

August 21, 1995

Mr. M. S. Tuckman
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SUBJECT: ENVIRONMENTAL ASSESSMENT AND FINDING OF NO SIGNIFICANT IMPACT,
CATAWBA NUCLEAR STATION, UNITS 1 AND 2 (TAC NOS. M86929 AND M86930)

Dear Mr. Tuckman:

Enclosed for your information is a copy of an "Environmental Assessment and Finding of No Significant Impact." This notice relates to your application dated June 17, 1993, as supplemented by letter dated July 5, 1995. The amendments revise Technical Specification (TS) 5.3.1 "Fuel Assemblies" to (a) allow an increase in the maximum specified enrichment for fuel assemblies from a nominal value of 4.0 to 5.0 weight percent Uranium-235, and (b) provide flexibility in the repair of fuel assemblies containing damaged and leaking fuel rods by reconstituting the assemblies in accordance with the guidance in Generic Letter 90-02, Supplement 1, "Alternative Requirements For Fuel Assemblies In The Design Features Section of Technical Specifications." The application is also generally consistent with the format and content of the improved Standard TS for Westinghouse plants provided in NUREG-1431, "Standard Technical Specifications Westinghouse Plants."

This notice is being forwarded to the Office of the Federal Register for publication.

Sincerely,

Original signed by:

Herbert N. Berkow, Director
Project Directorate II-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket Nos. 50-413 and 50-414

Enclosure: Environmental Assessment

cc w/encl: See next page

* see previous concurrence

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UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

August 21, 1995

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Senior Vice President
Nuclear Generation
Duke Power Company
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Sincerely,

A handwritten signature in cursive script that reads "Herbert N. Berkow".

Herbert N. Berkow, Director
Project Directorate II-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket Nos. 50-413 and 50-414

Enclosure: Environmental Assessment

cc w/encl: See next page

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UNITED STATES NUCLEAR REGULATORY COMMISSIONDUKE POWER COMPANY, ET AL.DOCKET NOS. 50-413 AND 50-414CATAWBA NUCLEAR STATION, UNIT NOS. 1 AND 2ENVIRONMENTAL ASSESSMENT AND FINDING OFNO SIGNIFICANT IMPACT

The U.S. Nuclear Regulatory Commission (the Commission) is considering issuance of amendments to Facility Operating License Nos. NPF-35 and NPF-52, issued to Duke Power Company, et al. (the licensee), for operation of the Catawba Nuclear Station, Units 1 and 2, located in York County, South Carolina.

ENVIRONMENTAL ASSESSMENTIdentification of the Proposed Action:

The proposed action would revise Technical Specification (TS) 5.3.1 "Fuel Assemblies" to (a) allow an increase in the maximum specified enrichment for fuel assemblies from a nominal value of 4.0 to 5.0 weight percent Uranium-235, and (b) provide flexibility in the repair of fuel assemblies containing damaged and leaking fuel rods by reconstituting the assemblies in accordance with the guidance in Generic Letter 90-02, Supplement 1, "Alternative Requirements For Fuel Assemblies In The Design Features Section of Technical Specifications." The application is also generally consistent with the format and content of the improved Standard TS for Westinghouse plants provided in NUREG-1431, "Standard Technical Specifications Westinghouse Plants."

The proposed action is in accordance with the licensee's application for amendments dated June 17, 1993, as supplemented by letter dated July 5, 1995.

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The Need for the Proposed Action:

The proposed action is needed so that the licensee can use higher fuel enrichment to provide additional flexibility in the licensee's reload design efforts and to provide flexibility in the reconstitution of fuel assemblies that are found to be leaking or are determined to be probable sources of future leakage.

Environmental Impacts of the Proposed Action:

The Commission has completed its evaluation of the proposed revisions to the TS. The proposed revisions would permit storage of fuel enriched to a nominal 5.0 weight percent Uranium-235. The safety considerations associated with storing new and spent fuel of a higher enrichment have been evaluated by the NRC staff. The staff has concluded that such changes would not adversely affect plant safety. The proposed changes have no adverse effect on the probability of any accident. No changes are being made in the types or amounts of any radiological effluents that may be released offsite. There is no significant increase in the allowable individual or cumulative occupational radiation exposure.

The environmental impacts of transportation resulting from the use of higher enrichment fuel and extended irradiation were published and discussed in the staff assessment entitled, "NRC Assessment of the Environmental Effects of Transportation Resulting from Extended Fuel Enrichment and Irradiation," dated July 7, 1988, and published in the Federal Register (53 FR 30355) on August 11, 1988, as corrected on August 24, 1988 (53 FR 32322), in connection with Shearon Harris Nuclear Power Plant, Unit 1: Environmental Assessment and Finding of No Significant Impact. As indicated therein, the environmental

cost contributions of the proposed increase in the fuel enrichment and irradiation limits are either unchanged or may, in fact, be reduced from those summarized in Table S-4 as set forth in 10 CFR 51.52(c). Accordingly, the Commission concludes that there are no significant radiological environmental impacts associated with the proposed amendments.

With regard to potential nonradiological impacts, the proposed action involves features located entirely within the restricted area as defined in 10 CFR Part 20. It does not affect nonradiological plant effluents and has no other environmental impact. Accordingly, the Commission concludes that there are no significant nonradiological environmental impacts associated with the proposed action.

Alternatives to the Proposed Action:

Since the Commission has concluded there is no measurable environmental impact associated with the proposed action, any alternatives with equal or greater environmental impact need not be evaluated. The principal alternative to this action would be to deny the requested amendments. Such action would not reduce the environmental impacts of plant operations.

Alternative Use of Resources:

This action does not involve the use of resources not previously considered in the "Final Environmental Statement Related to the Operation of Catawba Nuclear Station Units 1 and 2," dated January 1983.

Agencies and Persons Consulted:

In accordance with its stated policy, on July 21, 1995, the NRC staff consulted with the South Carolina State official, Mr. V. Autrey of the Bureau of Radiological Health, Department of Health and Environmental Controls, regarding the environmental impact of the proposed action. The State official had no comments.

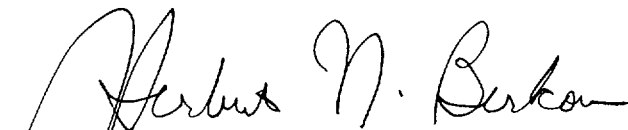
FINDING OF NO SIGNIFICANT IMPACT

Based upon the environmental assessment, the Commission concludes that the proposed action will not have a significant effect on the quality of the human environment. Accordingly, the Commission has determined not to prepare an environmental impact statement for the proposed license amendments.

For further details with respect to this action, see the licensee's letter dated June 17, 1993, as supplemented by letter dated July 5, 1995, which are available for public inspection at the Commission's Public Document Room, The Gelman Building, 2120 L Street, NW., Washington, DC, and at the local public document room located at the York County Library, 138 East Black Street, Rock Hill, South Carolina.

Dated at Rockville, Maryland, this 21st day of August 1995.

FOR THE NUCLEAR REGULATORY COMMISSION



Herbert N. Berkow, Director
Project Directorate II-2
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation