

June 15, 1988

Docket Nos.: 50-269, 50-270
and 50-287

Mr. H. B. Tucker, Vice President
Nuclear Production Department
Duke Power Company
422 South Church Street
Charlotte, North Carolina 28242

Dear Mr. Tucker:

SUBJECT: ISSUANCE OF AMENDMENT NOS. 167, 167, AND 164 TO FACILITY OPERATING
LICENSES DPR-38, DPR-47, and DPR-55 - OCONEE NUCLEAR STATION,
UNITS 1, 2, AND 3 (TACS 61371/61372/61373)

The Nuclear Regulatory Commission has issued the enclosed Amendment Nos.
167, 167 and 164 to Facility Operating Licenses Nos. DPR-38, DPR-47 and DPR-55
for the Oconee Nuclear Station, Units 1, 2, and 3. These amendments consist of
changes to the Station's common technical Specifications (TSs) in response to
your request dated January 21, 1986, as revised March 3, 1987.

The amendments revise the TSs related to the transfer of radioactive effluents
to the chemical treatment pond.

A copy of our Safety Evaluation is also enclosed. Notice of issuance of the
enclosed amendments will be included in the Commission's bi-weekly Federal
Register notice.

Sincerely,

Original signed by:

Helen N. Pastis, Project Manager
Project Directorate II-3
Division of Reactor Projects - I/II

Enclosures:

1. Amendment No. 167 to DPR-38
2. Amendment No. 167 to DPR-47
3. Amendment No. 164 to DPR-55
4. Safety Evaluation

cc w/enclosures:
See next page

*SEE PREVIOUS PAGE FOR CONCURRENCE

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HPastis:
04/26/88


PDII-3/DRP-I/II
DMatthews
6/17/88

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PDR ADOCK 05000269
P PDR

DATED: June 15, 1988

AMENDMENT NO. 167 TO FACILITY OPERATING LICENSE DPR-38 - Oconee Nuclear Station, Unit 1
AMENDMENT NO. 167 TO FACILITY OPERATING LICENSE DPR-47 - Oconee Nuclear Station, Unit 2
AMENDMENT NO. 164 TO FACILITY OPERATING LICENSE DPR-55 - Oconee Nuclear Station, Unit 3

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Mr. H. B. Tucker
Duke Power Company

Oconee Nuclear Station
Units Nos. 1, 2 and 3

cc:

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Office of Intergovernmental Relations
116 West Jones Street
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Honorable James M. Phinney
County Supervisor of Oconee County
Walhalla, South Carolina 29621



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

DUKE POWER COMPANY

DOCKET NO. 50-269

OCONEE NUCLEAR STATION, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 167
License No. DPR-38

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment to the Oconee Nuclear Station, Unit 1 (the facility) Facility Operating License No. DPR-38 filed by the Duke Power Company (the licensee) dated January 21, 1986, as revised March 3, 1987, complies 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 set forth in 10 CFR Chapter I;
 - D. The issuance of this license 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 hereby amended by page changes to the Technical Specifications as indicated in the attachments to this license amendment, and Paragraph 3.B. of Facility Operating License No. DPR-38 is hereby amended to read as follows:

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3.B. Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 167, 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 its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Original signed by:

David B. Matthews, Director
Project Directorate II-3
Division of Reactor Projects - I/II

Attachment:
Technical Specification
Changes

Date of Issuance: June 15, 1988

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6/14/88



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

DUKE POWER COMPANY

DOCKET NO. 50-270

OCONEE NUCLEAR STATION, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 167
License No. DPR-47

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment to the Oconee Nuclear Station, Unit 2 (the facility) Facility Operating License No. DPR-47 filed by the Duke Power Company (the licensee) dated January 21, 1986, as revised March 3, 1988, complies 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 set forth in 10 CFR Chapter I;
 - D. The issuance of this license 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 hereby amended by page changes to the Technical Specifications as indicated in the attachments to this license amendment, and Paragraph 3.B. of Facility Operating License No. DPR-47 is hereby amended to read as follows:

3.B. Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 167, 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 its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Original signed by:

David B. Matthews, Director
Project Directorate II-3
Division of Reactor Projects - I/II

