

March 15, 1989

Docket Nos. 50-327/328

Mr. Oliver D. Kingsley, Jr.
Senior Vice President, Nuclear Power
Tennessee Valley Authority
6N 38A Lookout Place
1101 Market Street
Chattanooga, Tennessee 37402-2801

Dear Mr. Kingsley

SUBJECT: ENVIRONMENTAL TECHNICAL SPECIFICATIONS (TAC R00040/00041)
(TS 87-05) SEQUOYAH NUCLEAR PLANT, UNITS 1 AND 2

The Commission has issued the enclosed Amendment No. 107 to Facility Operating License No. DPR-77 and Amendment No. 97 to Facility Operating License No. DPR-79 for the Sequoyah Nuclear Plant, Units 1 and 2, respectively. These amendments are in response to your application dated April 17, 1987.

These amendments modify the Sequoyah Nuclear Plant Units 1 and 2 Technical Specifications (TS) to revise parts of Section 5.0, Administrative Controls, of the Appendix B Environmental Technical Specifications. The changes (1) reflect the new title for the station superintendent and assign the responsibility for review and audit to the "licensee", instead of a specific TVA organization, (2) extend the audit time interval on the environmental monitoring program from annual to once per 18 months, (3) add additional requirements on the conduct of the audit and maintaining the results of the audit, and (4) delete the reference to a defunct section of the Code of Federal Regulations.

A copy of the Safety Evaluation is also enclosed. Notice of Issuance will be included in the Commission's Bi-Weekly Federal Register Notice.

Sincerely,

Original signed by
Suzanne Black, Assistant Director
for Projects
TVA Projects Division
Office of Nuclear Reactor Regulation

Enclosures:

- 1. Amendment No. 107 to License No. DPR-77
- 2. Amendment No. 97 to License No. DPR-79
- 3. Safety Evaluation

cc w/enclosures:
See next page

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Concurrence subject to see change in attached note.

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OFC	:NRR:TVA/LA	:NRR:TVA/PM	:NRR:TVA	:NRR:TVA	:TVA:AD/TP	:TVA:AD/P	:OGC
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DATE	:2/15/89	:2/15/89	:2/15/89	:2/15/89	:2/15/89	:1/189	:2/24/89

Mr. Oliver D. Kingsley, Jr.

-2-

Sequoyah Nuclear Plant

cc:

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Dr. Henry Myers, Science Advisor
Committee on Interior
and Insular Affairs
U.S. House of Representatives
Washington, D.C. 20515

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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. 107
License No. DPR-77

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Tennessee Valley Authority (the licensee) dated April 17, 1987, 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.

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2. Accordingly, the license is amended by changes to the Environmental 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:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No.107, 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 its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Suzanne Black

Suzanne Black, Assistant Director
for Projects
TVA Projects Division
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical
Specifications

Date of Issuance: March 15, 1989

ATTACHMENT TO LICENSE AMENDMENT NO. 107

FACILITY OPERATING LICENSE NO. DPR-77

DOCKET NO. 50-327

Revise the Appendix B Technical Specifications by removing the pages identified below and inserting the enclosed pages. The revised pages are identified by the captioned amendment number and contain marginal lines indicating the area of change.

REMOVE

5-1
5-2
5-3
5-4

INSERT

5-1
5-2
5-3
5-4

5.0 Administrative Controls

5.1 Responsibility

The Plant Manager has responsibility for operating the plant in compliance with these environmental technical specifications.

5.2 Review and Audit

5.2.1 Review

The licensee is responsible for the review of procedures for meeting these environmental technical specifications.

The above mentioned review shall be conducted on the following:

- A. Proposed changes to the Environmental Technical Specifications and evaluated impact of the change.
- B. Proposed changes to station operating procedures, which affect the environmental effects of the station.
- C. Proposed changes or modifications to station or unit equipment, or systems which might have an environmental impact, in order to determine the environmental impact of the change.
- D. All routine reports prior to their submittal to NRC (described in Subsection 5.4.1).

