



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

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December 21, 1998

The Honorable John F. Kerry  
United States Senate  
Washington, D.C. 20510-2102

Dear Senator Kerry:

In response to your letter dated October 19, 1998, we are enclosing our response to Mary Elizabeth Lampert. As communicated to Ms. Lampert, our regulations require maintenance of records under a variety of regulations. Although the various records will facilitate the decommissioning of the Pilgrim Station, the NRC will terminate the license only when the licensee has remediated the site to the levels specified in the regulations. If you have any additional questions regarding this matter, please let me know.

Sincerely,

William D. Travers  
Executive Director  
for Operations

Enclosure: As stated

cc w/encl: See next page .

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**Mr. Ron Ledgett**  
**Executive Vice President**  
**Boston Edison Co.**  
**800 Boylston Street**  
**Boston, MA 02199**

December 21, 1998

The Honorable John F. Kerry  
U.S. Senate  
Washington, D.C. 20510-2102

SUBJECT: RECORD OF CONTAMINATION BEFORE TRANSFER OF OWNERSHIP  
(LETTER FROM MARY ELIZABETH LAMPERT)

Dear Senator Kerry:

In response to your letter dated October 19, 1998, we are enclosing our response to Mary Elizabeth Lampert. As communicated to Ms. Lampert, our regulations require maintenance of records under a variety of regulations. Although the various records will facilitate the decommissioning of the Pilgrim Station, the NRC will terminate the license only when the licensee has remediated the site to the levels specified in the regulations. If you have any additional questions regarding this matter, please let me know.

Sincerely,

Original signed by  
~~William D. Travers~~

William D. Travers  
Executive Director  
for Operations

Enclosure: As stated

cc w/encl: See next page

This correspondence addresses policy issues previously resolved by the Commission, transmit factual information, or restates Commission Policy.

200-98-0991

DOCUMENT NAME: G:\PILGRIM\lampert.ker

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DATE	/ /98	/ /98	/ /98	10/29/98	11/03/98

\* See previous

concurrency

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DATE	11/04/98	11 / 10 /98	12 / 17 /98	12/15/98	12/15/98

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10/19/98 10/19/98 → Re-think 10/14/98



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

December 17, 1998

Ms. Mary Elizabeth Lampert  
Massachusetts Citizens for Safe Energy  
Duxbury Nuclear Advisory Committee  
148 Washington Street  
Duxbury, MA 02332

Dear Ms. Lampert:

I am responding to your letter to Chairman Jackson of the U.S. Nuclear Regulatory Commission (NRC), dated October 6, 1998, in which you expressed concerns about the possible sale of the Pilgrim Station and about waste disposal issues. Although we are aware that Boston Edison Company (BECo) has announced plans to sell the Pilgrim Station to Entergy Nuclear Generating Company, to date we have not received an application for transfer of the license, nor have we seen any contract of sale between BECo and Entergy. Therefore, we are not in the position to render a view on any terms or conditions of the sale. When an application is submitted for approval of the transfer of the license, the NRC will not approve such an application unless it finds, among other things, that the new licensee is financially qualified to both operate and decommission the plant.

As discussed in detail herein, our regulations require that licensees maintain a written record of the disposal sites or site surveys of radioactive contamination, and that these records be available for our inspection. However, our regulations do not require that these records be submitted to the NRC. The radiological environmental monitoring programs required by the NRC are sufficiently comprehensive to provide an adequate assessment of the radiological impact of plant operation on the offsite environment. The available monitoring data for the Pilgrim Station support the conclusion that operation of the facility has not resulted in any significant environmental impacts.

