



Tennessee Valley Authority, 1101 Market Street, LP 5A, Chattanooga, Tennessee 37402-2801

June 11, 2008

10 CFR 52.80

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U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

In the Matter of )  
Tennessee Valley Authority )

Docket Numbers 52-014 and 52-015

NUCLEAR REGULATORY COMMISSION (NRC) – BELLEFONTE NUCLEAR  
PLANT (BLN) – RESPONSE TO NRC INFORMATION NEEDS RELATED TO  
RESERVOIR VITAL SIGNS MONITORING REPORTS AND COAL GASIFICATION  
PROJECT ENVIRONMENTAL IMPACT STATEMENT

Reference: Letter from Ashok Bhatnagar (TVA) to Mr. R. William Borchardt (NRC),  
“Application for Combined License for BLN Units 3 and 4,” dated  
October 30, 2007

The purpose of this letter is to provide responses to three NRC information needs that were identified by the NRC reviewers during the Environmental Report (ER) site audit conducted at the Tennessee Valley Authority (TVA) Bellefonte Nuclear Plant, Units 3 and 4 (BLN) site during the week of March 31 through April 4, 2008. Because the response to these three requests include the submittal of several large reference documents, TVA opted to submit these documents under this combined information needs response letter.

By the referenced letter, TVA submitted an application for a combined license for two AP1000 advanced passive pressurized-water reactors at the BLN site. Included in the review of a combined license application (COLA) is a week-long environmental site audit during which the NRC staff tours the proposed plant site and environs and reviews the applicable documents that support the information provided in the ER. At the April 4, 2008, exit meeting for the BLN site audit, the NRC staff provided a list of information that was determined to be necessary to complete the review of the ER.

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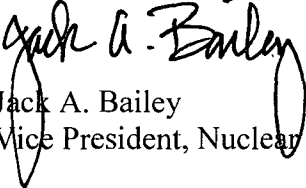
June 11, 2008

This letter provides the TVA response to two information needs related to Aquatic Ecology (AQ), AQ-04 and AQ-30, and one information need related to Alternatives (Alt), Alt-23. The combined response to AQ-04 and AQ-30 in Enclosure 1 includes the submittal of eight reservoir vital signs monitoring reports from 1991 through 2000 (Attachments A through H to Enclosure 1). The response to Alt-23 in Enclosure 2 includes the submittal of a Final Environmental Impact Statement for a Coal Gasification Project on the Murphy Hill site (Attachment A to Enclosure 2). There are no ER changes as a result of the information needs addressed by this letter.

If there are any questions regarding this application, please contact Phillip Ray at 1101 Market Street, LP 5A, Chattanooga, Tennessee 37402-2801, by telephone at (423) 751-7030, or via email at pmray@tva.gov.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on this 11<sup>th</sup> day of June, 2008.



Jack A. Bailey  
Vice President, Nuclear Generation Development

Enclosures and Attachments

See Pages 3 and 4

Enclosure.1: Response to NRC ER Information Needs – Aquatic Ecology (AQ)

Attachments A - H:

- A. Tennessee Valley Authority, Water Resources Division, "Reservoir Vital Signs Monitoring – 1991, Summary of Vital Signs and Use Impairment Monitoring on Tennessee Valley Reservoirs," TVA/WR-92/8, July 1992.
- B. Tennessee Valley Authority, Water Management, "Reservoir Monitoring – 1992, Summary of Vital Signs and Use Suitability Monitoring on Tennessee Valley Reservoirs," August 1993.
- C. Tennessee Valley Authority, Water Management, "Tennessee Valley Reservoir and Stream Quality – 1993, Summary of Vital Signs and Use Suitability Monitoring," Vol. I, May 1994.
- D. Tennessee Valley Authority, Water Management, "Tennessee Valley Reservoir and Stream Quality – 1993, Summary of Vital Signs and Use Suitability Monitoring," Vol. II, May 1994.
- E. Tennessee Valley Authority, Water Management, "Aquatic Ecological Health Determinations for TVA Reservoirs--1994: An Informal Summary of 1994 Vital Signs Monitoring Results and Ecological Health Determination Methods," April 1995.
- F. Tennessee Valley Authority, Water Management, "Aquatic Ecological Health Determinations for TVA Reservoirs--1996: An Informal Summary of 1996 Vital Signs Monitoring Results and Ecological Health Determination Methods," April 1997.
- G. Tennessee Valley Authority, Water Management, "Aquatic Ecological Health Determinations for TVA Reservoirs--1998: An Informal Summary of 1998 Vital Signs Monitoring Results and Ecological Health Determination Methods," August 1999.
- H. Tennessee Valley Authority, Resource Stewardship, "Aquatic Ecological Health Determinations for TVA Reservoirs--2000: An Informal Summary of 2000 Vital Signs Monitoring Results and Ecological Health Determination Methods," September 2001.

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Enclosure 2: Response to NRC ER Information Need – Alternatives (Alt)

Attachment A:

- A. Tennessee Valley Authority, Final Environmental Impact Statement – Coal Gasification Project, July 1981.

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cc (Enclosures and Attachments):

M. A. Hood, NRC/HQ

cc (w/o Enclosures and Attachments):

S.P. Frantz, Morgan Lewis

R.C. Grumbir, NuStart

P.S. Hastings, NuStart

R. H. Kitchen, PGN

M.C. Kray, NuStart

A.M. Monroe, SCE&G

M.C. Nolan, Westinghouse

N.T. Simms, Westinghouse

C.R. Pierce, SNC

L. Reyes, NRC/RII

R. F. Smith-Kevern, DOE/HQ

G.A. Zinke, NuStart