

September 20, 1994

C.T. Peed  
A.P. Jackson  
J.T. Harris  
W.J. Davis  
G.W. Sain

Subject: Catawba Nuclear Station -NPDES Permit No. SC0004278  
Sodium Bromide Test Approval  
File: CN-702.13

Attached please find SCDHEC's response to our request to extend the timeframe for the Sodium Bromide trial test for use in the cooling towers.

Should you have any questions concerning this letter please give me a call at (704) 875-5965.

Sincerely,



John Estridge  
Environmental Division, Water Protection

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cc: NRC Document Distribution List  
M.A. Lascara

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September 15, 1994

ENVIRONMENTAL PROTECTION SECTION

SEP 20 1994

Mr. John Estridge, P.E.  
Duke Power Company  
Environmental Division, Water Protection  
13339 Hagers Ferry Road  
Huntersville, N.C. 28078-7929

☐ FILE \_\_\_\_\_  
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Re: Sodium Bromide Trial  
Catawba Nuclear Station/Duke Power Co.  
York County

Dear Mr. Estridge:

Our Office has received your September 1, 1994 letter requesting approval to extend the maintenance chemical trial using sodium bromide for control of biological growth in the two (2) recirculating cooling towers systems at the Catawba Nuclear Station in York County. We understand this extension is needed to continue to evaluate the effectiveness of the sodium bromide in conjunction with sodium hypochlorite which is presently used in the cooling towers. Based on a review of the information provided, our Office approves your request with the following conditions:

- 1) This trial extension is approved until December 31, 1994.
- 2) A minimum dilution of one (1) part RC cooling tower blowdown water to two (2) parts once through RL cooling water (1:2) must be maintained.
- 3) During the trial, internal Outfall 005 shall be limited to a monthly average of 0.2 mg/l and a instantaneous maximum of 0.5 mg/l for Free Available Oxidants.
- 4) Before sodium bromide can be used permanently as a maintenance chemical in the cooling towers, the Catawba Nuclear Station NPDES Permit No. SC0004278 will have to be modified to add Free Available Oxidant (FAO) to the permit.

Duke Power Co./September 1, 1994 letter  
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If you should have any questions, please call me at (803)734-5247.

Sincerely,

*Timothy M. Eleazer*

Timothy M. Eleazer  
Environmental Engineer Associate  
Industrial and Agricultural  
Wastewater Division

TME/dukebro

cc: Al Williams, Catawba EQC  
Vernon Beaty, WQ Monitoring Section