

MAR 6 1985

*Docket File*

Docket No.: STN 50-483

Mr. D. F. Schnell  
Vice President - Nuclear  
Union Electric Company  
P. O. Box 149  
St. Louis, MO 63166

Dear Mr. Schnell:

Subject: Callaway Plant, Unit 1 - Amendment No. 4 to License NPF-30

The Commission has issued the enclosed Amendment No. 4 to Operating License NPF-30 for the Callaway Plant, Unit 1. The amendment consists of a change to the Technical Specifications in response to your application dated August 1, 1984, as supplemented October 26, 1984, which requested an additional provision to allow for appropriate compensatory actions when two source range monitor channels are out of service, in order to maintain the plant in a safe condition.

The amendment approves a modification to Table 3.3-1 of the Callaway Technical Specifications consisting of a revision to an action statement (Action 5).

A copy of the related Safety Evaluation is enclosed. The notice of issuance will be included in the Commission's next regular monthly Federal Register Notice.

Sincerely,



B. J. Youngblood, Chief  
Licensing Branch No. 1  
Division of Licensing

Enclosures:

- 1. Amendment No. 4 to NPF-30
- 2. Safety Evaluation Report

cc: See next page

CONCURRENCES:

DL:LB#1  
JStevens  
2/13/85

DL:LB#1  
MRushbrook  
2/14/85

DL:LB#1  
PO'Connor  
2/14/85

OELD  
2/15/85

DL:LB#1  
BJYoungblood  
2/13/85

AD:DC  
DCWitchfield  
3/6/85

AD:DP  
TMNovak  
3/6/85

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PDR ADOCK 05000483  
P PDR



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

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Vice President - Nuclear  
Union Electric Company  
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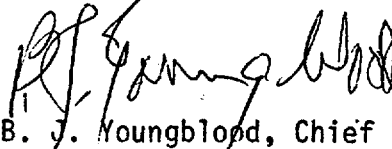
Subject: Callaway Plant, Unit 1 - Amendment No. 4 to License NPF-30

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DIST:  
Docket File  
NRC PDR  
Local PDR  
PRC System  
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LB#1 Rdg  
MRushbrook  
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TNovak  
JSaltzman, SAB  
OELD, Attorney  
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JRutberg  
AToalston  
WMiller, LFMB  
RHeischman  
EJordan  
LHarmon  
DBrinkman, SSPB  
TBarnhart (4)  
Inez Bailey  
V. T. Leung, RSB

CALLAWAY

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

cc: Mr. Nicholas A. Petrick  
Executive Director - SNUPPS  
5 Choke Cherry Road  
Rockville, Maryland 20850

Gerald Charnoff, Esq.  
Thomas A. Baxter, Esq.  
Shaw, Pittman, Potts & Trowbridge  
1800 M Street, N. W.  
Washington, D. C. 20036

Mr. J. E. Birk  
Assistant to the General Counsel  
Union Electric Company  
Post Office Box 149  
St. Louis, Missouri 63166

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

Mr. Donald W. Capone, Manager  
Nuclear Engineering  
Union Electric Company  
Post Office Box 149  
St. Louis, Missouri 63166

A. Scott Cauger, Esq.  
Assistant General Counsel for the  
Missouri Public Service Comm.  
Post Office Box 360  
Jefferson City, Missouri 65101

Ms. Marjorie Reilly  
Energy Chairman of the League of  
Women Voters of Univ. City, MO  
7065 Pershing Avenue  
University City, Missouri 63130

Mr. Donald Bollinger, Member  
Missourians for Safe Energy  
6267 Delmar Boulevard  
University City, Missouri 63130

Mayor Howard Steffen  
Chamois, Missouri 65024

Professor William H. Miller  
Missouri Kansas Section, American  
Nuclear Society  
Department of Nuclear Engineering  
1026 Engineering Building  
University of Missouri  
Columbia, Missouri 65211

Mr. Robert G. Wright  
Assoc. Judge, Eastern District  
County Court, Callaway County,  
Missouri  
Route #1  
Fulton, Missouri 65251

Lewis C. Green, Esq.  
Green, Hennings & Henry  
Attorney for Joint Intervenors  
314 N. Broadway, Suite 1830  
St. Louis, Missouri 63102

Mr. Earl Brown  
School District Superintendent  
Post Office Box 9  
Kingdom City, Missouri 65262

Mr. Harold Lottman  
Presiding Judge, Dasconade County  
Route 1  
Owensville, Missouri 65066

Mr. John G. Reed  
Route #1  
Kingdom City, Missouri 65262

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

cc: 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. Glenn L. Koester  
Vice President - Nuclear  
Kansas Gas and Electric Company  
201 North Market Street  
Post Office Box 208  
Wichita, Kansas 67201

Eric A. Eisen, Esq.  
Birch, Horton, Bittner and Moore  
Suite 1100  
1140 Connecticut Avenue, N. W.  
Washington, D. C. 10036



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

UNION ELECTRIC COMPANY

DOCKET NO. 50-483

CALLAWAY PLANT, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 4  
License No. NPF-30

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Union Electric Company (the licensee), dated August 1, 1984, as supplemented October 26, 1984, 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 a change to the Technical Specifications as indicated in the attachment to this license amendment and Paragraph 2.C.(2) of 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. 4, and the Environmental Protection Plan contained in Appendix B, both of which are attached hereto, are hereby incorporated into this license. UE shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

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

FOR THE NUCLEAR REGULATORY COMMISSION

*1st*

B. J. Youngblood, Chief  
Licensing Branch No. 1  
Division of Licensing

Attachment:  
Change to the Technical  
Specifications

Date of Issuance: **MAR 6 1985**

CONCURRENCES:

