

TENNESSEE VALLEY AUTHORITY

KNOXVILLE, TENNESSEE 37902

FEB 24 1986

Mr. Bruce R. Barrett, Director
Water Management Division
U.S. Environmental Protection
Agency, Region IV
345 Courtland Street, NE.
Atlanta, Georgia 30365

Dear Mr. Barrett:

WATTS BAR NUCLEAR PLANT (WBN) - NPDES PERMIT NO. TN0020168

Reference: Letter, M. E. Rivers to B. R. Barrett, February 11, 1986

As discussed in a telephone conversation on February 18 between Madonna Martin of my staff and Charles Kaplan of the Environmental Protection Agency, there were some errors on proposed permit page I-1 in enclosure 3 of the referenced letter. Therefore, the enclosed page supersedes the one provided in the referenced letter.

If there are any questions, please call Ms. Martin at (615) 632-6695 in Knoxville.

Sincerely,

M. Paul H. Rivers
for Martin E. Rivers, Director
Environmental Quality

Enclosure

cc (Enclosure):

Mr. Paul E. Davis, Deputy Director
Division of Water Pollution Control
Tennessee Department of Health
and Environment
TERRA Building
150 Ninth Avenue, North
Nashville, Tennessee 37219

Dr. J. Nelson Grace, Regional Administrator
U.S. Nuclear Regulatory Commission, Region IV
101 Marietta Street, NW., Suite 2900
Atlanta, Georgia 30303

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Mr. Bruce R. Barrett

cc (Enclosure):

Mr. Douglas K. Lankford, Chief
South Carolina/Tennessee Unit
Facilities Performance Branch
Water Management Division
U.S. Environmental Protection
Agency, Region IV
345 Courtland Street, NE.
Atlanta, Georgia 30365

Mr. Charles H. Kaplan, P.E.
Coordinator, Thermal Analysis
Permits Section
Water Management Division
U.S. Environmental Protection
Agency, Region IV
345 Courtland Street, NE.
Atlanta, Georgia 30365

Mr. Wade Knight, Chief
Quality Assurance and Laboratory
Evaluation Section
Environmental Services Division
U.S. Environmental Protection Agency
College Station Road
Athens, Georgia 30613

Mr. Philip L. Stewart, Manager
Chattanooga Field Office
Division of Water Pollution Control
2501 Milne Street
Chattanooga, Tennessee 37406

Mr. B. Youngblood, Project Director
PWR Project Directorate No.4
Division of Pressurized Water
Reactor (PWR) Licensing A
Director of Nuclear Regulatory Commission
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning on the effective date and lasting through expiration, the permittee is authorized to discharge from outfall(s) serial number(s) 101 - Diffuser discharge to the Tennessee River.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristics</u>	<u>Discharge Limitations</u> <u>Instantaneous Maximum</u>	<u>Monitoring Requirements</u>	
		<u>Measurement Frequency</u>	<u>Sample Type</u>
Intake Flow-m ³ /Day (MGD)	NA	Continuous	Pump logs
Discharge Flow-m ³ /Day (MGD)	NA	Continuous	Recorder
Discharge Temperature °C (°F) <u>1/</u>	35.0 (95.0)	Continuous	Recorder
TRC-diffuser (mg/L)	0.10	5/week <u>2/</u>	Multiple grab <u>2/</u>
TRC-diffuser (mg/L)	0.10	Continuous <u>2/,3/</u>	Recorder <u>2/,3/</u>
TRC-internal (mg/L)	1.0 <u>3/</u>	5/week <u>2/,3/</u>	Multiple grab <u>2/,3/</u>
TRC-internal (mg/L)	1.0 <u>3/</u>	Continuous <u>2/,3/</u>	Recorder <u>2/,3/</u>

Chlorine may be discharged continuously; however, total residual chlorine (TRC) shall not exceed a maximum instantaneous concentration of 0.10 mg/L at the diffuser pipe. Additionally, continuous chlorination of the ERCW and RCW systems at a maximum concentration of 1.0 mg/L 3/ of TRC at the internal monitoring point for the purpose of asiatic clam control is permitted when the system is operating at an intake temperature above 15.6°C (60°F). Intake temperature shall be monitored and data shall be retained but not reported on DMRs.

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored at a frequency of 1/week.

There shall be no distinct discharge of floating scum, solids, oil sheen, visible foam, and other floating matter other than trace amounts.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): diffuser pipe prior to entry into the Tennessee River except that intake temperature and flow shall be monitored at the plant intake(s) and TRC shall also be monitored at the station air compressor discharge (internal monitoring point).

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