



Tennessee Valley Authority, Post Office Box 2000, Soddy-Daisy, Tennessee 37384-2000

November 12, 2001

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

Gentlemen:

In the Matter of)	Docket Nos. 50-327
Tennessee Valley Authority)	50-328

**SEQUOYAH NUCLEAR PLANT - ANNUAL NON-RADIOLOGICAL ENVIRONMENTAL
OPERATING REPORT**

The enclosure contains the Annual Environmental Operating Report for Sequoyah for the period from October 1, 2000 through September 30, 2001. This report is submitted in accordance with Appendix B of the Sequoyah Operating License, Section 5.4.1.

This letter is being sent in accordance with NRC RIS 2001-05. Please direct questions concerning this issue to me at (423) 843-7170 or J. D. Smith at (423) 843-6672.

Sincerely,

A handwritten signature in black ink, appearing to read "Pedro Salas", with a large, sweeping flourish underneath.

Pedro Salas
Licensing and Industry Affairs Manager

Enclosure

Cool

U.S. Nuclear Regulatory Commission
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PS:JDS:KCW

cc (Enclosure):

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ANNUAL NON-RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

**TENNESSEE VALLEY AUTHORITY
SEQUOYAH NUCLEAR PLANT
October 1, 2000 through September 30, 2001**

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I. INTRODUCTION

The Sequoyah Nuclear Plant Annual Non-Radiological Environmental Operating Report for the period of October 1, 2000 through September 30, 2001 is prepared in accordance with Environmental Technical Specifications (Non-Radiological) (ETS), Appendix B, 5.4.1. This report includes a summary of:

- ◆ Reporting for those programs not concerned with water quality or protection of aquatic biota, which are regulated by the Clean Water Act
- ◆ Environmental monitoring performed
- ◆ Reports previously submitted as specified in the SQN National Pollutant Discharge Elimination System (NPDES) Permit No. TN0026450
- ◆ All ETS non-compliances and the corrective actions taken to remedy them
- ◆ Changes made to applicable State and Federal permits and certifications
- ◆ Changes in station design that could involve a significant environmental impact or change the findings of the Final Environmental Statement (FES)
- ◆ All non-routine reports submitted per ETS Section 4.1
- ◆ Special studies
- ◆ Changes in approved ETS

Reporting, monitoring, and inspections conducted as required by permits and regulations indicated no adverse impact on the environment as a result of station operation.

II. REPORTING FOR THOSE PROGRAMS NOT CONCERNED WITH WATER QUALITY OR PROTECTION OF AQUATIC BIOTA, WHICH ARE REGULATED BY THE CLEAN WATER ACT

- A. Third Quarter 2000 Summary of Asbestos Removal Projects - submitted to the Hamilton County Air Pollution Control Bureau on October 2, 2000
- B. Testing of Backflow Prevention Devices at SQN - submitted to the Hixson Utility District on October 11, 2000
- C. Revised Waste Streams 33 and 34 - submitted to the Tennessee Department of Environment and Conservation on October 19, 2000
- D. Annual Asbestos Removal Notification - submitted to Hamilton County Air Pollution Control Bureau on November 13, 2000
- E. Sector Facility Indexing Project (SFIP) ID# Fed. TN 0647 - submitted to the U.S. Environmental Protection Agency on December 4, 2000
- F. Fourth Quarter 2000 Summary of Asbestos Removal Projects - submitted to the Hamilton County Air Pollution Control Bureau on January 2, 2001
- G. Oil Spill Report in Accordance with 40 CFR 112.4(a) - submitted to the U.S. Environmental Protection Agency on January 2, 2001
- H. New Waste Stream 52 - submitted to the Tennessee Department of Environment and Conservation on January 4, 2001
- I. Revision to Annual Asbestos Removal Notification - submitted to Hamilton County Air Pollution Control Bureau on February 12, 2001

