

Docket Nos. - 50-438
and 50-439

JAN 14 1974

Tennessee Valley Authority
ATTN: James E. Watson
Manager of Power
818 Power Building
Chattanooga, Tennessee 37401

DISTRIBUTION

AEC PDR
Local PDR
Docket File (ENVIRON) 2
L Reading
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S. Sheppard, EP-4
RO (3)
H. Denton, SS
D. Muller, EP
A. Giambusso, RP
W. Paton, OGC
D. Davis, LWR-1
R. DeYoung, LWR-1
P. Gustafson, ANL
K. Hub, ANL (3)
W. Regan, EP-4
G. Dittman, EP-4

Gentlemen:

In order that we may continue our review of your application for the Bellefonte Nuclear Plant Units 1 and 2, additional information is required as discussed below.

The proposed cooling water intake design for the Bellefonte Nuclear Plant which has been discussed with you through two sets of questions (Reference 1 and 2) and a meeting with your staff on November 20, 1973, (Summary enclosed as Enclosure 1) is still considered unsatisfactory from an environmental standpoint. The TVA has considered several alternate cooling-water intake designs, but they were not viable from a plant safety standpoint (i.e., siltation and subsequent blockage) and thus are not real alternatives.

For protection of the biota, water should be taken from a region that has a low density of entrainable organisms, principally fish eggs and larvae, and a low potential for fish congregation and fatigue-producing conditions. Systems that have shoreline and shore-inlet intake locations at Bellefonte do not, in general, meet this criterion as well as ones with deep-water (old river bed) intakes. With a deep-water intake, the staff estimates that the environmental impact could be reduced by at least an order of magnitude.

You are, therefore, requested to provide an analysis of alternate intake locations and designs which minimize the entrainment problem and meet all applicable plant safety criteria as discussed at the November 20, 1973, meeting.

In order to maintain our licensing review schedule, we will need a completely adequate response by February 15, 1974. Please inform us within 7 days after receipt of this letter of your confirmation of the schedule date or the date you will be able to meet.

LB

OFFICE

SURNAME

DATE

Form AEC-31 (Rev. 9-53) AECM 0240

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JAN 14 1974

Please contact us if you have any questions regarding the information requested.

Sincerely,

Original signed by D.E. Sells

Jan
Wm. H. Regan, Jr., Chief
Environmental Projects Branch 4
Directorate of Licensing

References:

1. TVA responses to AEC's comments on Bellefonte DES, dtd 7/12/73, Comments 46-47.
2. Additional TVA Responses to second set of AEC comments on Bellefonte DES, dtd 10/25/73, comment 20.

Enclosure:

Summary of meeting held 11/20/73 to discuss alternate intake designs, dtd 12/5/73.

cc: Mr. R. H. Marquis
General Counsel
629 New Sprankle Building
Knoxville, Tennessee 37902

OFFICE	L:EP	L:EP				
SURNAME	GDittman:pd	WHRegan				
DATE	1/15/74	1/14/74				