PMBelCOL PEmails

From: Spink, Thomas E [tespink@tva.gov]
Sent: Tuesday, June 09, 2009 8:06 AM
To: Sebrosky, Joseph
Cc: EDDIE GRANT; Sterdis, Andrea Lynn; Ryan, William T III
Subject: Courtesy Email Copy - Response to RAI Letter 158 Supplement 1
Attachments: BLN RAI Response to RAI Letter 158 Supp 1 06 05 09 1715 final.pdf

Joe,

I have enclosed a PDF copy of our Response to RAI Letter 158 Supplement 1 with this email as a courtesy. As always, the official submittal has been submitted to the Document Control Desk via paper copy using Federal Express services. The paper copy should arrive on June 9, 2009.

If you have any questions, please do not hesitate to call me.

Thomas E. Spink
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Nuclear Generation Development
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Chattanooga, TN 37402
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From: Spink, Thomas E

Created By: tespink@tva.gov

Recipients:
"EDDIE GRANT" <erg-xl@cox.net>
Tracking Status: None
"Sterdis, Andrea Lynn" <alsterdis@tva.gov>
Tracking Status: None
"Ryan, William T III" <wtryan@tva.gov>
Tracking Status: None
"Sebrosky, Joseph" <Joseph.Sebrosky@nrc.gov>
Tracking Status: None

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MESSAGE	540	6/9/2009 8:06:14 AM	
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Recipients Received:

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

June 08, 2009

10 CFR 52.79

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
One White Flint North
11555 Rockville Pike
Rockville, MD 20852-2738

In the Matter of)
Tennessee Valley Authority)

Docket No. 52-014 and 52-015

BELLEFONTE UNITS 3 AND 4, COMBINED LICENSE APPLICATION - RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION - HYDROLOGY PROBABLE MAXIMUM FLOOD LEVEL CALCULATIONS

References: (1) Letter from Joseph Sebrosky (NRC) to Andrea Sterdis (TVA), Request for Additional Information Letter No. 158 Related to SRP Section 2.4.3 for the Bellefonte Units 3 and 4 Combined License Application, dated May 12, 2009.

(2) Letter from Andrea L. Sterdis (TVA) to Document Control Desk (NRC) Bellefonte Units 3 and 4, COLA-Response to Request for Additional Information (RAI) - Hydrology Probable Maximum Flood Level Calculations, dated May 15, 2009.

This letter provides the Tennessee Valley Authority's (TVA) supplemental response to the Nuclear Regulatory Commission's (NRC) request for additional information (RAI) items included in Reference 1. This response supplements TVA's previous response provided in Reference 2.

If you should have any questions, please contact Tom Ryan at 1101 Market Street, LP5A, Chattanooga, Tennessee 37402-2801, by telephone at (423) 751-2596, or via email at wtryan@tva.gov.

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

Executed on this 8th day of Jun, 2009.

Andrea L. Sterdis
Manager, New Nuclear Licensing and Industry Affairs
Nuclear Generation Development & Construction

Enclosure
cc: See Page 3

cc: (w/ Enclosures)
J. P. Berger, EDF
J. M. Sebrosky, NRC/HQ
E. Cummins, Westinghouse
S. P. Frantz, Morgan Lewis
M. W. Gettler, FP&L
R. 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
K. N. Slays, NuStart
G. A. Zinke, NuStart

cc: (w/o Enclosure)
B. C. Anderson, NRC/HQ
M. M. Comar, NRC/HQ
B. Hughes/NRC/HQ
R. G. Joshi, NRC/HQ
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M. C. Kray, NuStart
A. M. Monroe, SCE&G
C. R. Pierce, SNC
R. Reister, DOE/PM
L. Reyes, NRC/RII
T. Simms, NRC/HQ
L. Raghavan, NRC/HQ
T. Boyce, NRC/HQ

Enclosure
TVA letter dated June 08, 2009
RAI Response

Responses to NRC Request for Additional Information letter No. 158 dated May 12, 2009
(3 pages, including this list)

Subject: Request for Additional Information Letter No. 158 Related to SRP Section 2.4.3 for the Bellefonte Units 3 and 4 Combined License Application

RAI Number	Date of TVA Response
02.04.03-08	May 15, 2009; Supplemented by this letter – see following pages