- J. Tier Two Emergency and Hazardous Chemical Inventory - submitted to the local Emergency Planning Commission on February 21, 2001
- K. Form HN of Annual Hazardous Waste Activity Report for 2000 - submitted to the Tennessee Department of Environment and Conservation on February 22, 2001
- L. Sequoyah Nuclear Plant Hazardous Waste Minimization Plan - maintained on file at Sequoyah since March 1, 2001
- M. First Quarter 2001 Report on Non-Scheduled Removal of Asbestos Containing Material - submitted to the Hamilton County Air Pollution Control Bureau on April 2, 2001
- N. New Waste Stream 53 - submitted to the Tennessee Department of Environment and Conservation on April 2, 2001
- O. Annual Hazardous Waste Activity Report for 2000 - submitted to the Tennessee Department of Environment and Conservation on April 9, 2001
- P. Sequoyah Nuclear Plant Annual Report on The Hours of Operation for The Auxiliary Boilers A&B; Emergency Diesel Generators 1-A, 1-B, 2-A & 2-B; The Security Diesel Generators; The High Pressure Fire Pump Diesel Motor; and The Information Services Backup Power Supply Diesel Generator - submitted to the Hamilton County Air Pollution Control Bureau on May 8, 2001
- Q. New Waste Stream 54 - submitted to the Tennessee Department of Environment and Conservation on May 15, 2001
- R. 2000 Environmental Profile Update of SQN - submitted to the Environmental Protection Agency by e-mail on May 30, 2001
- S. Microcomputer Diskette containing Toxic Chemical Release Information Required by Emergency Planning and Community Right to Know Act - submitted to the Environmental Protection Agency EPCRA Reporting Center on June 18, 2001
- T. Testing of Backflow Prevention Devices at SQN - submitted to the Hixson Utility District on June 25, 2001
- U. Written Annual Document Log of Polychlorinated Biphenyl's (PCBs) and PCB Items for Calendar Year 2000 - maintained on file since June 27, 2001
- V. Oil Spill Retraction - submitted to U.S. Environmental Protection Agency on June 28, 2001
- W. Second Quarter 2001 Summary of Asbestos Removal Projects - submitted to the Hamilton County Air Pollution Control Bureau on July 9, 2001
- X. Special Waste Permit Application for Sodium Hypochlorite Building Renovation Debris - submitted to the Tennessee Department of Environment and Conservation on July 12, 2001
- Y. New Waste Stream 55 - submitted to the Tennessee Department of Environment and Conservation on July 23, 2001
- Z. Special Waste Permit Application for Secondary System Resin - submitted to the Tennessee Department of Environment and Conservation on July 30, 2001
- AA. New Waste Stream 56 - submitted to the Tennessee Department of Environment and Conservation on August 16, 2001
- BB. 2001 Solid Waste Facility Annual Report/Fee - submitted to the Tennessee Department of Environment and Conservation on September 12, 2001

III. ENVIRONMENTAL MONITORING PERFORMED

- A. Storm water samples taken at required frequencies and Best Management Practices implemented as required by General Industrial Storm Water Discharge Permit TNR050015
- B. Outfall sampling and inspection is performed as required by NPDES General Industrial Discharge Permit TN0026450 (results previously submitted to NRC as required)
- C. Weekly erosion and sediment control inspections are conducted as required by General Industrial Storm Water Discharge Permit TNR050015
- D. Weekly tank, piping, and secondary containment inspections are performed as required by General Industrial Storm Water Discharge Permit TNR050015 and the Spill Prevention Controls and Countermeasure Plan
- E. Weekly hazardous waste inspections conducted as required by 40CFR261 and by the Tennessee Rule Chapter 1200, Hazardous Waste Management
- F. Weekly landfill inspections performed as required by 40CFR261 and by the Tennessee Rule Chapter 1200, Hazardous Waste Management
- G. Daily operational hours of diesel generator operation tracking maintained as required by Federally Enforceable Certificate of Operation No. 4150-10200501-08C
- H. Diesel fuel recovery trench, extraction, and monitoring well sampling, maintenance and operation conducted as required by the state of Tennessee
- I. Intake forebay aeration system sampling, maintenance and operation performed as required by the state of Tennessee
- J. Air emissions inspected weekly for equipment permitted by the Hamilton County Air Pollution Control Bureau
- K. Opening burning area monthly inspection
- L. Refrigeration equipment performance and repairs are tracked weekly to ensure compliance with Title VI of the Clean Air Act
- M. Waste sampling and characterization as required by 40CFR261 and by the Tennessee Rule Chapter 1200, Hazardous Waste Management
- N. Quarterly PCB transformer inspections as required by 40CFR761
- O. Asbestos removal tracking as required by the Hamilton County Air Pollution Control Bureau
- P. Hazardous waste minimization (such as solvent distillation, chemical control, and substitution) as required by the Tennessee Rule Chapter 1200, Hazardous Waste Management
- Q. National Environmental Policy Act (NEPA) reviews are conducted to evaluate potential environmental impact of temporary or permanent facility modifications

IV. REPORTS PREVIOUSLY SUBMITTED AS SPECIFIED IN THE SQN NPDES PERMIT

The following reports were submitted as specified in the SQN NPDES Permit No. TN0026450 and General Industrial Discharge Storm Water Permit No. TNR050015:

