

February 17, 1988

Docket No. 50-483

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

Dear Mr. Schnell:

SUBJECT: NOTICE OF ENVIRONMENTAL ASSESSMENT AND FINDING OF NO
SIGNIFICANT IMPACT RELATING TO UPGRADE OF RATED CORE POWER

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 March 31, April 21, September 18, October 2, October 23, and November 13, 1987, regarding your application for a license amendment to increase the presently rated core power level of 3411 megawatts thermal (MWt) to 3565 MWt.

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

Sincerely,

15/

Thomas W. Alexion, Project Manager
Project Directorate III-3
Division of Reactor Projects

Enclosure:
As stated

cc: w/enclosure:
See next page

Office: LA/PDIII-3
Surname: PKreutzer
Date: 12/3/87

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PDR

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
Supervisor, Compliance
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 COMMISSIONUNION ELECTRIC COMPANYCALLAWAY PLANT, UNIT 1DOCKET NO. 50-483ENVIRONMENTAL ASSESSMENT ANDFINDING OF NO 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, Unit 1, located in Callaway County, Missouri.

ENVIRONMENTAL ASSESSMENTIdentification of Proposed Action:

This Environmental Assessment is written in connection with the proposed core uprate for the Callaway Plant, Unit 1 in response to the licensee's application for a license amendment dated March 31, 1987, as supplemented April 21, September 18, October 2, October 23, and November 13, 1987. The proposed action would upgrade the rated core power level for Callaway from the current level of 3411 Megawatts-thermal (MWt) to 3565 MWt, and upgrade the Nuclear Steam Supply System (NSSS) thermal power from the current level of 3425 MWt to 3579 MWt. This uprate would represent an increase of approximately 4.5 percent over the current rated core power and NSSS thermal power.

The Need for the Proposed Action:

The proposed action would increase the electrical output by 51 Megawatts-electrical (MWe) and thus provide additional electric power to the

grid which services the commercial and domestic areas in the State of Missouri.

Environmental Impacts of the Proposed Action:

A slight change in environmental impact can be expected for the proposed increase in power. The proposed core uprating is projected to increase the rejected heat by approximately 4.5 percent. However, the NRC-approved Final Environmental Statement (FES), as amended, has already addressed plant operation up to a stretch NSSS power rating of 3579 MWt. Thus, the 4.5 percent increase in rejected heat has already been evaluated and determined to not significantly impact on the quality of the human environment. Also, the proposed increase in the NSSS power involves no significant change in types or significant increase in the amount of any effluents that may be released offsite which have not already been evaluated and approved in the FES (as amended) for a NSSS power rating of 3579 MWt. Similarly, as enveloped by the FES (as amended), there would be no significant increase in individual or cumulative occupational radiation exposure.

Alternatives to the Proposed Action:

The principal alternative to the proposed action would be to deny the requested amendment. This alternative would be in contradiction to the fact that the NRC-approved FES, as amended, has already addressed operation up to a stretch power rating of 3579 MWt.

Alternative Use of Resources:

This action does not involve the use of resources not considered previously in the FES (as amended) for Callaway Plant, Unit No. 1.

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 amendment. Based upon the foregoing environmental assessment, the NRC staff concludes 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 request for amendment dated March 31, 1987, as supplemented April 21, September 18, October 2, October 23, and November 13, 1987, which is available for public inspection at the Commission's Public Document Room, 1717 H 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 Bethesda, Maryland, this 17th day of February, 1988.

FOR THE NUCLEAR REGULATORY COMMISSION



Kenneth E. Perkins, Director
Project Directorate III-3
Division of Reactor Projects