	Ba-140	2.82E+00	2.19E+00	7.40E+00
WR	31	63055	11/28/01	Co-58	1.71E+00	1.35E+00	4.56E+00
WR	31	63055	11/28/01	Co-60	-2.67E+00	1.50E+00	6.93E+00
WR	31	63055	11/28/01	Cs-134	0.71E+00	1.34E+00	4.92E+00
WR	31	63055	11/28/01	Cs-137	-0.85E+00	1.43E+00	5.60E+00
WR	31	63055	11/28/01	Fe-59	6.93E+00	3.81E+00	1.19E+01
WR	31	63055	11/28/01	GR-B	1.28E+00	0.29E+00	0.85E+00 *
WR	31	63676	11/28/01	H-3	1.14E+03	4.05E+02	1.30E+03
WR	31	63055	11/28/01	I-131	-2.29E+00	2.53E+00	9.50E+00
WR	31	63055	11/28/01	Mn-54	-2.80E+00	1.46E+00	6.25E+00
WR	31	63055	11/28/01	Zn-65	-2.55E+00	3.38E+00	1.36E+01
WR	31	63055	11/28/01	Zr-95	-1.35E+00	2.17E+00	8.82E+00

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

Yankee Nuclear Power Station
Radiological Environmental Monitoring System
Summary of 2001 Data

MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD DEV. (pCi/kg)	MDC (pCi/kg)
WR	91	62270	09/14/01	Ba-140	3.53E+00	3.24E+00	1.12E+01
WR	91	62270	09/14/01	Co-58	2.04E+00	1.15E+00	3.72E+00
WR	91	62270	09/14/01	Co-60	2.08E+00	1.00E+00	3.09E+00
WR	91	62270	09/14/01	Cs-134	-0.32E+00	1.05E+00	3.95E+00
WR	91	62270	09/14/01	Cs-137	0.43E+00	1.07E+00	3.81E+00
WR	91	62270	09/14/01	Fe-59	-1.11E+00	2.67E+00	1.09E+01
WR	91	62270	09/14/01	H-3	-5.71E+02	2.96E+02	9.94E+02
WR	91	62270	09/14/01	I-131	3.02E+00	7.25E+00	2.54E+01
WR	91	62270	09/14/01	Mn-54	0.58E+00	0.93E+00	3.31E+00
WR	91	62270	09/14/01	Zn-65	-7.14E+00	2.79E+00	1.15E+01
WR	91	62270	09/14/01	Zr-95	1.12E+00	1.55E+00	5.52E+00