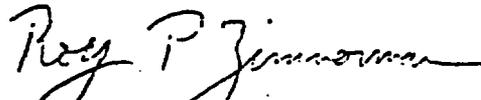
Section 20.2002 of Title 10 of the Code of Federal Regulations (10 CFR 20.2002), which replaced 10 CFR 20.302, allows disposal of materials contaminated with low levels of radioactivity under some conditions not otherwise authorized in 10 CFR Part 20, and if reviewed and approved by the NRC staff. We have searched our records and found that the NRC did approve one disposal under 10 CFR 20.302 on May 4, 1993. We have enclosed Inspection Report 93-17 for your information regarding this disposal. Until 10 CFR 20.304 was rescinded on January 28, 1981, BECo could make onsite disposals without NRC's approval if certain conditions were met. We are not aware of any disposals made under the provisions of this regulation. "Subpart L--Records" of 10 CFR Part 20 contains NRC's requirements for maintaining records for radiation protection, including 10 CFR 20.2108, "Records of waste disposal." This regulation would include disposal by burial in soil authorized under old parts 10 CFR 20.302 and 304. In addition, Section (g) of 10 CFR 50.75, "Reporting and recordkeeping for decommissioning planning," requires maintenance of (1) records of spills or any unusual occurrences involving the spread of contamination in and around the facility and (2) documentation of as-built drawings and modifications of structures and equipment in restricted areas in which radioactive materials are used and/or stored and of locations of possible inaccessible contamination such as buried pipes.

As to your concerns regarding decommissioning, licensees determine how much sampling and analysis are needed to adequately characterize the site on the basis of available historical onsite radiation survey records and known history of site uses regardless of who may own the plant at the time it enters decommissioning. This initial site characterization study is performed for the purpose of decommissioning planning and estimating decommissioning costs.

After decommissioning activities are completed, the licensee must furnish additional documentation of radiological evaluations to demonstrate compliance with the radiological criteria contained in "Subpart E-- Radiological Criteria for License Termination" of 10 CFR Part 20. The licensee's radiological environmental monitoring program is maintained in effect throughout the entire decommissioning process so that the potential environmental impacts of all decommissioning activities are monitored. The NRC periodically inspects the licensee's decommissioning program throughout the decommissioning process and reviews the licensee's final radiological survey data. The NRC can, if needed, perform an independent radiological review of the survey data. The NRC can also, if needed, perform an independent radiological survey of the licensee's site to verify the licensee's compliance with regulatory requirements. The NRC will terminate the license only when it is satisfied that the licensee's site is remediated to the levels specified in the regulations.

Thank you for sharing your concerns with the NRC. I trust you find this letter responsive to your concerns.

Sincerely,



for  
Samuel J. Collins, Director  
Office of Nuclear Reactor Regulation

Enclosure: Inspection Report 93-17

cc w/o encl: See next page



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I  
476 ALLENDALE ROAD  
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SEP 28 1993

Docket No. 50-293

E. Thomas Boulette, PhD  
Senior Vice President - Nuclear  
Boston Edison Company  
Pilgrim Nuclear Power Station  
Rocky Hill Road  
Plymouth, Massachusetts 02360

Dear Dr. Boulette:

SUBJECT: Inspection No. 50-293/93-17

This letter refers to the safety inspection conducted by Ms. Laurie Peluso of this office on August 30 - September 3, 1993, of activities authorized by NRC License No. DPR-35 at the Pilgrim site, Plymouth, Massachusetts and to the discussions of our findings held by Ms. Peluso with Mr. Kraft and other members of your staff at the conclusion of the inspection.

Areas examined during this inspection, involving your Radiological Environmental Monitoring Program, are important to public health and safety and are described in the NRC Region I Inspection Report which is enclosed with this letter. Within these areas, the inspection consisted of selective examinations of procedures and representative records, interviews with personnel, and observations by the inspector.

Within the scope of this inspection, we noted that the Chemistry Department continues to maintain an excellent Radiological Environmental Monitoring Program and that the responsible individuals were qualified and knowledgeable with respect to the above program. No safety concerns or violations of NRC requirements were identified in your program.

No response to this letter is required. Your cooperation with us in this matter is appreciated.

