## WBN2Public Resource

**From:** Boyd, Desiree L [dlboyd@tva.gov]
**Sent:** Tuesday, February 08, 2011 8:50 AM
**To:** Epperson, Dan; Poole, Justin; Raghavan, Rags; Milano, Patrick; Campbell, Stephen
**Cc:** Crouch, William D; Hamill, Carol L; Boyd, Desiree L; Stockton, Rickey A; Knuettel, Edward Terry
**Subject:** TVA letter to NRC_2-7-11_Hydrothermal Effects on the Ichthyoplankton Report
**Attachments:** 2-7-11_TVA ltr to NRC_Hydrothermal Effects on the Ichthyoplankton Report_Final.pdf

***Please see attached TVA letter that was sent to the NRC today.***

***The enclosures are too large to send by e-mail. For those of you who receive a cc in the mail, the enclosures will be included with your letter.***

***Thank You,***

~*~*~*~*~*~*~*~*~*~*~*~*~*~*~*~*~

Désireé L. Boyd

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**Subject:** TVA letter to NRC_2-7-11_Hydrothermal Effects on the Ichthyoplankton Report
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**Received Date:** 2/8/2011 8:51:00 AM
**From:** Boyd, Desiree L

**Created By:** dlboyd@tva.gov

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February 7, 2011

10 CFR 50.34

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555-0001

Watts Bar Nuclear Plant, Unit 2
NRC Docket No. 50-391

**Subject:** **Submittal of "Hydrothermal Effects on the Ichthyoplankton from the Watts Bar Nuclear Plant Supplemental Condenser Cooling Water Outfall in Upper Chickamauga Reservoir" Report**

Reference: TVA letter dated April 9, 2010, "Watts Bar Nuclear Plant (WBN) Unit 2 - Response to U.S. Nuclear Regulatory Commission (NRC) Request for Additional Information Regarding Environmental Review (TAC No. MD8203)"

The purpose of this letter is to provide a report entitled, "Hydrothermal Effects on the Ichthyoplankton from the Watts Bar Nuclear Plant Supplemental Condenser Cooling Water Outfall in Upper Chickamauga Reservoir," and Appendix A to this report which contains supporting data. As discussed in Reference 1 Question AE-7, TVA is conducting additional preoperational aquatic monitoring during 2010-2011 in the Watts Bar and Chickamauga Reservoirs in the vicinity of Watts Bar Nuclear Plant. The enclosed report presents the results of hydrothermal and larval fish surveys conducted in May and August 2010 in relation to potential effects to ichthyoplankton from exposure to the Supplemental Condenser Cooling Water discharge thermal plume during periods of no generation by Watts Bar Dam.

Enclosure 1 contains the report entitled, "Hydrothermal Effects on the Ichthyoplankton from the Watts Bar Nuclear Plant Supplemental Condenser Cooling Water Outfall in Upper Chickamauga Reservoir." Enclosure 2 contains Appendix A to the report contained in Enclosure 1.

There are no new commitments made in this letter. If you have any questions, please contact William Crouch at (423) 365-2004.

I declare under penalty of perjury that the foregoing is true and correct. Executed on the 7th day of February, 2011.

Respectfully,

Marie Gillman
Watts Bar Unit 2 Vice President, Acting

Enclosures:

1. "Hydrothermal Effects on the Ichthyoplankton from the Watts Bar Nuclear Plant Supplemental Condenser Cooling Water Outfall in Upper Chickamauga Reservoir"

2. Appendix A, "Hydrothermal Effects on the Ichthyoplankton from the Watts Bar Nuclear Plant Supplemental Condenser Cooling Water Outfall in Upper Chickamauga Reservoir"

cc (Enclosures):

U. S. Nuclear Regulatory Commission
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Marquis One Tower
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Atlanta, Georgia 30303-1257

NRC Resident Inspector Unit 2
Watts Bar Nuclear Plant
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bcc (Enclosures):

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**ENCLOSURE 1**

# HYDROTHERMAL EFFECTS ON THE ICHTHYOPLANKTON FROM THE WATTS BAR NUCLEAR PLANT SUPPLEMENTAL CONDENSER COOLING WATER OUTFALL IN UPPER CHICKAMAUGA RESERVOIR

**ENCLOSURE 2**

# APPENDIX A

## HYDROTHERMAL EFFECTS ON THE ICHTHYOPLANKTON FROM THE WATTS BAR NUCLEAR PLANT SUPPLEMENTAL CONDENSER COOLING WATER OUTFALL IN UPPER CHICKAMAUGA RESERVOIR