Associated Additional Attachments / Enclosures	Pages Included
Attachment 02.04.03-08A	2 Pages

NRC Letter Dated: May 12, 2009

NRC Review of Final Safety Analysis Report

NRC RAI NUMBER: 02.04.03-08

TVA presents calculation of the probable maximum flood (PMF) height at the Bellefonte COL Site in Section 2.4.3 of the FSAR. These calculations address regulatory requirements associated with General Design Criterion 2 and 10 CFR 100.20(c). TVA has continued to develop its analysis since the FSAR was submitted, and has developed additional calculation packages/documents associated with computation of the PMF height. The specifics of this analysis were discussed during a March 30, 2009 public meeting held at NRC Headquarters (see ML091180052 and ML0911204490). The NRC staff requests that TVA provide the following input deliverables:

(a) V&V Docs (16 docs; April 2009)(1)
(b) UH Calcs – Rev 0 (17 calcs; April 2009)
(c) UH Calcs – Rev 1 (5 calcs; June 2009)
(d) Dam Rating Curves (20 calcs; March 2009)
(e) SOCH Calibrations (6 calcs; July 2009)
(f) Other Input Calcs (3 calcs; April 2009)

The titles of these input deliverables follow the naming convention used by TVA on Slide 10 of its March 30, 2009 presentation (see ML091180052). The number of calculations/documents and the anticipated TVA completion date are shown in parenthesis. This information also originates from Slide 10 of the presentation.

Enclosure
(1) TVA can provide the information in item (a) above on the docket or provide the information in reading rooms to which NRC and its' contractors have access.

BLN RAI ID: 2778

BLN RESPONSE:

As reported in the TVA response letter Reference 2, TVA has provided BLN Hydrology Calculation DVD's with the following information in support of the information requested in the associated RAI request. The information that was submitted was:

1. 12 V&V Documents
2. 16 UH Calculations Rev 0
3. 0 UH Calculations Rev 1
4. 20 Dam Rating Curves
5. 0 SOCH Calibrations
6. 2 Input Calculations (Reservoir Storage Table and 1997-2008 Precipitation Data).

In support of the information requested, TVA is providing the enclosed BLN Hydrology data DVD with the following supplemental information:

1. 4 V&V Documents
2. 1 UH Calculation Rev 0

The actual calculations being submitted on DVD media are shown in Attachment 02.04.03-08A. Additional calculations will be submitted as they are completed and approved.

The following provides an updated status reflecting the cumulative list of documents and calculations submitted to date, as well as, the schedule for the remaining submittals.

1.	16 V&V Documents	Complete
2.	17 UH Calculations Rev 0	Complete
3.	5 UH Calculations Rev 1	July 24, 2009
4.	20 Dam Rating Curves	Complete
5.	6 SOCH Calibrations	August 17, 2009
6.	1 Input Calculations*	July 7, 2009
7.	2 Additional Input Calculations*	July 7, 2009.

*Remaining Input Calculations include: Precipitation Data (1973 Storm), Rain Runoff Index and Operating Guidelines.

This response is PLANT-SPECIFIC.

ASSOCIATED BLN COL APPLICATION REVISIONS:

None

ASSOCIATED ATTACHMENTS/ENCLOSURES:

Attachment 02.04.03-08A: BLN Hydrology Project Calculation List Supplement 1

ASSOCIATED ATTACHMENTS/ENCLOSURES:

Attachment 02.04.03-08A: BLN Hydrology Project Calculation List Supplement 1

(2 Pages including Cover Sheet)

RAI 02.04.03-8

Supplement 1

SOCH Software Documentation

TABLE 1 - Data on DVD-004

Title	Rev.	EDMS No.
SOCH Version 1 SDD 28May09.pdf	0	L58 090528 003
SOCH Version 1 SRS 28 may09.pdf	0	L58 090528 001
SOCH Version 1 SVVR 28May09.pdf	0	L58 090528 004
SOCH Version 1 Users Manual 28May09.pdf	0	L58 090528 002

RAI 02.04.03-8

Supplement 1

Unit Hydrograph Calculation

TABLE 2 - Data on DVD-004

Title	Rev.	EDMS No.
Calc CDQ000020080059_Subbasins 49 50_Rev 0_03Jun09.pdf	0	L58 090603 002