

January 8, 1985

DMB-016

Docket No. 50-346

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Mr. Richard P. Crouse
Vice President, Nuclear
Toledo Edison Company
Edison Plaza - Stop 712
300 Madison Avenue
Toledo, Ohio 43652

Dear Mr. Crouse:

SUBJECT: AMENDMENT NO. 83 TO FACILITY OPERATING LICENSE NO. NPF-3;
LICENSE CONDITION RELATING TO STARTUP FEEDWATER PUMP OPERATION

The Commission has issued the enclosed Amendment No. 83 to Facility Operating License No. NPF-3 for the Davis-Besse Nuclear Power Station, Unit No. 1. This amendment consists of the addition of a new license condition which imposes three operational restrictions relating to the use of the startup feedwater pump in response to your application dated November 12, 1984.

Copies of the Safety Evaluation supporting this amendment and the Notice of Issuance are enclosed.

Sincerely,

"ORIGINAL SIGNED BY:"

Albert W. De Agazio, Project Manager
Operating Reactors Branch #4
Division of Licensing

Enclosures:

1. Amendment No. 83
2. Safety Evaluation
3. Notice

cc w/enclosures:
See next page

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12/18/84

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12/31/84

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Toledo Edison Company

cc w/enclosure(s):

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

TOLEDO EDISON COMPANY

AND

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

DOCKET NO. 50-346

DAVIS-BESSE NUCLEAR POWER STATION, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 83
License No. NPF-3

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by the Toledo Edison Company and The Cleveland Electric Illuminating Company (the licensees) dated November 12, 1984, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
2. Accordingly, Facility Operating License No. NPF-3 is hereby amended by adding paragraph 2.C.(3)(t) to read as follows:

Toledo Edison shall operate the Startup Feedwater Pump (SUFP) System with the following operational restrictions:

1. Toledo Edison will station an operator in the Startup Feedwater Pump/Auxiliary Feedwater Pump (SUFP/AFW) area during operation of the SUFP to monitor SUFP/Turbine Plant Cooling Water (TPCW) piping status in the AFW Pump Rooms. In the event of SUFP/TPCW pipe leakage, the operator will trip the SUFP locally or notify the Control Room to trip the SUFP, and isolate the SUFP/TPCW piping.
 2. Toledo Edison will isolate and maintain isolation outside the SUFP/AFW area of the SUFP suction, discharge, and turbine plant cooling water piping, when the SUFP is not in operation (Modes 1, 2 and 3).
 3. Toledo Edison will install a SUFP, associated piping, and valves, to remove the hazards to the AFW pumps before commencing Cycle 6.
3. This license amendment is effective as of its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Gus C. Lainas, Assistant Director
for Operating Reactors
Division of Licensing

Date of Issuance: January 8, 1985



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
SUPPORTING AMENDMENT NO. 83 TO FACILITY OPERATING LICENSE NO. NPF-3

TOLEDO EDISON COMPANY

AND

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

DAVIS-BESSE NUCLEAR POWER STATION, UNIT NO. 1

DOCKET NO. 50-346

1.0 Introduction

By letter dated November 12, 1984, the Toledo Edison Company submitted an application to amend Facility Operating License No. NPF-3 for the Davis-Besse Nuclear Power Station, Unit No. 1. The proposed amendment would add a new license condition which would allow for the use of the startup feedwater pump (SUFP) for the duration of Cycle 5 operation whenever the facility is in operational Modes 1, 2 or 3. The license condition also adds certain procedural requirements to provide compensatory measures and requires that Toledo Edison Company install a new SUFP and associated system components to permanently remove the hazard to the auxiliary feedwater (AFW) pumps from SUFP operation. This installation is to be completed prior to Cycle 6 operation.

2.0 Discussion and Evaluation

In a Licensee Event Report (LER) No. 84-009 dated June 18, 1984, Toledo Edison Company identified one high and three moderate energy lines in the AFW pump rooms 237 and 238 whose failures have not been analyzed. These lines are the SUFP discharge (high) and suction lines and the turbine plant cooling water (TPCW) piping which cools the SUFP. The SUFP is located in AFW pump room 238 and can jeopardize AFW pump 1-2 due to a pipe leak or break which includes the effects of jet impingement, pipe whip, flooding, and environmental conditions. The AFW pump 1-1, located in room 237, can be jeopardized by flooding and high ambient temperature.