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

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MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD DEV. (pCi/kg)	MDC (pCi/kg)
STORM DRAIN							
WW	51	57931	01/03/01	Ba-140	-1.26E+00	2.10E+00	8.06E+00
WW	51	57931	01/03/01	Co-58	0.73E+00	0.99E+00	3.46E+00
WW	51	57931	01/03/01	Co-60	-0.51E+00	0.83E+00	3.43E+00
WW	51	57931	01/03/01	Cs-134	-0.16E+00	1.09E+00	4.05E+00
WW	51	57931	01/03/01	Cs-137	-1.92E+00	1.31E+00	5.01E+00
WW	51	57931	01/03/01	Fe-59	0.75E+00	2.48E+00	8.91E+00
WW	51	57931	01/03/01	GR-B	2.19E+00	0.70E+00	2.23E+00 *
WW	51	57931	01/03/01	H-3	-4.78E+02	3.43E+02	1.23E+03
WW	51	57931	01/03/01	I-131	1.68E+00	2.28E+00	7.81E+00
WW	51	57931	01/03/01	Mn-54	0.97E+00	1.17E+00	4.04E+00
WW	51	57931	01/03/01	Zn-65	0.86E+00	6.12E+00	2.10E+01
WW	51	57931	01/03/01	Zr-95	0.70E+00	1.83E+00	6.56E+00
WW	51	58324	01/30/01	Ba-140	-1.13E+00	1.13E+00	4.92E+00
WW	51	58324	01/30/01	Co-58	-2.31E+00	1.12E+00	4.52E+00
WW	51	58324	01/30/01	Co-60	-0.58E+00	1.02E+00	4.04E+00
WW	51	58324	01/30/01	Cs-134	0.62E+00	1.12E+00	3.97E+00
WW	51	58324	01/30/01	Cs-137	-1.03E+00	0.92E+00	3.65E+00
WW	51	58324	01/30/01	Fe-59	-3.41E+00	3.02E+00	1.21E+01
WW	51	58324	01/30/01	GR-B	2.84E+00	3.54E+00	1.17E+01
WW	51	58324	01/30/01	H-3	2.38E+02	3.41E+02	1.15E+03
WW	51	58324	01/30/01	I-131	1.23E+00	1.85E+00	6.37E+00
WW	51	58324	01/30/01	Mn-54	-0.69E+00	0.93E+00	3.60E+00
WW	51	58324	01/30/01	Zn-65	-0.67E+00	3.82E+00	1.37E+01
WW	51	58324	01/30/01	Zr-95	-1.59E+00	1.60E+00	6.32E+00
WW	51	58729	02/26/01	Ba-140	-1.63E+00	2.83E+00	1.23E+01
WW	51	58729	02/26/01	Co-58	-1.03E+00	1.53E+00	6.29E+00
WW	51	58729	02/26/01	Co-60	0.22E+00	1.42E+00	5.77E+00
WW	51	58729	02/26/01	Cs-134	-0.74E+00	1.64E+00	6.59E+00
WW	51	58729	02/26/01	Cs-137	-0.89E+00	1.93E+00	7.38E+00
WW	51	58729	02/26/01	Fe-59	-0.15E+00	5.45E+00	2.12E+01
WW	51	58729	02/26/01	GR-B	9.58E+00	3.80E+00	1.22E+01
WW	51	58729	02/26/01	H-3	-2.10E+02	3.61E+02	1.25E+03
WW	51	58729	02/26/01	I-131	1.06E+01	3.77E+00	1.13E+01
WW	51	58729	02/26/01	Mn-54	-2.18E+00	1.90E+00	7.64E+00
WW	51	58729	02/26/01	Zn-65	2.35E+00	3.99E+00	1.36E+01
WW	51	58729	02/26/01	Zr-95	0.21E+00	2.44E+00	9.47E+00
WW	51	59341	04/03/01	Ba-140	7.17E+00	3.80E+00	1.18E+01
WW	51	59341	04/03/01	Co-58	-0.98E+00	1.61E+00	6.37E+00
WW	51	59341	04/03/01	Co-60	1.54E+00	1.71E+00	6.05E+00
WW	51	59341	04/03/01	Cs-134	-1.88E+00	1.82E+00	7.25E+00
WW	51	59341	04/03/01	Cs-137	-0.45E+00	1.85E+00	6.86E+00
WW	51	59341	04/03/01	Fe-59	9.84E+00	5.17E+00	1.61E+01
WW	51	59341	04/03/01	GR-B	7.59E+00	0.72E+00	2.07E+00 *
WW	51	59341	04/03/01	H-3	-2.12E+02	3.59E+02	1.24E+03
WW	51	59341	04/03/01	I-131	3.57E+00	4.76E+00	1.65E+01
WW	51	59341	04/03/01	Mn-54	-1.58E+00	1.97E+00	7.51E+00
WW	51	59341	04/03/01	Zn-65	-0.66E+00	3.38E+00	1.33E+01
WW	51	59341	04/03/01	Zr-95	-1.25E+00	2.75E+00	1.08E+01

