

August 22, 2012

LICENSEE: Tennessee Valley Authority

FACILITY: Bellefonte Nuclear Plant, Unit 1

SUBJECT: SUMMARY OF JULY 26, 2012, MEETING WITH TENNESSEE VALLEY  
AUTHORITY REGARDING BELLEFONTE NUCLEAR PLANT, UNIT 1

On July 26, 2012, a Category 1 public meeting was held between the U.S. Nuclear Regulatory Commission (NRC) and representatives of the Tennessee Valley Authority (TVA) at NRC Headquarters, One White Flint North, 11555 Rockville Pike, Rockville, Maryland. The purpose of this meeting was to discuss:

- Comments on the Bellefonte Nuclear Plant (BLN), Unit 1, Quality Verification Program (QVP) as described in NRC letter dated July 13, 2012, and
- Regulatory framework regarding site seismology.

A list of participants is included in the Enclosure.

By letter dated June 7, 2012 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML12164A783), TVA submitted the revised QVP. The NRC staff reviewed the document and provided comments in a letter to TVA dated July 13, 2012 (ADAMS Accession No. ML12185A242). The majority of QVP discussion was related to these NRC comments.

TVA provided a presentation (ADAMS Accession No. ML12209A313) summarizing the strategy to address the potential issues resulting from the Investment Recovery activities, as well as the temporary suspension of the quality assurance program and preservation activities. The NRC staff provided the opportunity to clarify the comments sent to TVA in the July 13, 2012, letter. TVA stated that they understood the comments provided by the NRC staff and acknowledged that most can be addressed by updating the QVP with additional clarification and detail. TVA stated the target date to send in the new revision to the QVP was August 31, 2012.

The NRC staff indicated the next step in the review process, upon receiving the revised QVP, will be technical requests for additional information.

The second part of the meeting focused on the regulatory framework regarding site seismology. TVA provided a presentation (ADAMS Accession No. ML12209A310) summarizing the BLN original (1974) design basis, evolving seismic information, TVA's seismic studies and regulatory framework, planned action, anticipated future seismic challenges, and proposed path forward.

Since the original design basis and construction, based on Regulatory Guide 1.60 "Design Response Spectra for Seismic Design of Nuclear Power Plants," and the analytical methodology in the early 1970's, more recent seismic studies identified a shift in frequency and peak ground acceleration from the original assumptions. TVA initiated and planned actions to accommodate the seismic update, such as: soil and rock boring near safety related structures to validate geophysical information, developing new 3-D finite element dynamic analysis models, and studies to refine analytical techniques and criteria, etc.

As for a path forward, TVA proposed the following additional interactions with the NRC staff:

- |  |             |
|--|-------------|
| • Ground motion estimates              | End of 2012 |
| • Dynamic analysis building models     | Spring 2013 |
| • Piping analysis criteria and methods | Summer 2013 |
| • Equipment qualification criteria     | 2014        |

The NRC staff indicated the regulatory framework needs to be developed in light of the date of the original construction permit application. In addition, because of limited technical resources for competing operating reactor tasks, TVA needs to meet the requested review schedule or will be at risk of missing available review windows.

Members of the public were in attendance via telephone. Public Meeting Feedback forms were not received.

Please direct any inquiries to me at 301-415-2048

*/ra/*

Justin C. Poole, Senior Project Manager  
Watts Bar Special Projects Branch  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket No. 50-438

Enclosure:  
List of Attendees

cc w/encl: See next page



Tennessee Valley Authority

cc:

Mr. K. D. Stinson  
Vice President, Bellefonte Project  
Tennessee Valley Authority  
2744 Bellefonte Road, OSB-1A  
Hollywood, Alabama 35752

Mr. P. C. Gaillard  
Senior Manager, Bellefonte Nuclear  
Plant Units 1 and 2 Licensing  
Tennessee Valley Authority  
2744 Bellefonte Road, OSB-1A  
Hollywood, Alabama 35752

Mr. P. D. Swafford  
Chief Nuclear Officer and  
Executive Vice President  
Tennessee Valley Authority  
1101 Market Street  
Lookout Place 3R  
Chattanooga, TN 37402-2801

Mr. J. W. Shea  
Vice President (Acting), Nuclear Licensing  
Tennessee Valley Authority  
1101 Market Street  
Lookout Place 3R  
Chattanooga, TN 37402-2801

Mr. D. C. Romashko  
Senior Manager, Quality Assurance  
Tennessee Valley Authority  
Bellefonte Nuclear Plant  
2744 Bellefonte Road, OSB-1A  
Hollywood, Alabama 35752

Mr. E. J. Vigluicci  
Assistant General Counsel  
Tennessee Valley Authority  
400 West Summit Hill Drive  
West Tower 6A  
Knoxville, TN 37902

## **BELLEFONTE NUCLEAR PLANT**

State Health Officer  
Alabama Dept. of Public Health  
P.O. Box 303017  
Montgomery, AL 36130-3017

Chairman  
Jackson County Commission  
Courthouse  
Scottsboro, AL 35752-0200

Director  
Alabama Emergency Management Agency  
P.O. Drawer 2160  
Clanton, AL 35045-5160

### MEETING ATTENDANCE LIST

**Licensee:** Tennessee Valley Authority

**Plant(s):** Bellefonte Unit 1

**Subject:** Review Comments on QVP

**Date:** July 26, 2012

Regulatory Framework on Seismology

**Location:** NRC Headquarters, Room O-9B6

**Time:** 8:30 a.m. – 3:30 pm

NAME	TITLE	ORGANIZATION
George Wilson	Branch Chief	NRR\ DORL\ Watts Bar Special Projects Branch
Robert Haag	Branch Chief	R-II\Division of Construction Projects\Branch 3
Patrick Milano	Sr. Project Manager	NRR\DORL\ Watts Bar Special Projects Branch
Christopher Even	Sr. Project Engineer	R-II\Division of Construction Projects\Branch 3
Gordon Arent	Manager, Licensing, Watts Bar Unit 2	TVA
Peter Gaillard	Sr. Manager, Licensing, Bellefonte	TVA
Walter Justice	Sr. Manager, Engineering, Bellefonte	TVA
Mark Burzynski	Bellefonte Engineering	TVA
Rick Cutsinger	Bellefonte Engineering	TVA

Enclosure

NAME	TITLE	ORGANIZATION
Andy Hon	Project Manager	NRR\DORL\Watts Bar Special Projects Branch
Zachary Patterson	Licensing Engineer, Bellefonte	TVA
William Freebairn	Senior Editor	Platts Nuclear Publications
John Lockaby	Civil Engineering Manager	TVA
Marty Bryon	Licensing Manager	AREVA
Nilesh Chokshi	Deputy Director	NRO\DSEA
Rebecca Karas	Branch Chief	NRO\DSEA\RG1
Kamal Manoly	Senior Tech Advisor	NRR/DE
Yong Li	Seismologist	NRR\DE\EMEB
Martin Murphy	Branch Chief	NRR\DE\EMEB