

JULY 02 1980

REGULATORY DOCKET FILE COPY

DISTRIBUTION:

Docket File
NRC PDR
L PDR

Docket No. 50-346

TERA	DGarner
NSIC	RIngram
ORB#4 Rdg	IE-3
NRR Rdg	M& ACRS-16
HDenton	OELD
DEisenhut	AEOD
RPurple	Gray File +4
TNovak	BJones-4
	BScharf-10
	RDiggs
	CMiles
	STSG.

Mr. Lowell E. Roe
Vice President, Facilities
Development
Toledo Edison Company
Edison Plaza
300 Madison Avenue
Toledo, Ohio 43652

Dear Mr. Roe:

The Commission has issued the enclosed Amendment No. 25 to Facility Operating License No. NPF-3 for the Davis-Besse Nuclear Power Station, Unit No. 1. This amendment consists of changes to the Technical Specifications in response to your application dated October 23, 1978, as supplemented January 26, 1979, and staff discussions.

This amendment modifies the Technical Specifications on surveillance frequency for venting the Emergency Core Cooling System pump casings and discharge piping high points. This amendment also corrects a typographical error in Table 3.7-3, "Safety of Hydraulic Snubbers".

Consistent with W. O. Miller's letter to you dated November 13, 1978, and your response dated November 28, 1978, we have completed our final evaluation of the fee class for your October 23, 1978 application. This application is still considered to be a Class III fee type; therefore, no refund is due.

Copies of the Safety Evaluation and the Notice of Issuance are also enclosed.

Sincerely,

Original signed by
Robert W. Reid

Robert W. Reid, Chief
Operating Reactors Branch #4
Division of Licensing

Enclosures:

1. Amendment No. 25
2. Safety Evaluation
3. Notice

cc w/enclosures: See next page

8007210329

CP
WOM
C-LFMB
WOM Miller
6/27/80

OFFICE	ORB#4:DL	ORB#4:DL	C-ORB#4:DL	AD-OR:DL	OELD	STSG:DL
SURNAME	RIngram	DGarner/cb	RReid	TNovak	J.R. GRAY	
DATE	6/18/80	6/18/80	6/18/80	6/23/80	6/27/80	6/19/80



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

July 2, 1980

Docket No. 50-346

Mr. Lowell E. Roe
Vice President, Facilities
Development
Toledo Edison Company
Edison Plaza
300 Madison Avenue
Toledo, Ohio 43652

Dear Mr. Roe:

The Commission has issued the enclosed Amendment No. 25 to Facility Operating License No. NPF-3 for the Davis-Besse Nuclear Power Station, Unit No. 1. This amendment consists of changes to the Technical Specifications in response to your application dated October 23, 1978, as supplemented January 26, 1979, and staff discussions.

This amendment modifies the Technical Specifications on surveillance frequency for venting the Emergency Core Cooling System pump casings and discharge piping high points. This amendment also corrects a typographical error in Table 3.7-3, "Safety of Hydraulic Snubbers".

Consistent with W. O. Miller's letter to you dated November 13, 1978, and your response dated November 28, 1978, we have completed our final evaluation of the fee class for your October 23, 1978 application. This application is still considered to be a Class III fee type; therefore, no refund is due.

Copies of the Safety Evaluation and the Notice of Issuance are also enclosed.

Sincerely,

A handwritten signature in cursive script, appearing to read "Robert W. Reid".

Robert W. Reid, Chief
Operating Reactors Branch #4
Division of Licensing

Enclosures:

1. Amendment No. 25
2. Safety Evaluation
3. Notice

cc w/enclosures: See next page

Toledo Edison Company

cc w/enclosure(s):

Mr. Donald H. Hauser, Esq.
The Cleveland Electric
Illuminating Company
P. O. Box 5000
Cleveland, Ohio 44101

Gerald Charnoff, Esq.
Shaw, Pittman, Potts
and Trowbridge
1800 M Street, N.W.
Washington, D.C. 20036

Leslie Henry, Esq.
Fuller, Seney, Henry and Hodge
300 Madison Avenue
Toledo, Ohio 43604

Mr. Robert B. Borsum
Babcock & Wilcox
Nuclear Power Generation Division
Suite 420, 7735 Old Georgetown Road
Bethesda, Maryland 20014

Ida Rupp Public Library
310 Madison Street
Port Clinton, Ohio 43452

President, Board of County
Commissioners of Ottawa County
Port Clinton, Ohio 43452

Attorney General
Department of Attorney General
30 East Broad Street
Columbus, Ohio 43215

