

February 9, 1988

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 70112

Dear Mr. Dewease:

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SUBJECT: ISSUANCE OF AMENDMENT NO. 28 TO FACILITY OPERATING LICENSE  
NPF-38 - WATERFORD STEAM ELECTRIC STATION, UNIT 3  
(TAC NO. 66293)

The Commission has issued the enclosed Amendment No. 28 to Facility Operating License No. NPF-38 for the Waterford Steam Electric Station, Unit 3. The amendment consists of changes to the Technical Specifications (TSs) in response to your application dated August 28, 1987.

The amendment changes the Appendix A Technical Specifications by adding operability and surveillance requirements for newly-installed fire suppression equipment for the Charcoal filtration system.

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,  
*IS*  
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. 28 to NPF-38
  2. Safety Evaluation

cc w/enclosures:  
See next page

LTR NAME: WATERFORD 3 AMENDMENT NO. 66 *12/29/87*

PD4/LA *[Signature]*  
PNoonan  
*12/29/87*

PD4/PM *[Signature]*  
JWilson  
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*RUC*  
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Mr. Jerrold G. Dewease  
Louisiana Power & Light Company

Waterford 3

cc:

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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. 28  
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 August 28, 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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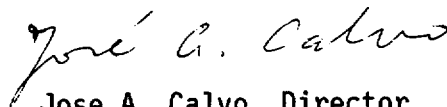
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C(2) of Facility Operating License No. NPF-38 is hereby amended to read as follows:

(2) Technical Specifications and Environmental Protection Plan

The Technical Specifications contained in Appendix A, as revised through Amendment No. 28, 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: February 9, 1988

ATTACHMENT TO LICENSE AMENDMENT NO. 28  
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 7-32  
3/4 7-33

Insert

3/4 7-32  
3/4 7-33

PLANT SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

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4.7.10.1.3 Each fire pump diesel starting 12-volt battery bank and charger shall be demonstrated OPERABLE:

- a. At least once per 7 days by verifying that:
  1. The electrolyte level of each battery is above the plates, and
  2. The overall battery voltage is greater than or equal to 12 volts.
- b. At least once per 92 days by verifying that the specific gravity is appropriate for continued service of the battery.
- c. At least once per 18 months by verifying that:
  1. The batteries and battery racks show no visual indication of physical damage or abnormal deterioration, and
  2. The battery-to-battery and terminal connections are clean, tight, free of corrosion, and coated with anticorrosion material.

PLANT SYSTEMS

SPRAY AND/OR SPRINKLER SYSTEMS

LIMITING CONDITION FOR OPERATION

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3.7.10.2 The following spray and/or sprinkler systems shall be OPERABLE:

<u>Sprinkler No.</u>	<u>Bldg./Elev.</u>	<u>Location</u>
FPM-1	RCB	Reactor Coolant Pumps 1A, 1B
FPM-2	RCB	Reactor Coolant Pump 2A, 2B
FPM-3A	RAB +21, +46	Diesel Generator Area A, Feed Tank Room A
FPM-4B	RAB +21, +46	Diesel Generator Area B, Feed Tank Room B
FPM-11A	RAB -35	Emergency D/G Fuel Oil Tank A
FPM-12B	RAB -35	Emergency D/G Fuel Oil Tank B
FPM-16	FWPH +15	Fire Water Pump House
FPM-17	RAB +35	Cable Vault Area
FPM-18	RAB +35	Electrical Penetration Area 1
FPM-19	RAB +35	Electrical Penetration Area 2
FPM-22	RAB -4	Corridor and Blowdown Tank Rooms
FPM-23	RAB -35	Corridor, Shutdown Heat Exchanger Rooms, EFW Pump Room
FPM-24	RAB +21	Corridors, CCW Area
FPM-25B	RAB +21	North High Voltage Switchgear Room
FPM-26	RAB +46	Ventilation Equipment Rooms
FPM-27	RAB +7	HVAC Rooms
FPM-28	RAB -35	Auxiliary Component Cooling Water Pump Rooms
FPM-29	RAB +35	Relay Room, Corridor
FPM-30A	RAB +21	South High Voltage Switchgear Room
FPM-33	RAB +46	E-17(3A-SA) Shield Building Ventilation System Filter, Train A Charcoal Adsorber
FPM-34	RAB +46	E-17(3B-SB) Shield Building Ventilation System Filter, Train B Charcoal Adsorber
FPM-36	RAB +46	E-23(3A-SA) Controlled Ventilation Area System Filter, Train A Charcoal Adsorber
FPM-37	RAB +46	E-23(3B-SB) Controlled Ventilation Area System Filter, Train B Charcoal Adsorber

APPLICABILITY: Whenever equipment protected by the spray/sprinkler system is required to be OPERABLE.

