

TENNESSEE VALLEY AUTHORITY

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DEC 15 1989

U.S. Nuclear Regulatory Commission
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Gentlemen:

In the Matter of
Tennessee Valley Authority

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Docket Nos. 50-327
50-328

SEQUOYAH NUCLEAR PLANT (SQN) - ANNUAL ENVIRONMENTAL OPERATING REPORT

The enclosure contains the Annual Environmental Operating Report for SQN for the period from September 15, 1988, through September 14, 1989. This report is submitted in accordance with Appendix B Technical Specification 5.4.1.

Please direct questions concerning this issue to B. S. Schofield at (615) 843-6172.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

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ENCLOSURE

ANNUAL ENVIRONMENTAL OPERATING REPORT
September 15, 1988, through September 14, 1989

1. In accordance with Technical Specification (TS) 5.3.C, facility design and operational changes were reviewed for potential effect on the environment. A study of facility design and operational changes from September 15, 1988, through September 14, 1989, that could have affected the environment was performed. Projects considered to have potential impact on the environment included (1) those involving excavation, construction, or asbestos removal; and (2) those resulting in new or increased discharges to outside drains. The study identified and documented a basis that the design and operational changes did not involve an unreviewed environmental question. A copy of this study is attached.
2. In accordance with TS 5.4.1, the following report has previously been submitted to NRC as specified in the SQN National Pollutant Discharge Elimination System (NPDES) Permit No. TN0026450.

Report on results of Nonradiological Aquatic Monitoring Program - Rotenone Studies, submitted July 21, 1989.

3. The following information is provided as required by TS 5.4.1.
 - a. All environmental TS (ETS) noncompliances and the corrective actions taken to remedy them.

There were no ETS noncompliances during the reporting period.

- b. Changes made to applicable State and Federal permits and certifications:

NPDES Permit No. TN0026450 for SQN expired on March 31, 1988. A permit renewal application was submitted on October 1, 1987. Because a timely and complete permit renewal application was submitted, the expired permit will remain in force until the effective date of a new permit (in accordance with 40 CFR Part 122).

On August 30, 1989, a request was submitted to the Tennessee Division of Water Pollution Control for alternative thermal discharge limits under Section 316a of the Federal Water Pollution Control Act.

On September 30, 1988, the Tennessee Division of Water Pollution Control issued a permit to hold and haul sewage from Discharge Serial Number 113.

On October 3, 1989, an application was submitted to the Tennessee Division of Solid Waste Management for a permit to store mixed wastes (mixture of hazardous and radioactive wastes).

On March 1, 1989, applications were submitted to the Chattanooga-Hamilton County Air Pollution Control Bureau for permits for 11 minor existing air pollution sources.

- c. Changes in station design that could involve a significant environmental impact or change the findings of the Final Environmental Statement (FES).

As concluded in Attachment 1, there have been no facility design or operational changes since September 15, 1988, that have resulted in an unreviewed environmental question.

- d. All nonroutine reports submitted in accordance with ETS Section 4.1.

On July 10, 1989, a small oil leak was discovered in the essential raw cooling water pumping station. The leakage drained to the building sump and was subsequently pumped out to the Tennessee River. The oil loss was estimated to be one gallon or less, but it caused a sheen on the river and therefore was reportable.

On August 2, 1989, approximately 520 dead fish were discovered in the SQN diffuser pond. The apparent cause was thermal stress.

Copies of the reports for the above incidents have been provided in accordance with TS requirements.

- e. Changes in approved ETS.

TS Amendments 107 for Unit 1 and 97 for Unit 2 were received on March 15, 1989, in response to ETS Change Request 87-05.

ATTACHMENT

STUDY OF SEQUOYAH NUCLEAR PLANT (SQN) DESIGN AND OPERATIONAL CHANGES BETWEEN SEPTEMBER 15, 1988, AND SEPTEMBER 14, 1989 FOR EFFECTS ON THE ENVIRONMENT

Facility design and operational changes made during this report period have been reviewed for potential to affect the environment as described below. The criteria used to identify those projects with a potential for environmental effects included (1) those involving excavation, construction, or asbestos removal; and (2) those resulting in new or increased discharges to outside drains.

1. The following projects met the above criteria and were reviewed for potential impact to the environment:

a. Workplans

- Revise data cable connections between diffuser pipe flow and temperature meters and Fischer-Porter computer equipment.
- Add curbs on the essential raw cooling water (ERCW) pumping station roof to prevent hydraulic fluid oil leaks from entering the pump rooms.
- Upgrade security practice firing range.
- Increase ultimate plant heat sink design temperature to 84.5 degrees Fahrenheit.
- Revise sewage piping to allow office sewage to be diverted from offsite system to onsite system if it should become radioactive.
- Install manholes and underground conduits for site communications system.
- Core drill ERCW pumping station foundation.
- Add connection to raw service water system for two air cooling units in the service building.
- Add connection to potable water system for water cooler, sink, and ice machine in the service building.

b. Special Tests

- There were no special tests conducted during this period that met the environmental impact criteria.

c. Temporary Alterations

- Temporary connections to potable water system and sewage disposal system for mobile offices at various locations onsite.
 - Add temporary filter to the high crud filter bypass line in the condensate demineralizer building.
 - Change the flow switch on the inlet of the turbine building sump discharge radiation monitor from a Proteus Industries Model No. 100 to an FCI Model FR72.
2. Design and operational changes with a potential for causing new or increased discharges to outside drains, including runoff from excavation, were reviewed and determined to be within the scope of the SQN NPDES permit.
 3. Monthly discharge monitoring reports submitted as required by the SQN NPDES permit were reviewed. Permit excursions were attributed to either equipment malfunctions or operational errors and determined to be within the purview of the NPDES permit and associated environmental evaluations.

In summary, there have been no facility design or operational changes from September 15, 1988, to September 14, 1989, that have resulted in an unreviewed environmental question.