



LICENSE AUTHORITY FILE COPY

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

October 26, 1982

DO NOT REMOVE

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

Mr. H. B. Tucker  
Vice President - Nuclear Production  
Duke Power Company  
P. O. Box 33189  
422 South Church Street  
Charlotte, North Carolina 28242

*Posted  
Amdt 114  
to DPR-47*

Dear Mr. Tucker:

The Commission has issued the enclosed Amendment Nos. 114, 114, and 111 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 (TSs) in response to your request dated October 14, 1982, as telecopied to us. These amendments were authorized by telephone on October 14, 1982, and were confirmed by letter dated October 15, 1982.

These amendments revise the TSs to allow the pressurizer code safety valves on Oconee Unit 1 to be degraded from October 14, 1982, through October 29, 1982. These amendments were issued on an expedited basis to permit Unit 1 to continue operation based on our Safety Evaluation.

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

Sincerely,

*Philip C. Wagner*

Philip C. Wagner, Project Manager  
Operating Reactors Branch #4  
Division of Licensing

Enclosures:

1. Amendment No. 114 to DPR-38
2. Amendment No. 114 to DPR-47
3. Amendment No. 111 to DPR-55
4. Safety Evaluation
5. Notice

cc w/enclosures:  
See next page

Duke Power Company

cc w/enclosure(s):

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Duke Power Company  
P. O. Box 33189  
422 South Church Street  
Charlotte, North Carolina 28242

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

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U. S. Nuclear Regulatory Commission, Region II  
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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. 114  
License No. DPR-38

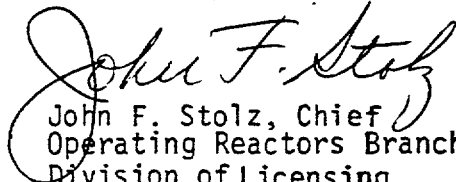
1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Duke Power Company (the licensee) dated October 14, 1982, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations 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:

3.B Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 114 are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment was effective October 14, 1982.

FOR THE NUCLEAR REGULATORY COMMISSION

  
John F. Stolz, Chief  
Operating Reactors Branch #4  
Division of Licensing

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: October 26, 1982



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.114  
License No. DPR-47

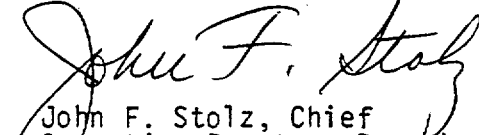
1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Duke Power Company (the licensee) dated October 14, 1982, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations 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-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.114 are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment was effective October 14, 1982.

FOR THE NUCLEAR REGULATORY COMMISSION

  
John F. Stolz, Chief  
Operating Reactors Branch #4  
Division of Licensing

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: October 26, 1982



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. 111  
License No. DPR-55

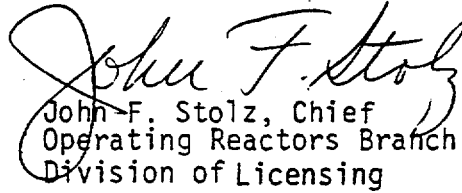
1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Duke Power Company (the licensee) dated October 14, 1982, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations 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:

3.B Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 111 are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.

3. This license amendment was effective October 14, 1982.

FOR THE NUCLEAR REGULATORY COMMISSION

  
John F. Stolz, Chief  
Operating Reactors Branch #4  
Division of Licensing

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: October 26, 1982



ATTACHMENTS TO LICENSE AMENDMENTS

AMENDMENT NO. 114 TO DPR-38

AMENDMENT NO. 114 TO DPR-47

AMENDMENT NO. 111 TO DPR-55

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

Replace page 3.1-1 of the Appendix "A" Technical Specifications with the attached page. The revised page is identified by amendment numbers and contains vertical lines indicating the area of change.

### 3.1 REACTOR COOLANT SYSTEM

#### Applicability

Applies to the operating status of the reactor coolant system.

#### Objective

To specify those limiting conditions for operation of the reactor coolant system components which must be met to ensure safe reactor operation.

#### Specification

##### 3.1.1 Operational Components

###### a. Reactor Coolant Pumps

1. Whenever the reactor is critical, single pump operation shall be prohibited, single-loop operation shall be restricted to testing, and other pump combinations permissible for given power levels shall be as shown in Table 2.3-1.
2. Except for test purposes and limited by Specification 2.3, power operation with one idle reactor coolant pump in each loop shall be restricted to 24 hours. If the reactor is not returned to an acceptable RC pump operating combination at the end of the 24-hour period, the reactor shall be in a hot shutdown condition within the next 12 hours.
3. The boron concentration in the reactor coolant system shall not be reduced unless at least one reactor coolant pump or one low pressure injection pump is circulating reactor coolant.

