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Docket Nos. 50-269 270 R 287 RTedesco GLainas TNovak

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JRoe Mr. William O. Parker, Jr. Vice President, Steam Production

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Duke Power Company 422 South Church Street

Charlotte, North Carolina 28242

RDiggs

CMiles

**HOrnstein** EBlackwood

Dear Mr. Parker:

The Commission has issued the enclosed Amendments Nos. 87 , 87 , and 84for 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 submittal dated July 22, 1980.

These amendments revise the Technical Specifications for Oconee Units 2 and 3 by modifying the reactor vessel pressure-temperature operating limit curves to enable the extension of reactor vessel operation from 4 to 5 effective full bower years.

Copies of the Safety Evaluation and the Notice of Issuance are also enclosed.

Sincerely.

'Original signed by Robert W. Reid

Robert W. Reid. Chief Operating Reactors Branch #4 Division of Licensing

Enclosures:

Amendment No. 87 to DPR-38 Amendment No. 87 to DPR-47

Amendment No.84 to DPR-55

Safety Evaluation 4.

Notice of Issuance

cc: w/enclosure See next page

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

October 7, 1980

DISTRIBUTION: Docket File ORB#4 Rdg RIngram

Docket No. 50-269/270 & 287

Docketing and Service Section Office of the Secretary of the Commission

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

to the	ned originals of the <u>Federal Register Notice identified below are enclosed for your transmittal</u> ffice of the Federal Register for publication. Additional conformed copies ( 12 ) of the Notice losed for your use.		
□ No	☐ Notice of Receipt of Application for Construction Permit(s) and Operating License(s).		
□ No Su	☐ Notice of Receipt of Partial Application for Construction Permit(s) and Facility License(s): Time for Submission of Views on Antitrust Matters.		
□ No	e of Availability of Applicant's Environmental Report.		
□ No	ce of Proposed Issuance of Amendment to Facility Operating License.		
En	ce of Receipt of Application for Facility License(s); Notice of Availability of Applicant's ronmental Report; and Notice of Consideration of Issuance of Facility License(s) and Notice pportunity for Hearing.		
□ No	ce of Availability of NRC Draft/Final Environmental Statement.		
□ No	ce of Limited Work Authorization.		
□ No	ce of Availability of Safety Evaluation Report.		
	ce of Issuance of Construction Permit(s).		
XX No	ce of Issuance of Facility Operating License(s) or Amendment(s).		
XX Of	Referenced documents have been provided PDR		
	Division of Licensing, 0RB# Office of Nuclear Reactor Regulation		
Encl As S	ure:		
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	10/7/80		



## UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 2055b

October 7, 1980

Docket Nos. 50-269, 270 & 287

Mr. William O. Parker, Jr. Vice President, Steam Production Duke Power Company 422 South Church Street Charlotte, North Carolina 28242

Dear Mr. Parker:

The Commission has issued the enclosed Amendments Nos. 87, 87, and 84 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 submittal dated July 22, 1980.

These amendments revise the Technical Specifications for Oconee Units 2 and 3 by modifying the reactor vessel pressure-temperature operating limit curves to enable the extension of reactor vessel operation from 4 to 5 effective full power years.

Copies of the Safety Evaluation and the Notice of Issuance are also enclosed.

Sincerely,

Robert W. Reid, Chief

Operating Reactors Branch #4

Division of Licensing

#### Enclosures:

1. Amendment No. 87 to DPR-38

2. Amendment No. 87 to DPR-47

3. Amendment No. 84 to DPR-55

4. Safety Evaluation

5. Notice of Issuance

cc: w/enclosure
See next page

Duke Power Company

cc w/enclosure(s):

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

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

Honorable James M. Phinney County Supervisor of Oconee County Walhalla, South Carolina 29621

Director, Technical Assessment
Division
Office of Radiation Programs
(AW-459)
U. S. Environmental Protection Agency
Crystal Mall #2
Arlington, Virginia 20460

U. S. Environmental Protection Agency Region IV Office ATTN: EIS COORDINATOR 345 Courtland Street, N.E. Atlanta, Georgia 30308

Mr. Francis Jape U.S. Nuclear Regulatory Commission P. O. Box 7 Seneca, South Carolina 29678

