

- May 2, 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: ENVIRONMENTAL ASSESSMENT AND FINDING OF NO SIGNIFICANT IMPACT,  
CALLAWAY PLANT (TAC NO. 75619)

Enclosed is a copy of an "Environmental Assessment and Finding of No Significant Impact" for your information. This environmental assessment relates to your letters dated December 28, 1989 and March 6, 1990 regarding your application for amendment to revise the Technical Specifications to reflect the maximum enrichment for fuel storage in Region 1 of the spent fuel pool.

The environmental assessment has been forwarded to the Office of the Federal Register for publication.

Sincerely,

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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

Enclosure:  
As stated

cc: See next page

Office: LA/PDIII-3  
Surname: PKreutzer  
Date: 4/10/90

PM/PDIII-3  
TGody/tg  
4/10/90

PD/PDIII-3  
JHannon  
4/13/90

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UNITED STATES NUCLEAR REGULATORY COMMISSIONUNION ELECTRIC COMPANYDOCKET NO. 50-483ENVIRONMENTAL ASSESSMENT AND FINDING OFNO SIGNIFICANT IMPACT

The U.S. Nuclear Regulatory Commission (the Commission) is considering issuance of an amendment to Facility Operating License No. NPF-30, issued to Union Electric Company (the licensee), for operation of the Callaway Plant, located in Callaway County, Missouri.

ENVIRONMENTAL ASSESSMENTIdentification of Proposed Action

The proposed amendment would allow the licensee to store spent fuel with a maximum enrichment up to 4.45 w/o U-235 in the Region 1 area of the spent fuel pool.

The proposed action is in accordance with the licensee's application for amendment dated December 28, 1989 as supplemented by a letter dated March 6, 1990.

The Need for the Proposed Action

The licensee intends to increase the fuel enrichment for the Callaway Plant to a nominal value of 4.40 w/o U-235. New fuel will be stored in Region 1 of the Callaway spent fuel pool while awaiting reload for cycle 5 operation. At present, fuel of maximum enrichment up to 4.25 w/o can be stored in the Region 1 area of the spent fuel pool.

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Environmental Impacts of the Proposed Action

The Commission has completed its evaluation of the proposed revision to the TSs. The proposed amendment would allow storage of enriched fuel of 4.45 w/o U-235 in the Region 1 area of the Callaway spent fuel pool where at present fuel of 4.25 w/o maximum enrichment is allowed to be stored. The use of fuel with a maximum enrichment of 4.45 w/o U-235 would not significantly increase the probability or consequences of any accidents previously analyzed. No significant changes in the types or amounts of radiological effluents during normal operation or postulated accidents that may be released offsite are incurred by the increased w/o fuel enrichment. As a result, no significant increase in the individual or cumulative occupational radiation exposure is noted.

Therefore, since the proposed changes do not increase the probability or consequences of accidents, no changes are being made in the types or amounts of any radiological effluents that may be released offsite, and there is no significant increase in the allowable individual or cumulative occupational radiation exposure, the Commission concludes that this proposed action would result in no significant radiological environmental impact.

With regard to potential nonradiological impacts, the proposed change to the TS involves systems located within the restricted area as defined by 10 CFR Part 20. The proposed change will not result in a measurable change to the nonradiological plant effluents and therefore will not have any environmental impact. Therefore, the Commission concludes that there are no significant nonradiological environment impacts associated with the proposed amendment.

The Notice of Consideration of Issuance of Amendment and Opportunity for Hearing in connection with this action was published in the FEDERAL REGISTER on February 27, 1990 (55 FR 6850). No request for hearing or petition for leave to intervene was filed following this notice.

Alternative to the Proposed Action

Since the Commission concluded that there are no significant environmental effects that would result from the proposed action, any alternatives with equal or greater environmental impacts need not be evaluated. The principal alternative would be to deny the requested amendment. This would not reduce environmental impacts of plant operation and would result in reduced operational flexibility.

Alternative Use of Resources

This action does not involve the use of any resources not previously considered in the Final Environmental Statement for the Callaway Plant dated January 1982.

Agencies and Persons Consulted

The NRC staff reviewed the licensee's request and did not consult other agencies or persons.

FINDING OF NO SIGNIFICANT IMPACT

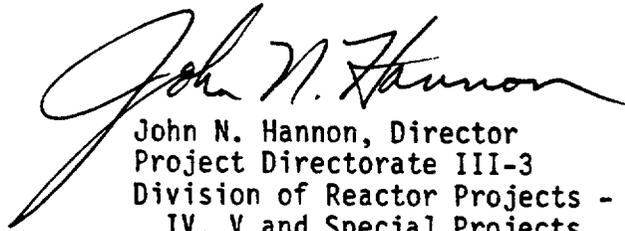
The Commission has determined not to prepare an environmental impact statement for the proposed license amendment.

Based upon the foregoing environmental assessment, we conclude that the proposed action will not have a significant effect on the quality of the human environment.

For further details with respect to this action, see the application for amendment dated December 28, 1989 and supplement dated March 6, 1990 which are available for public inspection at the Commission's Public Document Room, 2120 L Street, N.W., Washington, D.C. and at the Callaway County Public Library, 710 Court Street, Fulton, Missouri 65251, and the John M. Olin Library, Washington University, Skinker and Lindell Boulevards, St. Louis, Missouri 63130.

Dated at Rockville, Maryland, this 2nd of May 1990.

FOR THE NUCLEAR REGULATORY COMMISSION

A handwritten signature in cursive script, reading "John N. Hannon". The signature is written in dark ink and is positioned to the left of the typed name and title.

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

Mr. D. F. Schnell  
Union Electric Company

Callaway Plant  
Unit No. 1

cc:

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