

June 10, 1988

Docket No. 50-346  
Serial No. DB-88-028

Mr. Donald C. Shelton  
Vice President - Nuclear  
Toledo Edison Company  
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Dear Mr. Shelton:

SUBJECT: ENVIRONMENTAL ASSESSMENT RELATED TO APPLICATION TO DELETE  
CONTAINMENT ISOLATION TIME AND SFAS SIGNAL FROM STEAM SYSTEM  
VALVES (TAC#65685)

Enclosed for your information is a copy of an Environmental Assessment and Finding of No Significant Impact. This assessment relates to your application dated August 7, 1987 (Serial No. 1400) for changes to the Technical Specifications to permit deletion of Safety Features Actuation System (SFAS) manual and automatic signals to certain steam system valves. The changes would also permit removal of associated response and isolation time requirements from the Technical Specifications.

This Environmental Assessment has been forwarded to the Office of the Federal Register for publication.

Sincerely,

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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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Surname: PKreutzer  
Date: 5/25/88

PM/PDIII-3  
ADeAgazio/tg  
5/28/88

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KPerkins  
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OGC ✓ HZ  
S H Lewis  
6/12/88

6/10/88

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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 involves removing all Safety Features Actuation System (SFAS) and Containment Isolation Technical Specifications (TS) closure time requirements from all the valves attached to the steam sides of the steam generators. Specifically, the proposed amendment, submitted by application dated August 7, 1987, would revise the TS Section 3/4.3.2, Table 3.3-5 by:

- (1) deleting the requirement for manual and automatic SFAS high containment pressure and low reactor coolant pressure signals to the atmospheric vent valves (AVV) and main steam warm-up drain valves, and
- (2) deleting the requirement for manual and automatic SFAS high-high containment pressure signals to the main steam line valves, main feedwater valves, and main steam warm-up valves.

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The proposed amendment would also revise TS Section 3/4.6.3, Table 3.6-2 by deleting the required isolation times for the above-listed valves, and for the steam generator blowdown valves. With the exception of the blowdown valves, which would be deleted entirely from the TS's, the valves would be moved from Section A (Containment Isolation Valves) to Section C (Other) of Table 3.6-2.

#### The Need for the Proposed Action

The changes proposed are needed to support facility modifications which are planned to improve the reliability and availability of the main feedwater system, and to minimize challenges to the auxiliary feedwater system.

#### Environmental Impacts of the Proposed Action

During normal operation of Davis-Besse, the main steam warm-up drain valves and the atmospheric vent valves are normally closed. The Level 2 SFAS close signal (high containment pressure or low reactor coolant pressure) only serves as a backup to the procedural requirement to maintain these valves closed. The remaining valves involved with the proposed deletion of SFAS input would be closed by a Level 4 SFAS signal (high-high containment pressure).

A Level 4 SFAS signal can only be caused by a large break loss-of-coolant accident (LOCA). Such an accident would cause the Reactor Coolant System (RCS) to depressurize rapidly to a value below the saturation pressure on the steam system side of the steam generators effectively sealing them as a leakage path from the RCS. When the pressure falls below 600 psig, a Steam and Feedwater Rupture Control System (SFRCS) trip will occur, and the steam generator isolation valves associated with main feedwater and main steam (including the blowdown valves) will close, and the remaining valves not closed by automatic action

can be closed by manual action by the operators. Furthermore, since the containment pressure will never exceed the pressure in the steam generator and steam system, leakage to the environment will be prevented.

The Commission has evaluated the environmental impact of the proposed amendment and has determined that there would be no increase in any radiological effluents offsite. The Commission has also determined that the probability of accidents has not been increased by the proposed changes and that post-accident radiological releases would not be greater than previously determined. Neither does the proposed amendment otherwise affect radiological plant effluents. 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 to requirements with respect to the installation or use of a facility component and a change to a surveillance requirement. The staff has determined that the amendment involves no significant increase in the amounts and no significant change in the types of any effluents that may be released offsite. 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 January 6, 1988 (53 FR 294). 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 alternatives 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. Denial of the action would prevent planned plant modification to improve the reliability and availability of main feedwater and to minimize challenges to the auxiliary feedwater system.

#### 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 August 7, 1987, 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 10 th day of June 1988.

FOR THE NUCLEAR REGULATORY COMMISSION

A handwritten signature in black ink, appearing to read "Kenneth E. Perkins". The signature is fluid and cursive, with a large initial "K" and a stylized "P".

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