Harold Kahn, Staff Scientist
Power Siting Commission
361 East Broad Street
Columbus, Ohio 43216

Mr. Rick Jagger
Industrial Commission
State of Ohio
2323 West 5th Avenue
Columbus, Ohio 43216

Mr. Ted Myers
Licensing Engineer
Toledo Edison Company
Edison Plaza
300 Madison Avenue
Toledo, Ohio 43652

U. S. Nuclear Regulatory Commission
Resident Inspector's Office
5503 N. State Route 2
Oak Harbor, Ohio 43449

Director, Technical Assessment
Division
Office of Radiation Programs
(AW-459)
U. S. Environmental Protection Agency
Crystal Mall #2
Arlington, Virginia 20460

U. S. Environmental Protection Agency
Federal Activities Branch
Region V Office
ATTN: EIS COORDINATOR
230 South Dearborn Street
Chicago, Illinois 60604

cc w/enclosure(s) and incoming dtd.:
10/23/78 & 1/26/79
Ohio Department of Health
ATTN: Director of Health
450 East Town Street
Columbus, Ohio 43216



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

THE 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. 25
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 October 23, 1978, as supplemented January 26, 1979, 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.

8007210333

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:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 25, are hereby incorporated in the license. Toledo Edison Company shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Robert W. Reid, Chief
Operating Reactors Branch #4
Division of Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: July 2, 1980

ATTACHMENT TO LICENSE AMENDMENT NO. 25

FACILITY OPERATING LICENSE NO. NPF-3

DOCKET NO. 50-346

Replace the following pages of the Appendix "A" Technical Specifications with the enclosed pages as indicated. 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.

Pages

3/4 5-4

3/4 7-24

EMERGENCY CORE COOLING SYSTEMS

ECCS SUBSYSTEMS - $T_{avg} > 280^{\circ}\text{F}$

LIMITING CONDITION FOR OPERATION

3.5.2 Two independent ECCS subsystems shall be OPERABLE with each subsystem comprised of:

- a. One OPERABLE high pressure injection (HPI) pump,
- b. One OPERABLE low pressure injection (LPI) pump,
- c. One OPERABLE decay heat cooler, and
- d. An OPERABLE flow path capable of taking suction from the borated water storage tank (BWST) on a safety injection signal and automatically transferring suction to the containment sump on a borated water storage tank low level signal during the recirculation phase of operation.

APPLICABILITY: MODES 1, 2 and 3.

ACTION:

- a. With one ECCS subsystem inoperable, restore the inoperable subsystem to OPERABLE status within 72 hours or be in HOT SHUTDOWN within the next 12 hours.
- b. In the event the ECCS is actuated and injects water into the Reactor Coolant System, a Special Report shall be prepared and submitted to the Commission pursuant to Specification 6.9.2 within 90 days describing the circumstances of the actuation and the total accumulated actuation cycles to date.

SURVEILLANCE REQUIREMENTS

4.5.2 Each ECCS subsystem shall be demonstrated OPERABLE:

- a. At least once per 31 days by verifying that each valve (manual, power operated or automatic) in the flow path that is not locked, sealed or otherwise secured in position, is in its correct position.

EMERGENCY CORE COOLING SYSTEMS

SURVEILLANCE REQUIREMENTS

- b. At least once per 18 months, or prior to operation after ECCS piping has been drained by verifying that the ECCS piping is full of water by venting the ECCS pump casings and discharge piping high points.
- c. By a visual inspection which verifies that no loose debris (rags, trash, clothing, etc.) is present in the containment which could be transported to the containment emergency sump and cause restriction of the pump suction during LOCA conditions. This visual inspection shall be performed:
 1. For all accessible areas of the containment prior to establishing CONTAINMENT INTEGRITY, and
 2. Of the areas affected within containment at the completion of each containment entry when CONTAINMENT INTEGRITY is established.
- d. At least once per 18 months by:
 1. Verifying automatic isolation and interlock action of the DHR system from the Reactor Coolant System when a simulated Reactor Coolant System pressure of ≥ 413 psig is applied.
 2. A visual inspection of the containment emergency sump which verifies that the subsystem suction inlets are not restricted by debris and that the sump components (trash racks, screens, etc.) show no evidence of structural distress or corrosion.
 3. Verifying a total leak rate ≤ 20 gallons per hour for the LPI system at:
 - a) Normal operating pressure or hydrostatic test pressure of ≥ 150 psig for those parts of the system downstream of the pump suction isolation valve, and
 - b) ≥ 45 psig for the piping from the containment emergency sump isolation valve to the pump suction isolation valve.
 4. Verifying that a minimum of 72 cubic feet of solid granular trisodium phosphate dodecahydrate (TSP) is contained within the TSP storage baskets.

