

October 1, 1987

Docket No. 50-382

Mr. J. G. Dewease  
Senior Vice President - Nuclear Operations  
Louisiana Power and Light Company  
317 Baronne Street, Mail Unit 17  
New Orleans, Louisiana 70160

Dear Mr. Dewease:

SUBJECT: ISSUANCE OF AMENDMENT NO. 24 TO FACILITY OPERATING LICENSE  
NPF-38 - WATERFORD STEAM ELECTRIC STATION, UNIT 3  
(TAC NO. 64893)

The Commission has issued the enclosed Amendment No. 24 to Facility Operating License No. NPF-38 for the Waterford Steam Electric Station, Unit 3. The amendment consists of changes to the Technical Specifications in response to your application dated February 23, 1987.

The amendment changes the Appendix A Technical Specifications by revising the description of fire detectors in the component cooling water pump room "A" and implementing certain name changes and correcting typographical errors for the charcoal filter units.

A copy of the Safety Evaluation supporting the amendment is also enclosed. Notice of Issuance will be included in the Commission's next Bi-weekly Federal Register notice.

Sincerely,

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James H. Wilson, Project Manager  
Project Directorate - IV  
Division of Reactor Projects - III,  
IV, V and Special Projects  
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 24 to NPF-38
2. Safety Evaluation

cc w/enclosures:  
See next page

DISTRIBUTION:

Docket File	DHagan	Wanda Jones	OGC-Bethesda
NRC PDR	PNoonan (3)	EJordan	EButcher
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LTR NAME: WATERFORD 3 AMENDMENT NO. 24

PD4/LA	PD4/PM	OGC-Bethesda	PD4/D
PNoonan	JWilson	SE Turk	JCalvo
9/28/87	9/28/87	9/29/87	10/1/87

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Mr. Jerrold C. Dewease  
Louisiana Power & Light Company

Waterford 3

cc:

W. Malcolm Stevenson, Esq.  
Monroe & Leman  
1432 Whitney Building  
New Orleans, Louisiana 70103

Mr. E. Blake  
Shaw, Pittman, Potts & Trowbridge  
2300 N Street, NW  
Washington, D.C. 20037

Resident Inspector/Waterford NPS  
Post Office Box 822  
Killona, Louisiana 70066

Mr. Ralph T. Lally  
Manager of Quality Assurance  
Middle South Services, Inc.  
Post Office Box 61000  
New Orleans, Louisiana 70161

Chairman  
Louisiana Public Service Commission  
One American Place, Suite 1630  
Baton Rouge, Louisiana 70825-1697

Mr. K. W. Cook  
Nuclear Safety and Regulatory Affairs Manager  
Louisiana Power & Light Company  
317 Baronne Street  
New Orleans, Louisiana 70160

Regional Administrator, Region IV  
U.S. Nuclear Regulatory Commission  
Office of Executive Director for  
Operations  
611 Ryan Plaza Drive, Suite 1000  
Arlington, Texas 76011

Mr. William H. Spell, Administrator  
Nuclear Energy Division  
Office of Environmental Affairs  
Post Office Box 14690  
Baton Rouge, Louisiana 70898

President, Policy Jury  
St. Charles Parris  
Hahnville, Louisiana 70057



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

LOUISIANA POWER AND LIGHT COMPANY

DOCKET NO. 50-382

WATERFORD STEAM ELECTRIC STATION, UNIT 3

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 24  
License No. NPF-38

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Louisiana Power and Light Company (the licensee) dated February 23, 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.

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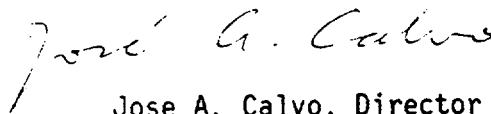
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C(2) of Facility Operating License No. NPF-38 is hereby amended to read as follows:

(2) Technical Specifications and Environmental Protection Plan

The Technical Specifications contained in Appendix A, as revised through Amendment No. 24, and the Environmental Protection Plan contained in Appendix B, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

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

FOR THE NUCLEAR REGULATORY COMMISSION



Jose A. Calvo, Director  
Project Directorate - IV  
Division of Reactor Projects - III,  
IV, V and Special Projects  
Office of Nuclear Reactor Regulation

