

FEB 4 1985

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. 2 to License NPF-30

The Commission has issued the enclosed Amendment No. 2 to Operating License NPF-30 for the Callaway Plant, Unit 1. The amendment consists of a change to the Technical Specification in response to your application dated October 3, 1984, as supplemented December 6, 1984 and December 27, 1984, which requested the addition of two 100,000 gallon tanks in order to provide sufficient storage time for secondary effluent to allow sample analysis and to show acceptability of the water prior to release to the environment.

The amendment modifies Table 4.11-1 of the Callaway Technical Specifications to include two additional Batch Waste Release Tanks.

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. 2 to NPF-30
2. Safety Evaluation Report

cc: See next page

CONCURRENCES:

DL:LB#1 *gas* DL:LB#1 *BM*  
JStevens MRushbrook  
1/14/85 1/16/85

DL:LB#1 *gag*  
PO'Connor  
1/17/85

OELD *hbr*  
1/17/85

DL:LB#1 *gag*  
BYoungblood  
1/17/85

AD:DL *gag*  
TNovak  
2/14/85

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CALLAWAY

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R. W. Fell, METB



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. 2  
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 October 3, 1984, as supplemented December 6, 1984 and December 27, 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. 2, 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.

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

FOR THE NUCLEAR REGULATORY COMMISSION

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

Attachment:  
Change to the Technical  
Specifications

Date of Issuance: **FEB 4 1985**

CONCURRENCES:

DL:LB#1  
JStevens:es  
1/16/85

DL:LB#1  
MRushbrook  
1/16/85

DL:LB#1  
PO'Connor  
1/17/85

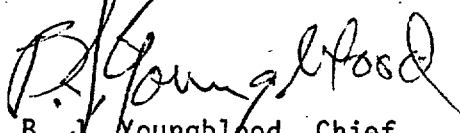
OELD  
1/13/85

DL:LB#1  
BJYoungblood  
1/13/85

AD:DL  
TNovak  
2/4/85

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: February 4, 1985

ATTACHMENT TO LICENSE AMENDMENT NO. 2

OPERATING LICENSE NO. NPF-30

DOCKET NO. STN 50-483

Revise Appendix A, as follows:

REMOVE

3/4 11-2

INSERT

3/4 11-2



TABLE 4.11-1  
RADIOACTIVE LIQUID WASTE SAMPLING AND ANALYSIS PROGRAM

LIQUID RELEASE TYPE	SAMPLING FREQUENCY	MINIMUM ANALYSIS FREQUENCY	TYPE OF ACTIVITY ANALYSIS	LOWER LIMIT OF DETECTION (LLD) <sup>(1)</sup> ( $\mu\text{Ci/ml}$ )
1. Batch Waste Release Tanks <sup>(2)</sup>	P Each Batch	P Each Batch	Principal Gamma Emitters <sup>(3)</sup>	$5 \times 10^{-7}$
			I-131	$1 \times 10^{-6}$
	P One Batch/M	M	Dissolved and Entrained Gases (Gamma Emitters)	$1 \times 10^{-5}$
	P Each Batch	M Composite <sup>(4)</sup>	H-3	$1 \times 10^{-5}$
			Gross Alpha	$1 \times 10^{-7}$
	P Each Batch	Q Composite <sup>(4)</sup>	Sr-89, Sr-90	$5 \times 10^{-8}$
			Fe-55	$1 \times 10^{-6}$
2. Continuous Releases <sup>(5)</sup>  Steam Generator Blowdown	Daily <sup>(6)</sup> Grab Sample	W Composite <sup>(4)</sup>	Principal Gamma Emitters <sup>(3)</sup>	$5 \times 10^{-7}$
			I-131	$1 \times 10^{-6}$
	M Grab Sample	M	Dissolved and Entrained Gases (Gamma Emitters)	$1 \times 10^{-5}$
	Daily <sup>(6)</sup> Grab Sample	M Composite <sup>(4)</sup>	H-3	$1 \times 10^{-5}$
			Gross Alpha	$1 \times 10^{-7}$
	Daily <sup>(6)</sup> Grab Sample	Q Composite <sup>(4)</sup>	Sr-89, Sr-90	$5 \times 10^{-8}$
			Fe-55	$1 \times 10^{-6}$



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
SUPPORTING AMENDMENT NO. 2 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 October 3, 1984, as supplemented December 6, 1984 and December 27, 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 would modify Table 4.11-1 of the Callaway Technical Specifications (TS) to include two additional Batch Waste Release Tanks.

2.0 EVALUATION

The licensee requested the addition of two 100,000 gallon tanks for the purpose of storing liquid waste generated from the secondary coolant sluice water. This waste water originates from the condenser hot well and is used as the working fluid to transport resins from the condensate demineralizers into the condensate demineralizer regeneration system, and also to carry acid and caustic into the same system. As this sluice water leaves the condensate demineralizer regeneration system, it contains amounts of dissolved solids and conductivity that is unacceptable for returning to the condenser hot well without additional treatment. The secondary liquid waste system possesses the flexibility to either process this water through an evaporator and/or demineralizer so that it can be returned to the condenser hotwell, or to directly discharge the untreated water to the river.

In a telephone conversation on December 19, 1984, Union Electric stated that if this stream contains radioactivity, as determined by sampling and/or monitoring of the secondary waste discharge, it would be redirected through the secondary waste evaporators and demineralizers at which time it would then be returned to the condenser hot well. However, because there normally is insignificant radioactivity in this stream, Union Electric has chosen, for financial considerations, to by-pass the secondary waste evaporator and demineralizers and discharge the water to the environment while making up the loss of condensate by cheaper methods.

To ensure releases are within technical specification radioactivity and NPDES limits, Union Electric will add storage tanks (two 100,000 gallon tanks) in parallel with the two existing secondary liquid waste monitor tanks (15,000 gallons each) to provide sufficient time for sampling and analyses prior to discharge.

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The staff finds the design change to add two 100,000 gallon discharge monitor tanks and the associated Technical Specification change to be acceptable. This conclusion is based on the following facts:

- a) Even though the secondary waste evaporator and demineralizers are by-passed, there will only be an insignificant increase in radioactivity release via this stream.
- b) All secondary waste is sampled and monitored for radioactivity prior to and during releases.
- c) Releases of secondary waste pollutants (such as radioactivity, chemicals and total dissolved solids) is limited by Technical Specification and NPDES limits.
- d) Proper tank protection features meeting the requirements of Regulatory Guide 1.143 for radioactive waste treatment systems are provided.
- e) All radioactive effluents are limited by Technical Specifications. This amendment does not affect these limits.

### 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). An environmental assessment was prepared for this amendment request (49FR50848) in which it was determined that an environmental impact statement was not required for this action.

### 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: February 4, 1985

Principal Contributors:

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J. A. Stevens, LB#1