



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
SUPPORTING AMENDMENT NO. 36 TO FACILITY OPERATING LICENSE NO. DPR-38

AMENDMENT NO. 36 TO FACILITY OPERATING LICENSE NO. DPR-47

AMENDMENT NO. 33 TO FACILITY OPERATING LICENSE NO. DPR-55

DUKE POWER COMPANY

OCONEE NUCLEAR STATION, UNITS NOS. 1, 2 AND 3

DOCKETS NOS. 50-269, 50-270 AND 50-287

Introduction

By letter dated May 27, 1976, Duke Power Company (licensee) requested changes to the Technical Specifications for the Oconee Nuclear Station. These changes concern the measurement and control of radioactive liquid and gaseous effluents.

Discussion

The changes to the Technical Specifications are:

1. The addition of the condensate monitoring tank and the laundry - hot shower tank to Table 4.1-3 as part of the list of tanks to be sampled for radioactivity prior to release. A gamma isotopic analysis will now be performed instead of gross beta and gamma activity for all tanks.
2. Changes in gamma isotopic analysis sensitivities for the waste gas tanks, unit vent and reactor building purge in Table 4.1-3.
3. Changes in water samples used for offsite radiological monitoring and the addition of a requirement to measure I-131 in Table 4.11-2.
4. Revision of analytical sensitivities in Table 4.11.3.

Evaluation

1. The condensate monitoring tank and the laundry - hot shower tank were added to the list in Table 4.1-3 of tanks to be sampled prior to release of each batch. For the low activity waste tank and condensate test tank the requirement for gross beta and gamma activity, Ba-La-140 and I-131 were deleted. In place of gross activity

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analyses, the licensee will now perform a gamma isotopic analysis including dissolved noble gases on the contents of all tanks prior to the release of effluents. We find that these changes will provide more encompassing information than the gross activity measurements and will include the isotopes now being analyzed. We therefore conclude that these changes are acceptable.

2. Gamma isotopic analysis sensitivities for the waste gas decay tank, unit vent and reactor building purge in Table 4.1-3 were revised to include separate sensitivities for gases and for particulates and iodines. Separating the sensitivities is an improvement over having a sensitivity for all of the activity combined, since the sensitivity is now more representative of the type of activity (i.e. gaseous or particulate) being measured. We find these changes to be desirable and conclude that they are acceptable.
3. In the samples required for the offsite radiological monitoring program (Table 4.11-2), water supply samples were divided into two categories: water supply (raw) and water (other than raw water supply). A requirement to measure I-131 in the monthly raw water supply was added to the analyses now performed to check on the intake of this isotope by livestock consuming water from Hartwell Reservoir. The requirement for I-131 analyses on the monthly and quarterly milk samples was deleted since it is performed on the weekly samples. We find these changes to be acceptable.
4. The required analytical sensitivities in Table 4.11-3 were revised to be consistent with current guidance to demonstrate that the effluent releases are within the Appendix I design objective annual exposure limits and to reflect the current Oconee radiological sampling program. Sensitivities were added for 9 isotopes that were not previously listed in the Table. The sensitivity for I-131 analyses on water samples was changed from 0.5 to 1.5 pCi/m³ since this value is considered to better represent the current state of technology. We conclude that these changes are acceptable.

In summary, we conclude that the requested changes will provide more definitive information from the radiological program.

We have determined that this amendment does not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendment involves an action which is insignificant from the standpoint of environmental impact and, pursuant to 10 CFR §51.5(d)(4), that an environmental statement or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

Conclusion

We have concluded, based on the considerations discussed above, that: (1) because the amendments do not involve a significant increase in the probability or consequences of accidents previously considered and do not involve a significant decrease in a safety margin, the amendments do not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (3) such activities will be conducted in compliance with the Commission's regulations and the issuance of these amendments will not be inimical to the common defense and security or to the health and safety of the public.

Date: January 27, 1977

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKETS NOS. 50-269, 50-270 AND 50-287

DUKE POWER COMPANY

NOTICE OF ISSUANCE OF AMENDMENTS TO FACILITY
OPERATING LICENSES

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendments Nos. 36, 36 and 33 to Facility Operating Licenses Nos. DPR-38, DPR-47 and DPR-55, respectively, issued to Duke Power Company (the licensee), which revised Technical Specifications for operation of the Oconee Nuclear Station Units Nos. 1, 2 and 3 (the facility) located in Oconee County, South Carolina. The amendments are effective as of their date of issuance.

These changes are related to the measurement and control of radioactive liquid and gaseous effluents from the Oconee Nuclear Station and will provide more definitive information from the radiological monitoring program.

The application for these amendments complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendments. Prior public notice of these amendments was not required since these amendments do not involve a significant hazards consideration.

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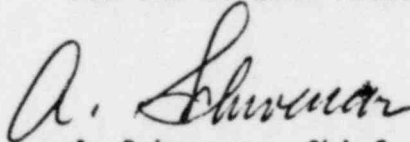
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The Commission has determined that the issuance of these amendments will not result in any significant environmental impact and that pursuant to 10 CFR §51.5(d)(4) an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with issuance of these amendments.

For further details with respect to this action, see (1) the application for amendment dated May 27, 1976, (2) Amendments Nos. 36, 36 and 33 to Licenses Nos. DPR-38, DPR-47 and DPR-55, respectively, and (3) the Commission's related Safety Evaluation. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C. and at the Oconee County Library, 201 South Spring Street, Walhalla, South Carolina 29691. A copy of items (2) and (3) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Operating Reactors.

Dated at Bethesda, Maryland, this 27th day of January 1977.

FOR THE NUCLEAR REGULATORY COMMISSION



A. Schwencer, Chief
Operating Reactors Branch #1
Division of Operating Reactors