



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. 112
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 27, 1987 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 Appendices A and B, as revised through Amendment No. 112, 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 July 9, 1988.

FOR THE NUCLEAR REGULATORY COMMISSION

Albert M. McLaughlin for

Kenneth E. Perkins, Director
Project Directorate III-3
Division of Reactor Projects - III, IV,
V, & Special Projects

Attachment: Changes to the Technical
Specifications

Date of Issuance: May 25, 1988

ATTACHMENT TO LICENSE AMENDMENT NO. 112

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 3-15
3/4 3-17
3/4 3-19
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Insert

3/4 3-15
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TABLE 3.3-5 (Continued)

SAFETY FEATURES SYSTEM RESPONSE TIMES

<u>INITIATING SIGNAL AND FUNCTION</u>	<u>RESPONSE TIME IN SECONDS</u>
i. Containment Isolation Valves (cont'd)	
5. Pressurizer Sample	NA
6. Service Water to Cooling Water	NA
7. Vent Header	NA
8. Drain Tank	NA
9. Core Flood Tank Vent	NA
10. Core Flood Tank Fill	NA
11. Steam Generator Sample	NA
12. Atmospheric Vent	NA
13. Quench Tank	NA
14. Emergency Sump	NA
15. RCP Seal Return	NA
16. Air Systems	NA
17. N ₂ System	NA
18. Quench Tank Sample	NA
19. Main Steam Warmup Drain	NA
20. RCP Seal Inlet	NA
21. Core Flood Tank Sample	NA
22. RCP Standpipe Demin Water Supply	NA
23. Containment H ₂ Dilution Inlet	NA
24. Containment H ₂ Dilution Outlet	NA
j. BWST Outlet Valves	NA
k. Low Pressure Injection	
1. Decay Heat Pumps	NA
2. Low Pressure Injection Valves	NA
3. Decay Heat Pump Suction Valves	NA
4. Decay Heat Cooler Outlet Valves	NA
5. Decay Heat Cooler Bypass Valves	NA
l. Containment Spray Pump	NA
m. Component Cooling Isolation Valves	
1. Inlet to Containment	NA
2. Outlet from Containment	NA
3. Inlet to CRDM's	NA
4. CRDM Booster Pump Suction	NA
5. Component Cooling from Decay Heat Coolers	NA
n. Steam and Feedwater Isolation Valves	
1. Main Steam Line	NA

TABLE 3.3-5 (Continued)

SAFETY FEATURES SYSTEM RESPONSE TIMES

<u>INITIATING SIGNAL AND FUNCTION</u>	<u>RESPONSE TIME IN SECONDS</u>
n. Steam and Feedwater Isolation Valves (continued)	
2. Main Feedwater Stop	NA
3. Main Steam Warmup	NA
2. Containment Pressure - High	
a. Fans	
1. Emergency Vent Fans	≤ 25*
2. Containment Cooler Fans	≤ 45*
b. HV & AC Isolation Valves	
1. ECCS Room	≤ 75*
2. Emergency Ventilation	≤ 75*
3. Containment Air Sample	≤ 30*
4. Containment Purge	≤ 15*
5. Penetration Room Purge	≤ 75*
c. Control Room HV & AC Units	≤ 10*
d. High Pressure Injection	
1. High Pressure Injection Pumps	≤ 30*
2. High Pressure Injection Valves	≤ 30*
e. Component Cooling Water	
1. Component Cooling Water Pumps	≤ 180*
2. Component Cooling Aux. Equip. Inlet Valves	≤ 180*
3. Component Cooling to Air Compressor Valves	≤ 180*
f. Service Water System	
1. Service Water Pumps	≤ 45*
2. Service Water From Component Cooling Heat Exchanger Isolation Valves	≤ NA*
g. Containment Spray Isolation Valves	≤ 80*
h. Emergency Diesel Generator	≤ 15*

TABLE 3.3-5 (Continued)

