

April 26, 1990

Docket No. 50-483

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Mr. Donald F. Schnell
Senior Vice President - Nuclear
Union Electric Company
Post Office Box 149
St. Louis, Missouri 63166

Dear Mr. Schnell:

SUBJECT: AMENDMENT NO. 53 TO FACILITY OPERATING LICENSE NO. NPF-30
(TAC NO. 75508)

The Commission has issued the enclosed Amendment No. 53 to Facility Operating License No. NPF-30 for the Callaway Plant, Unit 1. This amendment revises the Technical Specifications in response to your application dated November 14, 1989.

The amendment revises TS 3/4.7.1.2 to add clarification to Surveillance Requirements 4.7.1.2.1.a(4) and 4.7.1.2.1.b(1) by identifying automatic valves that are either excluded or included in the flowpath of the Auxiliary Feedwater System whose position has to be verified to demonstrate operability.

A copy of the Safety Evaluation is also enclosed. The notice of issuance will be included in the Commission's next biweekly Federal Register notice.

Sincerely,

151

Anthony T. Gody, Jr., Project Manager
Project Directorate III-3
Division of Reactor Projects - III,
IV, V and Special Projects
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No.53 to License No. NPF-30
2. Safety Evaluation

cc w/enclosures:
See next page

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PDR ADDCK 05000483
P PDC

Office: LA/PDIII-3 PM/PDIII-3
Surname: PKreutzer ATGody *AT*
Date: *4/16/90* *4/19/90*

PD/PDIII-3
JHannon
4/13/90

OGC-WF1
J. Kreutzer
4/26/90

LF01
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4/13/90

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J. Kreutzer
4/26/90

Mr. D. F. Schnell
Union Electric Company

Callaway Plant
Unit No. 1

cc:

Dr. J. O. Cermack
CFA Inc.
4 Professional Dr., Suite 110
Gaithersburg, MD 20879

Gerald Charnoff, Esq.
Thomas A. Baxter, Esq.
Shaw, Pittman, Potts & Trowbridge
2300 N Street, N. W.
Washington, D. C. 20037

Mr. T. P. Sharkey
Supervising Engineer,
Site Licensing
Union Electric Company
Post Office Box 620
Fulton, Missouri 65251

U. S. Nuclear Regulatory Commission
Resident Inspectors Office
RR#1
Steedman, Missouri 65077

Mr. Alan C. Passwater, Manager
Licensing and Fuels
Union Electric Company
Post Office Box 149
St. Louis, Missouri 63166

Manager - Electric Department
Missouri Public Service Commission
301 W. High
Post Office Box 360
Jefferson City, Missouri 65102

Regional Administrator
U. S. NRC, Region III
799 Roosevelt Road
Glen Ellyn, Illinois 60137

Mr. Ronald A. Kucera, Deputy Director
Department of Natural Resources
P. O. Box 176
Jefferson City, Missouri 65102

Mr. Bart D. Withers
President and Chief
Executive Officer
Wolf Creek Nuclear Operating
Corporation
P. O. Box 411
Burlington, Kansas 66839

Mr. Dan I. Bolef, President
Kay Drey, Representative
Board of Directors Coalition
for the Environment
St. Louis Region
6267 Delmar Boulevard
University City, Missouri 63130



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

UNION ELECTRIC COMPANY

CALLAWAY PLANT, UNIT 1

DOCKET NO. STN 50-483

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 53
License No. NPF-30

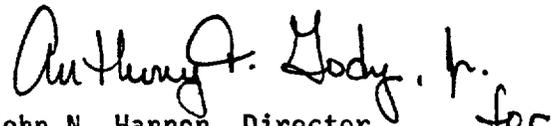
1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment filed by Union Electric Company (UE, the licensee) dated November 14, 1989 complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's 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-30 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. 53, and the Environmental Protection Plan contained in Appendix B, both of which are attached hereto, are hereby incorporated into the license. UE shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

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

FOR THE NUCLEAR REGULATORY COMMISSION



John N. Hannon, Director
Project Directorate III-3
Division of Reactor Projects - III,
IV, V and Special Projects
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical
Specifications

Date of Issuance: April 26, 1990

ATTACHMENT TO LICENSE AMENDMENT NO. 53

OPERATING LICENSE NO. NPF-30

DOCKET NO. 50-483

Revise Appendix A Technical Specifications by removing the page identified below and inserting the enclosed page. The revised page is identified by the captioned amendment number and contains marginal lines indicating the area of change. The corresponding overleaf page is provided to maintain document completeness.

REMOVE

3/4 7-5

INSERT

3/4 7-5

PLANT SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

- 3) Verifying that each non-automatic valve in the flow path that is not locked, sealed, or otherwise secured in position is in its correct position; and
 - 4) Verifying that each automatic valve, other than AL-HV-30, 31, 32, and 33, in the flow path is in the fully open position whenever the Auxiliary Feedwater System is placed in automatic control or when above 10% RATED THERMAL POWER.
- b. At least once per 18 months during shutdown by:
- 1) Verifying that automatic valves AL-HV-30, 31, 32, and 33 in the ESW supply to the auxiliary feedwater pumps actuate to their full open position upon receipt of an Auxiliary Feedwater Pump Suction Pressure-Low test signal,
 - 2) Verifying that each auxiliary feedwater pump starts as designed automatically upon receipt of an Auxiliary Feedwater Actuation test signal, and
 - 3) Verifying that each auxiliary feedwater motor-operated discharge valve limits the flow to each steam generator from the motor-driven pump to less than or equal to 320 gpm.

4.7.1.2.2 An auxiliary feedwater flow path shall be demonstrated OPERABLE following each COLD SHUTDOWN of greater than 30 days prior to entering MODE 2 by verifying normal flow to at least two steam generators from one auxiliary feedwater pump.