Sincerely,

James H. Joyner, Chief  
Facilities Radiological Safety  
and Safeguards Branch  
Division of Radiation Safety  
and Safeguards

Enclosure

## DETAILS

### 1.0 Individuals Contacted

#### 1.1 Licensee Personnel

- \* G. Basileco, Senior Compliance Engineer
- \* N. Desmond, Compliance Division Manager
- \* F. Famulari, Quality Assurance Department Manager
- \* R. Gay, Senior Compliance Engineer
- \* E. Kraft, Vice President Nuclear Operations
- D. LeVitere, General Test Division
- \* R. Lewis, Radiological Training Support
- \* P. Markson, Communications Specialist
- \* D. Montt, Chemistry Division Manager
- C. Morrill, General Test Division
- \* M. Most, Chemistry Supervisor
- \* L. Schmeling, Plant Manager
- K. Sejkora, Senior Environmental Engineer
- J. Spangler, Emergency Preparedness Manager
- \* L. Wetherell, Radiological Protection Manager
- \* A. Williams, Station Services Section Manager

#### 1.2 Nuclear Regulatory Commission (NRC) Personnel

- \* A. Cerne, Resident Inspector
- \* J. Macdonald, Senior Resident Inspector

\* Denotes those individuals present at exit interview on September 3, 1993.  
Other licensee personnel were also contacted or interviewed during this inspection.

### 2.0 Purpose

The purpose of this inspection was to verify the licensee's capability to implement the Radiological Environmental Monitoring Program (REMP) and the Meteorological Monitoring Program (MMP) according to Technical Specifications (TS), the Offsite Dose Calculation Manual (ODCM), and appropriate procedures during normal and emergency operations.

### 3.0 Management Controls

#### 3.1 Organization

The inspector reviewed the organization and administration of the REMP and discussed with members of the Chemistry Department any changes since the last inspection conducted in September 1992. Members of the Chemistry Department have responsibility for the REMP. There have been no significant changes in the oversight of the REMP since the previous inspection.

#### 3.2 Quality Assurance Audits and Surveillances

The inspector reviewed the Quality Assurance Audit and Surveillance Reports as part of the evaluation of the implementation of the TS requirements. Audit Report 92-01, "Radiological Environmental Monitoring Program", was reviewed during the last inspection. The licensee stated that an audit of the REMP is scheduled to be conducted during September 1993. The inspector reviewed the audit schedule and plan and noted that the REMP audit was planned according to the frequency specified in the Technical Specifications and the scope of the audit plan was appropriate for the REMP. The 1993 QA Audit results will be reviewed during a subsequent inspection.

The inspector reviewed the surveillance reports that supplement the audit. These surveillances included the Beach Survey, Garden Census, Air Particulate and Air Iodine Filter Collection, and Milk and Vegetable Sampling. The inspector noted that the surveillances were based on the TS requirements and probed for performance and procedural weaknesses. No weaknesses were found during these surveillances. The inspector noted that a qualified technical specialist performed the surveillances. The inspector determined that the surveillances were of sufficient technical depth to supplement the REMP audit.

#### 3.3 Annual Report

The inspector reviewed the Annual Radiological Environmental Monitoring Program Report for 1992, as well as the selected analytical data for 1993. The report provided a comprehensive summary of the analytical results of the REMP around the Pilgrim site and met the TS reporting requirements. The reviewed results indicated that all samples were collected and analyzed as required by TS. No obvious omissions or anomalous data were identified.

#### 4.0 Radiological Environmental Monitoring Program

##### 4.1 Direct Observations

The inspector examined selected sampling stations to determine whether samples were being obtained from the locations designated in the TS and the ODCM and whether air samplers were operable and calibrated. These sampling stations included air samplers for particulates and airborne iodines, the composite water sampling station at the discharge canal, and a number of thermoluminescent dosimeter (TLD) stations for measurement of direct ambient radiation. The inspector witnessed the weekly exchange of charcoal cartridges and air particulate filters at selected sampling stations, a water grab sample from an indicator surface water location, and the weekly water collection from the composite water sampler located at the discharge canal. All reviewed air sampling equipment and the composite water sampler were operational at the time of the inspection. The TLDs were placed at the designated locations as specified in the ODCM. Sample collection was performed according to the appropriate procedures. The observed air sampling equipment was well maintained, and the associated air volume measurement equipment was in calibration at the time of the inspection.