SAFETY FEATURES SYSTEM RESPONSE TIMES

<u>INITIATING SIGNAL AND FUNCTION</u>	<u>RESPONSE TIME IN SECONDS</u>
2. Containment Pressure - High (Continued)	
i. Containment Isolation Valves	
1. Vacuum Relief	< 30*
2. Normal Sump	< 25*
3. RCS Letdown Delay Coil Outlet	< 30*
4. RCS Letdown High Temperature	< 30*
5. Pressurizer Sample	< 48*
6. Service Water to Cooling Water	< 45*
7. Vent Header	< 15*
8. Drain Tank	< 15*
9. Core Flood Tank Vent	< 15*
10. Core Flood Tank Fill	< 15*
11. Steam Generator Sample	< 15*
12. Atmospheric Vent	< 17*
13. Quench Tank	< 15*
14. Emergency Sump	NA*
15. RCP Seal Return	< 45*
16. Air System	< 15*
17. N ₂ System	< 15*
18. Quench Tank Sample	< 35*
19. Main Steam Warmup Drain	< 15*
20. RCP Seal Inlet	< 17*
21. Core Flood Tank Sample	< 15*
22. RCP Standpipe Demin Water Supply	< 15*
23. Containment H ₂ Dilution Inlet	< 75*
24. Containment H ₂ Dilution Outlet	< 75*
j. BWST Outlet Valves	NA*
k. Low Pressure Injection	
1. Decay Heat Pumps	< 30*
2. Low Pressure Injection Valves	< NA*
3. Decay Heat Pump Suction Valves	< NA
4. Decay Heat Cooler Outlet Valves	< NA*
5. Decay Heat Cooler Bypass Valves	< NA*
3. Containment Pressure--High-High	
a. Containment Spray Pump	< 80*
b. Component Cooling Isolation Valves	
1. Inlet to Containment	< 25*
2. Outlet from Containment	< 25*

TABLE 3.3-5 (Continued)

SAFETY FEATURES SYSTEM RESPONSE TIMES

<u>INITIATING SIGNAL AND FUNCTION</u>	<u>RESPONSE TIME IN SECONDS</u>
b. Component Cooling Isolation Valves (Continued)	
3. Inlet to CRDM's	< 35*
4. CRDM Booster Pump Suction	< 35*
5. Component Cooling from Decay Heat Cooler	NA*
c. Steam and Feedwater Isolation Valves	
1. Main Steam Line	< 10*
2. Main Feedwater Stop	< 30*
3. Main Steam Warmup	< 15*
4. RCS Pressure-Low	
a. Fans	
1. Emergency Vent Fans	< 25*
2. Containment Cooler Fans	< 45*
b. HV & AC Isolation Valves	
1. ECCS Room	< 75*
2. Emergency Ventilation	< 75*
3. Containment Air Sample	< 30*
4. Containment Purge	< 15*
5. Penetration Room Purge	< 75*
c. Control Room HV & AC Units	< 10*
d. High Pressure Injection	
1. High Pressure Injection Pumps	< 30*
2. High Pressure Injection Valves	< 30*
e. Component Cooling Water	
1. Component Cooling Water Pumps	< 180*
2. Component Cooling Aux. Equipment Inlet Valves	< 180*
3. Component Cooling to Air Compressor Valves	< 180*
f. Service Water System	
1. Service Water Pumps	< 45*
2. Service Water from Component Cooling Heat Exchanger Isolation Valves	< NA*
g. Containment Spray Isolation Valves	< 90*
h. Emergency Diesel Generator	< 15*

TABLE 3.3-5 (Continued)