ACTION:

- a. With one or more of the above required spray and/or sprinkler systems inoperable, within 1 hour establish a continuous fire watch with backup fire suppression equipment for those areas in which redundant systems or components could be damaged unless the spray and/or sprinkler system(s) is located inside the containment, then inspect that containment area at least once per 8 hours or monitor air temperature at least once per hour at the locations listed in Specification 4.6.1.5; for other areas, establish an hourly fire watch patrol.
- b. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.

## PLANT SYSTEMS

### SURVEILLANCE REQUIREMENTS

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4.7.10.2 Each of the above required spray and/or sprinkler systems 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.
- b. At least once per 12 months by cycling each testable valve in the flow path through at least one complete cycle of full travel.
- c. At least once per 18 months:
  1. By performing a system functional test which includes simulated automatic actuation of the system, and:
    - a) Verifying that the automatic valves in the flow path actuate to their correct positions on a thermal/preaction test signal, and
    - b) Cycling each valve in the flow path that is not testable during plant operation through at least one complete cycle of full travel.
  2. By a visual inspection of the dry pipe spray and sprinkler headers to verify their integrity, and
  3. By a visual inspection of each nozzle's spray area to verify the spray pattern is not obstructed.
- d. At least once per 3 years by performing an air flow test through each open head spray and sprinkler header\* system listed in Section 3.7.10.2 and verifying the spray nozzles are unobstructed.

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\*In lieu of an air flow test, the charcoal filter system spray nozzles need only be visually inspected and verified to be unobstructed each time the charcoal is changed.



## PLANT SYSTEMS

## HALON SYSTEMS

### LIMITING CONDITION FOR OPERATION

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3.7.10.3 The computer room Halon system shall be OPERABLE.

APPLICABILITY: Whenever equipment protected by the Halon system is required to be OPERABLE.

ACTION:

- a. With the above required Halon system inoperable, within 1 hour establish an hourly fire watch patrol.
- b. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.

### SURVEILLANCE REQUIREMENTS

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4.7.10.3 The above required Halon system 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 is in its correct position.
- b. At least once per 6 months by verifying Halon storage tank weight to be at least 95% of full charge weight (level) and pressure to be at least 90% of full charge pressure.
- c. At least once per 18 months by verifying:
  1. The system, including associated ventilation dampers and fire door release mechanisms, actuates manually and automatically, upon receipt of a simulated test signal, and
  2. Performance of a flow test through headers and nozzles to assure no blockage.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 28 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 October 10, 1987, Louisiana Power and Light Company (LP&L or the licensee) requested change to Facility Operating License No. NPF-38 for Waterford Steam Electric Station, Unit 3 (Waterford 3). The proposed change would revise Technical Specification Limiting Condition for Operation (LCO) 3.7.10.2 and its associated Surveillance Requirement 4.7.10.2 to add operability and surveillance requirements for newly-installed fire suppression equipment in the charcoal absorber sections of certain of Waterford 3's Shield Building Ventilation System (SBVS) and Controlled Ventilation Area System (CVAS).

2.0 DISCUSSION

The licensee has installed manually activated deluge suppression capability in the charcoal absorber sections of certain ventilation systems including the SBVS and CVAS. The suppression capability was added to mitigate the consequences of a fire in the charcoal absorber, the primary cause of which is considered to be autoignition of the charcoal resulting from the decay heat from captured radioactive particles absorbed on the charcoal.

LCO 3.7.10.2 specifies the number and location of sprinkler and spray systems that must be maintained in an operable condition. The proposed change would add the newly-installed charcoal filter spray system to this LCO. In addition, the proposed change adds surveillance requirement 4.7.10.2d which requires an air flow test through each open head spray or sprinkler system every three years to verify that the spray nozzles are unobstructed. This surveillance requirement is being proposed to make the Waterford 3 Technical Specification surveillance requirements more closely conform with those in the standard Technical Specifications. However, since the charcoal filter spray system nozzles can be accessed only when the charcoal has been removed, a note has been added to the proposed surveillance requirement indicating that a visual inspection of the charcoal filter system spray nozzles verifying that they are unobstructed may be performed in lieu of the air flow test. The performance of a visual inspection in lieu of an air flow test is consistent with guidance contained in National Fire Protection Association standards pertaining to the maintenance of fire protection systems and is, therefore, acceptable. The visual inspection will be performed every time the charcoal is changed.

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### 3.0 EVALUATION

The proposed Technical Specification changes implement requirements necessary to demonstrate operability of recently-installed deluge suppression equipment in charcoal adsorber sections of certain ventilation systems. As this equipment was added to increase the overall level of fire protection at Waterford 3, and the proposed Technical Specification change will provide the mechanism for insuring that the equipment remains operable, the staff concludes that the proposed changes to Technical Specification LCO 3.7.10.2 and its associated Surveillance Requirement 4.7.10.2 are 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: February 9, 1988

Principal Contributor: J. Wilson