

U.S. NUCLEAR REGULATORY COMMISSION
REGION I

Report No. 50-334/84-26

Docket No. 50-334

License No. DPR-66 Priority -- Category C

Licensee: Duquesne Light Company

Post Office Box 4

Shippingport, Pennsylvania 15077

Facility Name: Beaver Valley Power Station, Unit 1

Inspection At: Shippingport, Pennsylvania

Inspection Conducted: October 29, 1984 to November 2, 1984

Inspectors: Robert A. McBrearty
R. A. McBrearty, Reactor Engineer

Dec. 4, 1984
date

Approved by: Lewis N. Durr
J. P. Durr, Chief, Materials
and Processes Section

12/4/84
date

Inspection Summary:

Inspection on October 29 to November 2, 1984, (Report No. 50-334/84-26)

Areas Inspected: Routine unannounced inspection of ISI activities including program, procedure and data review, and observations of work in progress; and licensee action on previous inspection findings. The inspection involved 30 inspector hours onsite by one regional based inspector.

Results: No violations were identified.

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DETAILS

1. Persons Contacted

Duquesne Light Company (DLC)

- *S. C. Fenner, Director Operations Quality Control
- *L. E. Hustek, ENO
- *A. F. Mosso, Quality Assurance - NDE Level III
- *B. F. Sepelak, NSV Engineer
- *J. D. Sieber, General Manager - Nuclear Services
- *W. H. Sikowski, Director - ISI
- *D. P. Weakland, Quality Control Engineer

Babcock and Wilcox Company (B&W)

F. G. Whytsell, Supervisor, Field Operations

U.S. Nuclear Regulatory Commission

*W. Troskoski, Senior Resident Inspector

*Indicates those present at the exit meeting.

2. Licensee Action on Previous Inspection Findings

(Open) Violation (334/84-02-01), uncontrolled Ten-Year ISI plan. The licensee has committed to complete his action relative to this item prior to the fifth refueling outage at the facility. The licensee further committed to complete by October 15, 1984, the review and approval process of procedures for the administrative control of the Ten-Year ISI plan. The inspector reviewed selected administrative procedures to ascertain that the licensee's latter commitment was met. The following procedures were included in the inspector's review:

- OQC-ISI 1.0, Revision 0, "Operations Quality Control Inservice Inspection Program"
- OQC-ISI 1.1, Revision 0, "OQC-ISI Program Control" - This document describes the organization of the QA Unit with respect to ISI activities and assigns various responsibilities.
- OQC-ISI 2.0, Revision 0, "OQC-ISI Manual" - This describes the scope and the format of the OQC-ISI Manual.
- OQC-ISI 2.4, Revision 0, "OQC-ISI Procedure Control" - This document describes the manner of issuing and controlling OQC-ISI Manual procedures.
- OQC-ISI 2.5, Revision 0, "Operations Quality Control - Inservice Inspection (OQC-ISI) Quality Assurance Records" - This document

describes general requirements and guidelines for the preparation, collection, review, maintenance and storage of QA records documenting ISI activities at the site.

- OQC-ISI 2.6, Revision 0, "Operations Quality Control - Inservice Inspection (OQC-ISI) Procurement" - This document describes the requirements for controlling the procurement of material, equipment, and services associated with the ISI Program at Beaver Valley, Unit 1.
- OQC-ISI 2.7, Revision 0, "Nonconforming ISI Items" - The document establishes requirements and assigns responsibilities for controlling nonconforming materials, parts, equipment, services, and activities which do not conform to specified requirements.
- OQC-ISI 3.0, Revision 0, "Ten-Year Inspection Plan" - This document describes how OQC shall administer and define the ISI Program specified in the applicable revision of the ASME Boiler and Pressure Vessel Code, Section XI.
- The inspector found that the licensee has met his commitment to review and approve procedures for the administrative control of the Ten-Year ISI plan. He advised the licensee that the item will remain open pending completion of future committed licensee actions and subsequent NRC review.

3. Review of Nondestructive Examination (NDE) Implementing Procedures

The inspector reviewed the following procedures for technical adequacy and to ascertain compliance with applicable ASME Code and regulatory requirements:

- ISI-50, Revision 10, "Technical Procedure Describing Surface Requirements of Welds, Adjacent Base Metal, and Components for Nondestructive Examination"
- ISI-104, Revision 23, "Ultrasonic Examination of Threads in Flanges and of Studs and Bolts"
- ISI-119, Revision 6, "Ultrasonic Examination of Piping Welds Joining Similar and Dissimilar Materials"
- ISI-130, Revision 22, "Ultrasonic Examination of Vessel Welds and Nozzle Inside Radius Sections"
- ISI-240, Revision 19, "Penetrant Examination of Welds and Base Materials, Including Studs and Nuts"
- Procedure Qualification Record of procedure ISI-240, Revision 19.