Mr. Robert B. Borsum
Babcock & Wilcox
Nuclear Power Generation Division
Suite 420, 7735 Old Georgetown Road
Bethesda, Maryland 20014

Manager, LIS NUS Corporation 2536 Countryside Boulevard Clearwater, Florida 33515

J. Michael McGarry, III, Esq. DeBevoise & Liberman 1200 17th Street, N.W. Washington, D. C. 20036

cc w/enclosure(s) & incoming dtd.: 7/22/80 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. 87 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 July 22, 1980, 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 and paragraph 3.B of Facility Operating License No. DPR-38 is hereby amended to read as follows:

## Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 87 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 issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Robert W. Reid, Chief

Operating Reactors Branch #4

Division of Licensing

Attachment: Changes to the Technical Specifications

Date of Issuance: October 7, 1980



## 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. 87 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 July 22, 1980, 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.
- 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
  Facility Operating License No. DPR-47 is hereby amended to read as follows:

## Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 87 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 issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Robert W. Reid, Chief

Operating Reactors Branch #4

Division of Licensing

Attachment: Changes to the Technical Specifications

Date of Issuance: October 7, 1980



## 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. 84 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 July 22, 1980, 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 and paragraph 3.B of Facility Operating License No. DPR-55 is hereby amended to read as follows:

## Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 84 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 issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Robert W. Reid, Chief Operating Reactors Branch #4

Division of Licensing

Attachment: Changes to the Technical Specifications

Date of Issuance: October 7, 1980

## ATTACHMENT TO LICENSE AMENDMENTS

AMENDMENT NO. 87 TO DPR-38
AMENDMENT NO. 87 TO DPR-47
AMENDMENT NO. 84 TO DPR-55

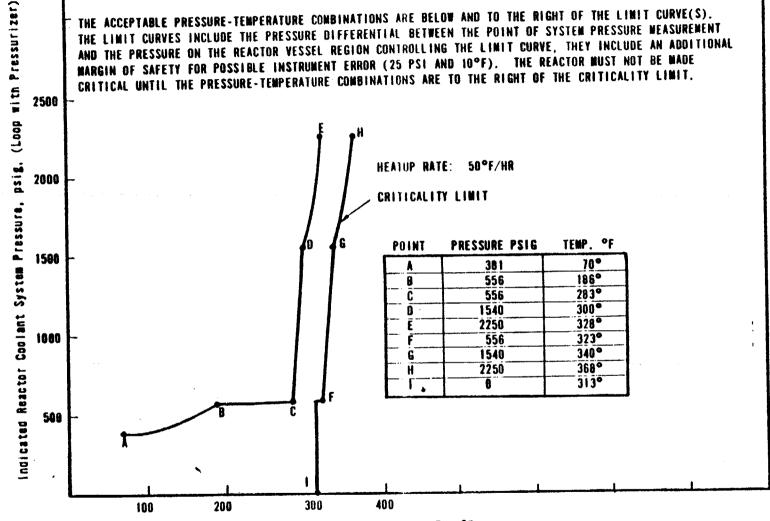
DOCKETS NOS. 50-269, 50-270 AND 50-287

## Revise Appendix A as follows:

Remove Pages	<u>Insert Pages</u>
3.1-6a	3.1-6a
3.1-6b 3.1-7a	3.1-6b 3.1-7a
3.1-7b	3.1-7b
3.1-7d	3.1-7d 3.1-7e
3.1-7e	J.1-/e

2500

THE ACCEPTABLE PRESSURE-TEMPERATURE COMBINATIONS ARE BELOW AND TO THE RIGHT OF THE LIMIT CURVE(S). THE LIMIT CURVES INCLUDE THE PRESSURE DIFFERENTIAL BETWEEN THE POINT OF SYSTEM PRESSURE MEASUREMENT AND THE PRESSURE ON THE REACTOR VESSEL REGION CONTROLLING THE LIMIT CURVE, THEY INCLUDE AN ADDITIONAL MARGIN OF SAFETY FOR POSSIBLE INSTRUMENT ERROR (25 PSI AND 10°F). THE REACTOR MUST NOT BE MADE CRITICAL UNTIL THE PRESSURE-TEMPERATURE COMBINATIONS ARE TO THE RIGHT OF THE CRITICALITY LIMIT.



