

September 9, 1977

DISTRIBUTION  
 Dockets  
 NRC PDR  
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 ORB#1 Reading  
 ASchwencer  
 KRGoller  
 SMSheppard  
 DNeighbors  
 oeld  
 OI&E(3) 5  
 ACRS(16)  
 BScharf(15)  
 BJones(12)  
 TBAbernathy  
 JRBuchanan  
 DEisenhut  
 JMcGough

Docket Nos. **50-269**  
**50-270**  
 and **50-287**

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 Nos. 46, 46 and <sup>43</sup> for License Nos. DPR-38, DPR-47 and DPR-55, for the Oconee Nuclear Station, Unit Nos. 1, 2 and 3. These amendments consist of changes to the station's common Technical Specifications in response to your request dated July 5, 1977.

These amendments provide for the operation of Oconee Unit 3 Cycle 2 with the cycle length extended from 265 effective full power days (EFPD) to 282 EFPDs.

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

Sincerely,

/s/

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

Enclosures:

1. Amendment No. 46 to DPR-38
2. Amendment No. 46 to DPR-47
3. Amendment No. 43 to DPR-55
4. Safety Evaluation
5. Notice

BHarless  
 JSaltzman  
 CMiles, OPA  
 VStello

cc w/encl:  
 See next page

*Construction*  
*B*

<i>Do/b</i> OFFICE	DOR:ORB#1	<i>EDLD</i>	DOR:ORB#1			
SURNAME	<i>Neighbors:1b</i>	<i>RKJ</i>	ASchwencer			
DATE	9/01/77	9/8/77	9/9/77			



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

September 9, 1977

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

Duke Power Company  
ATTN: Mr. William O. Parker, Jr.  
Vice President - Steam Production  
Post Office Box 2178  
422 South Church Street  
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These amendments provide for the operation of Oconee Unit 3 Cycle 2 with the cycle length extended from 265 effective full power days (EFPD) to 282 EFPDs.

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

Sincerely,

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

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

Enclosures:

1. Amendment No. 46 to DPR-38
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4. Safety Evaluation
5. Notice

cc w/encl:  
See next page

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

J. Micheal McGarry, III, Esquire  
DeBevoise & Liberman  
700 Shoreham Building  
806-15th Street, NW.,  
Washington, D.C. 20005

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

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

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

Chief, Energy Systems  
Analyses Branch (AW-459)  
Office of Radiation Programs  
U. S. Environmental Protection Agency  
Room 645, East Tower  
401 M Street, S. W.  
Washington, D. C. 20460

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



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. 46  
License No. DPR-38

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendments by Duke Power Company (the licensee) dated July 5, 1977, 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 a change to the Technical Specifications as indicated in the attachment to this license amendment and paragraph 3.B of Facility License No. DPR-38 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. 46 , are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications."

3. This license amendment is effective within 10 days after the date of 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: September 9, 1977



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. 46  
License No. DPR-47

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendments by Duke Power Company (the licensee) dated July 5, 1977, 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 a change to the Technical Specifications as indicated in the attachment to this license amendment and paragraph 3.B of Facility 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. 46 , are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications."

3. This license amendment is effective within 10 days after the date of 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: September 9, 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. 43  
License No. DPR-55

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendments by Duke Power Company (the licensee) dated July 5, 1977, 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 a change to the Technical Specifications as indicated in the attachment to this license amendment and paragraph 3.B of Facility 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.43 , are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications."