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: October 1, 1987

ATTACHMENT TO LICENSE AMENDMENT NO. 24  
TO FACILITY OPERATING LICENSE NO. NPF-38  
DOCKET NO. 50-382

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

Remove

3/4 3-51  
3/4 3-53

Insert

3/4 3-51  
3/4 3-53

TABLE 3.3-11  
FIRE DETECTION INSTRUMENTS

ZONE	ROOM NAME/NUMBER	ELEVATION (ft)	TOTAL NUMBER OF INSTRUMENTS*		
			HEAT (x/y)	FLAME (x/y)	SMOKE (x/y)
1. REACTOR AUXILIARY BUILDING					
RAB 1A	Main Control Panels 1,2,3,4,6,7,8,35,36	+46			10/0
RAB 1A	Control Room Proper/304	+46			20/0
RAB 1B	Emergency Equip. H&V Room/314	+46			0/12
RAB 1D	Computer Room (above raised floor)/306	+46			5/0
	Computer Room (below raised floor)/306	+46			0/7
RAB 2	Ventilation Equip. Room/299	+46			0/36
RAB 3	RAB Corridor to Relay Room/261	+35	0/1(3)		4/0
	RAB HVAC Switchgear Equip. Room/323	+46			0/10
RAB 3A	RAB Battery Exhaust Fan Room/406	+69			0/2
RAB 4	Cable Vault/260	+35			0/27
RAB 5	Electrical Penetration Area "A"/263	+35			0/13
RAB 6	Electrical Penetration Area "B"/263A	+35			0/14
RAB 7	Relay Room/262	+35	(3)		12/0
	Isolation Panels (9 Compartments - 2 per comp.)	+35			2/0
RAB 8A	High Voltage Switchgear Room "A"/212A	+21	0/1(1)		18/0
RAB 8B	Electrical Equip. Room/225B and High Voltage Switchgear Room "B"/212	+21	0/1(2)		28/0
	480V Switchgear 3A32 Room	+21	(2)		2/0
RAB 8C	High Voltage Switchgear Room "A-B"/212B	+21	(1)		8/0
RAB 8E	CEA M/G Set Room/216	+21			2/0
RAB 9	Remote Shutdown Panel Room/217	+21			1/0
RAB 11	Battery Room "B"/213	+21			2/0
RAB 12	Battery Room "AB"/214A	+21			2/0
RAB 13	Battery Room "A"/214	+21			2/0
RAB 15	Emergency Diesel Gen. "B" Room/222	+21	0/1		
RAB 15A	Emergency Diesel Gen. "B" Feed TK Room/328A	+46	0/1		
RAB 16	Emergency Diesel Gen. "A" Room/221	+21	0/1		
RAB 16A	Emergency Diesel Gen. "A" Feed Tk. Room 328A	+46	0/1		
RAB 17	CCW Heat Exchanger "B"/236	+21			0/4
RAB 18	CCW Heat Exchanger "A"/220	+21			0/4
RAB 19	CCW Pump "A"/235	+21			0/2
RAB 20	CCW Pump "AB"/234	+21			0/2
RAB 21	CCW Pump "B"/233	+21			1/0
RAB 23	Corridor to CCW Pumps/218, Corridor to CCW Heat Exchangers/219 and Corridor to Emergency Diesel Gen./225A	+21			0/39

(1)Common Resistor Wire  
(2)Common Resistor Wire  
(3)Common Resistor Wire  
WATERFORD - UNIT 3

