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 DISTRIBUTION: Docket File NRC PDR Local PDR PD4 Reading DHagan PNoonan (3) DWigginton JCalvo TBarnhart (4) LRubenstein

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Dear Mr. Dewease:

SUBJECT: ISSUANCE OF AMENDMENT NO. 40 TO FACILITY OPERATING LICENSE NPF-38 - WATERFORD STEAM ELECTRIC STATION, UNIT 3 (TAC NO. 67368)

The Commission has issued the enclosed Amendment No. 40 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 January 28, 1988 as supplemented May 20, 1988.

The amendment changes the Appendix A Technical Specifications by removing the operability and surveillance requirements for Log Power Channels when reactor thermal power is above 1.0E-4% of rated thermal power.

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,

/s/ David L. Wigginton, Project Manager Project Directorate - IV Division of Reactor Projects - III, IV, V and Special Projects Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 40 to NPF-38

2. Safety Evaluation

cc w/enclosures: See next page

LTR NAME: AMENDMENT TAC 67368 PD4/LADM PD4/PM RSB mW OGC-Rockville PNoonan DWigginton: WHodges SETURY 06/6/88 06/16/88 06/23/88

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

July 19, 1988

Docket No. 50-382

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David L. Wigginton, Project Manager Project Directorate - IV Division of Reactor Projects - III, IV, V and Special Projects Office of Nuclear Reactor Regulation

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- 1. Amendment No. 40 to NPF-38
- 2. Safety Evaluation

cc w/enclosures: See next page Mr. Jerrold G. Dewease Louisiana Power & Light Company

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

Mr. R. F. Burski, Acting Nuclear Safety and Regulatory Affairs Manager Louisiana Power & Light Company 317 Baronne Street New Orleans, Louisiana 70112

Waterford 3

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, Police Jury St. Charles Parish Hahnville, Louisiana 70057

William A. Cross Bethesda Licensing Office 3 Metro Center Suite 610 Bethesda, Maryland 20814



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. 40 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 January 28, 1988 as supplemented May 20, 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.

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- 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. 40, 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

Walter A. Kaulson

V 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: July 19, 1988

ATTACHMENT TO LICENSE AMENDMENT NO. 40

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	Insert		
3/4 3-3	3/4 3-3		
3/4 3-4	3/4 3-4		
3/4 3-10	3/4 3-10		
3/4 3-12	3/4 3-12		

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TABLE 3.3-1

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REACTOR PROTECTIVE INSTRUMENTATION

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RD - UNIT	FUNCTIONAL UNIT		TOTAL NO. Of Channels	CHANNELS TO TRIP	MINIMUM CHANNELS OPERABLE	APPLICABLE MODES	ACTION
17 3	1.	Manual Reactor Trip	2 sets of 2 2 sets of 2	1 set of 2 1 set of 2	2 sets of 2 2 sets of 2	1, 2 3*, 4*, 5*	1 8
	2.	Linear Power Level - High	4	2	3	1, 2	2#, 3#
	3.	Logarithmic Power Level-High a. Startup and Operating	4 ' 4	2(a)(d) 2	3 3	2** 3*, 4*, 5*	2 # , 3# 8
		b. Shutdown	4	0	2	3, 4, 5	4
	4.	Pressurizer Pressure - High	4	2	3	1, 2	2#, 3#
3/4 3-3	5.	Pressurizer Pressure - Low	4	2(b)	3	1, 2	2#, 3#
	6.	Containment Pressure - High	4	2	3	1, 2	2#, 3#
	7.	Steam Generator Pressure - Low	4/SG	2/SG	3/SG	1, 2	2#, 3#
	8.	Steam Generator Level - Low	4/SG	2/SG	3/SG	1, 2	2#, 3#
	9.	Local Power Density - High	4	2(c)(d)	3	1, 2	2#, 3#
	10.	DNBR - Low	4	2(c)(d)	3	1, 2	2#, 3#
	11.	Steam Generator Level - High	4/SG	2/SG(g)	3/SG	1, 2	2#, 3#
AM	12.	Reactor Protection System Logic	4	2	3	1, 2 3*, 4*, 5*	5 8
AMENDMENT	13.	Reactor Trip Breakers	4	2(f)	4	1, 2 3*, 4*, 5*	5 8
		Core Protection Calculators	4	2(c)(d)	3	1, 2	2#, 3# and 7
NO.		CEA Calculators	2	1	2(e)	1, 2	6 and 7
14,1	16.	Reactor Coolant Flow - Low	4/SG	2/SG	3/SG	1, 2	2#, 3#