3. This license amendment is effective within 10 days after the date of 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: September 9, 1977

ATTACHMENT TO LICENSE AMENDMENTS

AMENDMENT NO. 46 TO DPR-38

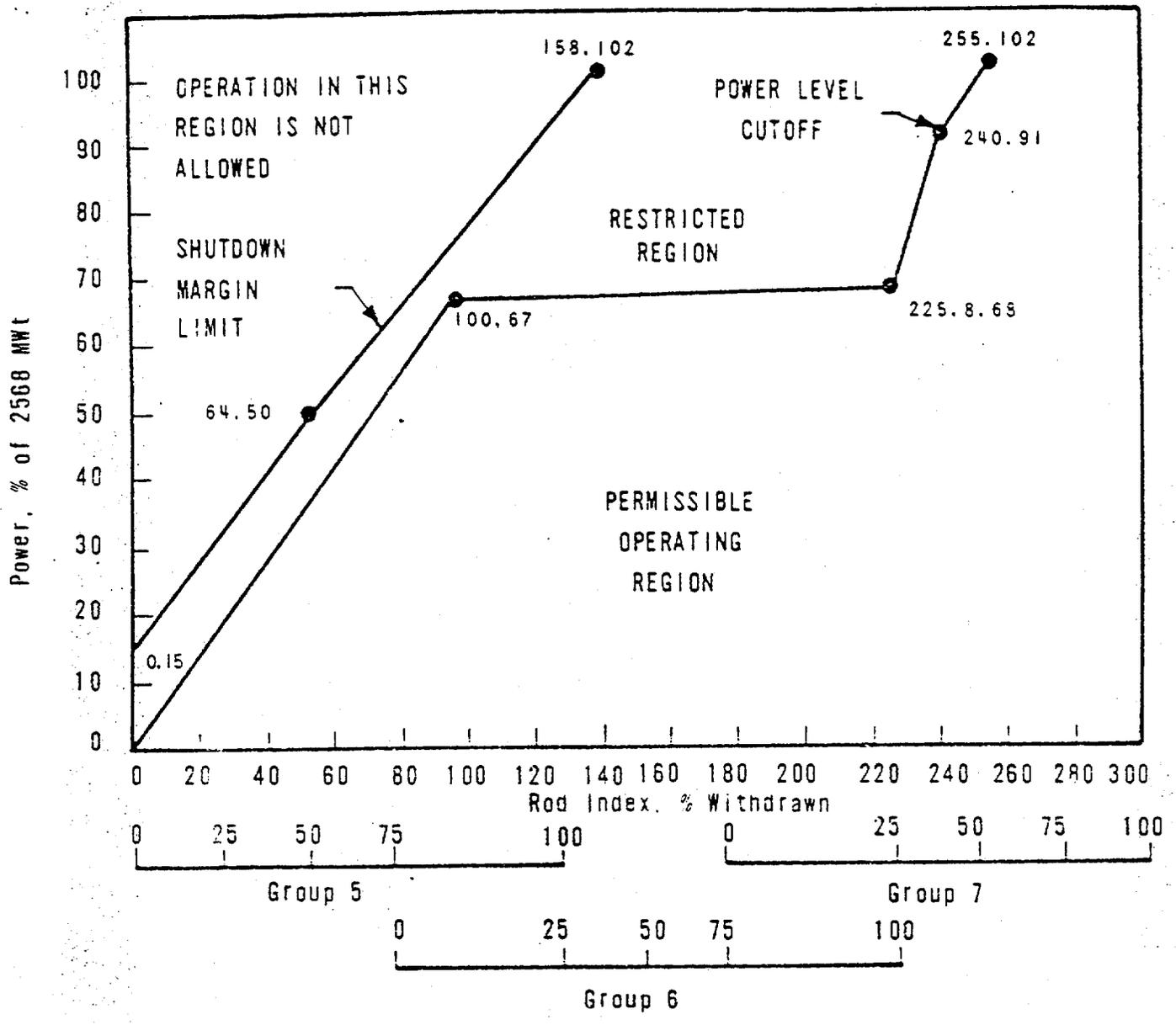
AMENDMENT NO. 46 TO DPR-47

AMENDMENT NO. 43 TO DPR-55

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

Revise Appendix A as follows:

Remove pages 3.5-17, 3.5-20b and 3.5-23b and replace with identically numbered pages.