TABLE 3.7-3 (Continued)
SAFETY RELATED HYDRAULIC SNUBBERS*

<u>SNUBBER NO.</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
34-HCB-4-H34	Containment, 643'	I	Yes	No
34-HCB-4-H34	Containment, 643'	I	Yes	No
<u>DECAY HEAT REMOVAL SYSTEM</u>				
33C-CCA-4-H2	Containment, 567'	A	Yes	No
33C-CCA-4-H3	Containment, 567'	A	Yes	No
33C-CCA-4-H7	Containment, 560'	A	Yes	No
33C-CCA-4-H10	Containment, 560'	A	Yes	No
33C-CCA-4-H11	Containment, 567'	A	Yes	No
33C-GCB-7-H3	Auxiliary Building, 568'	A	No	No
33C-GCB-7-H4	Auxiliary Building, 566'	A	No	No
33C-GCB-7-H6	Auxiliary Building, 566'	A	No	No
33C-GCB-7-H7	Auxiliary Building, 557'	A	No	No
33C-HCB-24-H5A	Auxiliary Building, 569'	A	No	No
<u>EMERGENCY CORE COOLING SYSTEM</u>				
33A-GCB-4-H5	Auxiliary Building, 556'3"	A	No	No
33A-GCB-8-H3	Auxiliary Building, 553'	A	No	No
33A-GCB-8-H4	Auxiliary Building, 553'	A	No	No
33A-GCB-8-H10	Auxiliary Building, 556'3"	A	No	No
33A-HCB-2-H21	Auxiliary Building, 552'9"	A	No	No
33B-HCB-1-H3	Auxiliary Building, 557'	A	No	No
33B-HCB-1-H4	Auxiliary Building, 556'9"	A	No	No

TABLE 3.7-3 (Continued)
SAFETY RELATED HYDRAULIC SNUBBERS*

<u>SNUBBER NO.</u>	<u>SYSTEM SNUBBER INSTALLED ON, LOCATION AND ELEVATION</u>	<u>ACCESSIBLE OR INACCESSIBLE (A or I)</u>	<u>HIGH RADIATION ZONE** (Yes or No)</u>	<u>ESPECIALLY DIFFICULT TO REMOVE (Yes or No)</u>
<u>EMERGENCY DIESEL GENERATOR SYSTEM</u>				
47-HBD-358-H3	Auxiliary Building, 607'	I	No	No
47-HBD-358-H6	Auxiliary Building, 607'	I	No	No
47-HBD-359-H2	Auxiliary Building, 607'	I	No	No
47-HBD-359-H10	Auxiliary Building, 607'	I	No	No
<u>HIGH PRESSURE INJECTION SYSTEM</u>				
33C-CCB-2-H47	Containment, 568'	A	Yes	No
<u>LOW PRESSURE INJECTION/CORE FLOOD SYSTEM</u>				
33B-CCA-6-H1	Containment, 561'	A	Yes	No
33B-CCA-6-H5	Containment, 561'	A	Yes	No
33B-CCA-6-H5	Containment, 561'	A	Yes	No
33B-CCA-6-H6	Containment, 565'	A	Yes	No
33B-CCB-5-H1	Containment, 566'	A	Yes	No
33B-CCB-5-H3	Containment, 566'	A	Yes	No
33B-CCB-5-H4	Containment, 566'	A	Yes	No
33B-CCB-5-H6	Containment, 566'	A	Yes	No
33B-CCB-6-H2	Containment, 566'	A	Yes	No
33B-CCB-6-H4	Containment, 566'	A	Yes	No
33B-CCB-6-H5	Containment, 566'	A	Yes	No
33B-CCB-6-H8	Containment, 580'	I	Yes	No



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
SUPPORTING AMENDMENT NO. 25 TO FACILITY OPERATING LICENSE NO. NPF-3

THE TOLEDO EDISON COMPANY

AND

THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

DAVIS-BESSE NUCLEAR POWER STATION, UNIT NO. 1

DOCKET NO. 50-346

Introduction

By letter dated October 23, 1978, supplemented by letter dated January 26, 1979, Toledo Edison Company (TECo or the licensee) requested amendment to Facility Operating License No. NPF-3 for the Davis-Besse Nuclear Power Station, Unit No. 1. The amendment would modify the Technical Specifications (TSs) to require that at least once per 18 months or prior to operation after Emergency Core Cooling System (ECCS) piping has been drained, the ECCS piping be verified to be full of water by venting the ECCS pump casings and discharge piping high points.

