



Dockets Nos. 50-269/270/287

August 16, 1976

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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 Amendment No. 30 to License No. DPR-38; Amendment No. 30 to License No. DPR-47; and Amendment No. 27 to License No. DPR-55 for the Oconee Nuclear Station, Units 1, 2, and 3. The amendments are in response to your application dated August 6, 1976.

The amendments revise the restriction governing the duration of Cycle 1 for Unit 3 to allow operation to September 18, 1976.

Copies of the Safety Evaluation and the Federal Register Notice are also enclosed.

Sincerely,

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

Enclosures:

1. Amendment No. 30 to DPR-38
2. Amendment No. 30 to DPR-47
3. Amendment No. 27 to DPR-55
4. Safety Evaluation
5. Federal Register Notice

cc w/enclosures:
 See next page

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Duke Power Company

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August 16, 1976

cc: Mr. William L. Porter
Duke Power Company
P. O. Box 2178
422 South Church Street
Charlotte, North Carolina 28242

Mr. Troy B. Conner
Conner & Knotts
1747 Pennsylvania Avenue, N. W.
Washington, D. C. 20006

Oconee Public Library
201 South Spring Street
Walhalla, South Carolina 29691

Honorable Reese A. Hubbard
County Supervisor of Oconee County
Walhalla, South Carolina 29621

Office of Intergovernmental
Relations
116 West Jones Street
Raleigh, North Carolina 27603



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. 30
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 August 6, 1976, 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;
 - 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.

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: August 16, 1976

ATTACHMENT TO LICENSE AMENDMENTS

AMENDMENT NO. 30 TO FACILITY LICENSE NO. DPR-38

AMENDMENT NO. 30 TO FACILITY LICENSE NO. DPR-47

AMENDMENT NO. 27 TO FACILITY LICENSE NO. DPR-55

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

Revise Appendix A as follows:

Remove page 3.17-1 and insert 3.17-1 revised page.

3.17 ADDITIONAL OPERATING RESTRICTIONS FOR OCONEE 3, CYCLE 1

Applicability

Applies to the operation of Oconee 3, Cycle 1 and is deleted after September 1, 1976.

Objective

To provide assurance that the operation of Oconee 3, Cycle 1 is in such a manner as to minimize the stress in degraded reactor vessel surveillance specimen holder tubes and to assure the capability to detect and respond to the possible failure of the holder tubes.

Specification

- 3.17.1 The Loose Parts Monitoring System shall have as a minimum two channels on the reactor vessel head service structure and one channel on the incore guide tubes operable when any reactor coolant pumps are operating.
- 3.17.2 a. Any abnormal indication on the Loose Parts Monitoring System shall be promptly investigated and an evaluation performed considering such factors as the duration of indication, intensity of the indication, location of the indication and comparability of the indication to previously observed/reference indications. Based on this evaluation, a determination shall be made as to whether or not continued operation is acceptable.
- b. The results of the evaluations performed pursuant to 3.17.2.a shall be reported by telephone to NRC/OIE within 24 hours.
- 3.17.3 A Reactor Coolant System gross gamma analysis shall be performed daily. If Reactor Coolant System gross gamma activity exceeds 1.0 microcurie per milliliter whenever reactor coolant pumps are operating, a gross alpha analysis will be initiated within four hours and continued on a daily basis until gross gamma activity is less than 1.0 microcuries per milliliter. The Reactor Coolant System gross alpha concentration shall not exceed 5×10^{-5} microcuries per milliliter.
- 3.17.4 With the exception of startup and shutdown, operation is restricted to four reactor coolant pumps.
- 3.17.5 Operation of Oconee 3, Cycle 1 shall be permitted only until September 18, 1976.
- 3.17.6 If the conditions of Specifications 3.17.1, 3.17.3 or 3.17.4 are not met, or if any abnormal indication of a loose part in the reactor vessel occurs, a reactor shutdown shall be initiated immediately and within 36 hours the reactor shall be in a condition in which no reactor coolant pumps are operating.



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. 30
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 August 6, 1976, 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;
 - 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.

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

FOR THE NUCLEAR REGULATORY COMMISSION

A handwritten signature in cursive script, appearing to read "A. Schwencer".

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

Attachment:
Changes to the Technical
Specifications

Date of Issuance: August 16, 1976



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. 27
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 August 6, 1976, 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;
 - 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.

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

FOR THE NUCLEAR REGULATORY COMMISSION

A handwritten signature in cursive script, appearing to read "A. Schwencer".

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

Attachment:
Changes to the Technical
Specifications

Date of Issuance: August 16, 1976



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 30 TO FACILITY LICENSE NO. DPR-38

AMENDMENT NO. 30 TO FACILITY LICENSE NO. DPR-47

AMENDMENT NO. 27 TO FACILITY 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 August 6, 1976, Duke Power Company (the licensee) requested a change to the Technical Specifications appended to Licenses No. DPR-38, DPR-47, and DPR-55 for the Oconee Nuclear Station, Units Nos. 1, 2, and 3. The proposed change would revise the restriction which presently limits the operation of Oconee Unit No. 3 Cycle 1 only until September 1, 1976 such that operation would be permitted to September 18, 1976. The operation of Units Nos. 1 and 2 would not be affected by the proposed change.