TABLE 3.3-11 (Continued)  
FIRE DETECTION INSTRUMENTS

		TOTAL NUMBER OF INSTRUMENTS*			
ZONE	ROOM NAME/NUMBER	ELEVATION (ft)	HEAT (x/y)	FLAME (x/y)	SMOKE (x/y)
1. REACTOR AUXILIARY BUILDING (Continued)					
RAB 25	Equip. Access Area/226 (wing area)	+21			15/0
RAB 27A	H&V Room/124	+ 7			0/6
RAB 27B	Electrical Area and Health Physics Offices/122	+ 7			0/35
RAB 27C	I&C Room/120	+ 7			0/6
RAB 27D	Communications Equip. Room/123	+ 7			1/0
RAB 31	Corridors and Passageways	- 4			0/24
	Corridors on eastside	- 4			0/21
RAB 32	Wing Area westside - Auxiliary Com- ponent Cooling Water Pump "A"/B53 & and Pipe Penetration Area/B100	-35 & - 4			32/0
	Wing Area Center/B53 and B100	-35 & - 4			28/0
	Wing Area eastside-Component Cooling Water Pump "B"/B53 and Pipe Penetration Area/B100	-35 - 4			31/0
RAB 33	S/D Cooling Heat Exchangers A&B/B20 & B48	-35			0/18
RAB 34	Valve Operating Enclosure Bay Room "A"/B54	-15.5			2/0
	Valve Operating Enclosure Bay Room "B" B55A	-15.5			4/0
RAB 35	Safety Injection Pump Room B/B16	-35			10/0
RAB 36	Safety Injection Pump Room A/B15	-35			10/0
RAB 37	Motor-Driven Emergency Feedpump "A"/B49A	-35			0/1
RAB 38	Motor-Driven Emergency Feedpump "B"/B49B	-35			1/0
RAB 39	General Equipment Area/B5, 12, 13, & 49	-35			0/10
	Corridors & General Equip. Areas/B5, 1, 2, 3, 4, 39, 40, 41, 42, 44 & 46	-35			0/28
	East Corridor & General Equip. Areas/ B17, 23 & 25	-35			0/15
	BA Make-up Tank "A"/B38	-35			4/0
	BA Make-up Tank "B"/B53A	-35			4/0
RAB 40	Diesel Storage Tank "A"/B50	-35			3/0
RAB 41	Diesel Storage Tank "B"/B52	-35			3/0

TABLE 3.3-11 (Continued)  
FIRE DETECTION INSTRUMENTS

ZONE	ROOM NAME/NUMBER	ELEVATION (ft)	TOTAL NUMBER OF INSTRUMENTS*		
			HEAT (x/y)	FLAME (x/y)	SMOKE (x/y)
2. REACTOR CONTAINMENT BUILDING**					
RCB 1-1	Annulus/420	+46, +21			35/0
RCB 1-2	Annulus/420	+21, -4			34/0
RCB 2	Electrical Penetration Area A	+21			24/0
RCB 3	Electrical Penetration Area B	+21			21/0
RCB 4	Reactor Cable Trays	+46			16/0
CT 1&3	Wet & Dry Cooling Tower "A" Cable Tray		1/0		
CT 2&4	Wet & Dry Cooling Tower "B" Cable Tray		1/0		
3. FUEL HANDLING BUILDING					
FHB 2	Purification Pump Room/B155, Fuel Pool Pump "A"/B157, Fuel Pool Pump "B"/B156, Fuel Pool Heater Exchanger/B158 and Access Area/B-161	+ 1			10/0
	Emergency Filter Train Unit/B152	+ 1			6/0
	Emergency Elect. Equip. Room/B151	+ 1			1/0
FHB 4	Operating Floor/361	+46			15/0
4. CHARCOAL AIR FILTER UNITS					
E-35 (3A-SA)	FHB Emergency Filter Train "A"	+ 1	1/0		
E-35 (3B-SB)	FHB Emergency Filter Train "B"	+ 1	1/0		
E-17 (3A-SA)	Shield Building Ventilation System Filter Train "A"	+46	1/0		
E-17 (3B-SB)	Shield Building Ventilation System Filter Train "B"	+46	1/0		
E-23 (3A-SA)	Controlled Ventilation Area System Filter Train "A"	+46	1/0		
E-23 (3A-SB)	Controlled Ventilation Area System Filter Train "B"	+46	1/0		
S-8 (3A-SA)	Control Room Emergency Filter Train "A"	+46	1/0		
S-8 (3B-SB)	Control Room Emergency Filter Train "B"	+46	1/0		

TABLE NOTATIONS

\*(x/y): x is the number of Function A (early warning fire detection and notification only) instruments.  
y is the number of Function B (actuation of fire suppression systems and early warning and notification) instruments.

\*\*The fire detection instruments located within the containment are not required to be OPERABLE during the performance of Type A containment leakage rate tests.