ROD POSITION LIMITS FOR FOUR-PUMP OPERATION AFTER 225(+10) EFPD Unit 3

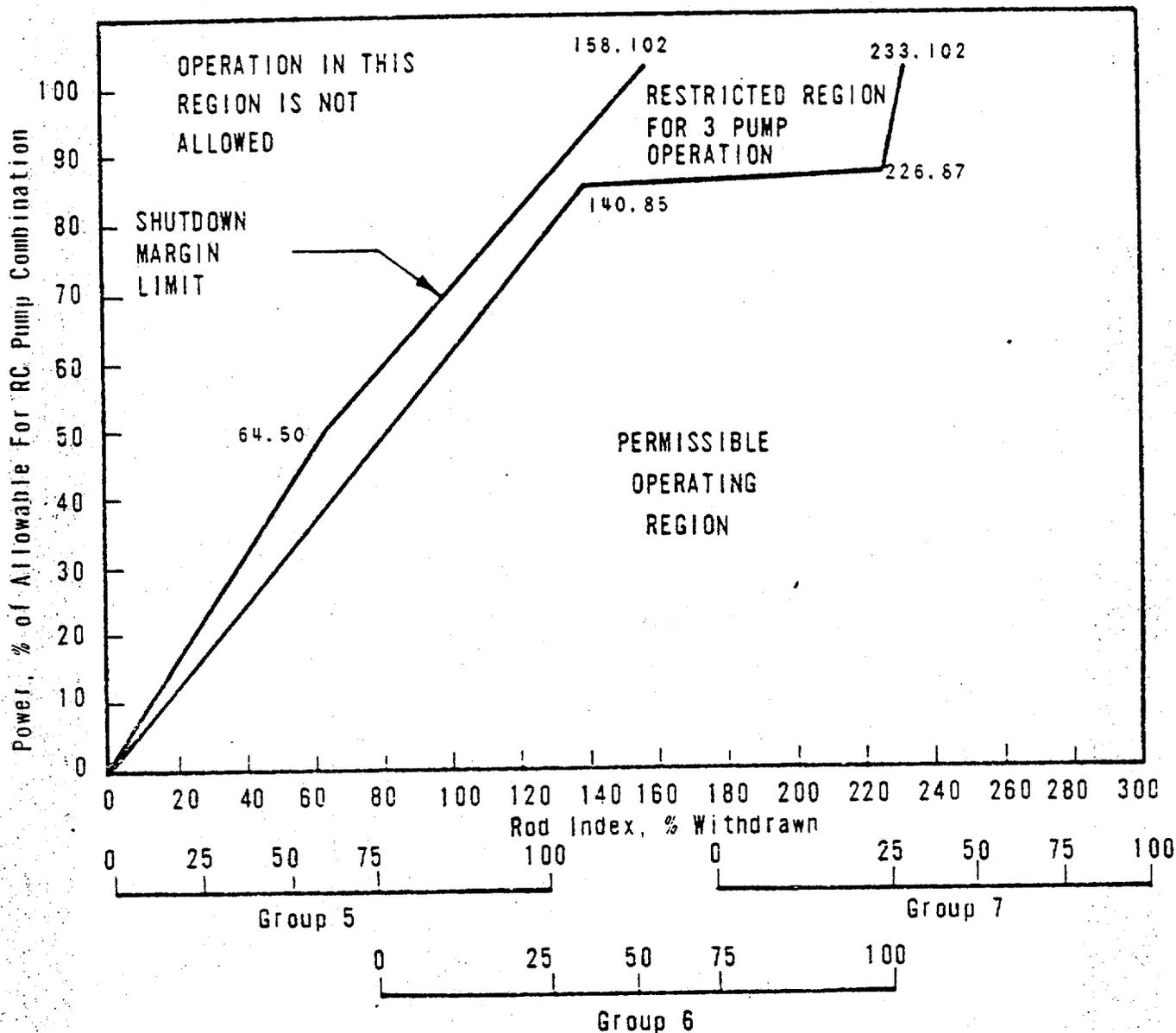


OCONEE NUCLEAR STATION

Figure 3.5.2-1C3

