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

March 22, 1995

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

SUBJECT: AMENDMENT NO. 197 TO FACILITY OPERATING LICENSE NO. NPF-3 - DAVIS-BESSE NUCLEAR POWER STATION, UNIT NO. 1 (TAC NO. M91139)

Dear Mr. Stetz:

The Commission has issued the enclosed Amendment No. 197 to Facility Operating License No. NPF-3 for the Davis-Besse Nuclear Power Station, Unit No. 1. The amendment revises the Technical Specifications (TS) in response to your application dated December 6, 1994.

This amendment revises TS 4.0.5, "Applicability" and its associated Bases; TS 3/4.1.2.3, "Reactivity Control Systems - Makeup Pump - Shutdown; TS 3/4.1.2.4, "Reactivity Control Systems - Makeup Pump - Operating; TS 3/4.1.2.6, Reactivity Control Systems - Boric Acid Pump - Shutdown; and TS 3/4.1.2.7, "Reactivity Control System - Boric Acid Pumps - Operating." The changes replace the specific monthly surveillance requirements associated with the makeup pumps and boric acid pumps with a surveillance requirement referencing TS 4.0.5, which references Section XI of the American Society of Mechanical Engineers Boiler and Pressure Vessel Code for quarterly pump testing requirements. The proposed change to TS 4.0.5 and its associated Bases is consistent with the revised Standard Technical Specifications. Additionally, TS 4.0.5.a.1 which describes inservice inspection and testing during the period from issuance of the Facility Operating License until start of facility commercial operation is deleted, since the requirement is historical, and TS 4.0.5.a.2 is renumbered as TS 4.0.5.a.

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A copy of the Safety Evaluation is also enclosed. Notice of issuance will be included in the Commission's next biweekly Federal Register notice.

Sincerely,

Original signed by Linda L. Gundrum

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

Docket No. 50-346

Enclosures: 1. Amendment No. to License No. NPF-3
2. Safety Evaluation

cc w/encls: See next page

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OFFICIAL RECORD COPY

A copy of the Safety Evaluation is also enclosed. Notice of issuance will be included in the Commission's next biweekly Federal Register notice.

Sincerely,

Linda L. Gundrum

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

Docket No. 50-346

Enclosures: 1. Amendment No. 197 to License No. NPF-3
2. Safety Evaluation

cc w/encls: See next page

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Davis-Besse Nuclear Power Station
Unit No. 1

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

TOLEDO EDISON COMPANY

CENTERIOR SERVICE 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. 197
License No. NPF-3

1. The Nuclear Regulatory Commission (the Commission) has found that:

   A. The application for amendment by the Toledo Edison Company, Centerior Service Company, and the Cleveland Electric Illuminating Company (the licensees) dated December 6, 1994, 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, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment,

and paragraph 2.C.(2) of Facility Operating License No. NPF-3 is hereby amended to read as follows:

(a) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 197, are hereby incorporated in the license. The Toledo Edison Company shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of its date of issuance and shall be implemented not later than 90 days after issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Linda L. Gundrum

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

Attachment: Changes to the Technical Specifications

Date of issuance: March 22, 1995

ATTACHMENT TO LICENSE AMENDMENT NO. 197

FACILITY OPERATING LICENSE NO. NPF-3

DOCKET NO. 50-346

Replace the following pages of the Appendix "A" Technical Specifications with the attached pages. The revised pages are identified by amendment number and contain vertical lines indicating the area of change.

| Remove | Insert |
|---|---|
| 3/4 0-2 | 3/4 0-2 |
| B 3/4 0-3 | B 3/4 0-3 |
| 3/4 1-9 | 3/4 1-9 |
| 3/4 1-10 | 3/4 1-10 |
| 3/4 1-12 | 3/4 1-12 |
| 3/4 1-13 | 3/4 1-13 |

4.0.1 Surveillance Requirements shall be applicable during the OPERATIONAL MODES or other conditions specified for individual Limiting Conditions for Operation unless otherwise stated in an individual Surveillance Requirement.

