

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

REGION III

Report No. 50-346/81-08

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, Port Clinton, Ohio

Inspection Conducted: April 14, 1981

Inspector: *R. L. Spessard*  
K. D. Ward *for*

4/22/81

Approved By: *R. L. Spessard*  
D. H. Danfelson, Chief *for*  
Materials & Processes Section

4/22/81

Inspection Summary

Inspection on April 14, 1981 (Report No. 50-346/81-08)

Areas Inspected: Eddy current examination (ET) of tubes in steam generator "A"; IE Bulletin 79-03A and 79-13 activities; allegations on welder qualifications. This inspection involved a total of nine onsite inspection-hours by one NRC inspector.

Results: No items of noncompliance or deviations were identified.

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## DETAILS

### Persons Contacted

#### The Toledo Edison Company (TECo)

\*C. Daft, QA Director  
R. Rhodes, QC Supervisor  
R. Schluck, Associate QC Specialist

#### Babcock and Wilcox Company (B&W)

C. Thompson, Group Leader  
S. Taulbee, QC Supervisor

#### The Hartford Steam Inspection and Insurance Company

D. Pfeiffer, Authorized Nuclear Service Inspector (ANII)

The inspector also contacted and interviewed other licensee and contractor employees.

\*Denotes those present at the exit interview.

### Licenses Action on IE Bulletins

- Ref: 1. NRC IE Bulletin 79-03A dated April 7, 1980, titled, "Longitudinal Weld Defects in ASME SA-312 Type 304 Stainless Steel Pipe".
2. TECo letter to NRC dated May 18, 1980, final response to IE Bulletin 79-03A.

(Closed) Unresolved Item (346/80-03-01) - Final written response to IE Bulletin No. 79-13. The inspector reviewed the final response and actions taken for IE Bulletin No. 79-13 for Unit 1 and has no questions at this time.

(Closed) IE Bulletin 79-03A - Inspector reviewed the final response, actions taken and has no questions at this time.

### Functional or Program Areas Inspected

#### 1. Steam Generator Tubes

##### a. General

- (1) April 6, 1981, the reactor was shutdown to repair two tube leaks, tubes one in rows 47 and 48 in steam generator (SG) "A". The leaks were located approximately 12" above the first

support. The tubes were removed from service by stabilizing at the upper tubesheet and explosive<sup>ly</sup> plugging at the lower tubesheet.

- (2) Nuclear Power Generator Division of B&W was contracted to perform eddy current examination of 277 steam generator tubes in accordance with ASME Section XI, 1977 Edition, Summer 1975 Addenda.
- (3) B&W Construction Company was contracted to perform the welding of the two tubes in accordance with ASME Section XI, 1974 Edition, Summer 1975 Addenda.

b. Procedure Review

The inspector reviewed the following procedures:

- (1) B&W, OTSG Tube Plug, 04-3477-00, April 10, 1981
- (2) B&W, Administrative Procedure for Preventive Maintenance of Nondestructive Examination Equipment, ISI-81, Revision 5, March 3, 1981.
- (3) B&W, Multifrequency Examination of OTSG Tubing Using MIZ-12 Instrumentation, ISI-415, Rev. 0, February 15, 1980.
- (4) B&W, Cleanliness Requirements, 9-CP-100, Rev. 1, September 25, 1979
- (5) B&W, Access Control 9-CP-101, Rev. 1, May 23, 1977
- (6) B&W, Procedure of Once Through Steam Generator (OTSG) Explosive Tube Plug Welding, 9-EP-01, Rev. 3, November 11, 1980
- (7) B&W, Performance Qualification of Explosive Welding Operators, 9-EP-02, Rev. 1, November 11, 1980
- (8) B&W Maintenance of Performance Qualification for Explosive Welding Operators, 9-EP-03, Rev. 2, November 11, 1980
- (9) B&W, OTSG Plugging Procedure, MP1401.04, April 11, 1981
- (10) B&W, Personnel Qualification - Radiographic Examination, 9-NDE-100, Rev. 5, December 6, 1979
- (11) B&W, Personnel Qualification - Liquid Penetrant Examination, 9-NDE-102, Rev. 6, December 6, 1979
- (12) B&W, General Procedure for Liquid Penetrant Examination, 9-PT-100, Rev. 2, November 16, 1978