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

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MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD DEV. (pCi/kg)	MDC (pCi/kg)
WW	51	59760	05/02/01	Ba-140	0.30E+00	1.57E+00	5.90E+00
WW	51	59760	05/02/01	Co-58	0.58E+00	1.09E+00	3.85E+00
WW	51	59760	05/02/01	Co-60	-0.17E+00	1.11E+00	4.22E+00
WW	51	59760	05/02/01	Cs-134	-0.31E+00	1.17E+00	4.32E+00
WW	51	59760	05/02/01	Cs-137	-3.72E+00	1.11E+00	4.72E+00
WW	51	59760	05/02/01	Fe-59	-9.67E-02	2.67E+00	1.01E+01
WW	51	59760	05/02/01	GR-B	8.80E+00	0.95E+00	2.69E+00 *
WW	51	59760	05/02/01	H-3	-6.65E+01	3.43E+02	1.18E+03
WW	51	59760	05/02/01	I-131	1.37E+00	2.08E+00	7.17E+00
WW	51	59760	05/02/01	Mn-54	-1.39E+00	1.06E+00	4.15E+00
WW	51	59760	05/02/01	Zn-65	4.03E+00	5.51E+00	1.86E+01
WW	51	59760	05/02/01	Zr-95	0.50E+00	1.62E+00	5.89E+00
WW	51	60352	05/29/01	Ba-140	1.33E+00	2.21E+00	8.02E+00
WW	51	60352	05/29/01	Co-58	0.00E+00	1.09E+00	3.98E+00
WW	51	60352	05/29/01	Co-60	0.54E+00	0.85E+00	3.10E+00
WW	51	60352	05/29/01	Cs-134	0.99E+00	0.96E+00	3.29E+00
WW	51	60352	05/29/01	Cs-137	-2.00E+00	1.06E+00	4.21E+00
WW	51	60352	05/29/01	Fe-59	2.29E+00	3.11E+00	1.10E+01
WW	51	60352	05/29/01	GR-B	1.45E+01	1.31E+00	3.63E+00 *
WW	51	60352	05/29/01	H-3	-7.04E+01	3.56E+02	1.24E+03
WW	51	60352	05/29/01	I-131	3.96E+00	3.62E+00	1.22E+01
WW	51	60352	05/29/01	Mn-54	0.84E+00	0.94E+00	3.26E+00
WW	51	60352	05/29/01	Zn-65	3.28E+00	3.28E+00	1.06E+01
WW	51	60352	05/29/01	Zr-95	1.31E+00	1.55E+00	5.44E+00
WW	51	60851	07/03/01	Ba-140	-1.96E+00	4.39E+00	1.78E+01
WW	51	60851	07/03/01	Co-58	0.18E+00	1.36E+00	5.21E+00
WW	51	60851	07/03/01	Co-60	-3.38E+00	2.08E+00	8.76E+00
WW	51	60851	07/03/01	Cs-134	-2.58E+00	1.58E+00	6.70E+00
WW	51	60851	07/03/01	Cs-137	0.12E+00	1.51E+00	5.60E+00
WW	51	60851	07/03/01	Fe-59	-2.30E+00	4.77E+00	1.94E+01
WW	51	60851	07/03/01	GR-B	8.80E+00	0.87E+00	2.44E+00 *
WW	51	60851	07/03/01	H-3	3.23E+01	3.74E+02	1.27E+03
WW	51	60851	07/03/01	I-131	-9.66E+00	6.47E+00	2.48E+01
WW	51	60851	07/03/01	Mn-54	-1.30E+00	1.25E+00	5.24E+00
WW	51	60851	07/03/01	Zn-65	-5.92E+00	3.83E+00	1.74E+01
WW	51	60851	07/03/01	Zr-95	0.44E+00	2.54E+00	9.58E+00
WW	51	61274	08/01/01	Ba-140	-0.87E+00	1.77E+00	6.85E+00
WW	51	61274	08/01/01	Co-58	-3.06E+00	1.27E+00	5.07E+00
WW	51	61274	08/01/01	Co-60	-1.11E+00	1.32E+00	5.09E+00
WW	51	61274	08/01/01	Cs-134	-1.67E+00	1.19E+00	4.65E+00
WW	51	61274	08/01/01	Cs-137	1.28E+00	2.25E+00	7.62E+00
WW	51	61274	08/01/01	Fe-59	-2.15E+00	3.13E+00	1.21E+01
WW	51	61274	08/01/01	GR-B	6.23E+00	0.67E+00	1.92E+00 *
WW	51	61274	08/01/01	H-3	-1.15E+03	4.62E+02	1.69E+03
WW	51	61274	08/01/01	I-131	-0.37E+00	2.70E+00	9.42E+00
WW	51	61274	08/01/01	Mn-54	-1.51E+00	1.15E+00	4.43E+00
WW	51	61274	08/01/01	Zn-65	1.46E+01	6.93E+00	2.25E+01
WW	51	61274	08/01/01	Zr-95	1.16E+00	1.98E+00	6.94E+00