Attachment:
Technical Specification
Changes

Date of Issuance: June 15, 1988

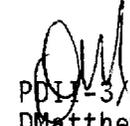
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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

DUKE POWER COMPANY

DOCKET NO. 50-287

OCONEE NUCLEAR STATION, UNIT 3

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 164
License No. DPR-55

The Nuclear Regulatory Commission (the Commission) has found that:

- A. The application for amendment to the Oconee Nuclear Station, Unit 3 (the facility) Facility Operating License No. DPR-55 filed by the Duke Power Company (the licensee) dated January 21, 1986, as revised March 3, 1988, complies 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 set forth in 10 CFR Chapter I;
 - D. The issuance of this license 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 hereby amended by page changes to the Technical Specifications as indicated in the attachments to this license amendment, and Paragraph 3.B. of Facility Operating License No. DPR-55 is hereby amended to read as follows:

3.B. Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No.164 , 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 its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Original signed by:

David B. Matthews, Director
Project Directorate II-3
Division of Reactor Projects - I/II

Attachment:
Technical Specification
Changes

Date of Issuance: June 15, 1988

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DMatthews
6/14/88

ATTACHMENT TO LICENSE AMENDMENT NO. 167

FACILITY OPERATING LICENSE NO. DPR-38

DOCKET NO. 50-269

AND

TO LICENSE AMENDMENT NO. 167

FACILITY OPERATING LICENSE NO. DPR-47

DOCKET NO. 50-270

AND

TO LICENSE AMENDMENT NO. 164

FACILITY OPERATING LICENSE NO. DPR-55

DOCKET NO. 50-287

Replace the following page of the Appendix "A" Technical Specifications with the enclosed page. The revised page is identified by Amendment number and contains a vertical line indicating the areas of change.

Remove Page

3.9-3

Insert Page

3.9-3

where A_j = pond inventory limit for single radionuclide "j"
(curies)

C_j = 10 CFR 20, Appendix B, Table II, Column 2, concentration
for single radionuclide "j" (curies)

- b. After a primary to secondary leak is detected, the initial batch of used Powdex resin shall not be transferred to the CTP. No batch of used powdex resin shall be transferred to the CTP unless the sum of the ratios of the activity of the radionuclides identified in the preceding batch from any powdex cell in the same unit is less than 0.1% of the limit identified in 3.9.4.a.

$$\sum_j \frac{Q_j}{A_j} < 1.0 \times 10^{-3}$$

where Q_j = radionuclide activity in the batch

A_j = pond inventory limit for radionuclide "j"

- c. The total radionuclide inventory of all batches of used powdex resin transferred to the Chemical Treatment Ponds over the previous 13 weeks, shall not exceed 0.4% of the pond radionuclide inventory limit. If this limit is exceeded, a report shall be submitted within 30 days to the Regional NRC Office describing the reason or reasons for exceeding the limit and plans for future operation. Decay of radionuclides may be taken into account in determining inventory levels.

$$Q_{j_1} + Q_{j_2} + Q_{j_3} + \dots + Q_{j_n} \leq .004 \times A_j$$

Where,

Q_j = Total inventory of radionuclide j in a batch

n = Number of batches transferred to the Chemical Treatment Ponds during the previous 13 - week period.

3.9.5 Liquid Holdup Tanks

- a. The quantity of radioactive material contained in each outside temporary tank shall be limited to less than or equal to 10 curies, excluding tritium and dissolved or entrained noble gases. Tanks included in this specification are those outdoor tanks that are not surrounded by liners, dikes, or walls capable of holding the tank contents and that do not have tank overflows and surrounding area drains connected to the liquid radwaste treatment system.
- b. The quantity of radioactive material contained in each of the outside temporary tanks shall be determined to be within the above limit by analyzing a representative sample of the tanks contents at least once per 7 days when radioactive materials are being added to the tank.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
RELATED TO AMENDMENT NO. 167 TO FACILITY OPERATING LICENSE DPR-38
AMENDMENT NO. 167 TO FACILITY OPERATING LICENSE DPR-47
AMENDMENT NO. 164 TO FACILITY OPERATING LICENSE DPR-55
DUKE POWER COMPANY
OCONEE NUCLEAR STATION, UNITS 1, 2 AND 3
DOCKET NOS. 50-269, 50-270 AND 50-287

I. INTRODUCTION

By application dated January 21, 1986, Duke Power Company (the licensee) requested amendments to Facility Operating License Nos. DPR-38, DPR-47, and DPR-55 for the Oconee Nuclear Station, Units 1, 2, and 3. These amendments concern the transfer of radioactive effluents to the chemical treatment pond. By a March 3, 1987 letter, the licensee revised the original application. The revisions would change Part C of Technical Specification (TS) 3.9.4, "Chemical Treatment Ponds (CTP 1 and 2)."