SAFETY FEATURES SYSTEM RESPONSE TIMES

<u>INITIATING SIGNAL AND FUNCTION</u>	<u>RESPONSE TIME IN SECONDS</u>
4. RCS Pressure-Low (continued)	
i. Containment Isolation Valves	
1. Vacuum Relief	< 30*
2. Normal Sump	< 25*
3. RCS Letdown Delay Coil Outlet	< 30*
4. RCS Letdown High Temperature	< 30*
5. Pressurizer Sample	< 45*
6. Service Water to Cooling Water	< 45*
7. Vent Header	< 15*
8. Drain Tank	< 15*
9. Core Flood Tank Vent	< 15*
10. Core Flood Tank Fill	< 15*
11. Steam Generator Sample	< 15*
12. Atmospheric Vent	< 17*
13. Quench Tank	< 15*
14. Emergency Sump	NA*
15. Air Systems	< 15*
16. N ₂ System	< 15*
17. Quench Tank Sample	< 35*
18. Main Steam Warmup Drain	< 15*
19. Core Flood Tank Sample	< 15*
20. RCP Standpipe Demin Water Supply	< 15*
21. Containment H ₂ Dilution Inlet	< 75*
22. Containment H ₂ Dilution Outlet	< 75*
j. BWST Outlet Valves	NA*
5. RCS Pressure--Low-Low	
a. Low Pressure Injection	
1. Decay Heat Pumps	< 30*
2. Low Pressure Injection Valves	< NA*
3. Decay Heat Pump Suction Valves	< NA*
4. Decay Heat Cooler Outlet Valves	< NA*
5. Decay Heat Cooler Bypass Valves	< NA*
b. Component Cooling Isolation Valves	
1. Auxiliary Equipment Inlet	< 90*
2. Inlet to Air Compressor	< 90*
3. Component Cooling from Decay Heat Cooler	< NA*
c. Containment Isolation Valves	
1. RCP Seal Return	< 45*
2. RCP Seal Inlet	< 17*

TABLE 3.3-5 (Continued)

SAFETY FEATURES SYSTEM RESPONSE TIMES

<u>INITIATING SIGNAL AND FUNCTION</u>	<u>RESPONSE TIME IN SECONDS</u>
6. Containment Radiation - High	
a. Emergency Vent Fans	≤ 25*
b. HV & AC Isolation Valves	
1. ECCS Room	< 75*
2. Emergency Ventilation	< 75*
3. Containment Air Sample	< 30*
4. Containment Purge	< 15*
5. Penetration Room Purge	< 75*
c. Control Room HV & AC Units	≤ 10*

TABLE NOTATION

- * Diesel generator starting and sequence loading delays included when applicable. Response time limit includes movement of valves and attainment of pump or blower discharge pressure.

TABLE 3.6-2

CONTAINMENT ISOLATION VALVES (Continued)

<u>PENETRATION NUMBER</u>	<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>ISOLATION TIME (seconds)</u>
16	RC1719A	Containment Vessel Vent Header	10
16	RC1719B	Containment Vessel Vent Header	10
18 #	SS598	Steam Generator Secondary Water Sample Line	10
19 #	HP2A	High Pressure Injection Line	15
20 #	HP2B	High Pressure Injection Line	15
21	DW6831A	Demineralized Water Supply Line	10
21	DW6831B	Demineralized Water Supply Line	10
22 #	HP2D	High Pressure Injection Line	15
25	CS1531	Containment Spray Line	35
26	CS1530	Containment Spray Line	35
30 #	DH9A	Containment Sump Emergency Recirc Line	71
31 #	DH9B	Containment Sump Emergency Recirc Line	71
32	RC1773A	RCS Drain to RC Drain Tank	10
32	RC1773B	RCS Drain to RC Drain Tank	10
37 #	FW601	Main Feedwater Line	15
38 #	FW612	Main Feedwater Line	15
**39 #	MS100	Main Steam Line	5
**39 #	ICS11A	Main Steam Line	10
39 #	MS375	Main Steam Line	10
39 #	MS100-1	Main Steam Line	10
**40 #	MS101	Main Steam Line	5
**40 #	ICS11B	Main Steam Line	10
40 #	MS394	Main Steam Line	10
40 #	MS101-1	Main Steam Line	10

TABLE 3.6-2

CONTAINMENT ISOLATION VALVES (Continued)

