



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

August 6, 2008

10 CFR 52.79

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

In the Matter of )  
Tennessee Valley Authority )

Docket No. 52-014 and 52-015

BELLEFONTE COMBINED LICENSE APPLICATION – RESPONSE TO REQUEST FOR  
ADDITIONAL INFORMATION – FIRE PROTECTION PROGRAM

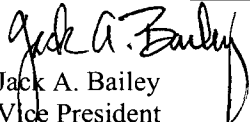
- Reference:
- 1) Letter from Tanya Simms (NRC) to Andrea L. Sterdis (TVA), Request for Additional Information Letter No. 056 Related to SRP Section 09.05.01 for the Bellefonte Units 3 and 4 Combined License Application, dated June 30, 2008
  - 2) Letter from Andrea L. Sterdis (TVA) to Tanya Simms (NRC), Response to Request for Additional Information Letter No. 040 Related to SRP Section 09.05.01 for the Bellefonte Units 3 and 4 Combined License Application, dated July 16, 2008

This letter provides the Tennessee Valley Authority's (TVA) response to the Nuclear Regulatory Commission's (NRC) request for additional information (RAI) items included in the reference letter (Reference 1). The letter from Sterdis (TVA) to Simms (NRC) (Reference 2) dated July 16, 2008, is noted in the enclosure to this letter.

A response to the NRC request in the subject letter is addressed in the enclosure which does not identify any associated changes to be made in a future revision of the BLN application.

If you should have any questions, please contact Phillip Ray at 1101 Market Street, LP5A, 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 6<sup>th</sup> day of Aug, 2008.

  
Jack A. Bailey  
Vice President  
Nuclear Generation Development

Enclosure  
cc: See Page 2

A006  
DOBS  
NRC

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cc: (Enclosures)

- E. Cummins, Westinghouse
- S. P. Frantz, Morgan Lewis
- M. Gettler, FP&L
- R. C. Grumbir, NuStart
- P. S. Hastings, NuStart
- P. Hinnenkamp, Entergy
- M.C. Kray, NuStart
- D. Lindgren, Westinghouse
- G. D. Miller, PG&N
- M.C. Nolan, Duke Energy
- N. T. Simms, Duke Energy
- T. Simms, NRC/HQ
- G. A. Zinke, NuStart

cc: (w/o Enclosure)

- B. Anderson, NRC/HQ
- M.M. Comar, NRC/HQ
- B. Hughes, NRC/HQ
- R. G. Joshi, NRC/HQ
- R. H. Kitchen, PGN
- M.C. Kray, NuStart
- A. M. Monroe, SCE&G
- C. R. Pierce, SNC
- R. Register, DOE/PM
- L. Reyes, NRC/RII
- J. M. Sebrosky, NRC/HQ

Enclosure  
TVA letter dated August 6, 2008  
RAI Response

Response to NRC Request for Additional Information letter No. 056 dated June 30, 2008  
(2 pages, including this list)

Subject: Fire Protection Program Communication System in the Final Safety Analysis Report

<u>RAI Number</u>	<u>Date of TVA Response</u>
09.05.01-12	This letter – see following pages

<u>Associated Additional Attachments / Enclosures</u>	<u>Pages Included</u>
None	

Enclosure  
TVA letter dated August 6, 2008  
RAI Response

**NRC Letter Dated: June 30, 2008**

**NRC Review of Final Safety Analysis Report**

**NRC RAI NUMBER: 09.05.01-12**

RG 1.189, Regulatory Position 4.1.7 states that the fire brigade should be provided with a portable radio communications system. The regulatory guide also states that this radio system should not interfere with the security communications system, should have fixed repeaters installed, be protected from fire damage, and should have preoperational and periodic testing to demonstrate that the frequencies used will not affect the actuation of protective relays. However, the Bellefonte COLA contains no reference or requirement or description concerning the fire brigade radio communication system as described above. The applicant should describe the program that ensures the fire brigade portable communication system will be installed and operated in accordance with the parameters described above (i.e., provide adequate repeaters to prevent communication dead-zones, and demonstrate that the fire brigade radio frequencies do not interfere with any other radio or electronic systems by preventing the fire brigade radios from functioning properly and by causing other plant systems from functioning properly).

**BLN RAI ID: 617**

**BLN RESPONSE:**

As noted in the response to RAI Letter 40 (Reference 2) the fire brigade communicates during fire emergencies via the subsystems listed in DCD Subsection 9.5.2, Communication Systems. The wireless telephone system is credited as the portable system. DCD Section 9.5.2.2.1 specifies that the wireless telephone system includes a comprehensive antenna (repeater) system. DCD, Tier 1, Subsection 2.3.19 provides verification that the communications systems described in DCD Subsection 9.5.2 are installed. Preoperational testing is addressed in DCD Subsection 14.2.9.4.13 and includes testing that verifies that transmitters and receivers operate without excessive interference. Periodic testing is accomplished by performance of multiple fire brigade drills (at least one per quarter for each shift fire brigade), performed at different locations and different times to verify, in part, the proper operation of fire brigade equipment including communications systems, and that communications may be readily established from different locations inside and outside the plant. Having multiple antennas (repeaters) throughout the plant and multiple methods (subsystems) of communication helps protect the radio system and the overall ability to communicate if individual repeaters are damaged from fire. FSAR Section 9.5.1.8 addresses the Fire Protection Program and discusses implementation of required elements.

This response is expected to be STANDARD for the S-COLAs.

**ASSOCIATED BLN COL APPLICATION REVISIONS:**

No COLA revisions have been identified associated with this response.

**ASSOCIATED ATTACHMENTS/ENCLOSURES:**

None