TABLE 3.3-2 (Continued)

REACTOR PROTECTIVE INSTRUMENTATION RESPONSE TIMES

FUNCTIONAL UNIT	RESPONSE TIME
11. Steam Generator Level - High	Not Applicable
12. Reactor Protection System Logic	Not Applicable
13. Reactor Trip Breakers	Not Applicable
14. Core Protection Calculators	Not Applicable
15. CEA Calculators	Not Applicable
16. Reactor Coolant Flow - Low	0.70 second

3/4 3-9

*Neutron detectors are exempt from response time testing. Response time of the neutron flux signal portion of the channel shall be measured from detector output or input of first electronic component in channel.

**Response time shall be measured from the time the CPC/CEAC receives an input signal until the electrical power is interrupted to the CEA drive mechanism.

#Response time shall be measured from the output of the sensor. RTD response time for all the RTDs shall be measured at least once per 18 months. The measured P_{τ} of the slowest RTD shall be less than or equal to 8 seconds (P_{τ} assumed in the safety analysis).

##Response time shall be measured from the output of the pressure transmitter. The transmitter response time shall be less than or equal to 0.70 second.

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TABLE 4.3-1 (Continued)

REACTOR PROTECTIVE INSTRUMENTATION SURVEILLANCE REQUIREMENTS

FUNCTIONAL UNIT		CHANNEL CHECK	CHANNEL CALIBRATION	CHANNEL FUNCTIONAL TEST	MODES FOR WHICH SURVEILLANCE IS REQUIRED	
13.	Reactor Trip Breakers	N.A.	N.A.	M(10), S/U(1)	1, 2, 3*, 4*, 5*	
14.	Core Protection Calculators	S	D(2,4),R(4,5)	M(9),R(6)	1, 2	
15.	CEA Calculators	S	R	M,R(6)	1, 2	
16.	Reactor Coolant Flow - Low	S	R	M	1, 2	



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 40 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 January 28, 1988 as supplemented May 20, 1988, Louisiana Power and Light Company (LP&L or the 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 among other things would remove the operability and surveillance requirements for Log Power Channels when reactor thermal power is above 1.0E-4% of rated thermal power.

2.0. DISCUSSION

The Technical Specifications for Reactor Protective Instrumentation presently require the Log Power Channels to be operable in Modes 1 and 2 although the channel trip is bypassed at power levels above 1.0E-4% of rated thermal power. The Log Power Level-High trip is to protect the integrity of the fuel cladding and the Reactor Coolant System pressure boundary in the event of an unplanned criticality from a shutdown condition. During a reactor shutdown the trip is automatically reinstated at 1.0E-4% of rated thermal power to provide this protection. The licensee proposes to delete the Mode 1 requirements for operability and surveillance and to modify the Mode 2 requirements except for operation in Mode 2 below power levels below 1.0E-4% of rated thermal power.

The licensee further proposes to test the channels within 2 hours, if not performed within the previous 31 days, upon reducing power below 10^{-4} %.

3.0 EVALUATION

The operation of the Log Power Level Channels at power levels above 1.0E-4% of rated thermal power is recognized to be inappropriate for technical specification requirements since on startup, the trips are bypassed. However, on shutdown from Mode 2 to power levels below 1.0E-4% the trips are reinstated and operability should be reassured. The licensee proposed to delete the operable and surveillance requirements above 1.0E-4% power levels but failed to include in the revised technical specifications, appropriate provisions for reinstating operability requirements on shutdown and automatic reinstatement of the trip. In discussions with the

8807290310 880719 PDR ADUCK 05000382 P PNU licensee, alternative requirements were explored for reinstating operability which would be particularly important if the plant had been operating for a long period of time without surveillance requirement and was required or elected to reduce power to Mode 2 below 1.0E-4% rated thermal power.

By letter dated May 20, 1988, the licensee modified the January 28, 1988 proposed technical specification change to add a requirement to perform the surveillance of the channels within two hours of reinstatement of the Log Power Level trip to assure operability.

On the basis of the licensee's May 20, 1988 modifications to their orginal request of January 28, 1988, the proposed revision to the Technical Specifications 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 as defined in 10 CFR Part 20. 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. The Commission has previously issued a proposed finding that this amendment involves no significant hazards consideration and there has been no public comment on such finding. 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: July 19, 1988

Principal Contributor: David Wigginton