

June 21, 1993

Docket No. 50-483

DISTRIBUTION

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

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Dear Mr. Schnell:

SUBJECT: AMENDMENT NO. 80 TO FACILITY OPERATING LICENSE NO. NPF-30  
(TAC NO. M86076)

The Commission has issued the enclosed Amendment No. 80 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 March 9, 1993.

The amendment deletes the surveillance requirement of Technical Specification 4.8.1.1.2.h(2), which involves performing a pressure test of portions of the diesel fuel oil system. Alternate testing for the tanks and piping would include leak testing at hydrostatic head pressure with the tanks filled to design capacity and would be governed by Technical Specification 4.0.5.

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,

Original signed by L. Raynard Wharton

L. Raynard Wharton, Project Manager  
Project Directorate III-3  
Division of Reactor Projects III/IV/V  
Office of Nuclear Reactor Regulation

Enclosures:

1. Amendment No. 80 to License No. NPF-30
2. Safety Evaluation

cc w/enclosures:  
See next page

LA: PDIII-3  
MRushbrook  
5/21/93

PM: PDIII-3  
LRWharton:sw  
5/24/93

D: PDIII-3  
JHannon  
5/24/93

NRR: EGGB  
GBagchi  
5/25/93

NRR: EMEB  
JNorberg  
6/13/93

OGC-OWF  
6/11/93

DOCUMENT NAME: g:\callaway\CAL86076.AMD

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PDR ADOCK 05000483  
PDR

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

June 21, 1993

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Senior Vice President - Nuclear  
Union Electric Company  
Post Office Box 149  
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Sincerely,

A handwritten signature in cursive script that reads "L. Raynard Wharton".

L. Raynard Wharton, Project Manager  
Project Directorate III-3  
Division of Reactor Projects III/IV/V  
Office of Nuclear Reactor Regulation

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1. Amendment No. 80 to License No. NPF-30
2. Safety Evaluation

cc w/enclosures:  
See next page

Mr. D. F. Schnell  
Union Electric Company

Callaway Plant  
Unit No. 1

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

UNION ELECTRIC COMPANY

CALLAWAY PLANT, UNIT 1

DOCKET NO. 50-483

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 80  
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 March 9, 1993, 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:

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P PDR

(2) Technical Specifications and Environmental Protection Plan

The Technical Specifications contained in Appendix A, as revised through Amendment No. 80, 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 its date of issuance. The Technical Specifications are to be implemented within 30 days from the date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



L. Raynard Wharton, Project Manager  
Project Directorate III-3  
Division of Reactor Projects III/IV/V  
Office of Nuclear Reactor Regulation

Attachment:  
Changes to the Technical  
Specifications

Date of issuance: June 21, 1993

ATTACHMENT TO LICENSE AMENDMENT NO. 80

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.

REMOVE

3/4 8-6a

INSERT

3/4 8-6a

## ELECTRICAL POWER SYSTEMS

### SURVEILLANCE REQUIREMENTS (Continued)

- g. At least once per 10 years or after any modifications which could affect diesel generator interdependence by starting\*\* both diesel generators simultaneously, during shutdown, and verifying that both diesel generators accelerate to at least 514 rpm in less than or equal to 12 seconds; and
- h. At least once per 10 years by draining each fuel oil storage tank, removing the accumulated sediment and cleaning the tank using a sodium hypochlorite solution or equivalent.
- i. At least once per 184 days the diesel generators shall be started\*\* from ambient conditions (using the keep warm system) using one of the signals specified in 4.8.1.1.2a.4) and accelerated to at least 514 rpm in less than or equal to 12 seconds. The generator voltage and frequency shall be  $4000 \pm 320$  volts and  $60 \pm 1.2$  Hz within 12 seconds after the start signal. Subsequently verify the generator is loaded to an indicated 6000 to 6201 kW\*\*\* in less than or equal to 60 seconds and operates at an indicated load of 6000 to 6201 kW\*\*\* for at least 60 minutes.

4.8.1.1.3 Reports - All diesel generator failures, valid or nonvalid, shall be reported in a Special Report to the Commission pursuant to Specification 6.9.2 within 30 days. Reports of diesel generator failures shall include the information recommended in Regulatory Position C.3.b of Regulatory Guide 1.108, Revision 1, August 1977. If the number of failures in the last 100 valid tests (on a per nuclear unit basis) is greater than or equal to 7, the report shall be supplemented to include the additional information recommended in Regulatory Position C.3.b of Regulatory Guide 1.108, Revision 1, August 1977.