PLANT SYSTEMS

CONDENSATE STORAGE TANK

LIMITING CONDITION FOR OPERATION

3.7.1.3 The condensate storage tank (CST) shall be OPERABLE with a contained water volume of at least 281,000 gallons.

APPLICABILITY: MODES 1, 2, and 3.

ACTION:

With the CST inoperable, within 4 hours either:

- a. Restore the CST to OPERABLE status or be in at least HOT STANDBY within the next 6 hours and in HOT SHUTDOWN within the following 6 hours, or
- b. Demonstrate the OPERABILITY of the Essential Service Water (ESW) System as a backup supply to the auxiliary feedwater pumps and restore the CST to OPERABLE status within 7 days or be in at least HOT STANDBY within the next 6 hours and in HOT SHUTDOWN within the following 6 hours.

SURVEILLANCE REQUIREMENTS

4.7.1.3.1 The CST shall be demonstrated OPERABLE at least once per 12 hours by verifying the contained water volume is within its limits when the tank is the supply source for the auxiliary feedwater pumps.

4.7.1.3.2 The ESW System shall be demonstrated OPERABLE at least once per 12 hours by verifying that the ESW System is in operation whenever the ESW System is the supply source for the auxiliary feedwater pumps.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 53 TO FACILITY OPERATING LICENSE NO. NPF-30

UNION ELECTRIC COMPANY
CALLAWAY PLANT, UNIT 1
DOCKET NO. STN 50-483

1.0 INTRODUCTION

By letter dated November 14, 1989, the Union Electric Company (the licensee) requested changes to Technical Specification (TS) 3/4.7.1.2 for the Callaway Plant. The proposed changes add clarification to Surveillance Requirements 4.7.1.2.1.a(4) and 4.7.1.2.1.b(1) by identifying automatic valves that are either excluded or included in the flow path of the Auxiliary Feedwater (AFW) System whose position has to be verified to demonstrate operability.

2.0 DISCUSSION

The AFW system provides a reliable source of water to the steam generators for decay heat removal. The system consists of two motor-driven pumps, one steam turbine-driven pump, and associated piping, valves, instruments, and controls. Normal flow is from the condensate storage tank (CST) to AFW pumps and, if a low suction pressure condition exists, these pumps are automatically aligned to Essential Service Water System (ESW) as a backup source of water. Surveillance Requirement 4.7.1.2.1.a(4) provides verification once every 31 days that each automatic valve in the in the normal flowpath of the AFW system is in the fully open position whenever the AFW system is placed in automatic control or when the plant is above 10% rated thermal power. The proposed change adds clarification to this requirement by identifying that valves AL-HV-30, 31, 32 and 33, which are used only for alignment of AFW pumps to the back-up source (ESW), are not part of the normal flow path and therefore are not subjected to requirements of 4.7.1.2.1.a(4). These valves are normally closed and open automatically upon receipt of low suction pressure.

Surveillance requirement 4.7.1.2.1.b(1) is a demonstration of operability to be performed once every 18 months to verify that the suction supply switches from the normal CST supply to the backup (ESW) source upon receipt of an AFW suction Pressure-Low test signal. The proposed change adds clarification by identifying that AFW valves AL-HV-30, 31, 32 and 33 are subjected to this operability requirement because these valves must open to connect AFW pumps to the back-up source upon low pressure in the normal source line.

3.0 EVALUATION

The proposed changes described above identify AFW valves, AL-HV-30, 31, 32, and 33 (AFW/ESW valves), as not part of the normal AFW system flowpath and whose position is not required to be verified open for AFW system operability. The staff has determined that clarification to Surveillance Requirement 4.7.1.2.1.a(4) by specifying the exclusion of the ASW/ESW valves stated above does not change the intent of the surveillance requirement and is therefore acceptable.

Successful completion of Surveillance Requirement 4.7.1.2.1.b(1) provides adequate assurance that, if a low pressure condition existed at the AFW pump suction, the back-up supply of water from the ESW system would be supplied to the AFW pumps via the AFW/ESW valves described above. The staff has determined that the clarification provided by the proposed TS change does not change the intent of the original surveillance requirement and is therefore acceptable.

Both proposed TS changes provide specific identification of whether or not certain AFW valves are subject to the surveillance requirements. In its review of the proposed TS change, the staff has determined that the proposed changes will indeed provide clarification without changing the intent of the original surveillance requirements. AFW valves AL-HV-34, 35 and 36 close upon the AFW low suction pressure condition and they are verified to close in the actual surveillance procedure. Failure of these valves to close in the event a break in the CST supply piping occurs would not prevent ESW flow to the AFW pumps due to the presence of a check valve in the CST supply piping. Also, AFW valves AL-HV-30, 31, 32 and 33 need not be verified every 31 days in Surveillance Requirement 4.7.1.2.1.a(4) because (1) leakage from the ESW system to the CST would be detected during normal chemistry surveillance, (2) these valves are normally closed, and (3) these valves are verified operable every 18 months in Surveillance Requirement 4.7.1.2.1.b(1). Additionally, no changes to setpoints, system configuration or operation of the AFW system are involved with this proposed amendment. The staff has reviewed the proposed TS change and finds that the clarification provided by the change is acceptable.

4.0 ENVIRONMENTAL CONSIDERATION

This amendment involves a change to a requirement with respect to the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20 or a change to a surveillance requirement. 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, this 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.

5.0 CONCLUSION

The staff has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner; and (2) 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.

6.0 ACKNOWLEDGEMENT

Principal Contributor: S. V. Athavale
A. T. Gody, Jr.

Dated: April 26, 1990