

TENNESSEE VALLEY AUTHORITY
KNOXVILLE, TENNESSEE 37902

MAY 25 1988

Mr. Philip L. Stewart, Manager
Chattanooga Field Office
Division of Water Pollution Control
2501 Milne Avenue
Chattanooga, Tennessee 37406-3399

Dear Mr. Stewart:

SEQUOYAH NUCLEAR PLANT (SQN) - NPDES PERMIT NO. TN0026450 - USE OF HERBICIDE TO CONTROL AQUATIC WEED GROWTH IN THE DIFFUSER POND

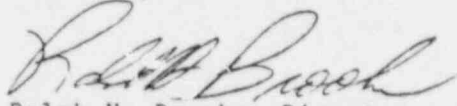
This is notification that TVA intends to use herbicides to control aquatic weed growth in the diffuser pond, yard pond, and low volume waste treatment pond at SQN.

The sudden die-off of mature milfoil plants in the diffuser pond in January 1988 resulted in the partial plugging of the diffusers for several days. To prevent a similar or possibly worse situation in the future, we are planning to apply herbicides (2,4-D and/or Endothall) to the diffuser pond during the spring and summer to control the growth of aquatic weeds. The first treatment is planned for the week of June 6. The pertinent information on these compounds is enclosed. All treatments will be performed by employees in TVA's Vector and Aquatic Plant Management Program who have experience with herbicide application in the TVA reservoir system and are State certified applicators. The herbicide compounds and application techniques will be the same as those used for milfoil control in the reservoir system.

We also anticipate needing to apply these herbicides in the yard pond and low volume waste treatment pond because fairly extensive aquatic weed growth is also occurring in these impoundments.

If your staff has any questions concerning this matter, please have them call Madonna E. Martin at (615) 632-6695 in Knoxville.

Sincerely,


Ralph H. Brooks, Director
Environmental Quality

Enclosure
cc: See page 2

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PDR ADOCK 05000327
P DCD

COOL
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Mr. Philip L. Stewart

MAY 25 1988

cc (Enclosure)

Mr. K. P. Barr, Acting Assistant Director
for Inspection Programs
TVA Projects Division
U.S. Nuclear Regulatory Commission
Region II
101 Marietta Street, NW., Suite 2900
Atlanta, Georgia 30323

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

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

Mr. Ralph N. Sinclair, Manager
Permits Section
Division of Water Pollution Control
Tennessee Department of Health
and Environment
TERRA Building
150 Ninth Avenue, North
Nashville, Tennessee 37219-5404

Mr. G. G. Zech, Assistant Director
for Projects
TVA Projects Division
U.S. Nuclear Regulatory Commission
One White Flint, North
11555 Rockville Pike
Rockville, Maryland 20852

ENCLOSURE

Description of Herbicides

2,4-D

1. General composition: 2,4-D Amine - Dimethyl Amine Salt of 2,4-Dichlorophenoxy acetic acid
or
2,4-D BEE - Butoxyethyl Ester of 2,4-Dichlorophenoxy acetic acid
2. 96-hour median tolerance limit: Not available. Not toxic to aquatic animals at labeled use rate. Some fish mortality at 100 ppm 2,4-D acid.
3. Quantities to be used: Maximum concentration of 2.0 ppm in treated water. Less than 10 percent of the total water volume will be treated.
4. Frequency of use: Maximum of three applications per year - May, July, September.
5. Proposed discharge concentrations: Less than 0.2 ppm.
6. EPA registration numbers:
2,4-D Amine
EPA Reg. No. 264-2AA
EPA Reg. No. 39511-64
EPA Reg. No. 677-296
EPA SLN No. TN81001
EPA Reg. No. 2217-2
2,4-D BEE
EPA Reg. No. 264-109AA

ENDOTHALL

1. General composition: Aquathol-K - Dipotassium Salt of Endothall
Hydrothol 191-Mono (N,N-dimethyl alkylamine) Salt of Endothall
2. 96-hour median tolerance limit: Aquathol K - LC₅₀ (96 hours) 0.06-0.4 ppm for bluegill.
3. Quantities to be used: Maximum of 1.5 ppm endothall acid in treated water. Less than 10 percent of the total water volume will be treated.
4. Frequency of use: Maximum three times per year - May, July, September.
5. Proposed discharge concentrations: Less than 1.5 ppm.
6. EPA registration numbers:
EPA Reg. No. 4581-204 - Aquathol K
EPA Reg. No. 4581-174 - Hydrothol 191
EPA Reg. No. 4581-172 - Hydrothol 191, granular