

U.S. NUCLEAR REGULATORY COMMISSION
REGION I

Report Nos. 50-245/88-13
50-336/88-18
50-423/88-13

Docket Nos. 50-245
50-336
50-423

License Nos. DPR-21 Category C
DPR-65
DPR-49

Licensee: Northeast Nuclear Energy Company
P. O. Box 270
Hartford, Connecticut 06101

Facility Name: Millstone Nuclear Generating Station

Inspection At: Waterford, Connecticut

Inspection Conducted: July 26-29, 1988

Inspectors: Robert M. Lueck
for W. Thomas, Radiation Specialist FRPS, FRSSB

9/8/88
date

Approved by: M. Shanbaky
M. Shanbaky, Chief, Facilities Radiation
Protection Section

9/8/88
date

Inspection Summary: Inspection on July 26-29, 1988, (Report Nos.
50-245/88-13, 50-336/88-18, 50-423/88-13)

Areas Inspected: Routine, unannounced inspection to review Unit 2 radiation protection activities. Areas reviewed included status of previously identified items, internal and external exposure controls, and station ALARA practices.

Results: No violations were identified, the Unit 2 radiation protection program was being effectively implemented.

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Details

1.0 Persons Contacted

- *M. Brennan, Unit 1 Radiation Protection Supervisor (RPS)
- *D. Fitts, Unit 2 ALARA Coordinator
- *R. Gault, Unit 2 Assistant RPS
- *H. Haynes, Station Services Superintendent
- *J. Kennan, Unit 2 Superintendent
- *J. Laine, Unit 2 RPS
- *R. Sachatello, Unit 3 RPS
- *P. Simmons, RPS, Services
- *G. Smith, Unit 1 Assistant RPS
- *S. Turowski, Unit 3 ALARA Coordinator
- P. Weekly, Security Supervisor

* Attended the exit meeting on July 29, 1988

Other licensee personnel were also contacted during the course of this inspection.

2.0 Purpose

The purpose of this routine, unannounced inspection was to review the implementation of the Radiation Protection Program. The following areas were included in this review:

- Status of Previously Identified Items,
- ALARA,
- External Exposure Controls, and
- Internal Exposure Controls.

3.0 Status of Previously Identified Items

- 3.1 (Closed) Inspector Followup Item (50-245/86-23-05, 50-336/86-29-05 and 50-423/86-36-05): Improve training on the use of emergency instruments during an emergency.

Revised Procedure Number EPIP 4207, "Radiological Sampling During An Emergency", Rev. 4, dated September 8, 1986, specifies that the truck engine is to be turned off before the air sampler is turned on. The portable instrument survey probes, which were dangled outside the vehicle window were GM probes, which are not adversely affected by cold temperatures. This item is considered closed.

- 3.2 (Open) Inspector Followup Item (50-245/87-13-03 and 50-423/87-13-03): Licensee to evaluate the need for respirator training for security guards.

During this inspection additional discussions were held with the Security Supervisor concerning respirator training for security guards. At the present time approximately 75% of the security guard force have been respirator qualified. In Addition, procedure SEP 5000 will require all security guard force members to be respirator qualified. The Security Supervisor stated that this requirement will be implemented by September 1, 1988. This item remains open and will be reviewed during a subsequent inspection.

- 3.3 (Closed) Violation (50-245/87-15-01): Shipping box containing radioactive material was not labeled as required.

The inspector reviewed the Licensee's corrective actions provided to the NRC by letter, dated September 18, 1987. The inspector verified that the actions taken were appropriate, completed in a timely manner, and in accordance with the referenced licensee's letter. This item is considered closed.

- 3.4 (Closed) Inspector Followup Item (245/87-15-02, 336/87-17-01, 423/87-14-01): Licensee to develop and implement a revised HRA key control procedure.

The licensee has evaluated additional measures to ensure HRA gate integrity and HRA key control. These measures have been implemented in revised procedure HP 951/2951/3951, "High Radiation Key Control", dated November 27, 1987. This item is considered closed.

- 3.5 (Closed) Violation (50-245/87-15-03): Failure to follow RWP procedures.

The inspector reviewed the licensee's corrective actions provided to the NRC by letter, dated September 18, 1987. The inspector verified that the actions taken were appropriate, completed in a timely manner and in accordance with the referenced licensee's letter. This item is closed.

- 3.6 (Closed) Inspector Followup Item (50-336/84-22-02): Licensee to provide for periodic verification of the fuel handling bridge gamma radiation monitor operability.

Rev. 9 of procedure SHP 4905, dated December 1, 1987, requires a weekly source check of the Victoreen Area Monitoring Packet (VAMP) located on the 38'6" elevation of the spent fuel pool. Records of the source checks for 1987 were reviewed by the inspector and found to be complete. This item is considered closed.

4.0 ALARA

The inspector performed a limited review of the implementation of the licensee's ALARA Program by the following methods:

- discussion with the Unit 2 and Unit 3 ALARA Coordinators,
- review of planned job exposure estimates,
- review of ongoing job exposure tracking,
- review of procedure ACP 6.02, "Maintenance of Occupational Radiation Exposures ALARA",

Based on this limited review, no deficiencies were identified. This area will be reviewed in depth during a future inspection.

5.0 External Exposure Controls

The licensee's External Occupational Exposure Control Program was reviewed by the following methods:

- discussion with licensee personnel,
- review of selected Radiation Work Permits and radiological surveys,
- observation of Unit-2 radiological area postings,
- review of radiological investigation reports associated with Unit 2 High Radiation Area door control,
- review of the weekly exposure status report for Units 1 & 2

The inspector toured the Unit-2 Radiation Controlled Area accompanied by the Unit-2 Assistant RPS. During the tour it was noted that all radiation areas were properly posted and that all locked high radiation area gates were locked. Key to dose rate area maps as well as ALARA area maps were located throughout Unit-2.

The inspector reviewed Unit-2 area surveys and noted that all required surveys were completed in a timely manner. The inspector also noted that progress has been made in the reduction of the number of locked high radiation areas and in contaminated areas at Unit-2. Licensee efforts in these areas will continue to be reviewed during subsequent inspections.

6.0 Internal Exposure Controls

The licensee's program for control of internal exposure was reviewed with respect to criteria contained in the applicable regulatory requirements.

The licensee's performance with respect to the above criteria was determined by:

- observations of work activities made during the tour of Unit 2
- review of selected records and procedures, and
- discussions with licensee personnel.

Within the scope of this review, no violations were identified.

7.0 Exit Meeting

The inspector met with the licensee personnel denoted in Section 1.0 of this report on July 29, 1988. At that time, the inspector summarized the purpose, scope, and findings of this inspection.