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

Yankee Nuclear Power Station
Radiological Environmental Monitoring System
Summary of 2001 Data

MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD DEV. (pCi/kg)	MDC (pCi/kg)
WW	51	61716	08/30/01	Ba-140	3.01E+00	3.01E+00	1.06E+01
WW	51	61716	08/30/01	Co-58	0.21E+00	1.36E+00	5.18E+00
WW	51	61716	08/30/01	Co-60	1.12E+00	1.76E+00	6.38E+00
WW	51	61716	08/30/01	Cs-134	0.69E+00	1.67E+00	6.08E+00
WW	51	61716	08/30/01	Cs-137	-0.78E+00	1.65E+00	6.29E+00
WW	51	61716	08/30/01	Fe-59	-0.38E+00	5.15E+00	1.98E+01
WW	51	61716	08/30/01	GR-B	8.44E+00	0.99E+00	2.89E+00 *
WW	51	61716	08/30/01	H-3	-2.49E+01	2.91E+02	9.51E+02
WW	51	61716	08/30/01	I-131	4.49E+00	3.54E+00	1.19E+01
WW	51	61716	08/30/01	Mn-54	-2.34E+00	1.30E+00	5.70E+00
WW	51	61716	08/30/01	Zn-65	-9.83E+00	3.53E+00	1.61E+01
WW	51	61716	08/30/01	Zr-95	0.12E+00	2.63E+00	9.92E+00
WW	51	62269	09/04/01	Ba-140	6.30E+00	5.78E+00	2.00E+01
WW	51	62269	09/04/01	Co-58	-1.84E+00	1.17E+00	4.84E+00
WW	51	62269	09/04/01	Co-60	-1.38E+00	1.10E+00	4.54E+00
WW	51	62269	09/04/01	Cs-134	-0.51E+00	0.97E+00	3.77E+00
WW	51	62269	09/04/01	Cs-137	0.94E+00	1.07E+00	3.69E+00
WW	51	62269	09/04/01	Fe-59	-1.49E+00	4.49E+00	1.72E+01
WW	51	62269	09/04/01	GR-B	4.57E+00	0.53E+00	1.36E+00 *
WW	51	62269	09/04/01	H-3	-3.50E+02	2.94E+02	9.96E+02
WW	51	62269	09/04/01	I-131	2.94E+01	1.84E+01	6.04E+01
WW	51	62269	09/04/01	Mn-54	0.15E+00	1.02E+00	3.73E+00
WW	51	62269	09/04/01	Zn-65	-4.48E+00	2.64E+00	1.07E+01
WW	51	62269	09/04/01	Zr-95	0.17E+00	1.98E+00	7.41E+00
WW	51	62238	10/03/01	Ba-140	-0.54E+00	1.94E+00	8.07E+00
WW	51	62238	10/03/01	Co-58	-0.78E+00	1.26E+00	5.11E+00
WW	51	62238	10/03/01	Co-60	4.61E-02	1.51E+00	5.96E+00
WW	51	62238	10/03/01	Cs-134	0.82E+00	1.49E+00	5.40E+00
WW	51	62238	10/03/01	Cs-137	2.23E+00	1.48E+00	4.89E+00
WW	51	62238	10/03/01	Fe-59	-4.90E+00	4.17E+00	1.78E+01
WW	51	62238	10/03/01	GR-B	1.42E+01	1.03E+00	2.08E+00 *
WW	51	62238	10/03/01	H-3	-4.04E+02	2.90E+02	9.84E+02
WW	51	62238	10/03/01	I-131	-0.53E+00	1.87E+00	7.00E+00
WW	51	62238	10/03/01	Mn-54	1.02E+00	1.25E+00	4.43E+00
WW	51	62238	10/03/01	Zn-65	3.19E+00	2.78E+00	9.57E+00
WW	51	62238	10/03/01	Zr-95	3.24E+00	2.17E+00	7.16E+00
WW	51	62737	10/31/01	Ba-140	0.81E+00	1.77E+00	6.69E+00
WW	51	62737	10/31/01	Co-58	0.80E+00	1.10E+00	3.92E+00
WW	51	62737	10/31/01	Co-60	0.81E+00	1.38E+00	5.03E+00
WW	51	62737	10/31/01	Cs-134	-1.64E+00	1.21E+00	5.03E+00
WW	51	62737	10/31/01	Cs-137	-2.16E+00	1.40E+00	5.59E+00
WW	51	62737	10/31/01	Fe-59	0.62E+00	3.38E+00	1.28E+01
WW	51	62737	10/31/01	GR-B	9.89E+00	0.88E+00	1.91E+00 *
WW	51	62737	10/31/01	H-3	-7.94E+02	3.41E+02	1.15E+03
WW	51	62737	10/31/01	I-131	-2.00E+00	2.50E+00	9.23E+00
WW	51	62737	10/31/01	Mn-54	2.20E+00	1.23E+00	3.96E+00
WW	51	62737	10/31/01	Zn-65	-0.98E+00	2.50E+00	9.85E+00
WW	51	62737	10/31/01	Zr-95	-0.80E+00	2.06E+00	7.95E+00