###### b. Steam Generator

1. One steam generator shall be operable whenever the reactor coolant average temperature is above 250°F.

###### c. Pressurizer Safety Valves

- \*1. All pressurizer code safety valves shall be operable whenever the reactor is critical.
2. At least one pressurizer code safety valve shall be operable whenever all reactor coolant system openings are closed, except for hydrostatic tests in accordance with the ASME Section III Boiler and Pressure Vessel Code.

\*The requirements of Specification 3.1.1.c.1 are waived for Unit 1 until 11:59pm, October 29, 1982.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 114 TO FACILITY OPERATING LICENSE NO. DPR-38

AMENDMENT NO. 114 TO FACILITY OPERATING LICENSE NO. DPR-47

AMENDMENT NO. 111 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

Duke Power Company (Duke or the licensee) informed the NRC staff of problems with the pressurizer code safety valves at the Oconee Nuclear Station on October 14, 1982. Following a number of telephone conversations on this subject, Duke submitted an amendment application via telecopy, which requests that the requirements for these valves be waived for Unit 1 until October 30, 1982 to allow time for the other Units (Units 2 and 3 were both shutdown) to return to operation and to obtain replacement valves. The problem with the valves occurs due to the positioning of the three, movable ring assemblies which control the lift setpoint and the blowdown capacity of the valve.

Following staff discussion and evaluation of the information provided by Duke in their October 14, 1982 application, it was decided that interim operation of Oconee Unit 1 was acceptable until 11:59pm on October 29, 1982. Our evaluation is presented below.

Duke was informed of our decision and given permission to continue operation of Oconee Unit 1 until 11:59pm, October 29 on October 14, 1982; this permission was confirmed by letter dated October 15, 1982.

Evaluation

The licensee has proposed to operate Unit 1 for the period October 14, 1982 to October 29, 1982 with the Reactor Coolant System (RCS) safety valves declared inoperable on the basis of the low probability of needing the safety valves and on an analysis of the limiting anticipated transients and accidents which demonstrates that the RCS pressure limit of 2750 psig would not be exceeded for these events.

The low probability of challenging the safety valves is based on a review of operating experience for Babcock & Wilcox (B&W) and Westinghouse PWR's. The estimated mean annual frequency for safety valve challenges is quoted as  $4.8 \times 10^{-3}$ . This value is consistent with the NRC staff's understanding of operating experience.

The limiting events relative to overpressurization were reanalyzed by the licensee using the RELAP computer code and using the core physics parameters appropriate for the present time in core cycle. These analyses are summarized in the licensee's letter of October 14, 1982 and indicate that the peak RCS pressure would be less than 2750 psig. These analyses are consistent with the Final Safety Analysis Report (FSAR) analyses which indicate that little safety valve discharge would be required to protect against a design basis accident.

Therefore, we find that even in the unlikely event that the RCS safety valves are called upon within the October 14, 1982 to October 29, 1982 period, the RCS pressure limit would not be exceeded as a result of degraded valve performance. As a result of our review, we find that operation in the proposed mode is 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 an accident previously evaluated, do not create the possibility of an accident of a type different from any evaluated previously, and do not involve a significant reduction in a margin of safety, 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 26, 1982

The following NRC personnel have contributed to this Safety Evaluation:  
Philip Wagner, Gary Holahan.

UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKETS NOS. 50-269, 50-270 AND 50-287DUKE POWER COMPANYNOTICE OF ISSUANCE OF AMENDMENTS TO FACILITY  
OPERATING LICENSES

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendments Nos. 114, 114 and 111 to Facility Operating Licenses Nos. DPR-38, DPR-47 and DPR-55, respectively, issued to Duke Power Company, which revised the Technical Specifications (TSs) for operation of the Oconee Nuclear Station, Units Nos. 1, 2 and 3, located in Oconee County, South Carolina.

These amendments were authorized by telephone on October 14, 1982, and were confirmed by letter dated October 15, 1982; they were issued on an expedited basis to permit Unit 1 to continue operation based on the Commission's Safety Evaluation. These amendments change the TSs to allow the pressurizer code safety valves on Oconee Unit 1 to be degraded from October 14 through 29, 1982.

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


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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 October 14, 1982, (2) the Commission's letter to the licensee dated October 15, 1982, (3) Amendments Nos. 114, 114, and 111 to Licenses Nos. DPR-38, DPR-47 and DPR-55, respectively, and (4) 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, 501 West Southbroad Street, Walhalla, South Carolina. A copy of items (2), (3) and (4) 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 26th day of October 1982.

FOR THE NUCLEAR REGULATORY COMMISSION

  
John F. Stolz, Chief  
Operating Reactors Branch #4  
Division of Licensing