##### 4.2 Review of the REMP Procedures

The inspector reviewed a number of procedures as part of the evaluation of the implementation of the REMP in accordance with TS and the ODCM. The following procedures were reviewed.

- 7.12.25, "Air Particulate and Air Iodine Filter Preparation and Collection"
- 7.12.30, "Surface Water Sampling"
- 7.12.40, "Exchanging TLDs"
- 7.12.70, "Environmental TLD Quality Assurance Program"

The inspector noted that the above procedures have been updated and revised. The reviewed procedures were concise and provided the required direction and guidance for implementing an effective REMP.

In addition to the procedure review, the inspector reviewed the calibration results of the volume meters for the air samplers. The calibrations were performed as scheduled and results were within the licensee's acceptance criteria.

As part of this inspection, the inspector reviewed the licensee's program concerning IB Bulletin No. 80-10 (issued May 6, 1980), "Contamination of

Nonradioactive System and Resulting Potential for Unmonitored, Uncontrolled Release of Radioactivity to Environment". The inspector discussed the implementation of IE Bulletin No. 80-10 with members of the Chemistry Department. The inspector reviewed the site plan, each of the discharge points and sampling locations for the yard drain systems. The discharge drains are routinely sampled and analyzed and the results are reviewed by the responsible individual. The inspector also discussed with the licensee the method for identifying all potential sources of release from the site and the inclusion of these sources in the program. The inspector determined that the program is effective and facilitates the identification of potential sources of radioactive liquids and solids within and from the facility.

During this inspection, the inspector reviewed the relocation and placement of slightly radioactively contaminated construction soil within the licensee owner-controlled boundary in accord with an NRC approved 10 CFR 20.302(a) application. The inspector examined the re-location site. The inspector determined that the relocated soil is not located in the near proximity of the wetlands and would not likely be affected by them. Because this area is owner-controlled, members of the public have limited access to this onsite area. The licensee's surveys indicated that no dose rates above the normal background levels for the area were detected. The inspector noted that the licensee collected and analyzed sufficient soil samples to fully characterize the material prior to the relocation. The inspector also noted that the licensee had accurately quantized the amount of the soil to be moved based on records of the number of loads of material stored. The licensee had performed adequate surveys and measurements prior to, during and after the relocation of this material. The inspector concluded through discussions with the licensee review of applicable records and direct inspection of the areas, that the licensee conducted this project thoroughly and appropriately. Radiological impacts from this soil to the public and the environment are negligible. The inspector had no further question in this area.

Based on the above review and discussions with the licensee personnel, the inspector determined that the licensee has implemented an excellent REMP.

#### 4.3 Environmental Dosimetry Program Comparison

The results of the NRC TLD Direct Radiation Monitoring Network are published quarterly in NUREG-0837. This network provides continuous measurements of the ambient radiation levels around 72 nuclear power plant sites throughout the United States. Each site is monitored by approximately 30 to 50 TLD stations in two concentric rings extending to about five miles from the nuclear power plant.

One purpose of this network is to provide a means of comparing the results of the direct radiation monitoring programs conducted around individual nuclear power plants with that of the nationwide NRC program. Therefore, several NRC TLDs are collocated with selected licensee TLD stations. The NRC employs the Panasonic Model UD-801 TLD that consists of two elements of lithium borate activated with copper and two elements of calcium sulfate activated with thulium. The two calcium sulfate elements are used to determine the environmental exposure level during normal operations. Twelve NRC TLDs (one at each collocated station) are collocated with licensee TLDs at the Pilgrim site.