<u>PENETRATION NUMBER</u>	<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>ISOLATION TIME (seconds)</u>
41	RC232	Pressurizer Quench Tank Circulating Inlet Line	10
42A	SA2010	Service Air Supply Line	10
42B	CV5010E	Containment Vessel Air Sample Return	15
43A	IA2011	Instrument Air Supply Line	10
43B	CV5011E	Containment Vessel Air Sample Return	15
44A	CF1541	Core Flood Tank Fill and N2 Supply Line	10
44B	NN236	Pressurizer Quench Tank N2 Supply Line	10
47A	CV1545	Core Flood Tank Sample Line	10
47B	CV1542	Core Flood Tank Vent Line	10
48	RC229A	Pressurizer Quench Tank Circulating Outlet Line	10
48	RC229B	Pressurizer Quench Tank Circulating Outlet Line	10
50 #	HP2C	High Pressure Injection Line	15
51	CV5037	Hydrogen Purge System Exhaust Line	60
51	CV5038	Hydrogen Purge System Exhaust Line	60
52	MU66A	Reactor Coolant Pump Seal Supply	12
53	MU66B	Reactor Coolant Pump Seal Supply	12
54	MU66C	Reactor Coolant Pump Seal Supply	12
55	MU66D	Reactor Coolant Pump Seal Supply	12
56	MU38	Reactor Coolant Pump Seal Return	12
56	MU59A	Reactor Coolant Pump Seal Return	30
56	MU59B	Reactor Coolant Pump Seal Return	30
56	MU59C	Reactor Coolant Pump Seal Return	30
56	MU59D	Reactor Coolant Pump Seal Return	30
57 #	MS603	Steam Generator Blowdown Line	80
60 #	MS611	Steam Generator Blowdown Line	80

TABLE 3.6-2

CONTAINMENT ISOLATION VALVES (Continued)

<u>PENETRATION</u> <u>NUMBER</u>	<u>VALVE</u> <u>NUMBER</u>	<u>FUNCTION</u>	<u>ISOLATION</u> <u>TIME</u> (seconds)
67	CV5090	Hydrogen Dilution System Supply	60
68A	SS235A	Pressurizer Quench Tank Sample	30
68A	SS235B	Pressurizer Quench Tank Sample	30
68B	CV5010B	Containment Air Sample	15
68B	CV5011B	Containment Air Sample	15
69	CV5065	Hydrogen Dilution System Supply	60
71B	CV5010A	Containment Air Sample	15
71B	CV5011A	Containment Air Sample	15
71C	CV1544	Core Flood Tank N2 Fill	10
73B	CV5010C	Containment Air Sample	15
73B	CV5011C	Containment Air Sample	15
74B	CV5010D	Containment Air Sample	15
74B	CV5011D	Containment Air Sample	15
B. CONTAINMENT PURGE AND EXHAUST ISOLATION			
33 ##	CV5005	Containment Vessel Purge Inlet Line	10
33 ##	CV5006	Containment Vessel Purge Inlet Line	10
34 ##	CV5007	Containment Vessel Purge Outlet Line	10
34 ##	CV5008	Containment Vessel Purge Outlet Line	10
C. OTHER			
5 #	SW1366	Containment Air Cooling Units SW Inlet Line	N/A
6 #	SW1368	Containment Air Cooling Units SW Inlet Line	N/A
7 #	SW1367	Containment Air Cooling Units SW Inlet Line	N/A
9 #	SW1356	Containment Air Cooling Units SW Outlet Line	N/A

TABLE 3.6-2

CONTAINMENT ISOLATION VALVES (Continued)

<u>PENETRATION NUMBER</u>	<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>ISOLATION TIME (seconds)</u>
10 #	SW1358	Containment Air Cooling Units SW Outlet Line	N/A
11 #	SW1357	Containment Air Cooling Units SW Outlet Line	N/A
17	CV343	Containment Vessel Leak Test Inlet Line	
17	Flange	Containment Vessel Leak Test Inlet Line (Inside Containment)	N/A
19	MU6422	Normal RCS Makeup Line	N/A
19 #	HP57	High Pressure Injection Line	N/A
20 #	HP56	High Pressure Injection Line	N/A
22 #	HP49	High Pressure Injection Line	N/A
23 #	SF1	Fuel Transfer Tube	N/A
23	Flange	Fuel Transfer Tube	N/A
24 #	SF2	Fuel Transfer Tube	N/A
24	Flange	Fuel Transfer Tube	N/A
*25	CS33	Containment Spray Line	N/A
*25	CS17	Containment Spray Line	N/A
25	SA536	Containment Spray Line	N/A
25	SA532	Containment Spray Line	N/A
*26	CS36	Containment Spray Line	N/A
*26	CS18	Containment Spray Line	N/A
26	SA535	Containment Spray Line	N/A
26	SA533	Containment Spray Line	N/A
27 #	DH1A	Low Pressure Injection Line	N/A
27 #	DH76	Low Pressure Injection Line	N/A
28 #	DH1B	Low Pressure Injection Line	N/A
28 #	DH77	Low Pressure Injection Line	N/A