- A. Quarterly Discharge Monitoring Report for the period of July 1, 2000 - September 30, 2000 - submitted to Tennessee Department of Environment and Conservation on October 10, 2000
- B. Semiannual Aquatic Toxicity Monitoring Studies - submitted with the quarterly Discharge Monitoring Report on October 10, 2000
- C. Quarterly Discharge Monitoring Report for the period of October 1, 2000 - December 30, 2000 - submitted to the Tennessee Department of Environment and Conservation on January 5, 2001
- D. Semiannual Aquatic Toxicity Monitoring Studies - submitted with the quarterly Discharge Monitoring Report on January 5, 2001
- E. Amended Discharge Monitoring Report for December 2000 - submitted to the Tennessee Department of Environment and Conservation on January 29, 2001
- F. Discharge Monitoring Report 20QA Study Corrective Action Report - submitted to the Tennessee Department of Environment and Conservation on January 26, 2001
- G. Tennessee Multi-Sector General Permit 2000 Storm Water Monitoring Report - submitted on March 23, 2001
- H. Quarterly Discharge Monitoring Report for the period of January 1, 2001 - March 31, 2001 - submitted to the Tennessee Department of Environment and Conservation on April 13, 2001
- I. Non-Radiological Aquatic Monitoring Program Biological Monitoring Report - submitted to the Tennessee Department of Environment and Conservation on June 14, 2001
- J. Quarterly Discharge Monitoring Report for the Period of April 1 - June 30, 2001 - submitted to the Tennessee Department of Environment and Conservation on July 11, 2001
- K. Semiannual Aquatic Toxicity Monitoring Studies - submitted with the quarterly Discharge Monitoring Report on July 11, 2001
- L. Sewer Line Leak Discharge via Yard Drainage - submitted to the Tennessee Department of Environment and Conservation on July 12, 2000
- M. Discharge Monitoring Report for August 2001 - submitted to the Tennessee Department of Environment and Conservation on September 12, 2001
- N. Discharge Monitoring Report - QA 21 Lab Performance Evaluation - submitted to the Tennessee Department of Environment and Conservation on September 12, 2001

V. ENVIRONMENTAL TECHNICAL SPECIFICATION (ETS) NON-COMPLIANCES

There were no ETS non-compliances

VI. CHANGES MADE TO APPLICABLE STATE AND FEDERAL PERMIT CERTIFICATIONS

NPDES Permits: Concurrence was received from the Tennessee Department of Environment and Conservation Division of Water Pollution Control as follows:

NPDES Permit No. TN0026450 was issued by the Division of Water Pollution Control for the Tennessee Department of Environment and Conservation on July 31, 2001. The permit became effective on August 8, 2001. The permit will expire on December 31, 2003.

VII. CHANGES IN FACILITY DESIGN OR OPERATION

In accordance with Technical Specification 5.3.c, facility design and operational changes were reviewed for potential effect on the environment. A study of facility design and operational changes proposed from October 1, 2000 through September 30, 2001 was performed. Projects considered as having potential impact on the environment included: those that could have caused waste stream generation/alteration, or that required the acquisition/modification of permits, or involved the use of hazardous material, or required physical construction. The study, performed in accordance with the guidelines of the Tennessee Valley Authority's NEPA Program, documented that design and operational changes did not involve an unreviewed environmental question.

Facility design and operational changes made or proposed during this report period were reviewed for potential to affect the environment as described below. None were found to result in an unreviewed environmental question. The following criteria were used to identify those projects with a potential for environmental affects:

- A. Waste stream generation/alteration
(air, hazardous waste, solid waste, PCBs, asbestos, and wastewater)
- B. Permit acquisition/modification
[NPDES, air, inert landfill, other (316a, 404, etc.)]
- C. Hazardous materials
- D. Physical construction involved
(erosion/sedimentation effects, transportation effects, noise effects, groundwater effects, surface water effects, floodplain effects, wetland effects, prime farmland effects, unique natural features effects, aquatic ecology effects, terrestrial ecology effects, protected species effects, sensitive habitat effects, visual effects, historical, cultural and archeological effects, changes in site land use, and controversy)

1. Special Tests

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

2. Temporary Alterations

There were no temporary alterations installed during this period that met environmental impact criteria.

3. Design and Operational Changes

All facility design and operational changes made during this reporting period with a potential impact on the environment were found to be within the scope of existing permits and in compliance with environmental regulations. Those changes reviewed are as follows:

Environmental Decision Records:

- (a) Installation of temporary fuel source, hoses, and piping for auxiliary boiler
- (b) Painting the pumps, handrails, and various other equipment at the ponds
- (c) Removal of Beaver Dam from condenser circulating water trash sluice
- (d) Replacing two pressure control valves on the bearing lube water at the cooling tower lift pump station
- (e) Constructing a multi-craft facility at the south west corner of Solar Building
- (f) Leading edge flow measurement system thermal power uprate (1.3%) project
- (g) Constructing a roof overhang on the side of the Transmission Power Supply Building
- (h) Repair/Replace roofing on Solar Building, and Nuclear Regulatory Commission Buildings
- (i) Replace Obsolete ABB Style No. B3C040BU4A bushing with ABB Style No. 015B0400UN for Common Service Station Transformer (C Transformer).
- (j) Refurbish the pipe shop next to Warehouse 11

VIII. NON-ROUTINE REPORTS

One non-routine report for matters regulated under the Clean Water Act was submitted during this period:

Oil Spill Report in Accordance with 40 CFR 112.4(a) - Submitted to the U.S. Environmental Protection Agency on January 2, 2001

IX. SPECIAL STUDIES

There was one environmental study conducted this year, "Results of Biological Monitoring in the Vicinity of Sequoyah Nuclear Plant 2000." The study was performed by River System Operations and Environment. The study report was submitted to the Tennessee Department of Environment and Conservation on June 14, 2001. The study concluded that there were no significant impacts on the fish community from Sequoyah Nuclear Plant operation.

X. CHANGES IN APPROVED ENVIRONMENTAL TECHNICAL SPECIFICATION

There were no changes in approved ETSs during this period.