The licensee currently places two types of Panasonic environmental TLDs, one Model UD-801 and one Model UD-814, at each specified monitoring location. Both TLDs consist of lithium borate elements activated with copper and calcium sulfate elements activated with thulium. The UD-801 contains two lithium borate and two calcium sulfate elements. The UD-814 contains one lithium borate and three calcium sulfate elements. Only the five calcium sulfate elements are used by the licensee to determine environmental exposure levels during normal operations.

During this inspection, the inspector compared the monitoring results of the collocated TLDs for 1992 and the first half of 1993. For both the NRC and the licensee, the results are provided in Table 1 as the net exposure result  $\pm$  random uncertainty expressed as one standard deviation. Table 1 also includes the NRC "historical average" data for each location as a basis for comparing the quarterly NRC results to those measured previously; these historical averages also provide a means of comparison with the results of the licensee. The data begin in 1983 and include the data through the first quarter of 1993. The reported values are the mean  $\pm$  1 standard deviation for all quarters for which net data were available. The relatively small standard deviations for the historical averages indicate that the NRC results have remained consistent over the ten-year period, with one exception. The quarterly results for location NRC 1 (the onsite Overlook Area) have been higher than the historical average since 1991. NRC 1 is subject to exposure to scattered radiation from N-16 turbine shine during periods of operation. The introduction of hydrogen water chemistry during 1991 somewhat enhanced this phenomenon. The quarterly TLD results for this location are typically higher than the historical average when the plant is operating and lower than the historical average (2nd quarter 1993) when the plant is shut down (background level). This variation in exposure with power operations accounts for the higher standard deviation for the historical average for this location.

The licensee's quarterly results during 1992 were slightly higher than those of the NRC. This difference may be due to different transit doses, differences in

time of field exposure, and specific TLD location variations. With the above uncertainties and variabilities considered, the results of the two sets of TLDs are in good comparison.

The inspector noted that the Environmental Program Manager of the Chemistry Department tracks, trends, and reviews the TLD results including those of the NRC collocated TLDs.

Based on the above review, the inspector determined that the licensee continued to maintain an excellent environmental dosimetry program.

#### 5.0 Quality Assurance and Quality Control for Analytical Measurements

The inspector reviewed the licensee's programs for quality assurance (QA) and quality control (QC) to determine whether the licensee had adequate control with respect to sampling, analyzing, and evaluating data for the implementation of the REMP.

The quality control program for analysis of environmental samples is conducted by the Yankee Atomic Environmental Laboratory (YAEL), located in Framingham, MA. The laboratory conducts a blind duplicate program, an intralaboratory quality control program, and participates in the EPA-cross check program to verify the quality of laboratory analyses. The inspector reviewed selected results from these programs and noted that the reviewed results were within the licensee's acceptance criteria.

The inspector noted that the licensee continues to maintain an excellent quality assurance program to ensure that the routine and non-routine REMP sample results are thoroughly reviewed by the Environmental Project Manager. Any results that appear suspect are recounted and reviewed.

Based on the above reviews and discussions with the licensee, the inspector determined that the licensee had excellent QA and QC programs.

#### 6.0 Meteorological Monitoring Program (MMP)

The inspector reviewed the licensee's MMP to determine whether the instrumentation and equipment were operable, calibrated, and maintained. The Emergency Preparedness Division has oversight for surveillance, calibration, and maintenance of the meteorological instrumentation and equipment. Calibrations are performed weekly and quarterly and surveillances are conducted daily, weekly, and biweekly by technicians of General Test Division using the vendor operation manual.

Calibrations and surveillances were performed according to the requirements specified in the Emergency Preparedness Procedure, EP-AD-421, "Surveillance, Maintenance and Calibration of McDAP Equipment". The inspector reviewed this procedure and

the most recent calibration results for wind speed, wind direction, and delta temperature at the primary and back-up meteorological towers. All reviewed calibration results were within the licensee's acceptance criteria and all calibrations were performed according to the frequencies required by the procedure.