During a meeting on September 19, 1984, Toledo Edison proposed to install a new SUFP system and documented this commitment in their submittal dated October 18, 1984, and November 21, 1984. This new SUFP and associated piping and valves will be located outside of the AFW pump rooms. The new system should have sufficient flow capacity to remove the decay heat from at least one steam generator following design basis accidents.

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Until the new SUFP is operational, Toledo Edison company has committed to the following interim measures. The SUFP suction and discharge lines and the TPCW lines will be isolated by means of manual valves located outside of the AFW pump rooms during operational Modes 1, 2 and 3 when the SUFP is not in operation. During startup and shutdown when the SUFP is used (operational Modes 1, 2 and 3), an operator will be stationed in the AFW/SUFP area to monitor system operation. In the event of pipe leakage, the operator will immediately trip the SUFP locally or notify the control room operator to trip the pump and to isolate the SUFP and TPCW piping from outside the AFW pump rooms.

Toledo Edison has confirmed that hydrostatic testing of the high and moderate energy lines to the requirements of ANSI B31.1 has been completed to demonstrate the integrity of the SUFP and TPCW piping.

We will require that a license condition, concerning these interim measures, be in place prior to using the existing SUFP. The license condition should address the following items.

1. In operating Modes 1, 2 or 3, the SUFP suction and discharge lines and the TPCW lines in the AFW rooms shall be isolated by means of manual valves from outside of the AFW rooms and the pressure in the piping will be verified to be less than 275 psig.
2. In operating Modes 1, 2 or 3 and when using the SUFP, an operator will be stationed in the SUFP/AFW area to monitor for pipe leakage. Upon identification of pipe leakage, the operator will manually trip the SUFP locally or notify the control room operator to trip the SUFP and to isolate the SUFP suction and discharge lines and the TPCW lines.
3. The new SUFP system shall be installed prior to startup following the 1986 refueling, Cycle 6.

In Toledo Edison's submittal dated November 12, 1984, they stated that the hydrostatic testing has been successfully completed for the SUFP suction and discharge lines. Toledo Edison has confirmed that hydrostatic testing of the TPCW lines has also been completed (Toledo Edison Company letter dated December 21, 1984).

Based on having a license condition, successfully hydrostatically testing the associated SUFP and TPCW piping, and the low probability of pipe failure, we conclude that limited operation of the existing SUFP, until installation of a new remotely located SUFP is complete, is acceptable.

3.0 Environmental Consideration

An Environmental Assessment and Finding of No Significant Impact has been issued for this amendment.

4.0 Conclusion

We have concluded, based on the considerations discussed above, that:
(1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (2) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Dated: January 8, 1985

Principal Contributor: John Ridgely



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555

January 8, 1985

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DOCKET No. 50-346

MEMORANDUM FOR: Docketing and Service Branch
Office of the Secretary of the Commission

FROM: Office of Nuclear Reactor Regulation

SUBJECT: DAVIS-BESSE UNIT NO. 1

One signed original of the *Federal Register* Notice identified below is enclosed for your transmittal to the Office of the Federal Register for publication. Additional conformed copies (5) of the Notice are enclosed for your use.

- ☐ Notice of Receipt of Application for Construction Permit(s) and Operating License(s).
- ☐ Notice of Receipt of Partial Application for Construction Permit(s) and Facility License(s): Time for Submission of Views on Antitrust Matters.
- ☐ Notice of Consideration of Issuance of Amendment to Facility Operating License.
- ☐ Notice of Receipt of Application for Facility License(s); Notice of Availability of Applicant's Environmental Report; and Notice of Consideration of Issuance of Facility License(s) and Notice of Opportunity for Hearing.
- ☐ Notice of Availability of NRC Draft/Final Environmental Statement.
- ☐ Notice of Limited Work Authorization.
- ☐ Notice of Availability of Safety Evaluation Report.
- ☐ Notice of Issuance of Construction Permit(s).
- ☒ Notice of Issuance of Facility Operating License(s) or Amendment(s).
- ☐ Order.
- ☐ Exemption.
- ☐ Notice of Granting of Relief.
- ☐ Other: _____

Division of Licensing, ORB#4
Office of Nuclear Reactor Regulation

Enclosure:
As stated

OFFICE	ORB#4:DL					
IRNAME	RIngram;cf					
DATE	1/9/85					

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