

TENNESSEE VALLEY

CHATTANOOGA, TENNESSEE 37401

830 Power Building

REGULATORY DOCKET FILE COPY

May 19, 1978

Mr. Edson G. Case, Acting Director  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Dear Mr. Case:

In the Matter of the Application of ) Docket Nos. 50-390  
Tennessee Valley Authority ) 50-391

Submitted herewith are 41 copies of the following information which responds to questions 2.11 and 3.2 of "Supplement No. 1 Responses to NRC Questions for Operating License Stage Environmental Review - Watts Bar Nuclear Plant."

1. Watts Bar - Volunteer 500-kV Transmission Line - Final historical and archaeological coordination from the Tennessee Historical Commission.
2. Fish success analysis for the Watts Bar Dam tailwater.

As was stated in TVA's supplement No. 1 responses to these two questions, this information was to be submitted at a later date when available.

Very truly yours,

*J. E. Gilleland*

J. E. Gilleland  
Assistant Manager of Power

Subscribed and sworn to before  
me this 19th day of May 1978

*L. Oscar Beaulieu*  
Notary Public

My Commission Expires 10/10/78

Enclosures (41)

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STATE OF TENNESSEE

TENNESSEE HISTORICAL COMMISSION

170 SECOND AVENUE, NORTH  
NASHVILLE, TENNESSEE 37201  
TELEPHONE (615) 741-2371

HERBERT L. HARPER, Executive Director  
State Historic Preservation Officer

June 15, 1977

Mr. Maurice G. Msarsa  
Mapping Services Branch  
TVA  
200 Haney Building  
Chattanooga, TN 37401

Re: Archaeological Survey of Watts Bar - Volunteer 500 kv  
transmission line corridor

Dear Mr. Msarsa:

The State Historic Preservation Officer and his professional staff have reviewed the archaeological consultant report of findings entitled Watts Bar-Volunteer Transmission Line Archaeological Survey by Danny E. Olinger and Archaeological Survey of Part of Corridor for Watts Bar - Volunteer 500 kv Tie Line by James H. Polhemus, and we concur with TVA's determination that no archaeological remains eligible for inclusion in the National Register will be affected. This conclusion is based on information provided by TVA and their stated commitment to avoid the recorded loci of historic and prehistoric activity (letter from M. Msarsa to H. Harper, June 14, 1977).

I would like to stress the importance of TVA's archaeological consultants to record site survey information with the state Division of Archeology so that any sites located through TVA's efforts can be included in the state's inventory of archaeological sites. Future reports submitted to this office should contain state archaeological site numbers rather than provisional numbers whenever possible. Thank you for your cooperation in this matter.

Yours for a better tomorrow,

A handwritten signature in cursive script, reading "Herbert L. Harper".

Herbert L. Harper

HLH:11



STATE OF TENNESSEE

TENNESSEE HISTORICAL COMMISSION

170 SECOND AVENUE, NORTH  
NASHVILLE, TENNESSEE 37201  
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HERBERT L. HARPER, Executive Director  
State Historic Preservation Officer

November 21, 1977

Mr. Robert Roark  
Recreation Planner  
Tennessee Valley Authority  
Norris, Tennessee 37828

Re: Watts Bar-Volunteer 500 kV T.L. (A-6000.1)

Dear Mr. Roark:

This office has reviewed the above project plans and associated information on historic and architectural resources provided by your office. Based on this data, it is our opinion that the undertaking will not affect any historical or architectural properties included in or eligible for inclusion in the National Register of Historic Places.

Thank you for consulting with this office.

Yours for a better tomorrow,

A handwritten signature in cursive script that reads "Herbert L. Harper".

Herbert L. Harper

HLH:11

RAY BLANTON, Governor

B. R. ALLISON, Commissioner of Conservation

HARRY W. WELLFORD, Memphis

RICHARD WEESNER, Nashville

FRANK WINSTON, Bristol  
Vice Chairman

Table 1. Fish harvest in Watts Bar Tailwater, TRM 505.3 to TRM 529.9,  
1032.4 total hours fishing from January 1 to June 30, 1977.

Species	No.	%	Wt. (lbs)	%	Av. Wt. (lb)
White crappie	426	43.1	139.9	30.8	0.33
Black crappie	7	0.7	10.2	2.3	1.46
Largemouth bass	8	0.8	10.2	2.3	1.28
Spotted bass	2	0.2	2.9	0.6	1.45
Smallmouth bass	6	0.6	6.5	1.4	1.08
White bass	26	2.6	20.8	4.6	0.80
Yellow bass	10	1.0	2.8	0.6	0.28
Bluegill	83	8.4	36.3	8.0	0.44
Redear sunfish	14	1.4	4.8	1.1	0.34
Other sunfish	3	0.3	0.8	0.2	0.27
Walleye	1	0.1	0.3	0.1	0.30
Sauger	134	13.6	89.7	19.8	0.67
Channel catfish	184	18.6	75.3	16.6	0.41
Flathead catfish	1	0.1	1.3	0.3	1.30
Blue catfish	21	2.1	24.1	5.3	1.10
Drum	52	5.3	21.7	4.8	0.42
Yellow perch	7	0.7	1.9	0.4	0.27
Rockfish	1	0.1	1.7	0.4	1.7
Paddlefish	1	0.1	1.2	0.3	1.2
Spotted sucker	1	0.1	1.5	0.3	1.5
TOTAL	988		454.1		0.46

Table 2. Sport Fishing Interviews from Watts Bar Tailwater, January 1 to June 30, 1977.

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No. fishermen interviewed	477
Total hours fished	1032.4
Percent successful trips	56%
Average party size	1.7 fishermen
Average length of trip	4.13 hours
No. fish harvested per hour	0.96
Wt. (lbs) fish harvested per hour	0.44

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