The inspector witnessed the weekly calibration of the meteorological instrumentation at the primary tower, including an examination of the strip chart recorders located in the control room to verify the expected response to the calibration. The calibration results were within the licensee's acceptance criteria. The inspector noted that the chart recorders in the control room and the instrumentation at the primary tower were operable and well maintained at the time of the inspection.

Based on the above inspector observations, record review and discussions with the licensee personnel, the inspector determined that the licensee continued to implement the MMP effectively.

#### 7.0 Exit Interview

The inspector met with the licensee representatives denoted in Section 1.1 of this inspection report at the conclusion of the inspection on September 3, 1993. The inspector summarized the purpose, scope, and findings of the inspection. The licensee acknowledged the inspection findings.

Table 1

Environmental TLD Monitoring Results (mR/quarter) for 1992 and first half 1993\*  
Comparison of NRC TLDs Collected with Pilgrim TLDs

	1992				1993		NRC Average**
	1st quarter	2nd quarter	3rd quarter	4th quarter	1st quarter	2nd quarter	
NRC 1 PIL OA	102.8 ± 3.5 107.0 ± 4.4	93.2 ± 3.1 117.3 ± 9.7	113.4 ± 3.8 120.9 ± 5.2	71.6 ± 2.5 70.0 ± 3.7	109.1 ± 3.7 119.3 ± 6.5	41.4 ± 1.6 44.3 ± 2.2	43.0 ± 28.2
NRC 2 PIL PA	17.0 ± 1.1 20.3 ± 0.7	14.6 ± 0.9 20.7 ± 1.0	20.8 ± 1.1 20.7 ± 0.9	14.6 ± 0.9 18.5 ± 1.1	16.7 ± 1.0 19.5 ± 0.6	15.8 ± 0.9 18.3 ± 0.9	16.7 ± 2.8
NRC 6 PIL JG	13.4 ± 1.0 16.1 ± 0.4	12.8 ± 0.8 15.9 ± 0.6	15.6 ± 1.0 16.1 ± 0.6	13.5 ± 0.9 16.0 ± 0.7	13.2 ± 0.9 15.3 ± 0.6	15.7 ± 0.9 16.5 ± 0.7	14.4 ± 1.3
NRC 7 PIL WR	17.1 ± 1.1 20.6 ± 0.7	17.9 ± 1.0 19.7 ± 0.8	19.0 ± 1.1 20.3 ± 0.9	16.4 ± 0.9 19.6 ± 0.9	16.4 ± 1.0 19.2 ± 0.6	20.1 ± 1.0 20.1 ± 1.0	18.3 ± 2.6
NRC 13 PIL ER	12.8 ± 1.0 15.6 ± 0.7	12.0 ± 0.8 14.8 ± 0.4	15.1 ± 1.0 15.4 ± 0.5	11.5 ± 0.8 15.0 ± 0.4	12.8 ± 0.9 14.7 ± 0.6	13.7 ± 0.8 14.9 ± 0.9	13.4 ± 1.8
NRC 22 PIL MP	14.1 ± 1.0 17.2 ± 0.7	10.8 ± 0.8 16.1 ± 0.9	15.1 ± 1.0 15.5 ± 0.4	12.6 ± 0.8 16.1 ± 0.7	13.4 ± 0.9 15.9 ± 0.6	14.7 ± 0.8 15.6 ± 0.9	13.3 ± 2.1
NRC 25 PIL WH	12.8 ± 1.0 15.7 ± 0.9	13.3 ± 0.9 15.0 ± 0.7	14.4 ± 1.0 15.2 ± 0.5	13.7 ± 0.9 15.4 ± 0.8	12.9 ± 0.9 15.3 ± 0.6	15.0 ± 0.8 15.4 ± 0.6	14.0 ± 1.9
NRC 30 PIL MS	15.2 ± 1.0 18.3 ± 0.4	15.7 ± 0.9 17.6 ± 0.5	16.2 ± 1.0 18.2 ± 0.7	15.0 ± 0.9 18.1 ± 0.5	14.8 ± 1.0 17.3 ± 0.6	18.9 ± 0.9 18.7 ± 0.6	16.0 ± 1.3
NRC 37 PIL SP	15.0 ± 1.0 16.2 ± 0.7	13.9 ± 0.9 15.1 ± 0.6	16.1 ± 1.0 15.5 ± 0.8	13.0 ± 0.8 15.3 ± 0.9	13.4 ± 0.9 14.8 ± 0.6	14.9 ± 0.8 15.1 ± 0.7	14.3 ± 1.9
NRC 38 PIL MB	10.7 ± 0.9 16.1 ± 0.7	11.2 ± 0.8 15.3 ± 0.6	12.6 ± 0.9 17.4 ± 2.7	10.7 ± 0.8 15.4 ± 0.5	NC NC	12.9 ± 0.8 14.4 ± 0.9	13.1 ± 2.3
NRC 43 PIL NP	15.7 ± 1.0 18.2 ± 0.9	14.0 ± 0.9 17.5 ± 0.5	16.7 ± 1.0 17.8 ± 0.8	14.6 ± 0.9 17.8 ± 0.6	15.1 ± 1.0 17.5 ± 0.6	16.2 ± 0.9 18.4 ± 0.9	15.7 ± 1.9
NRC 47 PIL FW	14.0 ± 1.0 17.8 ± 0.4	13.7 ± 0.9 17.1 ± 0.4	16.4 ± 1.0 16.6 ± 0.7	14.5 ± 0.9 17.7 ± 0.6	12.9 ± 0.9 15.8 ± 0.7	NC 17.8 ± 0.8	14.9 ± 1.9
NRC 48 PIL SW	15.5 ± 1.0 17.9 ± 0.4	17.7 ± 1.0 17.1 ± 0.4	18.3 ± 1.1 16.6 ± 0.7	18.0 ± 1.0 17.7 ± 0.6	13.9 ± 0.9 15.8 ± 0.7	NC 17.8 ± 0.8	15.7 ± 2.2

