

UNITED STATES NUCLEAR REGULATORY COMMISSIONUNION ELECTRIC COMPANYCALLAWAY PLANT, UNIT 1DOCKET NO. 50-483ENVIRONMENTAL ASSESSMENT AND
FINDING 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.

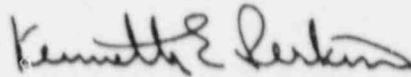
FINDING OF NO SIGNIFICANT IMPACT:

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 II'-3
Division of Reactor Projects