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# Technical Specifications

## Sequoyah Nuclear Plant Units 1 and 2

Docket Nos. 50-327 and 50-328

Appendix "B" to  
License Nos. DPR-77 and DPR-79



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SEQUOYAH NUCLEAR PLANT  
UNITS 1 AND 2  
ENVIRONMENTAL TECHNICAL SPECIFICATIONS  
(NON-RADIOLOGICAL)

TABLE OF CONTENTS

<u>Section</u>		<u>Page</u>
1.0	Definitions . . . . .	1-1
2.0	Limiting Conditions for Operation (N/A) . . . . .	2-1
3.0	Environmental Monitoring . . . . .	2-1
4.0	Special Studies and Requirements . . . . .	4-1
4.1	Exceptional Occurrences . . . . .	4-1
4.2	Special Studies . . . . .	4-2
5.0	Administrative Controls . . . . .	5-1
5.1	Responsibility . . . . .	5-1
5.2	Review and Audit . . . . .	5-1
5.3	Changes in Station Design or Operation . . . . .	5-2
5.4	Station Reporting Requirements . . . . .	5-4
5.5	Changes in Environmental Technical Specifications and Permits . . . . .	5-7
5.6	Records Retention . . . . .	5-8

1.0 Definitions

Annually: Annually is once per calendar year at intervals of twelve calendar months ± 30 days.

Clean Water Act: Federal Water Pollution Control Act (FWPCA) as amended.

NPDES Permit: NPDES permit is the National Pollutant Discharge Elimination System Permit No. TN 026450 issued by the U.S. Environmental Protection Agency to the Tennessee Valley Authority (TVA). This permit authorizes TVA to discharge controlled waste water, from the Sequoyah Nuclear Plant Units 1 and 2, into the Tennessee River.

Plant: Plant refers to Sequoyah Nuclear Plant Units 1 and 2.

Site: Onsite includes any area within the property owned by the TVA specifically described in the Sequoyah EIS Section 1.1. Offsite includes all other areas.

Station: Station refers to Sequoyah Nuclear Plant Units 1 and 2.

Unit: Unit refers only to Unit 1 or Unit 2 of the Sequoyah Nuclear Plant, as defined by its usage.

2.0 Limiting Conditions for Operation

None required.\*

3.0 Environmental Monitoring

None required.\*

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\*In consideration of the provisions of the Clean Water Act (33 USC § 1251, et seq.) and in the interest of avoiding duplication of effort, the conditions and monitoring requirements related to water quality and aquatic biota are specified in the National Pollution Discharge Elimination System (NPDES) Permit No. TN 026450 issued by the U.S. Environmental Protection Agency to the Tennessee Valley Authority (TVA). This permit authorizes TVA to discharge controlled waste water from the Sequoyah Nuclear Plant Units 1 and 2, into the Tennessee River.

The Nuclear Regulatory Commission will be relying on the NPDES permit for protection of the aquatic environment from non-radiological effluents.

#### 4.0 Special Studies and Requirements

#### 4.1 Exceptional Occurrences

##### 4.1.1 Unusual or Important Environmental Events

###### Requirements

The licensee shall record any occurrence of unusual or important events. Unusual or important events are those that potentially could cause or indicate environmental impact causally related with station operation. The following are examples: excessive bird impaction events; onsite plant or animal disease outbreaks; unusual mortality of any species protected by the Endangered Species Act of 1973; fish kills near the plant site; unanticipated or emergency discharges of waste water or chemical substances.

This special requirement shall commence with the date of issuance of the operating license and continue for the life of the plant, unless changed in accordance with Subsection 5.5.1.

###### Action

Should an unusual or important event occur, the licensee shall make a prompt report to the NRC in accordance with the provisions of Subsections 5.4.2.a and 5.4.2.c or Subsection 5.4.2.d.

#### 4.1.2 Exceeding Limits of other Relevant Permits

##### Requirements

The licensee shall notify the NRC of occurrences in which the limits specified in relevant permits and certificates issued by other Federal, State and local agencies are exceeded and which are reportable to those agencies.

This requirement shall commence with the date of issuance of the operating license and continue for the life of the plant, unless changed in accordance with Subsection 5.5.1.

##### Action

The licensee shall make a report to the NRC in accordance with the provisions of Subsections 5.4.2.b and 5.4.2.c or Subsection 5.4.2.d in the event of a reportable occurrence in which a limit specified in a relevant permit or certificate issued by another Federal, State or local agency is exceeded.

#### 4.2 Special Studies

None required at the present time.

## 5.0 Administrative Controls

### 5.1 Responsibility

The station superintendent has responsibility for operating the plant in compliance with these environmental technical specifications.