4.0.2 Each Surveillance Requirement shall be performed within the specified time interval with a maximum allowable extension not to exceed 25 percent of the specified surveillance interval.

4.0.3 Failure to perform a Surveillance Requirement within the allowed surveillance interval, defined by Specification 4.0.2, shall constitute noncompliance with the OPERABILITY requirements for a Limiting Condition for Operation.

The time limits of the ACTION requirements are applicable at the time it is identified that a Surveillance Requirement has not been performed.

The ACTION requirements may be delayed for up to 24 hours to permit the completion of the surveillance when the allowable (equipment inoperability) outage time limits of the ACTION requirements are less than 24 hours.

Surveillance requirements do not have to be performed on inoperable equipment.

4.0.4 Entry into an OPERATIONAL MODE or other specified applicability condition shall not be made unless the Surveillance Requirement(s) associated with the Limiting Condition for Operation have been performed within the stated surveillance interval or as otherwise specified.

4.0.5 Surveillance Requirements for inservice inspection and testing of ASME Code Class 1, 2 and 3 components shall be applicable as follows:

a. Inservice inspection of ASME Code Class 1, 2 and 3 components and inservice testing of ASME Code Class 1, 2 and 3 pumps and valves shall be performed in accordance with Section XI of the ASME Boiler and Pressure Vessel Code and applicable Addenda as required by 10 CFR 50, Section 50.55a.

b. Surveillance intervals specified in Section XI of the ASME Boiler and Pressure Vessel Code and applicable Addenda for the inservice inspection and testing activities required by the ASME Boiler and Pressure Vessel Code and applicable Addenda shall be applicable as follows in these Technical Specifications:

ACTION requirements, e.g., Specification 3.0.3, a 24-hour allowance is provided to permit a delay in implementing the ACTION requirements. This provides an adequate time limit to complete Surveillance Requirements that have not been performed. The purpose of this allowance is to permit the completion of a surveillance before a shutdown is required to comply with ACTION requirements or before other remedial measures would be required that may preclude completion of a surveillance. The basis for this allowance includes consideration for plant conditions, adequate planning, availability of personnel, the time required to perform the surveillance, and the safety significance of the delay in completing the required surveillance. If a surveillance is not completed within the 24-hour allowance, the time limits of the ACTION requirements are applicable at that time. When a surveillance is performed within the 24-hour allowance and the Surveillance Requirements are not met, the time limits of the ACTION requirements are applicable at the time that the surveillance is terminated.

Surveillance Requirements do not have to be performed on inoperable equipment because the ACTION requirements define the remedial measures that apply. However, the Surveillance Requirements have to be met to demonstrate that inoperable equipment has been restored to OPERABLE status.

4.0.4 This specification ensures that the surveillance activities associated with a Limiting Condition for Operation have been performed within the specified time interval prior to entry into an OPERATIONAL MODE or other applicable condition. The intent of this provision is to ensure that surveillance activities have been satisfactorily demonstrated on a current basis as required to meet the OPERABILITY requirements of the Limiting Condition for Operation.

Under the terms of this specification, for example, during initial plant startup or following extended plant outages, the applicable surveillance activities must be performed within the stated surveillance interval prior to placing or returning the system or equipment into OPERABLE status.

4.0.5 This specification ensures that inservice inspection of ASME Code Class 1, 2 and 3 components and inservice testing of ASME Code Class 1, 2 and 3 pumps and valves will be performed in accordance with a periodically updated version of Section XI of the ASME Boiler and Pressure Vessel Code and Addenda as required by 10 CFR 50.55a.

This specification includes a clarification of the frequencies for performing the inservice inspection and testing activities required by Section XI of the ASME Boiler and Pressure Vessel Code and applicable Addenda. This clarification is provided to ensure consistency in surveillance intervals throughout these Technical Specifications and to remove any ambiguities relative to the frequencies for performing the required inservice inspection and testing activities.