- E. All nonroutine reports prior to submittal of the written report (described in Subsections 5.4.2.a, b, and c).

- F. Investigations of all reported instances of noncompliance with Environmental Technical Specifications, associated corrective actions, and measures taken to prevent recurrence.

5.2.2 Audit

The licensee shall conduct an audit once per 18 months of the environmental monitoring program. The audits shall be conducted independently of the individual or groups responsible for performing the specific activity. Results of the audit activities shall be maintained and made available for inspection.

5.3 Changes in Station Design or Operation

Changes in station design or operation may be made subject to the following conditions:

- A. The licensee may (1) make changes in the station design and operation, and (2) conduct tests and experiments not described in this document without prior Commission approval, unless the proposed change, test or experiment involves a change in the objectives of the ETS and/or an unreviewed environmental question of significant impact.

- B. A proposed change, test or experiment shall be deemed to involve an unreviewed environmental question if it concerns (1) a matter which may result in a significant increase in any adverse environmental impact

previously evaluated in the final environmental impact statement as modified by testimony to the Atomic Safety and Licensing Board, supplements thereto, environmental impact appraisals, or in initial or final adjudicatory decisions; or (2) a matter not previously reviewed and evaluated in the documents specified in (1) of this section which may have a significant adverse environmental impact.

- C. The licensee shall maintain records of changes in facility design or operation made pursuant to this subsection. The licensee shall also maintain records of tests and experiments carried out pursuant to paragraph "A" of this subsection. These records shall include a written evaluation which provides the bases for the determination that the change, test, or experiment does not involve an unreviewed environmental question of substantive impact or constitute a change in the objectives of these ETS. The licensee shall furnish to the Commission, annually or at such shorter intervals as may be specified in the license, a report containing descriptions, analyses, interpretations, and evaluations of such changes, tests and experiments.

- D. Changes in the special studies, if required in Section 4.2, which affect sampling frequency, location, gear, or replication shall be reported to the NRC within 30 days after their implementation, unless otherwise reported in accordance with Subsection 5.4.2. These reports shall describe the changes made, the reasons for making the changes, and an evaluation of the effectiveness of the revised program in assessing environmental impacts.

5.4 Station Reporting Requirements

5.4.1 Routine Reports

Annual Environmental Operating Report

A report on the environmental monitoring programs for the previous year shall be submitted to the NRC separate from other NRC reporting requirements within 90 days following each anniversary of issuance of the operating license. The period of the first report shall begin with the date of issuance of the operating license. The report shall include summaries, analyses, interpretations, and statistical evaluation of the results of the environmental monitoring required by special studies and requirements (Section 4) for the report period, including a comparison with preoperational studies, operational controls (as appropriate), and previous non-radiological environmental monitoring reports, and an assessment of the observed impacts of the station operation on the environment. If harmful effects or evidence of irreversible damage are suggested by the monitoring programs, the licensee shall provide a more detailed analysis of the data and a proposed course of action to alleviate the problem.



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. 97
License No. DPR-79

1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Tennessee Valley Authority (the licensee) dated April 17, 1987, 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.

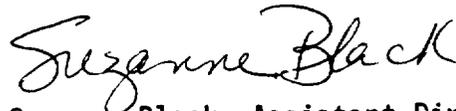
2. Accordingly, the license is amended by changes to the Environmental Technical Specifications as indicated in the attachment to this license amendment and paragraph 2.C.(2) of Facility Operating License No. DPR-79 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 97, 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 its date of issuance.

FOR THE NUCLEAR REGULATORY COMMISSION



Suzanne Black, Assistant Director
for Projects
TVA Projects Division
Office of Nuclear Reactor Regulation

Attachment:
Changes to the Technical
Specifications

Date of Issuance: March 15, 1989

ATTACHMENT TO LICENSE AMENDMENT NO. 97

FACILITY OPERATING LICENSE NO. DPR-79

DOCKET NO. 50-328

Revise the Appendix B Technical Specifications by removing the pages identified below and inserting the enclosed pages. The revised pages are identified by the captioned amendment number and contain marginal lines indicating the area of change. Overleaf pages* are provided to maintain document completeness.

