

JUL 11 1977

Docket Nos. 50-390
and 50-391

Tennessee Valley Authority
ATTN: Godwin Williams, Jr.
Manager of Power
830 Power Building
Chattanooga, Tennessee 37401

Gentlemen:

Through our interaction with the Environmental Protection Agency on the review of the Operating License Stage application for the Watts Bar Nuclear Plant, Unit Nos. 1 and 2, it has come to our attention that the Watts Bar Steam Plant has been operating at a much higher capacity than anticipated. You indicated in the Final Environmental Statement, Watts Bar Nuclear Plant, Unit Nos. 1, 2, and 3, that the steam plant would be operated at a reduced capacity. Before the nuclear plant goes into operation, the NRC staff must be assured that there are no adverse impacts in the river associated with any effluent interaction between the two plants. For this reason, we are requesting the additional information indicated in the enclosure to this letter. Also, we are asking some additional cost-benefit related questions which require satisfactory responses before we can complete our review.

Please provide your response in six copies (3 signed originals and 3 additional copies) no later than July 27, 1977.

Sincerely,

Original signed by
W. H. Regan

Wm. H. Regan, Jr., Chief
Environmental Projects Branch 2
Division of Site Safety and
Environmental Analysis

Enclosure:
Additional Information

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JUL 11 1977

cc: Herbert S. Sanger, Jr., Esq.
General Counsel
Tennessee Valley Authority
400 Commerce Avenue, E11B33
Knoxville, Tennessee 37902

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REQUEST FOR ADDITIONAL INFORMATION

FOR

WATTS BAR NUCLEAR PLANT, UNIT NOS. 1 AND 2

DOCKET NOS. 50-390 AND 50-391

3. AQUATIC ECOLOGY

- 3.23 Provide information on the discharge mixing zone during full operation of the Fossil Plant.
- 3.24 Describe chemical effluents (amounts and concentrations) discharged by the Fossil Plant.
- 3.25 Describe the intake for the Fossil Plant: location and cooling water requirement for full plant operation.
- 3.26 Provide thermal exposure-transit time history for organism passed through the fossil plant cooling system.
- 3.27 Provide any available information on the attraction of fishes to the Fossil Plant discharge mixing zone during winter months. In reference to question 3.23, would these fish be more susceptible to the Nuclear Plant intake.

4. HYDROLOGY

4.14 Provide the following information on the Watts Bar Steam Plant discharge to enable us to evaluate the interaction of the plume with the one from the Watts Bar Nuclear Plant.

1. Maximum, minimum and average monthly discharge rates and temperatures.
2. Type of discharge (and design details) and exact location.
3. Bathymetry of the Tennessee River between the Steam Plant discharge and the Nuclear plant discharge.

4.15 Provide your evaluation of the effect of the Steam Plant discharge plume on the Nuclear Plant discharge plume.

9. COST-BENEFIT

- 9.1 Provide most recent estimate of annual payroll for each year of construction.
- 9.2 Provide estimate of annual payroll for permanent operating personnel.
- 9.3 Provide estimate of local purchases of materials and services during
 - (a) Construction phase, and
 - (b) Operation.
- 9.4 Table 8.1-1 in the TVA FES-CP for Watts Bar 1 & 2 states that the in lieu of tax payments are \$5,700,000 annually.
 - (a) Update this figure, if necessary.
 - (b) How much of this will accrue to Rhea County?
 - (c) What other countries will receive allocation of these funds and on what basis?