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

Yankee Nuclear Power Station
Radiological Environmental Monitoring System
Summary of 2001 Data

MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD DEV. (pCi/kg)	MDC (pCi/kg)
WW	51	63058	11/28/01	Ba-140	-0.58E+00	2.64E+00	1.05E+01
WW	51	63058	11/28/01	Co-58	-1.61E+00	1.21E+00	5.25E+00
WW	51	63058	11/28/01	Co-60	1.59E+00	1.62E+00	5.69E+00
WW	51	63058	11/28/01	Cs-134	1.56E+00	1.40E+00	4.83E+00
WW	51	63058	11/28/01	Cs-137	-0.79E+00	1.35E+00	5.35E+00
WW	51	63058	11/28/01	Fe-59	-4.94E+00	4.06E+00	1.77E+01
WW	51	63058	11/28/01	GR-B	4.05E+00	0.61E+00	1.82E+00 *
WW	51	63058	11/28/01	H-3	-8.32E+01	3.55E+02	1.13E+03
WW	51	63058	11/28/01	I-131	2.65E+00	2.18E+00	7.35E+00
WW	51	63058	11/28/01	Mn-54	-1.56E+00	1.37E+00	5.68E+00
WW	51	63058	11/28/01	Zn-65	-3.90E+00	3.19E+00	1.35E+01
WW	51	63058	11/28/01	Zr-95	-1.84E+00	2.17E+00	8.99E+00

