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

July 23, 2008

10 CFR 52.79

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

In the Matter of) Docket No. 52-014 and 52-015
Tennessee Valley Authority)

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

Reference: Letter from Tanya Simms (NRC) to Andrea L. Sterdis (TVA), Request for Additional Information Letter No. 055 Related to SRP Section 09.05.01 for the Bellefonte Units 3 and 4 Combined License Application, dated June 30, 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.

A response to each NRC request in the subject letter is addressed in the enclosure which also identifies any associated changes that will 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 23rd day of July, 2008.

Jack A. Bailey,
Vice President,
Nuclear Generation Development

Enclosure
cc: See Page 2

D085
A006
NRO

cc: (Enclosures)

E. Cummins, Westinghouse
S. P. Frantz, Morgan Lewis
M.W 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 July 23, 2008
RAI Responses

Responses to NRC Request for Additional Information letter No. 055 dated June 30, 2008
(2 pages, including this list)

Subject: Fire Protection Program – Fire Water Tank Makeup in the Final Safety Analysis Report

RAI Number	Date of TVA Response
09.05.01-08	This letter – see following pages

Attachments / Enclosures	Pages Included
None	

Enclosure
TVA letter dated July 23, 2008
RAI Responses

NRC Letter Dated: Jun 30, 2008

NRC Review of Final Safety Analysis Report

NRC RAI NUMBER: 09.05.01-08

RG 1.206, Regulatory Position C.III.1, Section C.I.9.5.1.1 identifies that the applicant should provide site specific information on the fire water supply system. RG 1.189 states that fire water supply should be filtered and treated as necessary to prevent or control bio-fouling or microbiologically-induced corrosion of the fire water system. Since the Bellefonte COLA identifies filtered raw water from the Tennessee River as the secondary water source for the fire water system, the applicant should describe the program to monitor and maintain an acceptable level of quality of the fire water sources.

BLN RAI ID: 0621

BLN RESPONSE:

As described in FSAR Subsection 9.2.11, the normal source of makeup water to the fire water tanks is from the local municipal water supply. The backup supply of makeup water to the fire water tanks is from the ancillary raw water pumps. Municipal water is filtered and treated prior to site use to prevent and control bio-fouling and microbiologically-induced corrosion. The ancillary raw water pumps provide filtered, but untreated river water. Sampling will be required if river water is added to the fire water tanks. Appropriate actions such as chemical treatment or system flushing will be taken to prevent or control bio-fouling and microbiologically-induced corrosion of the fire water system. Makeup from the river water source is administratively controlled. FSAR Subsection 9.5.1.2.1.3 will be revised to add this requirement.

This response is PLANT-SPECIFIC.

ASSOCIATED BLN COL APPLICATION REVISIONS:

COLA Part 2, FSAR, Chapter 9, Subsection 9.5.1.2.1.3 will be revised to add the following as the second paragraph:

BLN SUP 9.5-2 The fire water tanks are sampled if river water is used as makeup to the fire water tanks. Appropriate actions such as chemical treatment or system flushing are taken to prevent or control bio-fouling and microbiologically-induced corrosion of the fire water system.

ATTACHMENTS/ENCLOSURES:

None