December 28, 1995

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

SUBJECT: REQUEST FOR INFORMATION ON FIRE BARRIER PENETRATIONS FOR FACILITY OPERATING LICENSE NO. NPF-3 - DAVIS-BESSE NUCLEAR POWER STATION, UNIT NO. 1 (TAC NO. M94335)

Dear Mr. Stetz:

Information is needed to address several questions that we are trying to resolve on fire barrier penetrations installed in response to NRC requirements at the Davis-Besse Nuclear Power Station. The specific information requested is enclosed. These questions were discussed with your staff on December 21, 1995. Please respond by February 29, 1996.

This request for information affects nine or fewer respondents and, therefore, is not subject to the Office of Management and Budget review under Public Law 96-511.

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 Information

cc w/encl: See next page

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

December 28, 1995

Mr. John P. Stetz
Vice President - Nuclear
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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Linda L. Gundrum

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

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cc w/encl: See next page

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Port Clinton, Ohio 43452

REQUEST FOR INFORMATION BY THE
OFFICE OF NUCLEAR REACTOR REGULATION
FOR THE DAVIS-BESSE NUCLEAR POWER STATION
DOCKET NO. 50-346

1. Are or have there ever been additives or filler materials (e.g., lead or iron oxide) used to impart special properties (e.g., radiation protection) in the fire barrier penetration seals installed at Davis-Besse? If so, provide answers to the following questions:

   a. What materials were used and in what types of seals?

   b. Were controls and specifications in place to ensure that the materials were of sufficient quality (e.g., free of sulphur contamination) to preclude seal curing and cold flow problems?

   c. How was the amount of material added to a seal controlled during installation?

   d. Was the amount and distribution of material within the seal verified following installation? If so, how?

   e. Would the fire barrier penetration seal inspection and surveillance procedures identify possible seal curing problems and/or cold flow conditions?

   f. Have any cold flow conditions or seal curing problems been identified? If so, to what extent, in what types of seals, and what corrective actions were taken?

2. Do the large combination fire and pressure penetration seals that were installed by Brand Industrial Services Company (BISCO) at Davis-Besse during the late 1970's still exist? If so, provide the following information:

   a. Describe the seals and verify whether or not they consist of silicone elastomer sandwiched between silicone foam.

   b. Provide the design information and installation documentation that verifies the material composition (i.e., silicone foam, silicone elastomer, or combination) of the seals.

   c. Verify that the seal designs were qualified as fire rated assemblies and adequate pressure seals by appropriate tests and describe the test methods and test acceptance criteria.