

October 5, 1988

Docket No. 50-346
Serial No. DB-88-008

Mr. Donald C. Shelton
Vice President, Nuclear
Toledo Edison Company
Plaza - Stop 712
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Toledo, Ohio 43652

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Dear Mr. Shelton:

SUBJECT: AMENDMENT NO. 124 TO FACILITY OPERATING LICENSE NO. NPF-3:
STEAM AND FEEDWATER RUPTURE CONTROL SYSTEM MANUAL ACTUATION
PUSH BUTTONS (TAC 66729)

The Commission has issued the enclosed Amendment No. 124 to Facility Operating License No. NPF-3 for the Davis-Besse Nuclear Power Station, Unit No. 1. This amendment consists of changes to the Appendix A Technical Specifications (TS's) in response to your application dated January 30, 1988 (No. 1462).

This amendment revises the TS's relating to the number of manual initiation pushbuttons required. Specifically, Technical Specification 3.3.2.2, Table 3.3-11, "Steam and Feedwater Rupture Control System" (SFRCS), is revised to reflect a design modification that simplifies manual initiation of SFRCS.

Currently, SFRCS manual initiation is through the following pushbuttons:

Steam pressure low	4 push buttons (2 channels required for trip)
Steam generator level low	2 push buttons (1 channel required for trip)
Feedwater pressure differential high	2 push buttons (1 channel required for trip)
Loss of Reactor coolant pumps	2 push buttons (1 channel required for trip)

With the current arrangement, all channels are required to be operable.

This amendment will allow a change in the manual trip arrangement such that manual initiation will be through the following push buttons:

Initiate AFPT #1	1 push button
Initiate AFPT #2	1 push button
Initiate AFPT #1 and Isolate SG #1	1 push button
Initiate AFPT #2 and Isolate SG #2	1 push button

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Mr. Donald C. Shelton

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October 5, 1988

With this arrangement, any one channel will cause a trip. All channels are required to be operable as before.

This modification addresses a concern related to operator error which occurred during the June 9, 1985, Davis-Besse loss-of-feedwater event and also which had been identified as a result of efforts to improve the design of the control room to minimize human error. The concern is recognized in Toledo Edison Company Course of Action Report Section I. C. 5, Control Room Improvement Program and NUREG-1177, Davis-Besse Restart Safety Evaluation Report, Sections 3.3.3 and 3.3.4 and Appendix D.

IEEE Std. 279, Section 4.2 requires all safety systems to provide the capability to initiate manually a system level action as part of the design. Based on the staff's review of the proposed changes to the TS's and the proposed reduction in the number of manual push buttons within SFRCS, the staff concludes that the change conforms to the requirements of IEEE Std. 279 and Regulatory Guide 1.62. The staff, therefore, finds the proposed changes acceptable.

Pursuant to 10 CFR 51.21, 51.32, and 51.35, an environmental assessment and finding of no significant has been prepared and published in the Federal Register (53 FR 38128 September 29, 1988). Accordingly, based upon the environmental assessment, the Commission has determined that the issuance of this amendment will not have a significant effect on the quality of the human environment.

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, 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.

A copy of the notice of issuance is enclosed. The notice has been forwarded to the Office of the Federal Register for publication.

Sincerely,

/s/Joseph G. Giitter for

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

Enclosures: 1. Amendment No. 124 to
License No. NPF-3
2. Notice

cc w/enclosures: See next page

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Surname: PKreutzer
Date: 1 / 88

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9/13/88

PD/PDIII-3
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Mr. Donald C. Shelton
Toledo Edison Company

cc:

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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

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. 124
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 January 30, 1988 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:

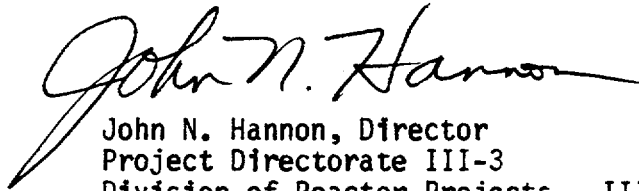
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(a) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 124, 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 November 19, 1988.

FOR THE NUCLEAR REGULATORY COMMISSION

A handwritten signature in black ink, reading "John N. Hannon". The signature is fluid and cursive, with a long horizontal stroke at the end.

John N. Hannon, Director
Project Directorate III-3
Division of Reactor Projects - III, IV,
V, & Special Projects

Attachment: Changes to the Technical
Specifications

Date of Issuance: October 5, 1988

ATTACHMENT TO LICENSE AMENDMENT NO. 124

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. The corresponding overleaf pages are also provided to maintain document completeness.

