

PMBelCOL PEmails

From: Ryan, William T III [wtryan@tva.gov]
Sent: Monday, July 27, 2009 11:50 AM
To: Sebrosky, Joseph
Cc: Sterdis, Andrea Lynn; Eddie.Grant@excelservices.com; Spink, Thomas E
Subject: Courtesy Copy BLN RAI Letter 158 S3 (07-27-09)
Attachments: BLN RAI Response to RAI Letter 158 Supp 3 07 23 09 1335 final.pdf

Joe,

I have enclosed a PDF copy of our Response to RAI Letter 158 Supplement 3 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 28, 2009.

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

Tom Ryan

w(423)751-2596
alt(423)751-6518

Hearing Identifier: Bellefonte_COL_Public_EX
Email Number: 1607

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Subject: Courtesy Copy BLN RAI Letter 158 S3 (07-27-09)
Sent Date: 7/27/2009 11:50:03 AM
Received Date: 7/27/2009 11:50:50 AM
From: Ryan, William T III

Created By: wtryan@tva.gov

Recipients:

"Sterdis, Andrea Lynn" <alsterdis@tva.gov>

Tracking Status: None

"Eddie.Grant@excelservices.com" <Eddie.Grant@excelservices.com>

Tracking Status: None

"Spink, Thomas E" <tespink@tva.gov>

Tracking Status: None

"Sebrosky, Joseph" <Joseph.Sebrosky@nrc.gov>

Tracking Status: None

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Options

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Recipients Received:



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

July 27, 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 July 2,
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 27th day of July, 2009.

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

Document Control Desk
Page 2
July 27, 2009

Enclosure
cc: See Page 3

Document Control Desk
Page 3
July 27, 2009

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
R. H. Kitchen, PGN
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 July 27, 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

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

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

Enclosure
TVA letter dated July 27, 2009
RAI Response

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).

Enclosure
TVA letter dated July 27, 2009
RAI Response

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

1. 5 UH Calculations Rev 1.

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 | Complete |
| 4. 20 Dam Rating Curves | Complete |
| 5. 6 SOCH Calibrations | August 17, 2009 |
| 6. 1 Input Calculations | Complete |
| 7. 2 Additional Input Calculations | Complete |

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 3

ASSOCIATED ATTACHMENTS/ENCLOSURES:

Attachment 02.04.03-08A: BLN Hydrology Project Calculation List Supplement 3

(2 Pages including Cover Sheet)

RAI 02.04.03-8
Supplement 3
SOCH Software Documentation

TABLE 1 - Data on DVD-006

TABLE 1 - Data on DVD-006		
Calc CDQ000020080060_Rev 1_10Jul09.pdf	1	L58 090710 002
Calc CDQ000020080064_Rev 1_09Jul09.pdf	1	L58 090709 004
Calc CDQ000020080065_Rev 1_09Jul09.pdf	1	L58 090709 003
Calc CDQ000020080068_Rev 1_10Jul09.pdf	1	L58 090710 001
Calc CDQ000020080069_Rev 1_22Jul09.pdf	1	L58 090722 001