Mr. John P. Stetz Vice President - Nuclear, Davis Besse Centerior Service Company c/o Toledo Edison Company Davis-Besse Nuclear Power Station 5501 North State Route 2 Oak Harbor, OH 43449

SUBJECT: RESPONSE TO THE FOLLOWUP TO THE REQUEST FOR ADDITIONAL INFORMATION

REGARDING GENERIC LETTER 92-08 - DAVIS-BESSE NUCLEAR POWER STATION,

UNIT NO. 1 (TAC NO. M85542)

Dear Mr. Stetz:

We have reviewed Toledo Edison Company's responses of December 8, 1994, March 22, 1995, and June 13, 1995, to the requests for additional information (RAI) of September 15, 1994, and December 23, 1994, respectively, regarding Generic Letter 92-08, "Thermo-Lag 330-1 Fire Barriers." The licensee was required, pursuant to Section 182A of the Atomic Energy Act of 1954, as amended, and 10 CFR 50.54(f), to submit written reports, under oath of affirmation, that provided the information specified in the RAIs.

On the basis of our review, we have determined that your responses to the RAIs are incomplete. The specific areas where we found the licensee's responses to be incomplete are discussed in the enclosure. You are requested to inform us within 30 days of receipt of this letter when you plan to submit a description of the anticipated analytical methodology including typical calculations which will be used to determine the ampacity derating parameters for the Thermo-Lag fire barriers.

Should you have any questions, please contact me at (301) 415-1380 or Mr. Ronaldo Jenkins of the Electrical Engineering Branch at (301) 415-2985.

Sincerely,

Original Signed By: Linda L. Gundrum, Project Manager Project Directorate III-3 Division of Reactor Projects III/IV Office of Nuclear Reactor Regulation

Docket No. 50-346

Enclosure: Request for Additional Information

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\*See previous concurrence

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### UNITED STATES NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20585-0001

October 11, 1995

Mr. John P. Stetz Vice President - Nuclear, Davis Besse Centerior Service Company c/o Toledo Edison Company Davis-Besse Nuclear Power Station 5501 North State Route 2 Oak Harbor, OH 43449

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Sincerely,

Linda L. Gundrum, Project Manager

Londa L. Lundrum

Project Directorate III-3

Division of Reactor Projects III/IV Office of Nuclear Reactor Regulation

Docket No. 50-346

Enclosure: Request for Additional Information

Mr. John P. Stetz Toledo Edison Company

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Mr. James W. Harris, Director Division of Power Generation Ohio Department of Industrial Regulations P. O. Box 825 Columbus, Ohio 43216

Ohio Environmental Protection Agency DERR--Compliance Unit ATTN: Zack A. Clayton P. O. Box 1049 Columbus, Ohio 43266-0149

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Adjutant General's Department
Office of Emergency Management Agency
2825 West Granville Road
Columbus, Ohio 43235-2712

President, Board of County Commissioners of Ottawa County Port Clinton, Ohio 43452

# FOLLOWUP REQUEST FOR ADDITIONAL INFORMATION REGARDING

## GENERIC LETTER 92-08

### "THERMO-LAG 330-1 FIRE BARRIERS"

#### DAVIS-BESSE NUCLEAR POWER STATION

#### DOCKET NO. 50-346

## 1.0 REQUEST FOR ADDITIONAL INFORMATION OF SEPTEMBER 15, 1994

In the RAI of September 15, 1994, the NRC staff requested information regarding important barrier parameters, Thermo-Lag barriers outside the scope of the NEI program, ampacity derating, alternatives, and schedules.

In its submittal of December 8, 1994, the licensee asserted that there are unresolved technical issues in the ampacity derating area. The licensee stated that it would continue to follow developments in the resolution of this issue.

During a public meeting on March 14, 1995, with the licensees for the four lead plants for the resolution of Thermo-Lag issues, the staff responded to the question, "Will the resolution of the ampacity derating concern be deferred until agreement is reached on the appropriate testing protocol (i.e., IEEE P848)?" The staff reiterated its position, which was previously stated in the September 1994 RAI, that the ampacity derating concern could be resolved independently of the fire endurance concerns. After a review of the tests performed under the draft IEEE standard P848, the staff transmitted comments which were designated to ensure the repeatability of test results to the IEEE working group responsible for the test procedure. The licensee is requested to submit its ampacity derating evaluations, including any applicable test reports, in order to provide an adequate response to Generic Letter 92-08 reporting requirement 2(c).

