

TENNESSEE VALLEY AUTHORITY

NORRIS, TENNESSEE 37628

NOVEMBER 2 1979

Mr. Charles H. Kaplan  
Coordinator, Thermal Analysis Unit  
Enforcement Division  
Environmental Protection Agency  
345 Courtland Street, NE.  
Atlanta, Georgia 30308

POOR ORIGINAL

Dear Mr. Kaplan:

Item 2 of the enclosure to the February 15, 1979, letter to you from H. G. Moore, Jr. concerning the proposed chlorine limitations, stated that TVA was investigating alternatives to our proposed chlorination practices to meet the NPDES permit discharge limitations for chlorine residuals.

The investigation has been completed, and TVA has determined that the chlorination practices as described in the enclosure to this letter should assure compliance with the discharge limitations for chlorine residual.

If you have any questions concerning this report or need additional information, please let me know.

Sincerely,

Mohamed T. El-Ashry, Ph.D.  
Director of Environmental Quality

cc: Mr. Elmo Lunn, Director  
Division of Water Quality Control  
Tennessee Department of Public Health  
621 Cordell Hull Building  
Nashville, Tennessee 37219

Mr. Jack McCormick, Regional Engineer  
Division of Water Quality Control  
Tennessee Department of Public Health  
2501 Milne Street  
Chattanooga, Tennessee 37406

Mr. Paul Frey  
Environmental Protection Agency  
College Station Road  
Athens, Georgia 30605

Mr. Don Sells, Chief  
Environmental Projects  
Branch No. 2  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

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Attachment

SUMMARY OF CHLORINATION PRACTICES AT SEQUOYAH NUCLEAR PLANT

Condenser Circulating Water System (CCW)

No chlorination.

CCW Cooling Towers

No chlorination.

Essential Raw Cooling Water System (ERCW)

This system will be chlorinated continuously during the entire clam spawning period, usually from late May or early June to late October. When the auxiliary ERCW cooling towers are tested, chlorination will be discontinued and verification of no chlorine residual will be accomplished before the test begins. Also, chlorination will be discontinued if necessary during closed mode operation of the cooling towers in order to be in compliance with the current NPDES permit.

Raw Cooling Water (RCW) System and Raw Service Water (RSW) System

The RCW and RSW systems will be chlorinated continuously for two 3-week periods per year, once at the beginning of the clam spawning season and then again at the end. Continuous treatment during the entire clam spawning period may be required if periodic treatment does not result in effective control. Chlorination of the RCW and RSW systems will be discontinued if necessary during closed mode operation of the cooling towers in order to be in compliance with the current NPDES permit.

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