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Docket Nos. 50-438 ✓
 and 50-439 ✓

Tennessee Valley Authority
 ATTN: N. B. Hughes
 Manager of Power
 830 Power Building
 Chattanooga, Tennessee 37401

Gentlemen:

The "Report on Larval Fish Entrainment for the years 1975-1976" is being reviewed by the staff. As a result of our review, we find that the following additional information is required:

1. What percent of the Town Creek Embayment water travels along the backwater region to the intake area? Will this contribution be increased when Bellefonte begins operation?
2. Provide the values for the station weights (W_s) used in the analytical procedures. It is unclear whether gear efficiencies are included within the weight.
3. Provide the densities (total No. of larvae per m^3) for each subarea of the cross-sectional profile for one sample date (e.g., sample period 14 in 1976). This might be presented in the manner of Figure 2 of the referenced report by Marcy. For this example case, demonstrate the analytical method in arriving at the estimated entrainment of total fish larvae (N and %) as presented for that sample period (No. 14) in Table 5.
4. What integration technique is used to obtain estimates of the annual entrainment and river transport?
5. In Figure 3, five of the six comparisons of hydraulic entrainment versus biotic entrainment show the "assumption of equivalence" to be conservative. The exception (bottom middle plot) is of interest because the "assumption" is non-conservative in this one case. Which plant(s) of the six examples, if any, might be considered analogous to the Bellefonte site, intake design, and capacity?

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DATE →	5/22/78	5/22/78	5/22/78	5/22/78	5/22/78

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Tennessee Valley Authority

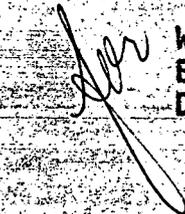
- 2 -

In order to continue our review we will need completely adequate responses to the requested additional information by June 9, 1978. Please verify the June 9, 1978 date within seven days of the receipt of this letter or supply an alternate date so that we can adjust our review schedule, accordingly.

This review is required by Section 3.D.(2) of the conditions specified in the Bellefonte Nuclear Plant construction permit.

Sincerely,

Original signed by
O. D. T. Lynch, Jr.


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

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

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