



UNITED STATES
ATOMIC ENERGY COMMISSION
DIVISION OF COMPLIANCE
REGION III
799 ROOSEVELT ROAD
GLEN ELLYN, ILLINOIS 60137

November 5, 1971

Toledo Edison Company
ATTN: Mr. Glenn J. Sampson
Vice President, Power
420 Madison Avenue
Toledo, Ohio 43601

Docket No. 50-346

POOR ORIGINAL

Gentlemen:

This refers to the inspection conducted by Messrs. Hayes, Jones, and Rohrbacher of this office on October 13 - 15, 1971, of construction activities at the Davis-Besse construction site authorized by AEC Construction Permit No. CFR-80 and to the discussions of our findings at the conclusion of the inspection with you and Messrs. Roe, Wadsworth, Leonardson, and others of your staff.

Areas examined during the inspection included concrete placement practices, sampling location for pumped concrete strength cylinders, Class I valve design verification, the reactor shield building wall plumbness, concrete strength cylinder curing practices, fabrication of the spent fuel pool liner, the containment vessel support structure, and QC systems for the containment vessel fabrication, electrical installation, and Class I piping. Within these areas, the inspection consisted of selective examination of procedures and representative records, interviews with plant personnel, and observations by the inspectors.

The inspectors examined action you have taken with respect to the items identified in your letter of September 22, 1971, relating to matters previously brought to your attention. Based on our examination of these matters, we have no further questions at this time.

During the current inspection, it was found that one of your activities appears to be in noncompliance with 10 CFR 50, Appendix B, and another in nonconformance with statements in the Preliminary Safety Analysis Report. The items and references to the pertinent requirements are listed in the enclosure to this letter. Please provide us in writing, within 30 days, with your comments concerning these items, any steps which have been or will be taken to correct them, any steps that have been or will be taken to prevent recurrence, and the date all corrective

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action or preventive measures were or will be completed. Your reply should emphasize, in particular, any appropriate changes that have been or will be made to improve the effectiveness of your quality assurance program.

With regard to questions raised during the inspection, we understand that you intend to (1) obtain additional information, for review by our inspector, concerning verification that Class I valve body castings have been measured to verify that calculational and design requirements have been met and (2) that you will include shield building wall plumbness tolerance discrepancies, i.e., "as-built" information, in the Final Safety Analysis Report. Our inspector will examine your action on these matters during future inspections.

If you have any questions concerning this inspection, we will be glad to discuss them with you.

Sincerely yours,

Boyce H. Grier
Regional Director

Enclosure:
Description of Items of
Noncompliance and Nonconformance

cc: L. E. Roe, Project Engineer
N. L. Wedsworth, General
Superintendent
J. A. Lennardson, QA Engineer

bcc: J. B. Henderson, CO (5)
A. Giambusso, CO
L. Kornblith, CO
R. H. Engelken, CO
DR Central Files

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ENCLOSURE

Docket No. 050-346

Certain activities under your construction permit appear to be in nonconformance with statements in the PSAR or in noncompliance with 10 CFR 50, Appendix B, as identified below.

1. The Preliminary Safety Analysis Report, Section 5, Paragraph 5.2.2.4.1, states, in part, "All concrete work will be in accordance with ACI-318-63, 'Building Code Requirements for Reinforced Concrete' and ACI-301, 'Specifications for Structural Concrete for Buildings.' . . ." ACI Standard 301, Chapter 16, Testing, Paragraph 1602, Testing Services, states in regard to strength tests for concrete that . . . "When pumping or pneumatic equipment is used, samples shall be taken at the discharge end."

Contrary to the above, strength samples for pumped concrete were being taken at the batch plant rather than at the pump discharge.

2. 10 CFR 50, Appendix B, Section V, states in part, that: "Activities affecting quality shall be prescribed by documented instructions, procedures, or drawings of a type appropriate to the circumstances and shall be accomplished in accordance with these instructions, procedures, or drawings."

Contrary to the above, documented instructions were not followed during the placement of concrete under the containment vessel (Pour No. 397). Concrete was deposited on the upward side of a sloping form and was allowed, or caused to flow, well in excess of the five-foot limit imposed by Bechtel's Specification No. 7749-C-26A, Paragraph 6.7. Moreover, vibrators were observed being used in a manner inconsistent with the recommendations of ACI-614, that is, surface horizontal applications which could lead to excessive segregation of concrete.

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DIVISION OF COMPLIANCE
MONTHLY REPORT FOR OCTOBER 1971

50-346

Toledo Edison Company (Davis-Besse) - A CO inspection was conducted on October 13-15. The inspection included a review of the QC system, QC records, and observation of work concerning the concrete quality for Class I structures. One item of apparent nonconformance was identified concerning sampling of pumped concrete. This item is being evaluated for possible enforcement action.

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