U.S. NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT

Region I

Report No. 50-336/80-13

Docket No. 50-336

License No. DPR-65 Priority -- Category C

Licensee: Northeast Nuclear Energy Company

P.O. Box 270

Hartford, Connecticut 06101

Facility Name: Millstone Point Unit 2

Inspection at: Waterford, Connecticut

Inspection conducted: August 27, 28 and 29, 1980

Inspectors: for E. P. Jernigan, Reactor Inspector — 9/24/80 date signed

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Approved by: L. E. Tripp, Chief, Engineering Support Section, No. 1, RC&ES Branch — 9/24/80 date signed

Inspection Summary:
Inspection on August 27-29, 1980 (Report No. 50-336/80-13)
Areas Inspected: Routine, unannounced inspection by a regional based inspector of inservice inspection activities. The inspection involved 14 inspector-hours on site by one NRC regional based inspector.
Results: No items of noncompliance with regulatory requirements were identified.

Region I Form 12
(Rev. April 77)

DETAILS

1. Persons Contacted

Principal Licensee Employees

*J. Kelley, Unit 2 Superintendent
E. Farrell, Superintendent Plant Services
*R. Blainchard, ISI Coordinator
E. Lindsay, QA/QC Engineer
V. Papapololi, QA/QC Supervisor
*J. Stankosky, Level III Examiner
S. Sikorski, Level II Examiner
R. Fuller, Level II Examiner

Combustion Engineering, Inc.
R. Kusy, Project Engineer

Hartford Steam Boiler Inspection and Insurance

R. Smith, Authorized Inspector (AI)

*denotes those present at the exit interview.

2. Inservice Inspection (ISI) Activities

a. ISI Program

The ISI program was developed by a testing contractor (Combustion Engineering (CE)) and is based on the ASME B&PV Code, Section XI, 1974 Edition including the 1975 Summer Addenda.

The inspector's audit included the following documents to determine compliance with the aforementioned Code requirements.

-- ISI Program for Millstone Unit 2
-- ISI Summary of Examinations (Class 1)
-- ISI Program Requirements

b. ISI Procedure Review

The inspector audited selected implementing nondestructive examination (NDE) procedures for technical adequacy and compliance with the applicable Code requirements.

Procedures audited included:

-- 00000-ISI-029, Revision 2, "Generic Manual Ultrasonic Examination Procedure."

-- 6272-ISI-010, Revision 2, "Ultrasonic Examination Procedures for Closure Head Studs and Nuts."

-- 6272-ISI-019, Revision 2, "Ultrasonic Examination Procedures for 12" and Smaller Pipe-to-Pipe, Pipe-to-Fitting and Pipe-to-Safe End."

-- 6272-ISI-023, Revision 0, "Ultrasonic Examination Procedures for 12" Nozzles to Primary Coolant Piping Welds."

-- 6272-ISI-018, Revision 0, "Ultrasonic Examination Procedures for Reactor Coolant Pump Fly Wheels."

-- NU-VT-1, Revision 1, Visual Examination Procedures.

-- NU-PE-1, Revision 0, Liquid Penetrant Examination Procedures.

-- NU-MP-2, Revision 0, Magnetic Particle Examination Procedures.

The inspector considered the above procedures with regard to criteria delineated in 10 CFR 50. 55a(g) and requirements of Section XI of the ASME B&PV Code. This included, but was not limited to, the parameters described below for the following captioned examination methods.

c. Ultrasonic Examination, Manual Contact Technique

-- The type of apparatus, including frequency range, is specified.

-- Examination coverage, beam angle and transducer size are specified.

-- Calibration is accomplished on notches and scanning sensitivity is defined and is consistent with ASME Code requirments.

-- Evaluation, recording and acceptance standards for flaw indications are specified and consistent with the applicable ASME Code requirements.

d. Surface Examination Methods/Techniques

-- Type of visual examination used, direct or remote, is specified.

-- Lighting levels are stipulated.

-- Cleanliness of surface to be examined is defined.

-- Measurements of clearances, tightness of bolting, physical displacement, structural adequacy, freedom of motion/distress and verification of settings as applicable are defined.

-- Results are compared to acceptance criteria and necessary corrective measures are delineated.

No items of noncompliance were identified. However, the inspector noted that recent changes to the licensee's procedure NU-MP-2 incorporated the use of a central conductor for the examination of the closure head nuts. The inspector's review of personnel qualification records, of examiners certified to utilize this method, did not specifically address this technique. This item was discussed with the ISI coordinator and the site quality assurance supervisor. Additionally, the inspector observed that there was no formally structured procedural approach to assure that contractor personnel using licensee procedures were actually qualified in all techniques specified therein. Specifically, when post contract changes occur in the licensee's examination procedure(s)/technique(s). In that this appeared to be an isolated case the inspector had no further questions regarding the effectiveness of the examination at this time.

e. Equipment/Material Certification

The inspector audited calibration records of UT instruments S/N 911372 and 773601. The records included vertical linearity verification reports. These reports showed that this verification was performed using a mini test block. The calibration records were current and indicated that the equipment was calibrated properly. Also, this audit included other certificates of compliance of other inspection material including ultragel batch no. 8004. Certifications for this material indicated that the material had been tested in accordance with the Code requirements and had been released for use. No items of noncompliance were identified.

f. Personnel Qualification Records

The inspector audited qualification records of personnel scheduled to perform NDE's during the current outage. The records audited identified the discipline in which the individual had been trained and certified. Except as discussed above, these records documented that proficiency examinations had been administered covering examination techniques addressed in the contractor's basic procedures. Additionally, physical examination records indicated whether visual aids were required during the examination. No departure from SNT-TC-1A (the governing document) recommendations were identified.

No items of noncompliance with regulatory requirements were identified.

3. Exit Interview

The inspector met with licensee representatives (asterisked in paragraph 1) at the conclusion of the inspection on August 29, 1980. The inspector summarized the purpose, scope and findings of the inspection as discussed herein. The licensee representatives acknowledged the inspector's summarization.