All data are shown as the net result ± 1 standard deviation for the random uncertainties.

\* All net results are in milliroentgens (mR) and are normalized to a 90-day quarter.

\*\* NRC historical average from 1983 (1st quarter) through 1993 (1st quarter).

NC = no comparison because data are not available (due to missing or damaged TLD)

U.S. NUCLEAR REGULATORY COMMISSION  
REGION I

Report No. 50-293/93-17  
Docket No. 50-293  
License No. DPR-35  
Licensee: Boston Edison Company  
RFD #1 Rocky Hill Road  
Plymouth, Massachusetts 02360  
Facility Name: Pilgrim Nuclear Power Station  
Inspection At: Plymouth, Massachusetts  
Inspection Conducted: August 30 - September 3, 1993

Inspector:  09/24/93  
Laurie Peluso, Radiation Specialist  
Effluents Radiation Protection Section (ERPS)  
Facilities Radiological Safety and  
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Date

Approved by:  09/24/93  
Robert J. Byles, Chief, ERPS, FRSSB,  
Division of Radiation Safety and Safeguards (DRSS)  
Date

Areas Inspected: Announced safety inspection of the Radiological Environmental Monitoring Program including: management controls, quality assurance audits, meteorological monitoring program, quality control program for analytical measurements, and implementation of the above programs and the Offsite Dose Calculation Manual (ODCM).

Results: Within the areas inspected, the licensee continued to maintain an excellent REMP. The responsible individuals in the Chemistry Department were qualified and knowledgeable with respect to implementation of the above programs. No safety concerns or violations of NRC requirements were identified.