BellBendCOLPEm Resource

From: Canova, Michael
Sent: Thursday, August 27, 2009 6:59 AM
To: Sgarro, Rocco R; j freels
Cc: BellBendCOL Resource
Subject: FW: RAI #23, 2.4.8-1, parts 2 and 4
Attachments: RAI2.4.8-1.doc; PPL_Letter_2009-123.pdf; BNP-2009-216.pdf

I've not researched this myself. Can you identify if Chris's assumption below is correct?

Thanks,

Mike

From: Cook, Christopher
Sent: Wednesday, August 12, 2009 1:23 PM
To: Terry Johnson; Caverly, Jill; Canova, Michael
Subject: RAI #23, 2.4.8-1, parts 2 and 4

Ted, Jill, and Mike,
RAI 2.4.8-1 (attached) has 4 parts: a, 2, 3, 4. On June 17, PPL sent in letter BNP-2009-123 (attached), which addressed parts (a) and (3).

I have gone thru the recent submittals and cannot find any mention of 2.4.8-1 parts 2 and 4.

I would thought parts 2 and 4 would have been discussed in BNP-2009-216. In that letter it states that a response is not possible now, but a schedule will be provided by August 24. My guess is that PPL left 2.4.8-1(2) and (4) off of the list.

Please confirm the above is you understanding as well. Thanks in advance,
Chris

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Subject: FW: RAI #23, 2.4.8-1, parts 2 and 4
Sent Date: 8/27/2009 6:59:12 AM
Received Date: 8/27/2009 6:59:15 AM
From: Canova, Michael

Created By: Michael.Canova@nrc.gov

Recipients:
"BellBendCOL Resource" <BellBendCOL.Resource@nrc.gov>
Tracking Status: None
"Sgarro, Rocco R" <rrsgarro@pplweb.com>
Tracking Status: None
"j freels" <jimfreels525@yahoo.com>
Tracking Status: None

Post Office: HQCLSTR01.nrc.gov

Files	**Size**	**Date & Time**
MESSAGE	1288	8/27/2009 6:59:15 AM
RAI2.4.8-1.doc	29690	
PPL_Letter_2009-123.pdf	437243	
BNP-2009-216.pdf	571608	

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Request for Additional Information No. 2853 Revision 0

6/2/2009

Bell Bend
PPL Bell Bend LLC.
Docket No. 52-039
SRP Section: 02.04.08 - Cooling Water Canals and Reservoirs
Application Section: Chapter 2.4.08

QUESTIONS for Hydrologic Engineering Branch (RHEB)

02.04.08-1

In accordance with the requirements of 10 CFR 100.20(c)(2), and 10 CFR 52.79(a)(1)(iii), the staff reviewed the Final Safety Analysis Report (FSAR), Chapter 2.4.8, Cooling Water Canals and Reservoirs. Staff's review of the information provided on the design of the hydraulic structures and the capacity of the Essential Service Water Emergency Makeup System (ESWEMS) pond indicates that additional information and detailed drawings are needed to provide the technical bases for the adequacy of the design. Additional information should include the following:

(a) detailed drawings, to include Drawing 161642-1EMS-S1102 Rev 1, and also additional drawings showing configurations of the spillway crest , spillway chute, and transition areas from the chute to the drainage channel;

(2) calculation packages that include computations for spillway discharge, computations for spillway chute velocities, the basis for the design of the erosion protection where the chute transitions to the drainage channel, and the basis for the design of the "curb" that will be used to dissipate energy;

(3) calculation packages associated with the computation of seepage, specifically "ESWEMS Retention Pond Sizing, Project 161642," dated June 26, 2008 which includes information on the permeability of the pond liner as discussed in ITAAC Table 2.4-3, Part 10; and

(4) additional information concerning the quality assurance and quality control procedures that will be used for the construction of the riprap layers used to protect the slopes of the ESWEMS pond, including information which documents the riprap layer thickness, average and minimum D_{50}, cross-sections, specifications, and placement procedures.

R. R. Sgarro
Manager-Nuclear Regulatory Affairs

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June 17, 2009

ATTN: Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

BELL BEND NUCLEAR POWER PLANT
SUBMITTAL OF ADDITIONAL INFORMATION
BNP-2009-123 Docket No. 52-039

The purpose of this letter is to provide calculation packages and a site drawing that were reviewed by the NRC staff during the Hydrology Audit conducted for the Bell Bend Nuclear Power Plant (BBNPP) in May 2008 and were identified in the respective draft Requests for Additional Information.