3.5-17

Amendments 46, 46 & 43



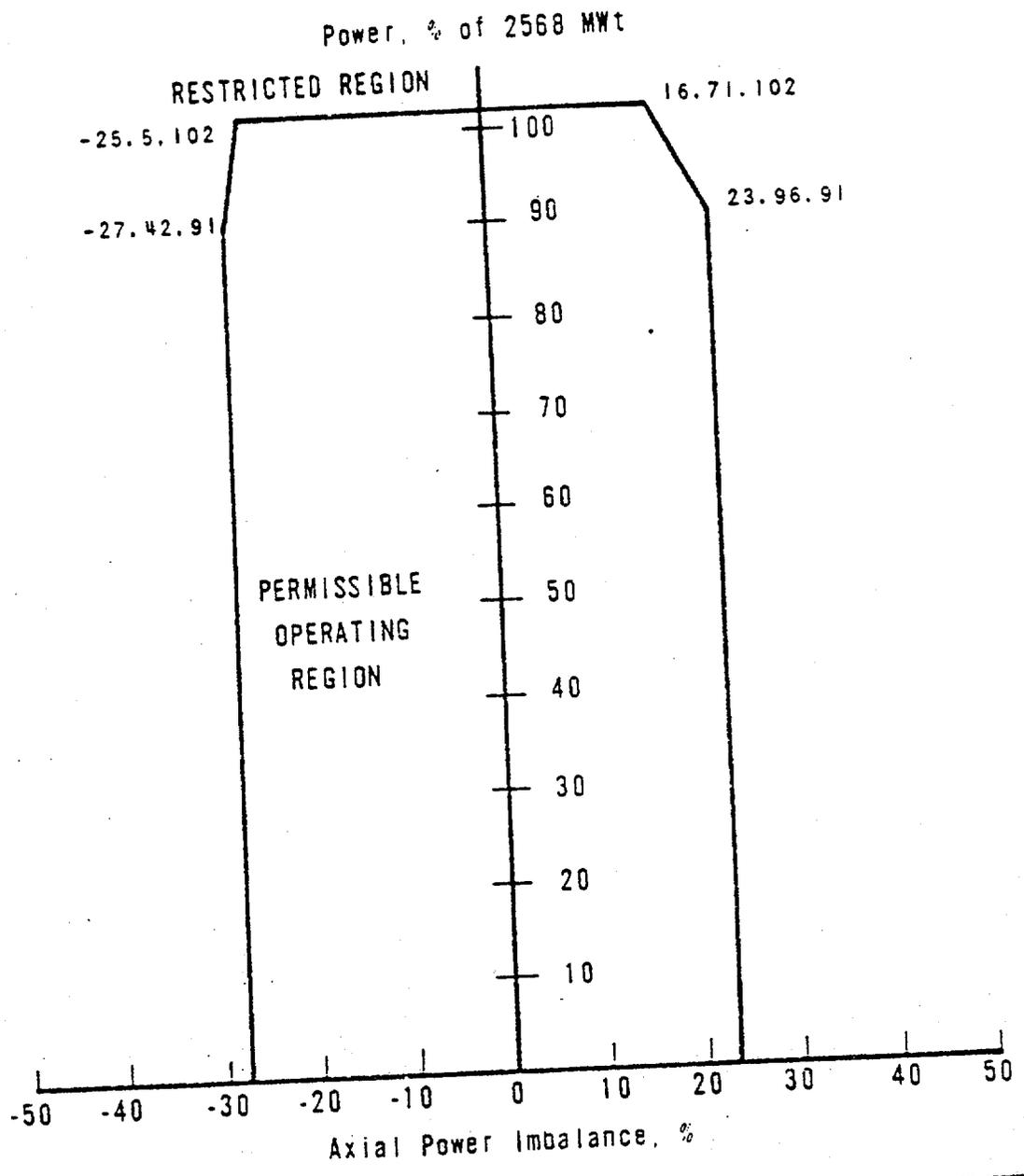
ROD POSITION LIMITS FOR TWO- AND THREE-PUMP OPERATION AFTER 226(+10) EFPD Unit 3