## INSTRUMENTATION

### LOOSE-PART DETECTION INSTRUMENTATION

#### LIMITING CONDITION FOR OPERATION

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3.3.3.9 The loose-part detection system shall be OPERABLE.

APPLICABILITY: MODES 1 and 2.

#### ACTION:

- a. With one or more loose-part detection system channels inoperable for more than 30 days, prepare and submit a Special Report to the Commission pursuant to Specification 6.9.2 within the next 10 days outlining the cause of the malfunction and the plans for restoring the channel(s) to OPERABLE status.
- b. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.

### SURVEILLANCE REQUIREMENTS

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4.3.3.9 Each channel of the loose-part detection system shall be demonstrated OPERABLE by performance of:

- a. a CHANNEL CHECK at least once per 24 hours,
- b. a CHANNEL FUNCTIONAL TEST at least once per 31 days, and
- c. a CHANNEL CALIBRATION at least once per 18 months.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 24 TO

FACILITY OPERATING LICENSE NO. NPF-38

LOUISIANA POWER AND LIGHT COMPANY

WATERFORD STEAM ELECTRIC STATION, UNIT 3

DOCKET NO. 50-382

1.0 INTRODUCTION

By application dated February 23, 1987, Louisiana Power and Light Company (licensee) requested changes to the Technical Specifications (Appendix A to Facility Operating License No. NPF-38) for Waterford Steam Electric Station, Unit 3. The proposed changes would revise the description of fire detectors in the component cooling water pump room "A" and implement certain name changes and correct typographical errors for the charcoal filter units.

2.0 DISCUSSION

The changes would revise the Technical Specification Table 3.3-11, "Fire Detection Instruments" to change the two "Function A" (early fire detection and notification only) smoke detectors in the component cooling water (CCW) pump "A" room to "Function B" (actuation of fire suppression systems and early warning and notification). In addition, the licensee proposed to implement certain name changes and correct typographical errors for the charcoal air filter units.

Presently, Table 3.3-11 indicates the presence of two smoke detectors in the CCW pump A room which provide early warning fire detection and notification but do not actuate fire suppression systems. As part of the Associated Circuits Analysis modifications implemented during the first refueling outage for Waterford 3, an existing pre-action sprinkler system was extended into this room. Local control panel modifications allowed the use of existing early warning notification smoke detectors to also provide suppression system actuation. The proposed change will revise the smoke detector designation from Function A to Function B to reflect the additional detector capability.

The proposed changes to Table 3.3-11 for the charcoal filter units will correct typographical errors in filter train identification numbers and revise room name descriptions to be consistent with Waterford 3 standard usage.

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### 3.0 EVALUATION

The limiting conditions for operation for fire detectors that serve dual function of early fire warning and fire suppression system actuation are more conservative than for the single function of early fire warning. Consequently, when the licensee implemented the above-described modification, it was necessary to change the characterization of these detectors so as to apply the more restrictive action statements. The change is consistent with the Standard Technical Specifications and conforms with staff fire protection guidelines delineated in Branch Technical Position (BTP) CMEB 9.5-1.

The revisions to the description of the fire detectors for the charcoal air filter units are for administrative reasons only and have no safety significance.

The staff, therefore, concludes that the licensee's proposed amendment to the technical specifications pertaining to fire detectors, as delineated in the February 23, 1987 submittal, conforms with the standard technical specifications and BTP CMEB 9.5-1 and is acceptable.

### 4.0 CONTACT WITH STATE OFFICIAL

The NRC staff has advised the Administrator, Nuclear Energy Division, Office of Environmental Affairs, State of Louisiana of the proposed determination of no significant hazards consideration. No comments were received.

### 5.0 ENVIRONMENTAL CONSIDERATION

The amendment relates to changes in installation or use of a facility component located within the restricted area. 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. 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 this amendment.

### 6.0 CONCLUSION

Based upon its evaluation of the proposed changes to the Waterford 3 Technical Specifications, the staff has concluded that: there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and such activities will be conducted in compliance with the Commission's regulations and the issuance of the amendment will not be inimical

to the common defense and security or to the health and safety of the public. The staff, therefore, concludes that the proposed changes are acceptable, and are hereby incorporated into the Waterford 3 Technical Specifications.

Dated: October 1, 1987

Principal Contributor: D. Kubicki