The Bases of the Oconee TS state that the inventory limits (of TS 3.9.4) for the Chemical Treatment Ponds are based on minimizing the consequences of an uncontrolled release of the pond inventory. The current Part c. of TS 3.9.4 provides that the quantity of radioactive material per transferred batch of used powdex resin averaged over the transfers of the previous 13 weeks shall not exceed 0.01% of the pond radionuclide inventory limit. The proposed amendment would delete this requirement and substitute it with a requirement that the total quantity of radioactive material of all batches of used powdex resin transferred to the Chemical Treatment Ponds over the previous 13 weeks shall not exceed 0.4% of the pond radionuclide inventory limit.

The licensee stated that in a situation where most of the powdex resin transfers are to the Powdex Backwash Tank rather than to the Chemical Treatment Ponds, the current technical specification can restrict transfers to the Chemical Treatment Ponds far beyond the original intent of the specification. Therefore, the licensee indicated that this amendment is being proposed to remove this inconsistency.

II. EVALUATION

The intent of Part c. of Oconee TS 3.9.4 is to limit the quantities of radioactive materials transferred to the Chemical Treatment Ponds in order to ensure that the total inventory limit in the ponds is not exceeded over the life of the nuclear station. The current Part c. limits only the average quantities of radioactive materials per batch of powdex resin transferred over the specified 13 week period. There is no limit on the total quantities transferred to the ponds during these time periods. The amendment proposed by the licensee would limit the total quantity of radioactive materials transferred to the ponds during these time periods, but would not limit the average quantity per batch as in the current Part c. The staff finds that the proposed revised approach is more in keeping with the intent of the TS than is the current Part c.

The licensee stated that over the 13 week time period specified, on the average, there are a total of 40 to 50 transfers of used powdex resin to the Chemical Treatment Ponds and the Powdex Backwash Tank. Assuming an average of 40 transfers to the ponds during this period and the current Part c. of the TS (which permits transfers of a per batch average quantity of radioactive materials of 0.01% of the pond inventory limit during this period), the total quantity of radioactive materials transferred during this period could be as much as 0.4% of the pond inventory limit. However, Part c. currently does not limit the number of batches transferred to the ponds. Therefore, since there is no limit on the percentage of the total pond inventory transferred to the ponds during any time period, the total quantity of radioactive material transferred to the ponds during a 13 week period could exceed 0.4% of the pond inventory limit.

To correct the above condition, the proposed revision to Part c. would limit the total quantity of radioactive materials transferred in a 13 week period to 0.4% of the pond inventory limit. Conservatively assuming a uniform input level at 0.4% of the pond inventory limit each 13 week period and no radioactive decay, no more than 48% of the total pond inventory limit will be accumulated in the ponds over the remaining 30 year life of the Oconee Nuclear Station under the proposed revision. This is consistent with the intent of the basis for this TS and provides assurance against unacceptable radioactive releases to the environment.

III. ENVIRONMENTAL CONSIDERATION

These amendments involve a change in the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. We have determined that the amendments involve no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that these amendments involve no significant hazards consideration, and there has been no public comment on such finding. Accordingly, these amendments meet the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of these amendments.

IV. CONCLUSION

The Commission made a proposed determination that the amendments involve no significant hazards consideration which was published in the Federal Register (51 FR 24253) on July 2, 1986 and (53 FR 15911) on May 4, 1988, and consulted with the state of South Carolina. No public comments were received, and the state of South Carolina did not have any comments.

We have concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (2) 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.

Principal Contributor: C. Nichols
H. Pastis, PD#II-3/DRP-I/II

Dated: June 15, 1988