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\*\* This test shall be preceded by an engine prelube period and/or other warmup procedures recommended by the manufacturer so that the mechanical stress and wear on the diesel engine is minimized.

\*\*\* This band is meant as guidance to avoid routine overloading of the engine. Loads in excess of this band for special testing under direct monitoring or momentary variations due to changing bus loads shall not invalidate this test.



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 80 TO FACILITY OPERATING LICENSE NO. NPF-30

UNION ELECTRIC COMPANY

CALLAWAY PLANT, UNIT 1

DOCKET NO. 50-483

1.0 INTRODUCTION

By application for license amendment dated March 9, 1993, Union Electric Company (the licensee) requested changes to the Technical Specification (TS) Section 3/4.8.1, "A.C. Sources," for the Callaway Plant, Unit 1. The amendment would delete the surveillance requirement of Technical Specification 4.8.1.1.2.h(2), which involves performing a pressure test of portions of the diesel fuel oil system. Alternative testing for the tanks and piping would include leak testing at hydrostatic head pressure with the tanks filled to design capacity and would be governed by Technical Specification 4.0.5.

2.0 EVALUATION

The existing Technical Specification 4.8.1.1.2.h(2) requires a pressure test of those portions of the diesel fuel oil system designed to Section III, subsection ND of the ASME Boiler and Pressure Vessel Code. This pressure test is required to be performed at 110 percent of the system design pressure. This test is consistent with the acceptable method which is presented in NRC Regulatory Guide 1.137, "Fuel-Oil Systems for Standby Diesel Generators." Regulatory Guide 1.137 adopts Section 7.3 of ANSI N195-1976, "Fuel Oil Systems for Standby Diesel-Generators" which specifies testing in accordance with Section XI, "Rules for Inservice Inspection of Nuclear Power Plant Components," of the ASME Code. Section XI Article IWD-5000 in turn requires testing of components at 1.10 times the system pressure for systems with design temperatures less than 200°F or in the case of atmospheric storage tanks, the hydrostatic head, developed with the tank filled to its design capacity, is considered to be an acceptable test pressure.

The licensee has requested the proposed change due to the diesel fuel oil system's incompatibility with the requirements of the performance of a pressure test at 110 percent of system pressure. The diesel fuel oil tank is vented to atmosphere without an existing ability to isolate and pressurize the tank in order to perform the pressure test. The fulfillment of ASME Code requirements is achieved by the performance of the alternate testing consisting of leak testing with the associated atmospheric tanks filled to design capacity. The alternate test is considered to provide equivalent assurance of the tank and piping integrity in that filling the tank to design capacity and verifying that no loss of inventory occurs is comparable to

pressurizing the system and monitoring for any decrease in pressure. The diesel fuel oil system is classified as ASME Code Class 3 in accordance with the guidance of Regulatory Guide 1.26, "Quality Group Classifications and Standards for Water-, Steam-, and Radioactive-Waste-Containing Components of Nuclear Power Plants." Technical Specification 4.0.5 requires testing of ASME Code Class 1, 2, and 3 components in accordance with Section XI of the ASME Code. The existing Technical Specification 4.8.1.1.2.h(2) is therefore seen as redundant to the requirements of Technical Specification 4.0.5 in that ASME Section XI testing is required, but the specific testing methodology of Technical Specification 4.8.1.1.2.h(2) is not practical for the current design of the diesel fuel oil system.

Upon review of the licensee's submittal, the staff concludes that the alternative testing allowed by Section XI of the ASME Code is an adequate inservice testing methodology and that the performance of the inservice testing is required by Technical Specification 4.0.5. Therefore, the deletion of Technical Specification 4.8.1.1.2.h(2) is deemed acceptable.

### 3.0 STATE CONSULTATION

In accordance with the Commission's regulations, the Missouri State official was notified of the proposed issuance of the amendment. The State official had no comments.

### 4.0 ENVIRONMENTAL CONSIDERATION

The amendment changes 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 and changes surveillance requirements. 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 (58 FR 19490). 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, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: L. R. Wharton

Date: June 21, 1993