

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 Technical Specifications (TS's) relating to Steam and Feedwater Rupture Control System Instrumentation in accordance with Toledo Edison Company's application dated January 28, 1988. Specifically, the proposed amendment would delete references to 8 of 16 pressure switches used to initiate the Steam and Feedwater Rupture Control System on Low Steam Generator pressure.

The Need for the Proposed Action

The proposed changes are needed to reflect the configuration being implemented by the licensee wherein 8 of 16 currently used low pressure switches will no longer be in use. Currently, two pressure switches per steam line provide input to each logic channel. Actuation of either of these pressure

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switches will trip the logic channel. There are two redundant logic channels for each independent Steam and Feedwater Rupture Control System actuation channel. The proposed amendment would reduce the number of pressure switches so that only one pressure switch per steam line would provide input to each logic channel. The total number of channels, channels to trip, minimum channels operable, and required action would remain unchanged. This reduction in the number of switches will decrease the probability of spurious actuations of the Steam and Feedwater Control System.

Environmental Impacts of the Proposed Action

The Davis-Besse Steam and Feedwater Rupture Control System is designed to mitigate the consequences of a main steam or main feedwater line break. The low pressure switches provide a means of detecting rupture of main steam or main feedwater piping. This reduction in the number of switches will not increase the likelihood or consequences of an accident since the switches being removed are redundant. Following the reduction in the number of pressure switches, there will be one pressure switch for each steam line in each logic channel. Since there are redundant logic channels, the single failure criteria is maintained. In addition, decreasing the number of pressure switches, will decrease the likelihood of a transient resulting from a spurious Steam and Feedwater Rupture Control System initiation.

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 a change in Steam and Feedwater Rupture Control System actuation switches. 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 24, 1988 (53 FR 18630). 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 increased potential for spurious Steam and Feedwater Rupture Control System actuations.

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 January 28, 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 19 th day of July , 1988.

FOR THE NUCLEAR REGULATORY COMMISSION



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