MAKEUP PUMP - SHUTDOWN

LIMITING CONDITION FOR OPERATION

3.1.2.3 At least one makeup pump in the boron injection flow path required by Specification 3.1.2.1 shall be OPERABLE and capable of being powered from an OPERABLE essential bus.

APPLICABILITY: MODE 5*.

ACTION:

With no makeup pump OPERABLE, suspend all operations involving positive reactivity changes until at least one makeup pump is restored to OPERABLE status.

SURVEILLANCE REQUIREMENTS

4.1.2.3 No additional Surveillance Requirements other than those required by Specification 4.0.5 are applicable.

*With RCS pressure ≥ 150 psig.

MAKEUP PUMPS - OPERATING

LIMITING CONDITION FOR OPERATION

3.1.2.4 Two makeup pumps shall be OPERABLE.

APPLICABILITY: MODES 1, 2, 3 and 4*.

ACTION:

With only one makeup pump OPERABLE, restore the inoperable pump to OPERABLE status within 72 hours or be in at least HOT STANDBY and borated to a SHUTDOWN MARGIN equivalent to 1% $\Delta k/k$ at 200°F within the next 6 hours; restore two pumps to OPERABLE status within the next 7 days or be in COLD SHUTDOWN within the next 30 hours.

SURVEILLANCE REQUIREMENTS

4.1.2.4 No additional Surveillance Requirements other than those required by Specification 4.0.5 are applicable.

*With RCS pressure ≥ 150 psig.

## BORIC ACID PUMP - SHUTDOWN

### LIMITING CONDITION FOR OPERATION

3.1.2.6 At least one boric acid pump shall be OPERABLE and capable of being powered from an OPERABLE essential bus if only the flow path through the boric acid pump in Specification 3.1.2.1a is OPERABLE.

APPLICABILITY: MODES 5 and 6.

ACTION:

With no boric acid pump OPERABLE as required to complete the flow path of Specification 3.1.2.1a, suspend all operations involving CORE ALTERATIONS or positive reactivity changes until at least one boric acid pump is restored to OPERABLE status.

### SURVEILLANCE REQUIREMENTS

4.1.2.6 No additional Surveillance Requirements other than those required by Specification 4.0.5 are applicable.

## BORIC ACID PUMPS - OPERATING

### LIMITING CONDITION FOR OPERATION

3.1.2.7 At least one boric acid pump in the boron injection flow path required by Specification 3.1.2.2a shall be OPERABLE and capable of being powered from an OPERABLE essential bus.

APPLICABILITY: MODES 1, 2, 3 and 4.

ACTION:

With no boric acid pump OPERABLE, restore at least one boric acid pump to OPERABLE status within 72 hours or be in at least HOT STANDBY and borated to a SHUTDOWN MARGIN equivalent to 1% $\Delta k/k$ at 200°F within the next 6 hours; restore at least one boric acid pump to OPERABLE status within the next 7 days or be in COLD SHUTDOWN within the next 30 hours.

### SURVEILLANCE REQUIREMENTS

4.1.2.7 No additional Surveillance Requirements other than those required by Specification 4.0.5 are applicable.

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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 197 TO FACILITY OPERATING LICENSE NO. NPF-3

TOLEDO EDISON COMPANY

CENTERIOR SERVICE COMPANY

AND

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

DAVIS-BESSE NUCLEAR POWER STATION, UNIT NO. 1

DOCKET NO. 50-346

## 1.0 INTRODUCTION

The proposed amendment would revise Technical Specification (TS) 4.0.5, "Applicability" and its associated Bases; TS 3/4.1.2.3, "Reactivity Control Systems - Makeup Pump - Shutdown; TS 3/4.1.2.4, "Reactivity Control Systems - Makeup Pumps - Operating; TS 3/4.1.2.6, Reactivity Control Systems - Boric Acid Pump - Shutdown; and TS 3/4.1.2.7, "Reactivity Control System - Boric Acid Pumps - Operating." The proposed changes would replace the specific monthly surveillance requirements associated with the Makeup Pumps and Boric Acid Pumps with a surveillance requirement referencing TS 4.0.5, which references Section XI of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code (the Code) for quarterly pump testing requirements.