Indicated Reactor Coolant System Temperature, Tc, of



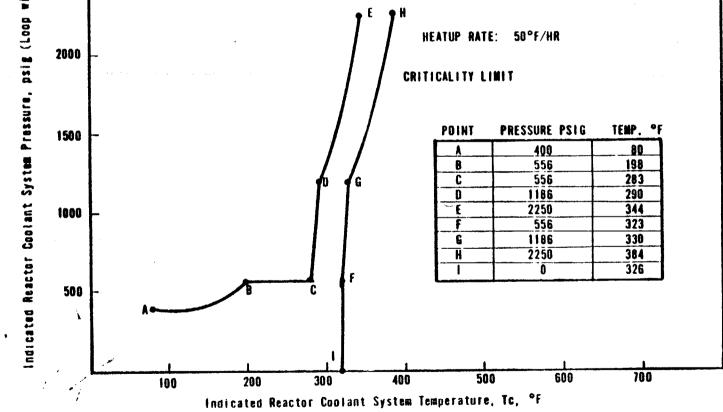
UNIT 2 REACTOR COOLANT SYSTEM NORMAL OPERATION HEATUP LIMITATIONS APPLICABLE FOR FIRST 5.0 EFPY OCONEE NUCLEAR STATION

Figure 3.1.2-18

Pressurizer)

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THE ACCEPTABLE PRESSURE TEMPERATURE COMBINATIONS ARE BELOW AND TO THE RIGHT OF THE LIMIT CURVE(S). THE LIMIT CURVES INCLUDE THE PRESSURE DIFFERENTIAL BETWEEN THE POINT OF SYSTEM PRESSURE MEASUREMENT AND THE PRESSURE ON THE REACTOR VESSEL REGION CONTROLLING THE LIMIT CURVE. THEY INCLUDE AN ADDITIONAL MARGIN OF SAFETY FOR POSSIBLE INSTRUMENT ERROR (25 PSI AND 10°F). THE REACTOR MUST NOT BE MADE CRITICAL UNTIL THE PRESSURE-TEMPERATURE COMBINATIONS ARE TO THE RIGHT OF THE CRITICALITY LIMIT.





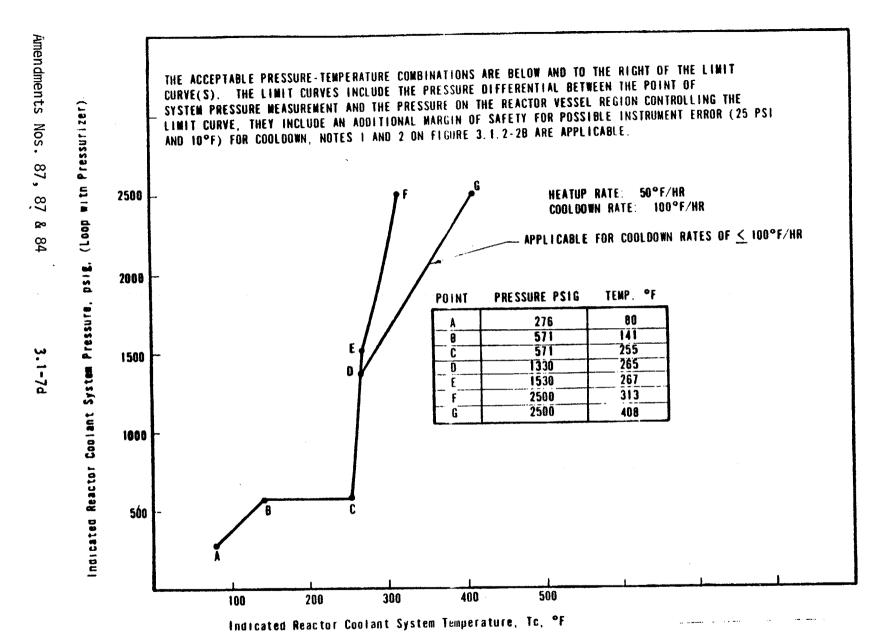
UNIT 3
REACTOR COOLANT SYSTEM
NORMAL OPERATION HEATUP LIMITATIONS
APPLICABLE FOR FIRST 5.0 EFPY
OCONEE NUCLEAR STATION



