

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

REGION III

Report No. 50-346/81-21

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 Generating Plant, Unit 1

Inspection At: Oak Harbor, OH

Inspection Conducted: October 28-29, 1981

Inspector: R. B. Landsman

RB Landsman

11-12-81

Approved By: *FCH* F. C. Hawkins, Acting Chief
Plant Systems Section

11/12/81

Inspection Summary

Inspection on October 28-29, 1981 (Report No. 50-346/81-21)

Areas Inspected: Licensee action relative to Bulletin No. 80-11, "Masonry Wall Design." The inspection involved a total of eight inspector-hours onsite by one NRC inspector.

Results: No items of noncompliance or deviations were identified.

DETAILS

Persons Contacted

Toledo Edison Company (TED)

- *T. Murray, Station Superintendent
- *C. L. Mekbel, Civil and Structural System Engineer
- *R. A. Link, Associate Engineer
- B. J. Werner, Administrative Coordinator

Bechtel

- *E. J. Ray, Assistant Project Engineer
- *J. M. Ogle, Civil Group Supervisor

Nuclear Regulatory Commission

- L. Reyes, Senior Resident Inspector
- *W. Rogers, Resident Inspector

*Denotes those attending exit interview on October 29, 1981.

Functional or Program Areas Inspected

The TED response to IE Bulletin No. 80-11, "Masonry Wall Design," which required a re-evaluation of constructed masonry block walls, was reviewed as follows:

1. Identification

The licensee surveyed all plant areas to identify masonry walls which were in proximity to or have attachments from safety-related equipment such that wall failure could have affected a safety-related system. A total of 267 masonry walls were identified with 169 having safety-related ramifications. The survey, which was accomplished by teams of two or three qualified personnel, was initiated on May 27, 1980, and completed on September 5, 1980. Field sketches were constructed. These sketches were then re-drafted to scale by Bechtel - Gaithersburg, and used for re-analysis work.

2. Re-Evaluation Priority

The licensee scheduled an appropriate re-evaluation program according to the following in descending order:

- a. Large safety-related pipe and large conduit
- b. Large safety-related pipe only
- c. Large safety-related conduit only

- d. Other safety-related components by number of those components
- e. Non-safety-related large pipe and large conduit
- f. Large non-safety-related pipe
- g. Large non-safety-related conduit
- h. Other non-safety-related components by number of those components
- i. No attachments related to station operation

3. Wall Function and Construction

The primary functions of the masonry walls are to act as fire, radiation shielding, negative pressure and flood barriers. The licensee adequately described the construction details of the walls. Adequate inspection and quality control measures were taken at the time of construction to ensure that no significant weaknesses were permitted in the walls.

4. Wall Modification

This investigation indicated that out of the 169 walls which were analyzed, 36 did not meet the licensee's acceptance criteria: twenty-eight of the walls will be modified; six are already removed and are being replaced with fireproofing; and the remaining two will be removed and replaced with impingement barriers. Of the 28 walls needing modification, four are complete, four are under construction, and the remaining 20 are in various states of modification material procurement.

The inspector examined 35 of these walls and determined that the wall descriptions were accurate and the repairs were being done accordingly.

Exit Meeting

The inspector met with licensee representatives (denoted under Persons Contacted) at the conclusion of the inspection on October 29, 1981. The inspector summarized the purpose and findings of the inspection.