DL:LB#1 *J*  
JStevens:es  
*2/13/85*

DL:LB#1 *MR*  
MRushbrook  
*2/14/85*

DL:LB#1 *PO*  
PO'Connor  
*2/14/85*

OELD  
*2/10/85*

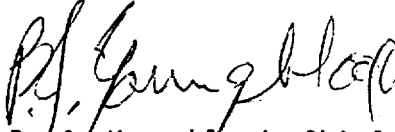
DL:LB#1 *BJ*  
BJYoungblood  
*2/18/85*

*GD* AD:DL:SA:  
DCrutchfield  
*1/85*

AD:DL  
TNovak  
*3/6/85*

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

FOR THE NUCLEAR REGULATORY COMMISSION



B. J. Youngblood, Chief  
Licensing Branch No. 1  
Division of Licensing

Attachment:  
Change to the Technical  
Specifications

Date of Issuance: March 6, 1985



ATTACHMENT TO LICENSE AMENDMENT NO. 4

OPERATING LICENSE NO. NPF-30

DOCKET NO. STN 50-483

Revise Appendix A, as follows:

REMOVE

3/4 3-6

INSERT

3/4 3-6

TABLE 3.3-1 (Continued)

ACTION STATEMENTS (Continued)

- ACTION 4 - With the number of OPERABLE channels one less than the Minimum Channels OPERABLE requirement suspend all operations involving positive reactivity changes.
- ACTION 5 - a. With the number of OPERABLE channels one less than the Minimum Channels OPERABLE requirement, restore the inoperable channel to OPERABLE status within 48 hours or open the Reactor trip breakers, suspend all operations involving positive reactivity changes and verify Valves BG-V178 and BG-V601 are closed and secured in position within the next hour.
- b. With no channels OPERABLE, open the Reactor Trip Breakers, suspend all operations involving positive reactivity changes and verify compliance with the SHUTDOWN MARGIN requirements of Specification 3.1.1.1 or 3.1.1.2, as applicable, within 1 hour and every 12 hours thereafter, and verify valves BG-V178 and BG-V601 are closed and secured in position within 4 hours and verified to be closed and secured in position every 14 days.
- ACTION 6 - With the number of OPERABLE channels one less than the Total Number of Channels, STARTUP and/or POWER OPERATION may proceed provided the following conditions are satisfied:
- a. The inoperable channel is placed in the tripped condition within 1 hour, and
- b. The Minimum Channels OPERABLE requirement is met; however, the inoperable channel may be bypassed for up to 2 hours for surveillance testing of other channels per Specification 4.3.1.1.
- ACTION 7 - With the number of OPERABLE channels one less than the Total Number of Channels, STARTUP and/or POWER OPERATION may proceed until performance of the next required ANALOG CHANNEL OPERATIONAL TEST provided the inoperable channel is placed in the tripped condition within 1 hour.
- ACTION 8 - With less than the Minimum Number of Channels OPERABLE, within 1 hour determine by observation of the associated permissive annunciator window(s) that the interlock is in its required state for the existing plant condition, or apply Specification 3.0.3.
- ACTION 9 - With the number of OPERABLE channels one less than the Minimum Channels OPERABLE requirement, be in at least HOT STANDBY within 6 hours; however, one channel may be bypassed for up to 2 hours for surveillance testing per Specification 4.3.1.1, provided the other channel is OPERABLE.
- ACTION 10 - With the number of OPERABLE channels one less than the Minimum Channels OPERABLE requirement, restore the inoperable channel to OPERABLE status within 48 hours or open the Reactor trip breakers within the next hour.
- ACTION 11 - With the number of OPERABLE channels less than the Total Number of Channels, operation may continue provided the inoperable channels are placed in the tripped condition within 1 hour.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 4 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 August 1, 1984, as supplemented October 26, 1984, Union Electric Company (the licensee) requested an amendment to Facility Operating License No. NPF-30 for operation of the Callaway Plant in Callaway County, Missouri.

The amendment approves a modification to Table 3.3-1 of the Callaway Technical Specifications (TS) consisting of a revision to an action statement (Action 5).

2.0 EVALUATION

An action statement, Action 5, has been modified for the source range neutron flux monitors during shutdown conditions. An addition to this action statement is necessary since the existing Callaway TS do not require any action to be taken for loss of both source range channels. The modified action statement requires that the shutdown margin be verified, when both source range channels are unavailable, to assure the appropriate boron concentration. The action statement also requires all sources which may lead to boron dilution be isolated, i.e., closing all the makeup water supply valves to preclude an unintended boron dilution accident, and verify the reactor trip breakers are open.

The modified action statement includes surveillance requirements for monitoring the RCS boron concentration when both SRM channels are inoperable, and for monitoring the position of the specified valves. With respect to the boron concentration surveillance requirement, it is reasonable to use the Standard Technical Specifications shutdown margin surveillance requirement found in Specification 3.1.1.1 or 3.1.1.2 (as applicable). This specifies that the RCS shutdown margin should be determined within one hour of both SRMs becoming inoperable, and at least once every 12 hours thereafter.

With respect to valve position (valves BG-V178 and BG-V601), a time interval for valve position verification has been established based on other valve surveillance requirements specified in the Callaway Technical Specifications.

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Based on our review of the licensee's safety evaluation and the staff's safety evaluation with regard to the boron dilution events, the staff concludes that the modified action statement will not affect the safe operation of the Callaway plant and is acceptable.

### 3.0 ENVIRONMENTAL CONSIDERATION

This amendment involves a change in the 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 change in the types or significant increase in the amounts 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 Section 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.

### 4.0 CONCLUSION

We have 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.

Date: March 6, 1985

Principal Contributors:  
V. T. Leung, RSB  
C. W. Moon, SSPB  
J. A. Stevens, LB#1