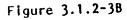
UNIT 2
REACTOR COOLANT SYSTEM
NORMAL OPERATION COOLDOWN LIMITATIONS
APPLICABLE FOR FIRST 5.0 EFPY
OCONEE NUCLEAR STATION



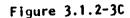
UNIT 3
REACTOR COOLANT SYSTEM
NORMAL OPERATION COOLDOWN LIMITATIONS
APPLICABLE FOR FIRST 5.0 EFPY
OCONEE NUCLEAR STATION



UNIT 2
REACTOR COOLANT SYSTEM
INSERVICE LEAK AND HYDROSTATIC TEST
HEATUP AND COOLDOWN LIMITATIONS
APPLICABLE FOR 5.0 EFPY
OCONEE NUCLEAR STATION



UNIT 3
REACTOR COOLANT SYSTEM
INSERVICE LEAK AND HYDROSTATIC TEST
HEATUP AND COOLDOWN LIMITATIONS
APPLICABLE FOR FIRST 5.0 EFPY
OCONEE NUCLEAR STATION





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

## SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 87 TO FACILITY OPERATING LICENSE NO. DPR-38

AMENDMENT NO. 87 TO FACILITY OPERATING LICENSE NO. DPR-47

AMENDMENT NO. 84 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 July 22, 1980, the Duke Power Company (the licensee) submitted proposed changes to the Station's common Technical Specifications (TSs) modifying the reactor vessel pressure-temperature operating limit curves for Oconee Units Nos. 2 and 3.

### Background

The pressure-temperature operating limit curves for Units 2 and 3 were developed for the first 4 effective full power years (EFPY) from the first reactor vessel material surveillance capsules removed from the reactor vessels after about one year of operation. For Oconee Unit 2 the 4 EFPY curves will become invalid in early to mid-October 1980, necessitating the need for this amendment.

The licensee proposed extending the current operating limits to accommodate the predicted future effect one EFPY of operation would have on the fracture toughness of the reactor vessel. The licensee conservatively used the methodolgy of Regulatory Guide 1.99, Revision 1, to perform his evaluation.

### **Evaluation**

The licensee has proposed that the current pressure-temperature limits for Units 1 and 2 be revised by increasing the allowable temperatures by 15° F to account for an increase in fluence corresponding to one EFPY. This would make the revised curves applicable for 5 EFPY instead of 4 EFPY.

We have evaluated the information submitted by the licensee and have concluded that his proposed revision will account for the increase in fluence that will result from an additional one EFPY of exposure, and that the revised curves will be in conformance with Appendix G, 10 CFR Part 50. Conformance with 10 CFR Part 50, Appendix G, constitutes an acceptable basis for satisfying the requirements of

NRC General Design Criterion 31, Appendix A, 10 CFR Part 50, and thus the revised operating limits are acceptable.

#### **Environmental Consideration**

We have determined that the amendments do 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 amendments involve an action which is insignificant from the standpoint of environmental impact and, pursuant to 10~CFR §51.5(d)(4), that an environmental impact statement, or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of these amendments.

#### 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.

Dated: October 7, 1980

## 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. 87, 87 and 84 to Facility Operating Licenses Nos. DPR-38, DPR-47 and DPR-55, respectively, issued to Duke Power Company, which revised the 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.

These amendments revise the Station's Common Technical Specifications as applicable only to Oconee Units 2 and 3 by modifying the reactor vessel pressure-temperature operating limit curves to enable the extension of reactor vessel operation from 4 to 5 effective full power years.

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 determined that the issuance of these amendments will not result in any significant environmental impact and that pursuant to  $10 \, \text{CFR}$  Section 51.5(d)(4) an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of these amendments.

For further details with respect to this action, see (1) the application for amendments dated July 22, 1980, (2) Amendments Nos. 87, 87, and 84 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. 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 Licensing.

Dated at Bethesda, Maryland, this 7th day of October 1980.

FOR THE NUCLEAR REGULATORY COMMISSION

Robert W. Reid, Chief

Operating Reactors Branch #4

Division of Licensing