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

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MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD DEV. (pCi/kg)	MDC (pCi/kg)
WW	52	57932	01/03/01	Ba-140	0.00E+00	1.83E+00	6.83E+00
WW	52	57932	01/03/01	Co-58	-2.14E+00	0.96E+00	4.02E+00
WW	52	57932	01/03/01	Co-60	0.90E+00	1.19E+00	4.17E+00
WW	52	57932	01/03/01	Cs-134	-0.33E+00	0.87E+00	3.34E+00
WW	52	57932	01/03/01	Cs-137	-1.56E+00	1.16E+00	4.44E+00
WW	52	57932	01/03/01	Fe-59	-0.32E+00	1.95E+00	7.38E+00
WW	52	57932	01/03/01	GR-B	2.93E+00	0.72E+00	2.22E+00 *
WW	52	57932	01/03/01	H-3	5.07E+02	3.68E+02	1.22E+03
WW	52	57932	01/03/01	I-131	-0.99E+00	2.26E+00	8.10E+00
WW	52	57932	01/03/01	Mn-54	0.65E+00	0.87E+00	3.05E+00
WW	52	57932	01/03/01	Zn-65	8.22E+00	5.56E+00	1.84E+01
WW	52	57932	01/03/01	Zr-95	-0.28E+00	1.66E+00	6.19E+00
WW	52	58325	01/30/01	Ba-140	-0.82E+00	1.41E+00	5.64E+00
WW	52	58325	01/30/01	Co-58	-0.22E+00	0.90E+00	3.38E+00
WW	52	58325	01/30/01	Co-60	-0.72E+00	1.06E+00	4.16E+00
WW	52	58325	01/30/01	Cs-134	-0.19E+00	1.03E+00	3.83E+00
WW	52	58325	01/30/01	Cs-137	-1.67E+00	1.13E+00	4.38E+00
WW	52	58325	01/30/01	Fe-59	-4.47E+00	2.70E+00	1.13E+01
WW	52	58325	01/30/01	GR-B	7.48E+00	1.02E+00	3.07E+00 *
WW	52	58325	01/30/01	H-3	-3.42E+01	3.34E+02	1.16E+03
WW	52	58325	01/30/01	I-131	2.66E+00	1.79E+00	5.92E+00
WW	52	58325	01/30/01	Mn-54	-0.64E+00	0.80E+00	3.14E+00
WW	52	58325	01/30/01	Zn-65	-1.03E+00	5.54E+00	1.92E+01
WW	52	58325	01/30/01	Zr-95	2.25E+00	1.88E+00	6.33E+00
WW	52	58730	02/26/01	Ba-140	-2.44E+00	3.73E+00	1.53E+01
WW	52	58730	02/26/01	Co-58	-0.33E+00	2.04E+00	7.69E+00
WW	52	58730	02/26/01	Co-60	1.40E+00	1.99E+00	7.22E+00
WW	52	58730	02/26/01	Cs-134	-2.07E+00	1.55E+00	6.75E+00
WW	52	58730	02/26/01	Cs-137	0.29E+00	2.01E+00	7.34E+00
WW	52	58730	02/26/01	Fe-59	8.52E+00	5.46E+00	1.78E+01
WW	52	58730	02/26/01	GR-B	1.01E+01	0.89E+00	2.46E+00 *
WW	52	58730	02/26/01	H-3	1.61E+01	3.68E+02	1.25E+03
WW	52	58730	02/26/01	I-131	-6.86E+00	4.50E+00	1.72E+01
WW	52	58730	02/26/01	Mn-54	-1.24E+00	1.64E+00	6.62E+00
WW	52	58730	02/26/01	Zn-65	1.56E+00	3.98E+00	1.47E+01
WW	52	58730	02/26/01	Zr-95	6.43E+00	3.69E+00	1.19E+01
WW	52	59342	04/03/01	Ba-140	-0.45E+00	2.31E+00	8.96E+00
WW	52	59342	04/03/01	Co-58	-2.52E+00	1.18E+00	4.82E+00
WW	52	59342	04/03/01	Co-60	-0.25E+00	1.00E+00	3.89E+00
WW	52	59342	04/03/01	Cs-134	0.16E+00	1.06E+00	3.88E+00
WW	52	59342	04/03/01	Cs-137	0.46E+00	1.06E+00	3.76E+00
WW	52	59342	04/03/01	Fe-59	3.86E+00	2.77E+00	9.22E+00
WW	52	59342	04/03/01	GR-B	1.33E+01	0.86E+00	2.46E+00 *
WW	52	59342	04/03/01	H-3	-4.08E+02	3.54E+02	1.24E+03
WW	52	59342	04/03/01	I-131	-1.01E+01	3.50E+00	1.41E+01
WW	52	59342	04/03/01	Mn-54	-1.00E+00	1.07E+00	4.13E+00
WW	52	59342	04/03/01	Zn-65	-0.52E+00	5.18E+00	1.81E+01
WW	52	59342	04/03/01	Zr-95	0.24E+00	1.71E+00	6.29E+00

