

Docket Nos.: 50-327  
and 50-328

December 2, 1986

Mr. S. A. White  
Manager of Nuclear Power  
Tennessee Valley Authority  
6N 38A Lookout Place  
1101 Market Street  
Chattanooga, Tennessee 37402-2801

Dear Mr. White:

Subject: Issuance of Amendment No. 51 to Facility Operating License  
No. DPR-77 and Amendment No. 43 to Facility Operating  
License No. DPR-79 - Sequoyah Nuclear Plant, Units 1 and 2

The Nuclear Regulatory Commission has issued the enclosed Amendment No. 51 to Facility Operating License No. DPR-77 and Amendment No. 43 to Facility Operating License No. DPR-79. These amendments are in response to your request dated April 7, 1986. Other changes requested in that letter will be addressed in a future amendment.

The amendments change the Technical Specifications to delete the requirement for 24 hours of data acquisition after the Axial Flux Difference Monitor Alarm is restored to operable status. The amendments are effective as of their date of issuance. This letter should not be construed as an authorization to commence operations prior to the Tennessee Valley Authority appropriately addressing the concerns identified in the 50.54(f) letter dated September 17, 1985.

A copy of the related safety evaluation supporting Amendment No. 51 to Facility Operating License DPR-77 and Amendment No. 43 to Facility Operating License DPR-79 is enclosed.

Notice of issuance will be included in the Commission's next bi-weekly Federal Register notice.

Sincerely,

Carl R. Stahle, Project Manager  
PWR Project Directorate #4  
Division of PWR Licensing-A

Enclosures:

1. Amendment No. 51 to DPR-77
2. Amendment No. 43 to DPR-79
3. Safety Evaluation

cc w/enclosures: See next page

PWR#4/DPWR-A  
MDuncan/mac  
11/18/86

PWR#4/DPWR-A  
JHofonich  
11/16/86

PWR#4/DPWR-A  
CStahle  
11/16/86

ECR/DPWR-A  
BKSingh  
11/19/86

PWR#4/DPWR-A  
BJYoungblood  
11/18/86

Mr. S.A. White  
Tennessee Valley Authority

Sequoyah Nuclear Plant

cc:  
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Health  
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Cordell Hull Building  
Nashville, Tennessee 37219

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Atlanta, Georgia 30323

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Tennessee Valley Authority  
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Knoxville, Tennessee 37902

Mr. Michael H. Mobley, Director  
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Mr. Bob Faas  
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County Judge  
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Sequoyah Nuclear Plant  
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Soddy Daisy, Tennessee 37379

H.L. Abercrombie  
Tennessee Valley Authority  
Sequoyah Nuclear Plant  
P.O. Box 2000  
Soddy Daisy, Tennessee 37379



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

TENNESSEE VALLEY AUTHORITY

DOCKET NO. 50-327

SEQUOYAH NUCLEAR PLANT, UNIT 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 51  
License No. DPR-77

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment to the Sequoyah Nuclear Plant, Unit 1 (the facility) Facility Operating License No. DPR-77 filed by the Tennessee Valley Authority (licensee), dated April 7, 1986, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's regulations as set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the license, as amended, 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 hereby amended by page changes to the Appendix A Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-77 is hereby amended to read as follows:

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P PDR

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 51 are hereby incorporated into 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

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B. J. Youngblood, Director  
PWR Project Directorate #4  
Division of PWR Licensing-A

Attachment"  
Appendix A Technical  
Specification Changes

Date of Issuance: December 2, 1986

PWR#4/DPWR-A  
MDuncan/mac  
11/18/86

ECR/DPWR-A  
BKSingh  
11/19/86

PWR#4/DPWR-A  
JHolenich  
11/18/86

PWR#4/DPWR-A  
CStahle  
11/18/86

OGC/BETH  
Sewick  
11/25/86

PWR#4/DPWR-A  
BJYoungblood  
11/18/86

ATTACHMENT TO LICENSE AMENDMENT NO. 51

FACILITY OPERATING LICENSE NO. DPR-77

DOCKET NO. 50-327

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

Amended  
Page

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## POWER DISTRIBUTION LIMITS

### SURVEILLANCE REQUIREMENTS

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4.2.1.1 The indicated AXIAL FLUX DIFFERENCE shall be determined to be within its limits during POWER OPERATION above 50% of RATED THERMAL POWER by:

- a. Monitoring the indicated AFD for each OPERABLE excore channel at least once per 7 days when the AFD Monitor Alarm is OPERABLE.
- b. Monitoring and logging the indicated AXIAL FLUX DIFFERENCE for each OPERABLE excore channel at least once per hour for the first 24 hours and at least once per 30 minutes thereafter, when the AXIAL FLUX DIFFERENCE Monitor Alarm is inoperable. The logged values of the indicated AXIAL FLUX DIFFERENCE shall be assumed to exist during the interval preceding each logging.