TABLE 3.6-2

CONTAINMENT ISOLATION VALVES (Continued)

<u>PENETRATION VALVE NUMBER</u>	<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>ISOLATION TIME</u>
*29 #	DH11	Decay Heat Pump Suction Line	N/A
*29	DH23	Decay Heat Pump Suction Line	N/A
29 #	PSV4849	Decay Heat Pump Suction Line	N/A
35 #	AF599	Auxiliary Feedwater Line	N/A
36 #	AF608	Auxiliary Feedwater Line	N/A
*39 #	MS107	Main Steam Line	N/A
*39 #	MS107A	Main Steam Line	N/A
*40 #	MS106	Main Steam Line	N/A
*40 #	MS106A	Main Steam Line	N/A
41	RC113	Pressurizer Quench Tank Inlet Line	N/A
42A	SA502	Service Air Supply Line	N/A
42B	CV124	Containment Vessel Air Sample Return	N/A
43A	IA501	Service Air Supply Line	N/A
43B	CV125	Containment Vessel Air Sample Return	N/A
44A	CF15	Core Flood Tank Fill and Nitrogen Supply Line	N/A
44B	NN58	Pressurizer Quench Tank Inlet Line	N/A
*47A	CF2A	Core Flood Tank Sample Line	N/A
*47A	CF2B	Core Flood Tank Sample Line	N/A
*47B	CF5A	Core Flood Tank Vent Line	N/A
*47B	CF5B	Core Flood Tank Vent Line	N/A
49	DHd7	Refueling Canal Fill Line	N/A
49	DH88	Refueling Canal Fill Line	N/A

TABLE 3.6-2

CONTAINMENT ISOLATION VALVES (Continued)

<u>PENETRATION NUMBER</u>	<u>VALVE NUMBER</u>	<u>FUNCTION</u>	<u>ISOLATION TIME</u>
49	DH87	Refueling Canal Fill Line	N/A
49	DH88	Refueling Canal Fill Line	N/A
50 #	HP48	High Pressure Injection	N/A
50	MU6421	RCS Makeup Line	N/A
52	MU242	RCP Seal Water Supply	N/A
53	MU243	RCP Seal Water Supply	N/A
54	MU244	RCP Seal Water Supply	N/A
55	MU245	RCP Seal Water Supply	N/A
Deleted			
Deleted			
Deleted			
Deleted			
59	Flange	Secondary Side Cleaning (Inside Containment)	N/A
59	Flange	Secondary Side Cleaning (Outside Containment)	N/A
67	CV209	Hydrogen Dilution System Supply	N/A
69	CV210	Hydrogen Dilution System Supply	N/A
71A #	CV2000B	Containment Pressure Sensor	N/A
71C	CF16	Core Flood Tank Nitrogen Fill Line	N/A
72A #	CV2001B	Containment Pressure Sensor	N/A
72C #	CV624B	Containment Pressure Differential Transmitter	N/A
73A #	CV2002B	Containment Pressure Sensor	N/A
73C #	CV645B	Containment Pressure Differential Transmitter	N/A
74A #	CV2003B	Containment Pressure Sensor	N/A
*74C	DH2735	Pressurizer Auxiliary Spray	N/A
*74C	DH2736	Pressurizer Auxiliary Spray	N/A

*May be opened on an intermittent basis under administrative control.

#Not subject to Type C leakage tests.

**Surveillance testing not required prior to entering MODE 4 but shall be performed prior to entering Mode 3.

##Provisions of Specification 3.0.4 are not applicable provided the valve is in the closed positions and deactivated.