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

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MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD DEV. (pCi/kg)	MDC (pCi/kg)
WW	52	59761	05/02/01	Ba-140	0.00E+00	1.65E+00	6.21E+00
WW	52	59761	05/02/01	Co-58	-0.84E+00	0.95E+00	3.69E+00
WW	52	59761	05/02/01	Co-60	-0.63E+00	0.91E+00	3.67E+00
WW	52	59761	05/02/01	Cs-134	-0.45E+00	0.90E+00	3.47E+00
WW	52	59761	05/02/01	Cs-137	-1.17E+00	1.18E+00	4.44E+00
WW	52	59761	05/02/01	Fe-59	1.39E+00	2.18E+00	7.94E+00
WW	52	59761	05/02/01	GR-B	5.38E+00	0.71E+00	2.08E+00 *
WW	52	59761	05/02/01	H-3	3.73E+02	3.56E+02	1.19E+03
WW	52	59761	05/02/01	I-131	-1.48E+00	1.74E+00	6.48E+00
WW	52	59761	05/02/01	Mn-54	-0.76E+00	0.81E+00	3.21E+00
WW	52	59761	05/02/01	Zn-65	0.00E+00	2.23E+00	8.19E+00
WW	52	59761	05/02/01	Zr-95	2.13E+00	1.81E+00	6.14E+00
WW	52	60353	05/29/01	Ba-140	-5.25E+00	2.60E+00	1.24E+01
WW	52	60353	05/29/01	Co-58	-0.30E+00	1.26E+00	4.81E+00
WW	52	60353	05/29/01	Co-60	2.62E+00	1.20E+00	3.55E+00
WW	52	60353	05/29/01	Cs-134	-0.51E+00	1.06E+00	4.23E+00
WW	52	60353	05/29/01	Cs-137	-1.90E+00	1.15E+00	4.76E+00
WW	52	60353	05/29/01	Fe-59	-5.35E+00	4.10E+00	1.72E+01
WW	52	60353	05/29/01	GR-B	6.73E+00	0.90E+00	2.63E+00 *
WW	52	60353	05/29/01	H-3	7.09E+01	3.63E+02	1.25E+03
WW	52	60353	05/29/01	I-131	0.49E+00	4.78E+00	1.70E+01
WW	52	60353	05/29/01	Mn-54	-0.69E+00	1.07E+00	4.24E+00
WW	52	60353	05/29/01	Zn-65	-3.93E+00	2.78E+00	1.16E+01
WW	52	60353	05/29/01	Zr-95	-4.49E+00	2.04E+00	8.99E+00
WW	52	60852	07/03/01	Ba-140	-1.78E+00	2.09E+00	8.68E+00
WW	52	60852	07/03/01	Co-58	-0.85E+00	0.93E+00	3.70E+00
WW	52	60852	07/03/01	Co-60	0.41E+00	1.08E+00	3.94E+00
WW	52	60852	07/03/01	Cs-134	-0.86E+00	0.91E+00	3.62E+00
WW	52	60852	07/03/01	Cs-137	0.56E+00	1.01E+00	3.55E+00
WW	52	60852	07/03/01	Fe-59	1.18E+00	3.13E+00	1.14E+01
WW	52	60852	07/03/01	GR-B	5.70E+00	0.76E+00	2.22E+00 *
WW	52	60852	07/03/01	H-3	-3.46E+02	3.66E+02	1.28E+03
WW	52	60852	07/03/01	I-131	-6.56E+00	3.53E+00	1.37E+01
WW	52	60852	07/03/01	Mn-54	5.06E-02	0.76E+00	2.84E+00
WW	52	60852	07/03/01	Zn-65	-5.58E+00	2.10E+00	9.12E+00
WW	52	60852	07/03/01	Zr-95	-0.17E+00	1.65E+00	6.19E+00
WW	52	61275	08/01/01	Ba-140	-2.29E+00	1.70E+00	7.15E+00
WW	52	61275	08/01/01	Co-58	-1.38E+00	0.98E+00	3.97E+00
WW	52	61275	08/01/01	Co-60	0.17E+00	0.92E+00	3.50E+00
WW	52	61275	08/01/01	Cs-134	1.45E+00	0.96E+00	3.15E+00
WW	52	61275	08/01/01	Cs-137	-0.96E+00	1.01E+00	3.92E+00
WW	52	61275	08/01/01	Fe-59	-3.04E+00	2.88E+00	1.17E+01
WW	52	61275	08/01/01	GR-B	8.22E+00	0.64E+00	1.45E+00 *
WW	52	61275	08/01/01	H-3	-1.27E+03	4.59E+02	1.69E+03
WW	52	61275	08/01/01	I-131	1.93E+00	2.24E+00	7.63E+00
WW	52	61275	08/01/01	Mn-54	-0.43E+00	1.12E+00	4.17E+00
WW	52	61275	08/01/01	Zn-65	3.48E+00	2.09E+00	6.77E+00
WW	52	61275	08/01/01	Zr-95	1.08E+00	1.49E+00	5.27E+00