The inspector's review indicated that the procedures were technically adequate for their intended use, and that applicable code and regulatory requirements were met.

No violations were identified.

4. Observations of Work in Progress

The inspector observed the liquid penetrant examination of weld RH-24-1, Figure 4.9.2.1, and the eddy current examination of the following tubes in Steam Generator "A":

<u>Row</u>	<u>Column</u>
15	83
18	83
19	83
20	83
20	84
19	84

The inspector's observations were made to ascertain compliance with ASME Code and regulatory requirements.

The penetrant examination was done in accordance with procedure ISI-240, Revision 19 by an individual qualified to Level II in the liquid penetrant method. Indications which were detected were properly recorded and reported to the licensee for his evaluation.

The eddy current examinations were done by Westinghouse Electric Corporation personnel located in a control station outside of the radiation area. Each tube was probed full length from the hot leg side and data were recorded as the probe was retracted from each tube.

No violations were identified.

5. Review of ISI Data

Data associated with selected welds were reviewed to ascertain compliance with applicable code and regulatory requirements and for apparent trends.

The following were included in the inspector's review:

Magnetic Particle Examination

- Weld #44 and #49, Main Steam "A"
- Weld #44 and #49, Main Steam "B"

Ultrasonic Examination

- Weld SI-111-4-FW5, Safety Injection System elbow to pipe weld

Liquid Penetrant Examination

- Weld PS-60-FW21, L.H. Safety Injection

The review indicated that the examinations were done in accordance with the applicable procedure by qualified personnel. The data were complete, and in the case of the liquid penetrant report an indication which was detected outside of the area of interest was reported to the licensee for disposition.

Magnetic particle examination data noted that numerous "false" indications were observed due to the as-welded condition of the four welds. The inspector verified that the weld surface condition appeared to be conducive to producing a powder build-up, and he took the position that the indications should be further addressed to ascertain that they were not masking relevant flaw indications. The licensee stated that he would address this question. This item is considered unresolved pending licensee action and subsequent NRC review (334/84-26-01).

6. NDE Personnel Qualification/Certification Records

Records of B&W personnel who participated in the examinations at Beaver Valley, Unit 1, and of the certifying Level III individual were reviewed by the inspector to ascertain that each individual was properly qualified to perform the examinations. The records were found to be readily available, legible and complete, including current visual acuity examination records. The inspector found that each individual was qualified to perform his assigned responsibilities. Additional documentation was available which verified that the licensee had reviewed the records prior to the performance of any examinations.

No violations were identified.

7. Quality Assurance (QA) Surveillance

The inspector reviewed licensee QA records to ascertain that ISI activities are included in the licensee's program. The inspector's review included the following:

- ISI Surveillance No. 1 through 10 inclusive for the period from 10/17/84 to 10/29/84.

The surveillances were done by the licensee's Level III, and included observations of vendor performed examinations, and verification examinations of previously examined items.

Babcock & Wilcox was selected by the licensee to perform inservice inspection at Beaver Valley, Unit 1. The inspector requested audit records to ascertain that the licensee had reviewed B&W's qualifications to perform the required activities. The inspector found that a licensee audit was done in December, 1982 of the B&W ISI Group. At that time B&W was considered an acceptable vendor. To remain on the Qualified Suppliers List, according to the DLC program, the supplier must be evaluated at least once every 18 months. Evidence that a re-evaluation of the B&W ISI Group was done within the 18 month period was not available during this inspection. This item is considered unresolved pending the availability of documentation which will confirm that QA audits of B&W ISI Group were done at the required frequency, and that B&W is a qualified vendor of ISI services (334/84-26-02).

No violations were identified.

8. Unresolved Items

Unresolved items are items about which more information is required to ascertain whether they are acceptable, violations or deviations. Unresolved items are discussed in paragraph 5 and paragraph 7.

9. Exit Interview

The inspector met with licensee representatives (denoted in paragraph 1) at the conclusion of the inspection on November 2, 1984. The inspector summarized the purpose and scope of the inspection and the findings. At no time during this inspection was written material provided by the inspector to the licensee.