The calculation packages and provided drawing are:

1. Low Flow Recurrence Interval and Low Flow Statistics, Rizzo and Associates, dated March 31, 2008 – (Draft Request for Information No. 16 (RAI No. 16) - RHEB-2856, Question 02.04.11-1)
2. ESWEMS Retention Pond Sizing, Project 161642, Black and Veatch, dated June 26, 2008 – (Draft Request for Information No. 16 (RAI No. 16) - RHEB-2856, Question 02.04.11-1 and Draft Request for Information No. 23 (RAI No. 23) – RHEB - 2853, Question 02.04.08-1(3))
3. Plant Arrangement ESWEMS Pond Section and Details Drawing 161642-1EMS-S1102, Revision 1, Project 161642, Black and Veatch, Issue Date May 28, 2009 – (Draft Request for Information No. 23 (RAI No. 23) – RHEB -2853, Question 02.04.08-1 (a))

If you have any questions or need additional information, please contact the undersigned at 570.802.8102.

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

Executed on June 17, 2009

Respectfully,

Rocco R. Sgarro

Rocco R. Sgarro

Enclosures: As stated

RRS/jf

D079
NRO

cc: (w/o Enclosures)

Mr. Samuel J. Collins
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Mr. Michael Canova
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Enclosure 1

Calculation and Drawing CD

R. R. Sgarro
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August 10, 2009

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BELL BEND NUCLEAR POWER PLANT
REQUEST FOR EXTENSION FOR RAI SETS 18, 24 AND 25 (QUESTION 2)
BNP-2009-216 Docket No. 52-039

References:

1) M. Canova (NRC) to R. Sgarro (PPL Bell Bend, LLC), Bell Bend COLA – Request for Information No. 18 (RAI No. 18) – RHEB -2842, e-mail dated July 10, 2009

2) M. Canova (NRC) to R. Sgarro (PPL Bell Bend, LLC), Bell Bend COLA – Request for Information No. 24 (RAI No. 24) – RHEB -2854, e-mail dated July 10, 2009

3) M. Canova (NRC) to R. Sgarro (PPL Bell Bend, LLC), Bell Bend COLA – Request for Information No. 25 (RAI No. 25) – RHEB -2852, e-mail dated July 10, 2009

4) BNP-2009-164, R. Sgarro (PPL Bell Bend, LLC) to U.S. Nuclear Regulatory Commission, "Response to RAI No. 25 Question 1", dated July 30, 2009

The purpose of this letter is to respond to the request for additional information (RAI) identified in the referenced NRC correspondence to PPL Bell Bend, LLC (PPL) (References 1, 2, 3). These RAIs address Floods, Channel Diversions and Ice Effects as discussed in Chapter 2 of the Final Safety Analysis Report (FSAR) and submitted in Part 2 of the Bell Bend Nuclear Power Plant Combined License Application (COLA).

The questions contained in the referenced correspondence (References 1, 2, 3: Questions 02.04.02-1, 02.04.09-1 and 02.04.07-1) requested additional information related to site drainage, probable maximum flood magnitudes, ponding levels and associated calculations, potential for landslides or ice blockages along Walker Run and potential ice blockage for other site-specific drainage features. In order to provide responses to these questions, additional refined conceptual design will be required for the BBNPP site regarding site features and Walker Run.

PPL, working with UniStar, has recently decided to move forward with an alternative stormwater management (SWM) design in response to feedback from the staff, Army Corps of Engineers, and PA Department of Environmental Protection. The revised design will enhance SWM while reducing both construction and permanent impacts to wetlands. As a result, Walker Run will no longer be relocated as currently described in the BBNPP COLA. PPL and UniStar are currently

working on the implementation schedule for these changes, and PPL will provide firm schedules for responses to these RAIs by August 24, 2009.

The response to RAI No. 25 Question 1 was previously provided to the NRC in Reference 4.

If you have any questions, please contact the undersigned at 570.802.8102.

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

Executed on August 10, 2009

Respectfully,

Rocco R. Sgarro

RRS/kw

cc: (w/o Enclosures)

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