

July 7, 1988

Docket No. 50-346  
Serial No. DB-88-032

Mr. Donald C. Shelton  
Vice President, Nuclear  
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Dear Mr. Shelton:

SUBJECT: ENVIRONMENTAL ASSESSMENT RELATED TO APPLICATION TO REVISE REACTOR  
PRESSURE VESSEL PRESSURE-TEMPERATURE OPERATING LIMITS AND  
SURVEILLANCE REQUIREMENTS (TAC 66699)

Enclosed for your information is a copy of an Environmental Assessment and Finding of No Significant Impact. This assessment is related to the license amendment requested in your application dated March 30, 1988 (No. 1490) as supplemented by your letter dated May 4, 1988 (No. 1510) which relates to revision of the reactor pressure vessel pressure-temperature operating limits and associated irradiation surveillance capsule requirements. This Environmental Assessment has been forwarded to the Office of the Federal Register for publication.

Sincerely,

*151*

Albert W. De Agazio, Sr. Project Manager  
Project Directorate III-3  
Division of Reactor Projects - III,  
IV, V, and Special Projects

Enclosure:  
As stated

cc: See next page

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Date: 6/18/88  
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PM/PDIII-3  
ADeAgazio/tg  
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PD/PDIII-3  
KPerkins  
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*CPW*  
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noted deletion*

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Mr. Donald C. Shelton  
Toledo Edison Company

Davis-Besse Nuclear Power Station  
Unit No. 1

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U.S. NUCLEAR REGULATORY COMMISSION  
TOLEDO EDISON COMPANY  
THE CLEVELAND ELECTRIC ILLUMINATING COMPANY  
DOCKET NO. 50-346  
ENVIRONMENTAL ASSESSMENT AND  
FINDING OF NO SIGNIFICANT IMPACT

The U. S. Nuclear Regulatory Commission (the Commission) is considering issuance of an amendment to Facility Operating License No. NPF-3, issued to Toledo Edison Company and The Cleveland Electric Illuminating Company (the licensees), for operation of the Davis-Besse Nuclear Power Station, Unit No. 1 located in Ottawa County, Ohio.

ENVIRONMENTAL ASSESSMENT

Identification of Proposed Action

The proposed amendment would revise the provisions in the Davis-Besse Nuclear Power Station, Unit No. 1, Technical Specifications (TS's) relating to the Reactor Coolant System (RCS) pressure-temperature operating limits and the Reactor Vessel Material Surveillance Program in accordance with Toledo Edison Company's application dated March 30, 1988.

Specifically, the proposed amendment would:

(1) reflect the changes in the RCS pressure-temperature operating limits during heatup, cooldown and inservice leak and hydrostatic tests to accommodate operation to 10 Effective Full Power Years (EFPY),

(2) reflect changes to the Low Temperature Overpressurization (LTOP) mitigation measures to ensure continued protection against LTOP events to 10 EFPY, and

(3) delete specific details regarding surveillance requirements and surveillance capsule withdrawal schedule of the Reactor Vessel Material Surveillance Program in favor of referencing a previously NRC-approved document (BAW-1543A) for these program details.

#### The Need for the Proposed Action

The proposed changes are needed to support station operation beyond 5 EFPY by imposing new RCS pressure-temperature limitations and LTOP mitigation measures.

#### Environmental Impacts of the Proposed Action

The Davis-Besse reactor coolant system consists of mechanical piping and motive force to circulate reactor coolant between the reactor, where energy is added to the coolant, and the steam generators, where energy is removed from the coolant. The reactor vessel is an integral part of the RCS, and in order for the coolant to reach the core, the integrity of the reactor vessel must be maintained. The proposed changes will revise the pressure-temperature limits to reflect actual changes in the reactor vessel material due to neutron irradiation and will assure that the reactor is operated conservatively. The changes to the Reactor Vessel Material Surveillance Program are consistent with previous staff determination and ensure reactor vessel properties are periodically monitored to ascertain potential embrittlement effects.

The Commission has evaluated the environmental impact of the proposed amendment and has determined that post-accident radiological releases would not be greater than previously determined. Neither does the proposed amendment otherwise affect radiological plant effluents during normal operation.

Therefore, the Commission concludes that there are no significant radiological environmental impacts associated with this proposed amendment.

With regard to potential nonradiological impacts, the proposed amendment involves changes in the operating procedures for station heatup, cooldown and inservice leak and hydrostatic tests, and in the evaluation of the reactor vessel material properties. It does not affect nonradiological plant effluents and has no other environmental impact. Therefore, the Commission concludes that there are no significant nonradiological environmental impacts associated with the proposed amendment.

The Notice of Consideration of Issuance of Amendment and Opportunity for Hearing in connection with this action was published in the Federal Register on May 4, 1988 (53 FR 15932). No request for hearing or petition for leave to intervene was filed following this notice.

#### Alternatives to the Proposed Action

Since the Commission has concluded that the environmental effects of the proposed action are not significant, any alternative with equal or greater environmental impacts need not be evaluated.

The principal alternative would be to deny the requested amendment. This would not reduce the environmental impacts attributable to this facility and would result in operation being terminated at the end of 5 EFY.

#### Alternative Use of Resources

This action does not involve the use of resources not previously considered in the Final Environmental Statement related to operation of the Davis-Besse facility.

#### Agencies and Persons Consulted

The Commission's staff reviewed the licensee's request and did not consult other agencies or persons.

FINDING OF NO SIGNIFICANT IMPACT

The Commission has determined not to prepare an environmental impact statement for the proposed amendment.

Based upon the foregoing environmental assessment, we conclude that the proposed action will not have a significant effect on the quality of the human environment.

For further details with respect to this action, see the application for amendment dated March 30, 1988, which is available for public inspection at the Commission's Public Document Room, 1717 H Street, N.W., Washington D.C., and at the University of Toledo Library, Documents Department, 2801 Bancroft Avenue, Toledo, Ohio 43606.

Dated at Rockville, Maryland, this 7th day of July, 1988.

FOR THE NUCLEAR REGULATORY COMMISSION

A handwritten signature in dark ink, appearing to read "Kenneth E. Perkins". The signature is fluid and cursive, with the first name "Kenneth" being more prominent and the last name "Perkins" following in a similar style.

Kenneth E. Perkins, Director  
Project Directorate III-3  
Division of Reactor Projects - III,  
IV, V and Special Projects