Discussion and Evaluation

The current TSs require the ECCS piping be verified full of water by venting at the high points once every 31 days. To vent the piping at the high points requires entry into the containment and results in a certain amount of radiation exposure to personnel involved.

For the low pressure safety injection (LPSI) lines, if a leak should develop on the discharge side of the pumps, the pathway from the Borated Water Storage Tank (BWST) is open (through check valves and locked open valves) and available to replace any leakage out of the system. As a result, the LPSI lines will always be full.

For the high pressure safety injection (HPSI) lines the following is provided:

1. The licensee has analyzed the event of air filled HPSI lines down-stream of the closed motor operated valves (MOVS) and has shown that actuating the HPSI pumps would not impose unacceptable forces on the piping and elbows. This part of the HPSI system is designed for 3050 psig, whereas the rest of the system is designed for 2000 psig.

The part of the system upstream from the closed MOVS could never develop air pockets because this part of the system is under at least a 30 foot constant head of water from the BWST.

2. The likelihood of air filled piping in the section downstream from the closed MOVS is remote since experience has shown these lines remain full of water with no air pockets forming for a period of approximately 2 years. The licensee confirms that

8007210335

during this approximate 2 year period the high pressure injection system was not drained and was called on and activated twice.

On the basis of the above, we find the proposed change would reduce the amount of radiation exposure to personnel involved, would not decrease the margin of safety and therefore is acceptable.

Environmental Consideration

We have determined that the amendment does not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendment involves an action which is insignificant from the standpoint of environmental impact and, pursuant to 10 CFR §51.5(d)(4), that an environmental impact statement, or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

Conclusion

We have concluded, based on the considerations discussed above, that: (1) because the amendment does not involve a significant increase in the probability or consequences of accidents previously considered and does not involve a significant decrease in a safety margin, the amendment does not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (3) 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: July 2, 1980

UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKET NO. 50-346THE TOLEDO EDISON COMPANY

AND

THE CLEVELAND ELECTRIC ILLUMINATING COMPANYNOTICE OF ISSUANCE OF AMENDMENT TO FACILITY
OPERATING LICENSE

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 25 to Facility Operating License No. NPF-3, issued to The Toledo Edison Company and The Cleveland Electric Illuminating Company (the licensees), which revised Technical Specifications for operation of the Davis-Besse Nuclear Power Station, Unit No. 1 (the facility) located in Ottawa County, Ohio. The amendment is effective as of its date of issuance.

The amendment modifies the Technical Specifications on surveillance frequency for venting the Emergency Core Cooling System pump casings and discharge piping high points. This amendment also corrects a typographical error in Table 3.7-3, "Safety of Hydraulic Snubbers".

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. Prior public notice of this amendment was not required since the amendment does not involve a significant hazards consideration.

The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR §51.5(d)(4) an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with issuance of this amendment.

8007210340

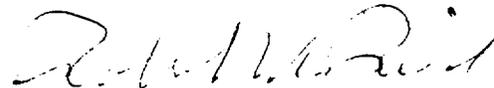
-2-

For further details with respect to this action, see (1) the application for amendment dated October 23, 1978, as supplemented January 26, 1979, (2) Amendment No. 25 to License No. NPF-3, and (3) the Commission's related Safety Evaluation. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C. and at the Ida Rupp Public Library, 310 Madison Street, Port Clinton, Ohio.

A copy of items (2) and (3) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Licensing.

Dated at Bethesda, Maryland, this 2nd day of July 1980,

FOR THE NUCLEAR REGULATORY COMMISSION



Robert W. Reid, Chief
Operating Reactors Branch #4
Division of Licensing



UNITED STATES
 NUCLEAR REGULATORY COMMISSION
 WASHINGTON, D.C. 20555
July 2, 1980

DISTRIBUTION
 Docket File
 ORB#4 Rdg
 RIngram

Docket No. **50-346**

Docketing and Service Section
 Office of the Secretary of the Commission

SUBJECT: **DAVIS-BESSE 1**

Two signed originals of the Federal Register Notice identified below are enclosed for your transmittal to the Office of the Federal Register for publication. Additional conformed copies (**12**) 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 Availability of Applicant's Environmental Report.
- Notice of Proposed 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).

Other: **Amendment No. 25**

Referenced documents have been provided PDR

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

Enclosure:
 As Stated

OFFICE →	ORB#4:DL <i>ri</i>					
SURNAME →	RIngram/cb					
DATE →	7/3/80					