The proposed change to TS 4.0.5 and its associated Bases is consistent with the revised Standard Technical Specifications and simply refers to the regulation for the application of industry codes and standards. Additionally, TS 4.0.5.a.1 which describes inservice inspection and testing during the period from issuance of the Facility Operating License until start of facility commercial operation is deleted, since the requirement is historical, and TS 4.0.5.a.2 is renumbered as TS 4.0.5.a.

## 2.0 EVALUATION

The proposed changes will replace the current monthly surveillance requirements for the Makeup Pumps and the Boric Acid Pumps with a reference to TS 4.0.5, which requires quarterly testing of all ASME Code Class 1, 2, and 3 pumps in accordance with the requirements of ASME Code, Section XI. Currently, Davis-Besse Nuclear Power Station (DBNPS) performs the quarterly surveillance requirements in accordance with 4.0.5. Additionally, both the Makeup Pumps and Boric Acid Pumps have the following surveillance tests

monthly:

1) Starting (unless already operating) the pump from the control room;

2) Verifying specific pump performance (discharge pressure ≥ 2400 psig for the Makeup Pumps and development of 93% of the discharge pressure for the applicable flow rate at a discharge pressure ≥ 65 psig for the Boric Acid Pumps);

3) Verifying pump operation for at least 15 minutes; and

4) Verifying that the pump is aligned to receive electrical power from an OPERABLE essential bus.

During the quarterly tests, the pumps are started from the control room (unless they are already running), are generally run for longer than 15 minutes, and are evaluated for acceptable readings of differential pressure, inlet pressure, flow, and vibration. The monthly verification of electrical power alignment is not considered significant, since each pump can only be aligned to a single essential power supply. If the electrical alignment is not correct, the quarterly surveillance test could not be performed. Relaxation of the pump testing requirements from monthly to quarterly will reduce the potential for pump degradation. Additionally, per discussion with the licensee, a review of the DBNPS reliability data for the Makeup and Boric Acid Pumps supports extending the surveillance frequency. The staff, therefore, concludes that the proposed changes are acceptable.

The proposed change to delete TS 4.0.5.a.1 which describes inservice inspection and testing during the period from issuance of the Facility Operating License until start of facility commercial operation, and TS renumbering 4.0.5.a.2 to TS 4.0.5.a are administrative changes and do not affect safety. The staff, therefore, concludes that the proposed changes are acceptable.

The proposed change to TS 4.0.5, "Applicability," and its basis will remove the text regarding the granting by NRC of relief requests. Maintaining the earlier requirement that compliance with the requirements of the ASME Code is required for inservice inspection and inservice testing "except where relief has been granted" is more restrictive than the regulation in that the regulations (10 CFR 50.55a, "Codes and Standards") allow a licensee up to 12 months after the beginning of updated inspection and testing intervals of 120 months to inform the NRC of those new Code requirements which cannot be met and to request relief. Since the current TS 4.0.5 and its Bases reflect adherence to 10 CFR 50.55a, the proposed change will not affect safety and will delete an apparent conflict between TS and the regulations. The staff, therefore, concludes that the proposed change is acceptable.

Based on the review of each proposed change and determination that the proposed changes not have an adverse effect on safety, the staff concludes that the proposed changes are acceptable and should be approved.

## 3.0 STATE CONSULTATION

In accordance with the Commission's regulations, the Ohio State official was notified of the proposed issuance of the amendment. The State official had no comments.

## 4.0 ENVIRONMENTAL CONSIDERATION

This amendment changes a requirement with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20 and changes surveillance requirements. 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, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that the amendment involves no significant hazards consideration and there has been no public comment on such finding (60 FR 8758). Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendment.

## 5.0 CONCLUSION

The staff has 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, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributors: Patricia L. Campbell
Linda. L. Gundrum

Date: March 22, 1995