

Dockets Nos. 50-269
50-270
and 50-287

March 17, 1977

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Duke Power Company
ATTN: Mr. William O. Parker, Jr.
Vice President
Steam Production
Post Office Box 2178
422 South Church Street
Charlotte, North Carolina 28242

Gentlemen:

The Commission has issued the enclosed Amendments Nos. 39, 39 and 36 for Licenses Nos. DPR-38, DPR-47 and DPR-55 for the Oconee Nuclear Station, Units Nos. 1, 2 and 3. These amendments consist of changes to the station's common Technical Specifications and are in response to your application dated May 13, 1976, as supplemented September 29, 1976 and December 2, 1976 and your application dated September 1, 1976.

The amendments revise the common Technical Specifications to (1) increase the upper limit for pH of water discharged from the station from 8.5 to 9.0, and (2) change the method of control of station chemical effluents from a chemical inventory program to a chemical concentration monitoring program.

Copies of the Environmental Impact Appraisal and Federal Register Notice are also enclosed.

Sincerely,

Original signed by

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

Enclosures:
See next page

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Enclosures:

1. Amendment No. 39 to DPR-38
2. Amendment No. 39 to DPR-47
3. Amendment No. 36 to DPR-55
4. Environmental Impact Appraisal
5. Federal Register Notice

cc w/enclosures:
See next page

3 6

OFFICE ➤						
SURNAME ➤						
DATE ➤						



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

DUKE POWER COMPANY

DOCKET NO. 50-269

OCONEE NUCLEAR STATION, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 39
License No. DPR-38

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Duke Power Company (the licensee) dated May 13, 1976, as supplemented September 29 and December 2, 1976, and application dated September 1, 1976, comply with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment and paragraph 3.B of the Facility License No. DPR-38 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 39, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



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

Attachment:
Changes to the Technical
Specifications

Date of Issuance: March 17, 1977

ATTACHMENT TO LICENSE AMENDMENTS

AMENDMENT NO. 39 TO DPR-38

AMENDMENT NO. 39 TO DPR-47

AMENDMENT NO. 36 TO DPR-55

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

Revise Appendix B as follows:

Remove pages 5 and 6 and insert revised pages 5 and 6.

TABLE 1.2-1

LIMITS AND MONITORING REQUIREMENTS ON CERTAIN CHEMICALS AND pH OF
WATER RELEASED FROM OCONEE NUCLEAR STATION

Type Monitoring	Waste Water Treatment System ^a		Low Level Rad Waste System ^b	
	Frequency	Limit	Frequency	Limit
pH	Daily	6.0 - 9.0		
Hydrazine	Daily	0.7 ppm	Prior to Release	0.1 ppm
Boron			Prior to Release	1.0 ppm

^aMonitored at point of release to Hartwell Reservoir.

^bConcentrations are measured prior to point of discharge. Limits apply on downstream incremental increases in concentration in the Hartwell Reservoir following dilution in the Keowee tailrace.



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

DUKE POWER COMPANY

DOCKET NO. 50-270

OCONEE NUCLEAR STATION, UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 39
License No. DPR-47

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Duke Power Company (the licensee) dated May 13, 1976, as supplemented September 29 and December 2, 1976, and application dated September 1, 1976, comply with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

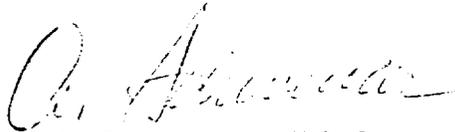
2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment and paragraph 3.B of the Facility License No. DPR-47 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 39, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



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

Attachment:
Changes to the Technical
Specifications

Date of Issuance: March 17, 1977



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

DUKE POWER COMPANY

DOCKET NO. 50-287

OCONEE NUCLEAR STATION, UNIT NO. 3

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 36
License No. DPR-55

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Duke Power Company (the licensee) dated May 13, 1976, as supplemented September 29 and December 2, 1976, and application dated September 1, 1976, comply with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment and paragraph 3.B of the Facility License No. DPR-55 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 36, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



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

Attachment:
Changes to the Technical
Specifications

Date of Issuance: March 17, 1977

By letter dated December 2, 1976 the licensee submitted its dilution model which we have reviewed; we agree with the approach used and the results obtained.