Discussion

On April 16, 1976, we issued an exemption to 10 CFR Part 50 Appendix H which permitted the licensee to operate the remainder of Oconee Unit No. 3 Cycle 1 with the reactor vessel surveillance specimens removed. This exemption was granted following our review of information provided by the licensee which showed that flow-induced relative motion between each of the three surveillance capsule holder tubes and components of the surveillance capsule holddown assemblies had resulted in wear damage to the holder tubes. In addition, flow-induced motion between the shroud tube, which surrounds the upper portion of each holder tube, and the shroud tube journal bearing had caused some wear damage to the shroud tube. The latter problem was essentially corrected by the licensee by expanding each holder tube in the journal bearing area to restore adequate journal bearing support.

To preclude further degradation of the holder tubes which are to remain in the reactor vessel until the Cycle 2 refueling outage, we approved the licensee's request to remove the surveillance capsules and holddown assemblies for the remainder of Cycle 1 operation. To minimize additional wear due to flow-induced motion between the shroud tube and journal bearing, additional Limiting Conditions for Operation (LCO's) for operation of Ocone 3 during Cycle 1 were included in the Technical Specifications issued with the exemption to 10 CFR 50, Appendix H. Included in these additional LCO's was the restriction which limited the operation of Ocone 3, Cycle 1 only until September 1, 1976. This restriction was established to approximately coincide with the projected end of Cycle 1 and to limit the total amount of time that the holder tubes would be subjected to the flow forces from the reactor coolant pumps.

In its letter of August 6, 1976, the licensee has indicated that several maintenance outages since April 16, 1976 have resulted in Unit No. 3 being off line 20 days and in a condition where reactor coolant pumps have not been in operation for 12 days. In order to permit fuller utilization of the Unit No. 3 Cycle 1 Core and to enhance equipment and parts availability for the impending refueling outage, the licensee is requesting that the restriction limiting Cycle 1 operation only until September 1, 1976 be revised to allow operation to September 18, 1976.

Evaluation

In our Safety Evaluation supporting the exemption to 10 CFR 50, Appendix H and corresponding Technical Specification changes issued on April 16, 1976, we concluded that there was reasonable assurance that the surveillance capsule holder tubes could remain in the Unit No. 3 core for the remainder of Cycle 1 operation without experiencing significant additional damage. However, to minimize the possibility of further damage occurring to the holder tubes, additional LCO's for the operation of Ocone Unit No. 3 for Cycle 1 were issued. Those additional LCO's are as follows:

- 1) The Loose Parts Monitoring (LPM) must be in operation when any reactor coolant pumps are operating and shall have as a minimum two channels on the reactor vessel head service structure and one channel on the incore guide tubes.
- 2) Any abnormal indication on the LPM system must be promptly investigated and evaluated.

- 3) A reactor coolant system gross gamma analysis must be performed daily and if it exceeds 1.0 microcurie per millimeter whenever reactor coolant pumps are operating, a gross alpha analysis must be initiated within four hours and continued daily until the gross gamma activity is less than 1.0 microcuries per millimeter. Alpha concentration shall not exceed 5×10^{-5} microcuries per millimeter.
- 4) With the exception of startup and shutdown, operation is restricted to four primary coolant pumps.
- 5) Operation of Oconee 3 Cycle 1 shall be permitted only until September 1, 1976.
- 6) If the conditions of Specifications 1), 3) or 4) above are not met or if any abnormal indication of a loose part in the reactor vessel occurs, a reactor shutdown shall be initiated immediately and within 36 hours the reactor shall be in a condition in which no reactor coolant pumps are operating.

The licensee's request would extend Oconee Unit No. 3 Cycle 1 operation by 17 days to September 18, 1976. This extension would offset the total of 20 days of outage time experienced since April 16, 1976 and would allow for fuller utilization of the energy capacity of the Cycle 1 Core. The additional 17 days would be somewhat greater than the 12 days in which the reactor coolant system pumps have not operated since April 16, 1976, however the difference of 5 days is not significant and the additional flow induced wear on the holder tubes would not be great. As indicated by the licensee, there has been no abnormal LPM system indication or reactor coolant system chemistry analysis which would cause concern that the holder tube material condition has deteriorated since last inspected. In addition, the other LCO's listed above would continue to apply until the end of Cycle 1 operation and would provide assurance that the operation of Oconee Unit No. 3 will be in such a manner as to minimize the stress on the holder tubes and respond to the failure of a holder tube, should it occur.

In view of the above, we conclude that the operation of Oconee Unit No. 3 to September 18, 1976 is acceptable.

We have determined that the 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, negative declaration, or 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 change does not involve a significant increase in the probability or consequences of accidents previously considered and does not involve a significant decrease in a safety margin, the change does 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: August 16, 1976

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. 30 , 30, and 27 to Facility Operating Licenses Nos. DPR-38, DPR-47, and DPR-55, respectively, issued to Duke Power Company which revised the licenses 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 restriction governing the duration of Cycle 1 for Unit No. 3 to allow operation to September 18, 1976.

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 the amendments was not required since the amendments do not involve a significant hazards consideration.

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, negative

declaration or 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 August 6, 1976, (2) Amendments Nos. 30, 30, and 27 to License 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, 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 16th day of August 1976.

FOR THE NUCLEAR REGULATORY COMMISSION



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