### 5.2 Review and Audit

#### 5.2.1 Review

The TVA Regulatory Staff 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 TVA Office of Power Quality Assurance and Audit Staff shall conduct an annual audit of the environmental monitoring program.

#### 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 significant change in effluents or power level as specified in Section 51.5(b)(2) of 10 CFR 51; or (3) 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.

For those programs concerned with water quality or protection of aquatic biota, which are regulated under the Clean Water Act, the requirements of this section shall be satisfied by submitting to the NRC copies of the reports as required by the NPDES permit (or otherwise required pursuant to the Clean Water Act), and in accordance with the frequency, content and schedules set forth by the agencies responsible for implementing the Clean Water Act.

In the event that some results are not available by the report due date, the report shall be submitted noting and explaining the missing results. The missing data shall be submitted as soon as possible in a supplementary report.

The Annual Report shall also include a summary of:

1. All ETS noncompliances and the corrective actions taken to remedy them.
2. Changes made to applicable State and Federal permits and certifications.
3. Changes in station design which could involve a significant environmental impact or change the findings of the FES.
4. All nonroutine reports submitted per ETS Section 4.1.
5. Changes in approved ETS.

#### 5.4.2 Nonroutine Reports

A report shall be submitted in the event that an "Unusual or Important Environmental Event," as specified in Section 4.1.1 occurs, or if another relevant permit is violated as specified in Section 4.1.2. The schedule and content for these nonroutine reports are described below:

#### 5.4.2.a Prompt Report

Those events specified as requiring prompt reporting shall be reported within 24 hours by telephone, telegraph, or facsimile transmission to the NRC followed by a written report to the NRC within 30 days.

#### 5.4.2.b Thirty Day Report

Those events not requiring a prompt report as described in Subsection 5.4.2.a shall be reported to the NRC within 30 days of their occurrence.

#### 5.4.2.c Content of Nonroutine Reports

Written 30-day reports and, to the extent possible, the preliminary telephone, telegraph, or facsimile reports shall (a) describe, analyze, and evaluate the occurrence, including extent and magnitude of the impact, (b) describe the cause of the occurrence, (c) indicate the action taken to correct the reported occurrence, and (d) indicate the corrective action taken (including any significant changes made in procedures) to preclude repetition of the occurrence and to prevent similar occurrences involving similar components or systems.

#### 5.4.2.d Exceptions for Matters Regulated Under the Clean Water Act

For matters regulated under the Clean Water Act, the report schedules and content requirements described in Subsections 5.4.2.a, 5.4.2.b, and 5.4.2.c shall be satisfied by submitting, to the NRC, copies of reports as required by the NPDES permit (or other regulations pursuant to the Clean Water Act) and in accordance with the schedules and content requirements imposed thereby.

## 5.5 Changes in Environmental Technical Specifications and Permits

### 5.5.1 Changes in Environmental Technical Specifications

Requests for changes in environmental technical specifications shall be submitted to the NRC for review and authorization per 10 CFR 50.90. The request shall include an evaluation of the environmental impact of the proposed change and a supporting justification. Implementation of such requested changes in ETS shall not commence prior to incorporation by the NRC of the new specifications in the license.

### 5.5.2 Changes in Permits and Certifications

Changes and additions to required Federal (other than NRC), State, local, and regional authority permits and certificates for the protection of the environment shall be reported to the NRC within 30 days. In the event that the licensee initiates or becomes aware of a request for changes to any of the water quality requirements, limits or values stipulated in any certification or permit issued pursuant to the Clean Water Act, the NRC shall be notified within 30 days.

If a permit or certification, in part or in its entirety, is appealed and stayed, the NRC shall be notified within 30 days. If, as a result of the appeal process, the permit or certification requirements are changed, the change shall be dealt with as described in the previous paragraph of this section.

## 5.6 Records Retention

Records and logs relative to the environmental aspects of station operation shall be made and retained in a manner convenient for review and inspection. These records and logs shall be made available to NRC on request.

5.6.1 The following records shall be retained for the life of the station:

- (a) Record of changes to these Environmental Technical Specifications including, when applicable, records of NRC approval of such changes.
- (b) Record of modifications to station structures, systems and components determined to potentially affect the continued protection of the environment.
- (c) Record of changes to permits and certification required by federal (other than NRC), state, local and regional authorities for the protection of the environment.
- (d) Routine reports submitted to the NRC.



5.6.2 Records of the following shall be retained for a minimum of six years:

(a) Review and audit activities.

(b) Events, and the reports thereon, which are the subjects of non-routine reports to the NRC.

5.6.3 Records associated with requirements of Federal (other than NRC), State, local and regional authorities' permits and certificates for the protection of the environment shall be retained for the period established by the respective permit or certificate.



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