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)

Yankee Nuclear Power Station
Radiological Environmental Monitoring System
Summary of 2001 Data

MEDIA	STA	LSN	END DATE	NUCLIDE	CONC (pCi/kg)	STD DEV. (pCi/kg)	MDC (pCi/kg)
WW	52	62239	10/03/01	Ba-140	-1.39E+00	1.44E+00	5.91E+00
WW	52	62239	10/03/01	Co-58	-0.15E+00	0.91E+00	3.44E+00
WW	52	62239	10/03/01	Co-60	-1.39E+00	1.13E+00	4.61E+00
WW	52	62239	10/03/01	Cs-134	-0.32E+00	0.98E+00	3.75E+00
WW	52	62239	10/03/01	Cs-137	0.85E+00	1.01E+00	3.51E+00
WW	52	62239	10/03/01	Fe-59	2.90E+00	2.42E+00	8.26E+00
WW	52	62239	10/03/01	GR-B	9.78E+00	0.68E+00	1.37E+00 *
WW	52	62239	10/03/01	H-3	-4.91E+02	2.88E+02	9.84E+02
WW	52	62239	10/03/01	I-131	0.33E+00	1.46E+00	5.18E+00
WW	52	62239	10/03/01	Mn-54	-0.29E+00	1.12E+00	4.15E+00
WW	52	62239	10/03/01	Zn-65	-4.48E+00	2.10E+00	8.95E+00
WW	52	62239	10/03/01	Zr-95	-0.48E+00	1.59E+00	6.04E+00
WW	52	62738	10/31/01	Ba-140	3.62E+00	2.56E+00	8.52E+00
WW	52	62738	10/31/01	Co-58	-2.12E+00	1.21E+00	5.41E+00
WW	52	62738	10/31/01	Co-60	0.00E+00	1.63E+00	6.38E+00
WW	52	62738	10/31/01	Cs-134	2.92E+00	1.44E+00	4.42E+00
WW	52	62738	10/31/01	Cs-137	-0.12E+00	1.51E+00	5.67E+00
WW	52	62738	10/31/01	Fe-59	3.09E+00	3.98E+00	1.44E+01
WW	52	62738	10/31/01	GR-B	8.37E+00	0.68E+00	1.40E+00 *
WW	52	62738	10/31/01	H-3	-8.67E+02	3.45E+02	1.16E+03
WW	52	62738	10/31/01	I-131	-1.59E+00	2.52E+00	9.48E+00
WW	52	62738	10/31/01	Mn-54	-1.29E+00	1.18E+00	5.04E+00
WW	52	62738	10/31/01	Zn-65	-5.19E+00	3.55E+00	1.49E+01
WW	52	62738	10/31/01	Zr-95	2.83E+00	2.11E+00	7.09E+00
WW	52	63059	11/28/01	Ba-140	1.72E+00	2.09E+00	7.43E+00
WW	52	63059	11/28/01	Co-58	-1.20E+00	1.58E+00	5.97E+00
WW	52	63059	11/28/01	Co-60	0.82E+00	1.48E+00	5.35E+00
WW	52	63059	11/28/01	Cs-134	2.38E+00	1.46E+00	4.76E+00
WW	52	63059	11/28/01	Cs-137	-0.37E+00	1.39E+00	5.17E+00
WW	52	63059	11/28/01	Fe-59	4.83E+00	4.42E+00	1.51E+01
WW	52	63059	11/28/01	GR-B	5.84E+00	0.45E+00	1.00E+00 *
WW	52	63059	11/28/01	H-3	-8.28E+01	3.52E+02	1.12E+03
WW	52	63059	11/28/01	I-131	-0.45E+00	2.30E+00	8.26E+00
WW	52	63059	11/28/01	Mn-54	0.94E+00	1.30E+00	4.57E+00
WW	52	63059	11/28/01	Zn-65	1.56E+01	7.44E+00	2.41E+01
WW	52	63059	11/28/01	Zr-95	1.72E+00	2.03E+00	7.12E+00

* Radioactivity detected in sample (i.e., CONC > 3 STD. DEV.)