2. Chemicals usage:

The Oconee Final Environmental Statement (FES) dated March 1972, described the expected chemical usage at the station. The expected levels of chemical usage were adopted as limiting conditions for operation (LCO's) in the present Appendix B Technical Specifications. The FES originally identified these chemicals for the purpose of obtaining background information with the recommendation that the discharge concentrations of these chemicals be monitored once the plant becomes operational to determine what the actual levels would be. Based on the monitoring which has been done and reported in the semiannual reports, no adverse effects on the environment have been detected. Because it was not expected in the FES that the effect of these chemical releases would be detrimental to the environment and as no detrimental effects have been observed as a result of them we conclude that it is no longer necessary to keep the following in the Technical Specifications: lithium hydroxide, sodium hydroxide, sulphuric acid, floor cleaning detergent and laundry detergent. Specifications on boron, hydrazine and pH are being retained since the environmental impact of these chemicals and parameters is discussed in Section Vc-2a of the FES and the FES contains recommendations for their inclusion as LCO's in the Technical Specifications. The Technical Specification proposed by the licensee in its letter of September 1, 1976, were modified by us with the agreement of the licensee to reflect the above changes.

In summary, the changes made in these amendments are consistent with the recommendations made in the FES. Further, the Technical Specifications with these changes will be consistent with those of the existing NPDES permit.

Conclusion and Basis for Negative Declaration

On the basis of the foregoing analysis, it is concluded that there will be no significant environmental impact attributable to the proposed action. Having made this conclusion, the Commission has further concluded that no environmental impact statement for the proposed action need be prepared and that a negative declaration to this effect is appropriate.

Date: March 17, 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

AND NEGATIVE DECLARATION

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendments Nos. 39, 39 and 36 to Facility Operating Licenses Nos. DPR-38, DPR-47 and DPR-55, respectively, issued to Duke Power Company which revised Technical Specifications for operation of the Oconee Nuclear Station Units Nos. 1, 2 and 3, located in Oconee County, South Carolina. The amendments are effective as of the date of issuance.

The amendments revise the common Technical Specifications to (1) increase the upper limit for pH of water discharged from the station from 8.5 to 9.0. and (2) change the method of control of station chemical effluents from a chemical inventory program to a chemical concentration monitoring program.

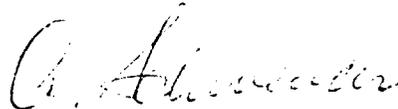
The application for the amendments complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR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

The Commission has prepared an environmental impact appraisal for the revised Technical Specifications and has concluded that an environmental impact statement for this particular action is not warranted because there will be no significant environmental impact attributable to the action.

For further details with respect to this action, see (1) the application for amendments dated May 13, 1976 as supplemented September 29 and December 2, 1976, and application dated September 1, 1976, (2) Amendments Nos. 39, 39 and 36 to Licenses Nos. DPR-38, DPR-47 and DPR-55, respectively, and (3) the Commission's related Environmental Impact Appraisal. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, NW., 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 17th day of March 1977.

FOR THE NUCLEAR REGULATORY COMMISSION



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



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

ENVIRONMENTAL IMPACT APPRAISAL BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 39 TO DPR-38

AMENDMENT NO. 39 TO DPR-47

AMENDMENT NO. 36 TO DPR-55

DUKE POWER COMPANY

OCONEE NUCLEAR STATION, UNITS 1, 2 & 3

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

Introduction

By letters dated May 13, 1976 and September 1, 1976 the Duke Power Company (the licensee) made application to amend the Oconee Nuclear Station licenses. The license would be amended by revising Appendix B of the Environmental Technical Specifications. The first application requested that the upper limit for pH of water discharged from the station be increased from 8.5 to 9.0. The second application requested that the method of control of station chemical effluents be changed from a chemical inventory program to a chemical concentration monitoring program. These changes involve Section 1.2 and Table 1.2-1 of Appendix B and are non-radiological in nature.

Discussion and Evaluation

1. pH of discharge water:

In a letter dated September 29, 1976, which supplemented its May 13, 1976 application, the licensee described the calculational results obtained from a model it developed to predict the area that would be affected by high pH discharges. The results indicate that for the worst case of mixing, the alkalinity of the effluent discharge would be dispersed to 8.4 mg/l as CaCO₃ equivalent after 250 feet of mixing with the Keowee receiving waters. For the average case, the effluent alkalinity would be dispersed to 8.5 mg/l as CaCO₃ equivalent after 30 feet of mixing. The average background alkalinity of the Keowee River is 7.5 mg/l as CaCO₃ equivalent. As the area required for dispersion to a level close to background level is small in comparison to the thousands of acres of receiving water available in Lake Keowee and the Hartwell Reservoir, we judge that this change of the upper limit for pH from 8.5 to 9.0 is insignificant and the impacts are within levels previously analyzed in the FES.