

U. S. NUCLEAR REGULATORY COMMISSION

REGION III

Report No. 50-346/88005(DRS)

Docket No. 50-346

License No. NPF-3

Licensee: Toledo Edison Company
Edison Plaza
300 Madison Avenue
Toledo, OH 43652

Facility Name: Davis-Besse Nuclear Power Station, Unit 1

Inspection At: Davis-Besse Site, Oak Harbor, Ohio

Inspection Conducted: February 2-4, 9-11, 23-25,
and March 7-8, 1988

Inspector: *D. H. Danielson*
for K. D. Ward

3/11/88
Date

Approved By: *D. H. Danielson*
D. H. Danielson, Chief
Materials and Processes Section

3/11/88
Date

Inspection Summary

Inspection on February 2-4, 9-11, 23-25, and March 7-8, 1988 (Report No. 50-346/88005(DRS))

Areas Inspected: Routine, unannounced safety inspection of inservice inspection (ISI) activities including review of program (73051), procedures (73052), observation of work activities (73753), and date review (73755).

Results: No violations or deviations were identified.

DETAILS

1. Persons Contacted

The Toledo Edison Company (TECo)

*G. Honma, Licensing - Compliance Supervisor
*E. Caba, Supervisor
*M. Shepherd, Lead ISI Code Specialist
*B. Shingleton, Licensing Engineer
*J. Schultz, Quality Control
C. Daft, Technical Planning Superintendent
J. Singer, Sr. ISI Code Specialist
M. Hurley, Sr. QC Inspector

Nuclear Regulatory Commission (NRC)

D. Kosloff, Resident Inspector
P. Byron, Senior Resident Inspector

Babcock & Wilcox (B&W)

C. Meredith, Task Leader
D. Munson, NDE Level II

Hartford Steam Boiler Inspection and Insurance Co. (HSB)

R. Hogstrum, ANII

The inspector also contracted and interviewed other licensee and contractor personnel.

*Denotes those present at the exit interview.

2. Inservice Inspection (ISI), Unit 1

a. General

- (1) This is the fifth outage of the third period of the first ten year plan.
- (2) B & W is performing the ISI in accordance with ASME Section XI, 1977 Edition, Summer 1978 Addenda.
- (3) All the Ultrasonic Examinations (UT) performed by B & W used the pulse echo UT flaw detection instruments and various angles and MHZ transducers.

b. Programs and Procedures

The NRC inspector reviewed the ISI programs and procedures and found them to be acceptable. Where the rules were determined to be impractical, specific relief was requested in writing. The NRC inspector reviewed the specific relief requests and related documentation.

c. Review of Material, Equipment and Personnel Certifications, and Data

The NRC inspector reviewed documents relating to the following:

- (1) Ultrasonic instruments, calibration block, transducers and couplant certifications.
- (2) Liquid penetrant material certifications.
- (3) Magnetic particle equipment certifications.
- (4) NDE personnel certifications in accordance with SNT-TC-1A.
- (5) Data reports.

d. Observation of Work Activities

The NRC inspector observed work and had discussions with personnel during the ISI activities. These observations included the following:

- (1) Ultrasonic examination of the following welds:
 - (a) Decay heat cooler 1-1 shell to flange weld #6.
 - (b) Pipe weld #SW-C on the High Pressure Injection system.
- (2) Liquid penetrant examination of the following welds:
 - (a) Support lug weld "E" on the high pressure injection pump 1-1. A 1.4" linear indication was found in the base metal of the inlet piping adjacent to the weld. The indication was a result of raised metal caused possibly by a milling operation or left over weld caused by relocation of the lug during construction. The indication was lightly ground to conform to the shape of the pipe. The area was then re-liquid penetrant examined, and ultrasonic examined for wall thickness to verify base metal loss. All the nondestructive examinations were found to be acceptable.
 - (b) Pipe weld #SW-H on the Decay Heat Removal system.
 - (c) Pipe weld #FW-850 on the Makeup and Purification system.

- (3) The ANII observing, documenting, and performing his ISI duties.

No violation or deviation were identified.

3. Modifications

a. Enhanced Feed and Bleed Capability Modification

TECo committed to the NRC to modify the power operated relief valve, makeup system and supporting auxiliaries to provide enhanced feed and bleed capability. This includes installing additional pump suction, discharge, and separate essential cooling pipe lines from the component coolant system.

This modification was being performed in accordance with ASME Section III, 1971 Edition, with no addenda. The NRC inspector reviewed radiographs, NDE and welding reports and other related NDE and welding documents; also observed cutting, welding, and fabrication prior to shut down.

No violations or deviations were identified.

b. Motor Driven Feedwater Pump System Modification

TECo committed to the NRC to modify the motor driven feedwater pump system that will provide the system with an additional source of suction, flow control capability to either steam generator, and capability to power essential auxiliaries (i.e., lube oil pump, motor operated valves) from an emergency diesel generator.

This modification was being performed in accordance with ASME Section III, 1971 Edition, with no addenda, and B31.1, 1986 Edition. The B31.1 and Section III welding were being performed by ASME Section IX welders. The weld rod control and the QC inspections were the same for both B31.1 and Section III. The NRC inspector reviewed weld travellers, NDE reports and procedures, and other related NDE and welding documents; also observed welding, a TECo QC inspector performing a fit-up of two pipes for welding, and fabrication prior to shut down.

No violations or deviations were identified.

4. Exit Meeting

The inspector met with site representatives (denoted in Persons Contacted paragraph) at the conclusion of the inspection. The inspector summarized the scope and findings of the inspection noted in this report. The inspector also discussed the likely informational content of the inspection report with regard to documents or processes reviewed by the inspector during the inspection. The licensee did not identify any such documents/processes as proprietary.