4.2.1.2 The indicated AFD shall be considered outside of its limits when at least 2 OPERABLE excore channels are indicating the AFD to be outside the limits.



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

TENNESSEE VALLEY AUTHORITY

DOCKET NO. 50-328

SEQUOYAH NUCLEAR PLANT, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 43  
License No. DPR-79

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment to the Sequoyah Nuclear Plant, Unit 2 (the facility) Facility Operating License No. DPR-79 filed by the Tennessee Valley Authority (licensee), dated April 7, 1986, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act) and the Commission's regulations as set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the license, as amended, 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 hereby amended by page changes to the Appendix A Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-79 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendix A, as revised through Amendment No. 43 are hereby incorporated into 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

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B. J. Youngblood, Director  
PWR Project Directorate #4  
Division of PWR Licensing-A

Attachment  
Appendix A Technical  
Specification Changes

Date of Issuance: December 2, 1986

PWR#4/DPWR-A  
MDunbar  
11/16/86

ECR/DPWR-A  
BKSingh  
11/19/86

PWR#4/DPWR-A  
JHolenrich  
11/16/86

PWR#4/DPWR-A  
CStahle  
11/16/86

OGC/BETH  
Settle  
11/25/86

PWR#4/DPWR-A  
BJYoungblood  
11/18/86



ATTACHMENT TO LICENSE AMENDMENT NO. 43

FACILITY OPERATING LICENSE NO. DPR-79

DOCKET NO. 50-328

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

Amended  
Page

3/4 2-2

## POWER DISTRIBUTION LIMITS

### SURVEILLANCE REQUIREMENTS

---

4.2.1.1 The indicated AXIAL FLUX DIFFERENCE shall be determined to be within its limits during POWER OPERATION above 50% of RATED THERMAL POWER by:

- a. Monitoring the indicated AFD for each OPERABLE excore channel at least once per 7 days when the AFD Monitor Alarm is OPERABLE, and
- b. Monitoring and logging the indicated AXIAL FLUX DIFFERENCE for each OPERABLE excore channel at least once per hour for the first 24 hours and at least once per 30 minutes thereafter, when the AXIAL FLUX DIFFERENCE Monitor Alarm is inoperable. The logged values of the indicated AXIAL FLUX DIFFERENCE shall be assumed to exist during the interval preceding each logging.

4.2.1.2 The indicated AFD shall be considered outside of its limits when at least 2 OPERABLE excore channels are indicating the AFD to be outside the limits.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO.51 TO FACILITY OPERATING LICENSE DPR-77  
AND AMENDMENT NO.43 TO FACILITY OPERATING LICENSE DPR-79  
TENNESSEE VALLEY AUTHORITY

INTRODUCTION

By letter dated April 7, 1986, the Tennessee Valley Authority requested changes to the Technical Specifications of Sequoyah Nuclear Plant, Units 1 and 2. The requested changes would delete the requirements for 24 hours of data acquisition after restoring the Axial Flux Difference Monitor to OPERABLE status. The staff has reviewed this request and prepared the following evaluation.

EVALUATION

Specification 4.2.1.1.a.2 requires that during the first 24 hours after restoring the Axial Flux Difference (AFD) Monitor Alarm to OPERABLE status the indicated AFD be monitored once per hour. The motivation for this requirement was the desire to assure that the alarm was operating properly and to provide information to assess "penalty time" when operating with the Constant Axial Offset Control strategy. However, the Sequoyah plants now operate with the Relaxed Axial Offset Control strategy which does not require that "penalty time" be accumulated. Further, Specification 4.2.1.1.a.1 requires periodic monitoring of the alarm to assure its continued operation. Specification 4.2.1.1.b provides the surveillance requirements for periods when the alarm is not OPERABLE.

We therefore conclude that Specification 4.2.1.1.a.2 is not required and that the proposed Technical Specification change is acceptable.

ENVIRONMENTAL CONSIDERATION

These amendments involve changes in use of facility components located within the restricted area as defined in 10 CFR Part 20 and changes in surveillance requirements. The staff has 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, the 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 the amendments.

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CONCLUSION

The Commission made a proposed determination that the amendments involve no significant hazards consideration which was published in the Federal Register on August 27, 1986 (51 FR 30581) and consulted with the state of Tennessee. No public comments were received, and the state of Tennessee 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 Contributors: Carl R. Stahle, PWR#4, DPWR-A  
Joe Holonich, PWR#4, DPWR-A  
W. Brooks, PARS

Dated: December 2, 1986

December 2, 1986

AMENDMENT NO. 51 TO FACILITY OPERATING LICENSE NO. DPR-77 - Sequoyah Nuclear Plant  
Unit 1

AMENDMENT NO. 43 TO FACILITY OPERATING LICENSE NO. DPR-79 - Sequoyah Nuclear Plant  
Unit 2

DISTRIBUTION w/ enclosures:

Docket No. 50-327/328

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NSIC

PRC System

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