Remove

3/4 3-26

Insert

3/4 3-26

TABLE 3.3-11 (Continued)

STEAM AND FEEDWATER RUPTURE CONTROL SYSTEM INSTRUMENTATION

<u>FUNCTIONAL UNIT</u>	<u>TOTAL NO. OF CHANNELS</u>	<u>CHANNELS TO TRIP</u>	<u>MINIMUM CHANNELS OPERABLE</u>	<u>ACTION</u>
2. Feedwater/Steam Generator Differential Pressure - High Instrument Channels	2	1	2	13#
a. PDS 2685A Feedwater/Steam Generator 2 Channel 2 PDS 2685B Feedwater/Steam Generator 2 Channel 2				
b. PDS 2685C Feedwater/Steam Generator 2 Channel 1 PDS 2685D Feedwater/Steam Generator 2 Channel 1				
c. PDS 2686A Feedwater/Steam Generator 1 Channel 1 PDS 2686B Feedwater/Steam Generator 1 Channel 1				
d. PDS 2686C Feedwater/Steam Generator 1 Channel 2 PDS 2686D Feedwater/Steam Generator 1 Channel 2				
3. Steam Generator Level - Low Instrument Channels	2	1	2	13#
a. LSL SP9B8 Steam Generator 1 Channel 1 LSL SP9B9 Steam Generator 1 Channel 1				
a. LSL SP9A6 Steam Generator 2 Channel 1 LSL SP9A7 Steam Generator 2 Channel 1				
a. LSL SP9A8 Steam Generator 2 Channel 2 LSL SP9A9 Steam Generator 2 Channel 2				

TABLE 3.3-11 (Continued)

STEAM AND FEEDWATER RUPTURE CONTROL SYSTEM INSTRUMENTATION

<u>FUNCTIONAL UNIT</u>	<u>TOTAL NO. OF CHANNELS</u>	<u>CHANNELS TO TRIP</u>	<u>MINIMUM CHANNELS OPERABLE</u>	<u>ACTION</u>
3. Steam Generator Level - Low Instrument Channels (continued)				
d. LSSL SP9B6 Steam Generator 1 Channel 2 LSSL SP9B7 Steam Generator 1 Channel 2				
4. Loss of RCP Channels	2	1	2	13#
5. Manual Initiation (Push buttons)				
a. Initiate AFPT #1	1	1	1	14
b. Initiate AFPT #2	1	1	1	14
c. Initiate AFPT #1 and Isolate SG #1	1	1	1	14
d. Initiate AFPT #2 and Isolate SG #2	1	1	1	14

U. S. NUCLEAR REGULATORY COMMISSIONTOLEDO EDISON COMPANY, ET AL.DOCKET NO. 50-346NOTICE OF ISSUANCE OF AMENDMENT TO
FACILITY OPERATING LICENSE

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 124 to Facility Operating License No. NPF-3, issued to The Toledo Edison Company and The Cleveland Electric Illuminating Company (the licensee), which revised the Technical Specifications for operation of the Davis-Besse Nuclear Power Station, Unit No. 1 (the facility) located in Ottawa County, Ohio. The amendment was effective as of the date of its issuance.

The amendment revised the TS's relating to the number of manual initiation pushbuttons required. Specifically, Technical Specification 3.3.2.2, Table 3.3-11, "Steam and Feedwater Rupture Control System" (SFRCS), is revised to reflect a design modification that simplifies manual initiation of SFRCS.

The application for the amendment complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendment.

Notice of Consideration of Issuance of Amendment and Opportunity for Hearing in connection with this action was published in the FEDERAL REGISTER

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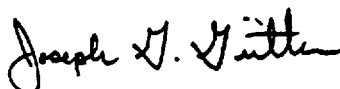
on May 3, 1988 (53 FR 15757). No request for hearing or petition for leave to intervene was filed following this notice.

For further details with respect to this action see (1) the application for amendment dated January 30, 1988 (2) Amendment No. 124 to License No. NPF-3, (3) the Commission's letter dated October 5, 1988 and (4) the Environmental Assessment dated September 23, 1988 (53 FR 38128). All of these items are available for public inspection at the Commission's Public Document Room, 2120 L Street, N.W., Washington, D.C., and at the University of Toledo Library, Documents Department, 2801 Bancroft Avenue, Toledo, Ohio 43606.

A copy of items (2), (3) and (4) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Reactor Projects - III, IV, V and Special Projects.

Dated at Rockville, Maryland this 5th day of October 1988.

FOR THE NUCLEAR REGULATORY COMMISSION



Joseph G. Giitter, Project Manager
Project Directorate III-3
Division of Reactor Projects - III,
IV, V and Special Projects