REMOVE

5-1
5-2
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INSERT

5-1
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5.0 Administrative Controls

5.1 Responsibility

The Plant Manager has responsibility for operating the plant in compliance with these environmental technical specifications.

5.2 Review and Audit

5.2.1 Review

The licensee is responsible for the review of procedures for meeting these environmental technical specifications.

The above mentioned review shall be conducted on the following:

- A. Proposed changes to the Environmental Technical Specifications and evaluated impact of the change.
- B. Proposed changes to station operating procedures, which affect the environmental effects of the station.
- C. Proposed changes or modifications to station or unit equipment, or systems which might have an environmental impact, in order to determine the environmental impact of the change.
- D. All routine reports prior to their submittal to NRC (described in Subsection 5.4.1).

- E. All nonroutine reports prior to submittal of the written report (described in Subsections 5.4.2.a, b, and c).
- F. Investigations of all reported instances of noncompliance with Environmental Technical Specifications, associated corrective actions, and measures taken to prevent recurrence.

5.2.2 Audit

The licensee shall conduct an audit once per 18 months of the environmental monitoring program. The audits shall be conducted independently of the individual or groups responsible for performing the specific activity. Results of the audit activities shall be maintained and made available for inspection.

5.3 Changes in Station Design or Operation

Changes in station design or operation may be made subject to the following conditions:

- A. The licensee may (1) make changes in the station design and operation, and (2) conduct tests and experiments not described in this document without prior Commission approval, unless the proposed change, test or experiment involves a change in the objectives of the ETS and/or an unreviewed environmental question of significant impact.
- B. A proposed change, test or experiment shall be deemed to involve an unreviewed environmental question if it concerns (1) a matter which may result in a significant increase in any adverse environmental impact

previously evaluated in the final environmental impact statement as modified by testimony to the Atomic Safety and Licensing Board, supplements thereto, environmental impact appraisals, or in initial or final adjudicatory decisions; or (2) a matter not previously reviewed and evaluated in the documents specified in (1) of this section which may have a significant adverse environmental impact.

- C. The licensee shall maintain records of changes in facility design or operation made pursuant to this subsection. The licensee shall also maintain records of tests and experiments carried out pursuant to paragraph "A" of this subsection. These records shall include a written evaluation which provides the bases for the determination that the change, test, or experiment does not involve an unreviewed environmental question of substantive impact or constitute a change in the objectives of these ETS. The licensee shall furnish to the Commission, annually or at such shorter intervals as may be specified in the license, a report containing descriptions, analyses, interpretations, and evaluations of such changes, tests and experiments.

- D. Changes in the special studies, if required in Section 4.2, which affect sampling frequency, location, gear, or replication shall be reported to the NRC within 30 days after their implementation, unless otherwise reported in accordance with Subsection 5.4.2. These reports shall describe the changes made, the reasons for making the changes, and an evaluation of the effectiveness of the revised program in assessing environmental impacts.

5.4 Station Reporting Requirements

5.4.1 Routine Reports

Annual Environmental Operating Report

A report on the environmental monitoring programs for the previous year shall be submitted to the NRC separate from other NRC reporting requirements within 90 days following each anniversary of issuance of the operating license. The period of the first report shall begin with the date of issuance of the operating license. The report shall include summaries, analyses, interpretations, and statistical evaluation of the results of the environmental monitoring required by special studies and requirements (Section 4) for the report period, including a comparison with preoperational studies, operational controls (as appropriate), and previous non-radiological environmental monitoring reports, and an assessment of the observed impacts of the station operation on the environment. If harmful effects or evidence of irreversible damage are suggested by the monitoring programs, the licensee shall provide a more detailed analysis of the data and a proposed course of action to alleviate the problem.



