

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

REGION III

Report No. 50-346/77-20

Docket No. 50-346

License No. CPFR-80

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, OH

Inspection Conducted: May 11-13 and 18-20, 1977

Inspector:

C. C. Williams
C. C. Williams

7/18/77

date signed

Approved by:

D. W. Hayes
D. W. Hayes, Chief
Projects Section

7/18/77
date signed

Inspection Summary

Inspection on May 11-13 and 18-20, 1977, (Report No. 50-346/77-20)

Areas Inspected: (1) System interaction EIR's for halls and corridors; (2) large and small pipe, hangers, and anchors; (3) HVAC system rework activities; (4) steam generator level switch modification; (5) rework small Class 1 and Class 2 valves; (6) plant final documentation control; and (7) status of penetration sealing activity. The inspection involved 43 inspector-hours by one NRC Inspector.

Results: No items of noncompliance, deviation, nor unresolved matters were identified.

8002050711

DETAILS

Persons Contacted

Principal Licensee Employees

- *L. E. Roe, Vice President
- *J. D. Lenardson, Quality Assurance Manager
- *K. E. Blanchon, Construction Supervisor
- *G. E. Eichenauer, Quality Assurance Engineer
- *D. A. Poage, Quality Assurance Engineer
- *E. M. Wilcox, Quality Assurance Supervisor
- *D. Mominee, Quality Assurance Engineer

Other Personnel

- *C. L. Huston, Field Construction Manager (Bechtel)
- *R. Rosenthal, Project Manager (Bechtel)
- *W. C. Lowery, Quality Assurance Engineer (Bechtel)
- D. Hughes, Quality Control Inspector (Bechtel)

The inspector also contacted and interviewed other licensee, Bechtel, and contractor employees, including members of the quality, technical, and engineering staffs.

*denotes those attending the exit interview (May 20, 1977).

Licensee Action on Previous Inspection Findings

None identified.

Functional or Program Areas Inspected

1. System Interaction - EIR's 5000 and 8000 (50-346/77-19)

This matter (EIR's for halls and corridors) is closed. As previously reported, this reinspection and rework activity was incomplete. The incomplete issues were divided into two separate areas of consideration relative to their need to be completed for various modes of plant operation. Those issues identified for mode 5 plant operation were completed and resolved during the previous inspection (50-346/77-19).

During this inspection, those EIR's identifying issues within the halls and corridors were inspected. Forty-seven of these subject EIR's required completion prior to mode 4, plant operation (hot

shutdown), and had made a condition of the license (Items C.7.(a) and C.7.(b), Attachment 2). The inspector verified that this work has been satisfactorily completed. This was accomplished through observation of the as-built components, comparison to the design documents, and examination of the engineering evaluations. Approximately 50 items (seismic supports for electrical conduit, etc.) identified on four EIR's were examined. No discrepancies were noted.

Examples of the documents and EIR's review are as follows:

a. EIR No. 5536

Drawing No. HSC-106-5-H, Revision 3
Drawing No. HSC-55-2-H, Revision 4
Drawing No. HSC-106-1-H, Revision 3
Drawing No. HSC-104-9-H, Revision 0
Drawing No. HSC-55-1-H, Revision 0
Drawing No. HSC-108-2-H, Revision 0

b. EIR No. 5446/Closure Letter No. 5635

Drawing No. CS-4189-422A-37, Conduits No. 46747C and
No. 57130A.

The final documentation package assembled by Bechtel was also examined. No discrepancies were noted.

2. Large and Small Pine Hangers and Anchors (50-346/77-19)

The matter is closed. As previously reported, satisfactory resolution of this issue and verification by the NRC was made a condition of the plant operation license (Items C.3 and C.4, Attachment 2). During this inspection, the inspector examined the final documentation relative to this issue. Further, the inspector verified that the as-built configuration of the subject hangers and anchors met the design requirements. This was accomplished by a walk-down inspection involving observations

No significant deficiencies were noted.

Examples of items involved in this effort are as follows:

Hanger No. 6-C-EBB-4-H-14
Hanger No. 3A-EBD-19-H-86
Hanger No. 6C-EBD-14-H-95
Hanger No. 6C-EBD-4-H-H
Hanger No. 3A-EBB-2-H-6
Hanger No. 30-CCC-8-H-9
Hanger No. CCB-27-4-H
Hanger No. EBB-5-5-H
Hanger No. HCB-33-2-H

3. Heating Ventilation and Air Conditioning System (50-346/77-19)

This matter is closed. As previously reported, satisfactory resolution of this matter was made a condition of the plant operating license (Item C.2, Attachment 2). The only aspect of this rework remaining to be completed and verified and was the completion and turnover of final documentation.

During this inspection, the inspector reviewed the final record packages for this work. No discrepancies were disclosed. The drawings and associated engineering instruction were verified to be in accordance with the requirements.

4. Steam Generator Level Switch Modification

This matter is closed. Satisfactory resolution of this matter was made a condition of the plant operating license (Item E.1, Attachment 2). This matter involved a required modification to replace the four level switches in each steam generator inside containment with four level transmitters. This modification has been satisfactorily completed. The inspector verified this through examination of the modification records and observation of components.

The following documents are examples of those reviewed during the inspection:

- a. System Revision Notice (SRM) No. 197J
- b. Construction Work Permit (CWP) No. 63-I&C-60 Start-up System No. 63A (steam generator)
- c. CWP No. 63-I&C-81
- d. Design Document No. 3-167, Sheet 2 of Revision 6

- e. CWP No. 63-E-82
- f. Design Document No. E164A
- g. CWP No. 63-I&C-76
- h. SRM No. 197E
- i. Revised SRN No. 197E.

5. Rework Small Class 1 and Class 2 Valves (50-346/77-19)

This item is resolved. As previously reported, this matter and its satisfactory completion and verification by NRC inspection was made a condition of the plant operating license (Item D.1, Attachment 2). During this inspection, the inspector examined and reviewed the final data package and release of the four remaining valves (CS-21, CS-22, DA-38, and CV-117). No discrepancies were noted.

6. Plant Final Documentation

During this inspection the inspector examined the implementation of TECo procedures for the control of permanent plant records. This effort involves Bechtel's acquisition of plant records from the site contractors, Bechtel and TECo QA/QC review of these records and the establishment of interim storage.

The inspector reviewed the final documentation package for the "Instrument and AC Power System" start-up system No. 17. No discrepancies were noted.

This overall work effort is approximately 55% complete. This matter will be reviewed during subsequent NRC inspections.

7. Penetration and Blockout Sealant-BISCO (50-346/77-19)

This work remains incomplete. Penetrations and blockouts in certain safety related areas of the plant have been completed, and verified by the NRC inspector to be in conformance with the requirements. These areas include: (a) control room, (b) cable spreading room, (c) switchgear room, (d) emergency diesel rooms, etc. The licensee is now concentrating the sealant work activity in those areas involving the "negative pressure boundary".

Completion of penetration sealant activity within the "negative pressure boundary" areas is a prerequisite for the emergency ventilation system test. The licensee made a commitment to NRR to complete TP 110.01, "Emergency Ventilation System Test" prior to entering operational mode 4. This commitment is contained in TECo/NRR letter dated February 22, 1977.

The licensee's representatives indicated that a routine over time work effort is being made to complete this work.

This matter will be reviewed during subsequent NRC inspections.

Exit Interview

The inspector met with site staff representatives (denoted under Persons Contacted) at the conclusion of the inspection on May 20, 1977, the inspector summarized his inspection findings. The licensee acknowledged the the findings reported herein.