OCONEE NUCLEAR STATION

Figure 3.5.2-203

3.5-20b Amendments 46, 46 & 43



OPERATIONAL POWER IMBALANCE  
 ENVELOPE FOR OPERATION AFTER  
 226(+10) EFPD Unit 3



OCONEE NUCLEAR STATION  
 Figure 3.5.2-3C3



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NOS. 46, 46 AND 43

TO FACILITY LICENSE NOS. DPR-38, DPR-47 AND DPR-55

DUKE POWER COMPANY

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

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

Introduction

By letter dated July 5, 1977, Duke Power Company (licensee) requested changes to the common Technical Specifications incorporated in the operating licenses of Units 1, 2 and 3 of the Oconee Nuclear Station. The changes would permit the extended operation of Oconee Unit 3 Cycle 2 from 265 effective full power days (EFPD) to 282 EFPDs.

Discussion

The Oconee Unit 3, Cycle 2 reload was approved on October 22, 1976, for a cycle length of 265 EFPDs. To provide flexibility in the scheduling of refueling operations at Oconee Nuclear Station, the licensee has proposed to extend Cycle 2 by 17 EFPDs to 282 EFPDs.

Evaluation

The Oconee Unit 3 Cycle 2 was approved by NRC on the basis of a review of an analysis performed by the licensee which justified Cycle 2 operation at the rated core power of 2568 Mwt.

Based on the Cycle 2 reload analysis, Technical Specifications were proposed which provided operational control rod position limits and power imbalance limits for a cycle of 265 EFPDs. These limits assured that operation of Cycle 2, would not result in any Technical Specifications Safety Limits or Limiting Conditions for Operation being exceeded.

The licensee assessed the applicability of the existing Technical Specification limits for the extended Cycle 2 in a manner similar to that performed for the Cycle 2 reload. As a result of this assessment, it was determined that the operational control rod position limits (Technical Specification Figures 3.5.2-1C3 and 3.5.2-2C3) and the power imbalance limits (Technical

Specification Figure 3.5.2-3C3) would require slight modifications to account for limiting conditions which would exist in the extended part of the cycle.

We have reviewed the licensee's submittal and have concluded that with the slight modifications proposed by the licensee the Technical Specifications for Oconee Unit 3 will remain valid for the 17 EFPD extension of Cycle 2 to 282 EFPDs.

#### 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 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 of 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:           September 9, 1977

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET 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 Amendment Nos. 46, 46 and 43 to Facility Operating License 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, Unit Nos. 1, 2 and 3, located in Oconee County, South Carolina. The amendments are effective within 10 days after the date of issuance.

These amendments provide for the operation of Oconee Unit 3 Cycle 2 with the cycle length extended from 265 effective full power days (EFPD) to 282 EFPDs.

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 CFR §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 5, 1977, (2) Amendment Nos. 46, 46 and 43 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 9th day of September 1977.

FOR THE NUCLEAR REGULATORY COMMISSION



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



- PROPOSED NEPA ACTION: ( ) EIS Required  
( ) Negative Declaration (ND) and Environmental Impact Appraisal (EIA) Required  
(XX) No EIS, ND or EIA Required  
( ) Determination delayed pending completion of EIA

BASIS FOR DECISION: No change in effluent types or amounts and nor change in power level.

CONCURRENCES:	DATE:
1. <u><i>D. Neighbors</i></u>	<u>7/26/77</u>
2. <u><i>A. Schwencer</i></u>	<u>7/26/77</u>
3. <u><i>K. R. Appler</i></u>	<u>7/29/77</u>
4. <u><i>OELD</i></u>	<u>8/8/77</u>