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
SUPPORTING AMENDMENT NO. 107 TO FACILITY OPERATING LICENSE NO. DPR-77
AND AMENDMENT NO. 97 TO FACILITY OPERATING LICENSE NO. DPR-79
TENNESSEE VALLEY AUTHORITY
SEQUOYAH NUCLEAR PLANT, UNITS 1 AND 2
DOCKET NOS. 50-327 AND 50-328

1.0 INTRODUCTION

By letter dated April 17, 1987, the Tennessee Valley Authority (TVA or the licensee) proposed to modify the Sequoyah Nuclear Plant (SQN) Units 1 and 2 Technical Specifications (TS). This is the licensee's TS change number 87-05. The proposed changes would revise parts of Section 5.0, Administrative Controls, of the Appendix B Environmental Technical Specifications. This appendix is for the non-radiological environmental requirements on the licensee's operation of the Sequoyah units. The proposed changes will reflect the new title for the station superintendent and assign the responsibility for review and audit to the licensee, instead of a specific licensee organization. The change will also extend the audit time interval from annual to once per 18 months and delete reference to a defunct section of the Code of Federal Regulations (CFR).

2.0 EVALUATION

In Section 5.1 of the Appendix B TS, the station superintendent is to be replaced by the plant manager. This change is necessary to reflect correct titles as a result of the TVA reorganization. In this new organization (Page 6-1 of Appendix A TS) it is noted that the plant manager shall be responsible for overall unit safe operation and shall have control over those onsite resources necessary for safe operation and maintenance of the plant. The staff found that the proposed change of the original title, the station superintendent, to the plant manager is acceptable.

The licensee proposes the change of responsibility of review and audit from the TVA regulatory staff to the licensee, and also responsibility from the TVA Office of Power and Quality Assurance and Audit Staff to the licensee (Sections 5.2.1 and 5.2.2 of the Appendix B TS). The licensee stated that holding the licensee responsible for this review, instead of a specific TVA organization, will eliminate the need for future TS changes as a result of TVA organizational changes. The staff found this approach and the proposed TS changes to be acceptable.

The proposed change also requests an increase in the audit period from annual to once per 18 months. The licensee stated that this request is based on their audit experience at Sequoyah, Watts Bar, and Browns Ferry Nuclear Plants and over four years of conducting environmental compliance audits at TVA's coal-fired steam plants, the hydro plants, the National Fertilizer Development Center, and many other facilities. TVA believes that environmental requirements

at nuclear plants with respect to air, water, and solid and hazardous wastes are not appreciably different from those at other facilities, and that audits on an 18-month basis will provide management with the necessary information relative to the status of environmental compliance at the plant. The staff agrees with the licensee and the proposed 18-month audit interval is acceptable.

The licensee proposes to delete Item B(2) of Section 5.2.2 of the Appendix B TS regarding changes in the Sequoyah plant design or operation which impact requirements in 10 CFR 51.5(b)(2) (i.e., significant changes in effluents or power level). This requirement is no longer in the CFR and, therefore, the licensee's proposal to delete this reference from the TS is acceptable.

Based on the above, the licensee's requested changes in TS 87-05 on Appendix B of the TS are found to be acceptable.

3.0 ENVIRONMENTAL CONSIDERATION

These amendments involve changes in recordkeeping, or administrative procedure or requirements. The Commission has previously issued proposed findings that these amendments involve no significant hazards considerations and there has been no public comment on such findings. The staff has also determined that the amendment involves 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. Accordingly, these amendments meet the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(10). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environment assessment need to be prepared in connection with the issuance of this amendment.

4.0 CONCLUSION

The Commission made a proposed determination that the amendment involves no significant hazards consideration which was published in the Federal Register (53 FR 13020) on April 20, 1988 and consulted with the State of Tennessee. No public comments were received and the State of Tennessee did not have any comments.

The staff has 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 the amendments will not be inimical to the common defense and security nor to the health and safety of the public.

Principal Contributor: S. B. Kim

Dated: March 15, 1989