## 2.0 REQUEST FOR ADDITIONAL INFORMATION OF DECEMBER 23, 1994

In the RAI of December 23, 1994, the staff requested information describing the examinations and inspections that will be performed to obtain the important barrier parameters for the Thermo-Lag configurations installed at Davis-Besse. The licensee did not address in detail their ampacity derating plans in its submittal of March 22, 1995. In addition to the assertion that there are unresolved technical issues, the licensee stated in their submittal of June 13, 1995, that plant-specific calculations using data provided by the Thermo-Lag manufacturer indicate that ampacity derating is not expected to be a concern for applicable circuits at Davis-Besse Nuclear Power Station.

On May 18, 1995, members of the NRC staff held a telephone conference call with Nuclear Energy Institute (NEI) on ampacity derating issues for Thermo-Lag fire barriers. The staff indicated that the latest IEEE P848 draft procedure can be used by licensees or NEI as the basis for an ampacity derating test program. NEI agreed to review the Comanche Peak Steam Electric Station Unit 2 Safety Evaluation (SE) in order to develop a generic test program. The memorandum dated May 22, 1995, which documents the subject telephone conference meeting, is attached for your information. In addition, a copy of the subject SE dated June 14, 1995, was sent to those licensees who rely on Thermo-Lag installations.

Please submit prior to the final resolution of the Thermo-lag 330-1 issue a description of the anticipated analytical methodology including typical calculations which will be used to determine the ampacity derating parameters for the Thermo-Lag fire barriers that are installed at the Davis-Besse Nuclear Power Station.

Attachment: As stated.

May 22, 1995

NOTE TO: Brian W. Sheron, Director, DE, NRR

FROM: Carl H. Berlinger, Chief, EELB, DE, NRR

SUBJECT: MEMORANDUM OF RECORD

On May 18, 1995, members of the NRC staff (B. Sheron, C. Berlinger, P. Gill, M. Gamberoni and R. Jenkins) held a telephone conference call with Mr. Alex Marion and Mr. Biff Bradley of the Nuclear Energy Institute (NEI) on ampacity derating issues for Thermo-Lag fire barriers. Mr. Marion contacted the staff regarding two topics: (1) Status of the Safety Evaluation (SE) on the Comanche Peak Steam Electric Station (CPSES), Unit 2 Ampacity Derating Test Program; and (2) Staff Acceptance of the IEEE Standard P848, "Procedure for the Determination of the Ampacity Derating of Fire Protected Cables."

Dr. Berlinger stated that the subject SE for CPSES 2 had been completed and we expected that it will be transmitted to the licensee within the next two weeks. Dr. Borlinger agreed to notify Mr. Marion by phone after the SE had been issued by the staff. Due to potential generic applications the staff will provide a copy of the CPSES, Unit 2 SE to licensees with Thermo-Lag fire barriers.

The staff has been interfacing with the IEEE Task Force responsible for IEEE P848 over the last 2 years to improve the subject procedure. This effort has resulted in recent revisions to the subject procedure which addressed the majority of the concerns raised by EELB (reference: Letter dated 10/13/94 from C. Berlinger to A. K. Gwal). Although not all of the concerns were addressed by the IEEE Task Force Dr. Berlinger indicated that the latest IEEE P848 draft procedure can be used by licensees or NEI as the basis for an ampacity derating test program. The latest procedure revision (Draft 16) addresses the major test concerns regarding inductive heating and conduit surface emissivities effects.

The staff emphasized that licensees should submit the actual test procedures or plans to the staff for comment. After discussion of the various options to develop a generic test program NEI agreed to review the CPSES 2 SE and then contact the staff as necessary for further discussions or questions on this matter.

cc: Alex Marion, NEI

CONTACT: Ronaldo Jenkins, EELB/DE

415-2985

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