- (13) B&W, Liquid Penetrant Examination of Stabilizer Head to Tube Welds and Tapered Plug to Tubesheet 9-PT-108, Rev. 0, April 10, 1981
- (14) B&W, Quality Assurance/Quality Control Manuals, Policies, Procedures and Instructions, 9-QPP-100, Rev. 3, February 6, 1978.
- (15) B&W, Authority, Responsibility and Organization, 9-QPP-101, Rev. 0, April 10, 1981
- (16) B&W, Procedure for Upgrading Field Construction Procedures 9-QPP-104, Rev. 2, May 19, 1977
- (17) B&W, Disposition of Nonconformities, 9-QPP-111, Rev. 14, May 31, 1979
- (18) B&W, Personnel Qualification - Quality Control Inspections, 9-QPP-126, Rev. 2, October 4, 1977
- (19) B&W, General Procedure for Radiographic Examination, 9-RT-100, Rev. 9, October 22, 1980
- (20) B&W, Radiographic Examination of Weld Test Coupons, 9-RT-104, Rev. 1, December 20, 1979
- (21) B&W, Qualification of Welders, 9-WG-100, Rev. 6, January 30, 1979
- (22) B&W, Visual Examination of Welds on Commercial Nuclear Components, 9-WG-109, Rev. 1, April 22, 1979
- (23) B&W, Fit-Up Inspection of Stabilizer Plugs and Tapered Tubesheet Plugs, 9-WG-110, Rev. 1, April 20, 1978
- (24) B&W, General Procedure for Gas Tungsten Arc Welding, 9-WP-200, Rev. 11, August 2, 1979
- (25) TECo, Once Through Steam Generator Tube Leak Test, PT5183.05, April 11, 1981

c. Material and Equipment Certification

The inspector reviewed the certification documents relative to the following items:

- (1) Liquid penetrant, Magnaflux materials, penetrant, cleaner and developer.

- (2) Eddy current, equipment.
- (3) Inconel 600 had 1/2" and 5/8" diameter.

d. NDE Personnel Certifications

The inspector reviewed the following NDE personnel certifications in accordance with SNT-TC-1A, 1975 Edition:

<u>B&amp;W</u> <u>Name</u>	<u>ET</u>	<u>UT</u>	<u>MT</u>	<u>PT</u>
E. Painter	II			
T. U'Ren	II	II	II	II
T. Richards	Trainee			
J. White	II		II	II
D. Weber	II	II	II	II

e. Observation of Work Activities

The inspector observed the work and had discussions with personnel during review of the following activities:

- (1) Tube leak test in accordance with TECo procedure, "Once Through Steam Generator Tube Leak Test", PT5183.05, April 11, 1981 on T.V.
- (2) Mock up of several SG tubes welded in accordance with B&W procedure "Gas Tungsten Arc Welding", 9-WP-200, Rev. 11, August 2, 1979.
- (3) Welder welding on tubes on T.V.

f. Review of Data Reports

The inspector reviewed data reports demonstrating that the QA/QC requirements were met.

No items of noncompliance or deviations were identified.

2. Allegations on Welder Qualifications

(Closed) 346/80-27-04 Allegations on welder qualifications. The resident inspector was contacted by a contractor employee that made allegations regarding the welders' qualifications for the work performed on Facility Change 79-079 and 80-088.

The inspector reviewed the records for Facility Change 79-079, and determined that welder qualification was not necessary being the job was not covered by welding code requirements.

The inspector reviewed the welder qualification records for Facility Change 80-088 and determined that they were acceptable.

The welds on Facility Change 79-079 and 80-088 were visually examined by the inspector, contractor's quality control inspector and by a TECo quality control inspector and were found to be acceptable.

No items of noncompliance or deviations were identified.

#### Exit Interview

The inspector met with Mr. C. T. Daft at the conclusion of the inspection. The inspector summarized the scope and findings of the inspection noted in this report.