

August 7, 2013

APPLICANT: PPL Bell Bend LLC

PROJECT: Bell Bend Nuclear Power Plant

SUBJECT: SUMMARY OF JULY 11, 2012, PUBLIC MEETING WITH PPL BELL BEND, LLC, REGARDING CHANGES AFFECTING SITE GEOTECHNICAL AND SEISMIC DESIGN OF THE PPL BELL BEND COMBINED LICENSE APPLICATION

On July 11, 2012, a Category 1 Public meeting was held between the U.S. Nuclear Regulatory Commission (NRC) staff and representatives of PPL Bell Bend LLC. The meeting was held at the Headquarters building of the U. S Nuclear Regulatory Commission (NRC) at 11545 Rockville Pike, Rockville, MD. The purpose of this meeting was to convey to the NRC staff information regarding the substantive changes currently being made to the applicant's Combined License Application (COLA) in the areas of Geotechnical and seismic design. The meeting notice with the agenda can be found in the Agencywide Documents Access and Management System (ADAMS) Accession No. ML121790465. The agenda included designated times for public interactions with the staff. Enclosure 1 lists the meeting attendees.

The meeting started at 8:35 A.M. (Eastern Time) and was facilitated by Michael Miernicki, Project Manager for Licensing Branch 1 of the Division of New Reactor Licensing (DNRL).

After the opening remarks and introductions of the attendees, meeting ground rules and logistics were announced and the agenda items were briefly reviewed. No members of the public were identified as present either in the room or on the conference call line.

PPL Bell Bend. LLC made, and the staff addressed comments to, a slide presentation titled "Bell Bend Nuclear Power Plant, NRC/PPL Public Meeting to discuss Civil/Seismic Plan," which can be viewed in ADAMS as Accession No. ML121930519.

The Agenda for this presentation as shown on slide 2 was as follows

- *Introductions and Purpose*
- *Site Geotechnical and Dynamic Attributes Post Relocation*
- *Plan Progress and Results to Date*
- *Overview of Vendor To-Go Activities*
- *Overview of Access Building and Turbine Island Settlement and Stability Approach*
- *Schedule, Including Request For Additional Information (RAI) and Final Safety Analyses Report (FSAR) Submittal Milestones*
- *Q&A*

As identified on slide 3, the purpose of the presentation was to communicate PPL's plan for civil and seismic documentation completion, including necessary reconciliation to the in-progress U.S. EPR Design Certification (DC).

Slides 5 and 6 presented the revised site plan as well as the reasoning and environmental impacts as the basis for the powerblock relocation.

Slides 7 through 11 addressed subsurface conditions. The high-level post-relocation site subsurface condition investigation and results were described as well as the updates to the Uniform Hazard Response Spectra (UHRS) and the new Central and Eastern United States (CEUS) seismic source model. The NRC staff cautioned that the basis for the results provided in this presentation will need to be part of the new docketed materials in order for the staff to fully evaluate and document their conclusion on this information.

Foundation interfaces, shear wave velocity profile under the nuclear island, and settlement were presented on slides 12 through 20. The NRC staff commented that the basis for how lateral and vertical uniformity was established across the site, and how the engineered fill used to address the imbedded structure analysis was factored into the analysis would need to be documented for evaluation.

Slides 21 through 30 addressed the revised Ground Motion Response Spectra (GMRS), Foundation Input Response Spectra (FIRS) and Safe Shutdown Earthquake (SSE). After discussion the first follow-up item was identified (see below).

The graphs in slides 24, 27, 29, and 30 indicate exceedances from the U.S. EPR design certification (DC) requirements. Since the U.S. EPR DC provides the methodology for reconciling these exceedances, PPL proposes to follow that method to complete that effort. An overview of this anticipated reconciliation approach was presented in slides 26, 31, and 32. The second follow-up item on this approach was identified (see below).

The path forward activities and schedule were presented from slide 33 onward. Section 2.5, "Basic Geologic and Seismic Information" is scheduled for complete submission by the end of December, 2012. Following that effort, Sections 3.7 and 3.8 are scheduled for complete submission by mid-September 2013. Some Request for Additional Information (RAI) responses in Section 3.8 will be available in January 2013. The NRC staff will need to assess PPL's Final Safety Analysis Report (FSAR) updates and RAI responses to determine if additional interactions with the applicant are warranted to ensure quality submissions.

The NRC staff anticipates that some pre-submittal meetings and/or conference calls may occur prior to the formal submittal. Those interactions will be scheduled once the applicant can provide reliable identification of submittal and supporting material availability. This constitutes follow-up item No. 3.

Path Forward: The NRC staff will find it necessary to re-establish manpower availability as well as resource requirements once the revised materials are received by the agency. An estimated project schedule will be developed around these critical path areas of review.

FOLLOW-UP ITEMS

1. The NRC staff took as a follow-up item, to determine whether exceedance of a DC requirement, which can be reconciled in the approved method, still constitutes a departure from the DC.
2. Future interactions with the staff: prior to documentation a submittal for future staff interaction will need to be assessed for manpower allocation and scheduling.
3. At the closure of the meeting, the applicant committed to including the following items in its December 2012 submittal of Section 2.5:
 - a. The redefined location of the GMRS and associated analyses, so that the GMRS location is consistent with the guidance in Interim Staff Guidance (ISG) DC/COL-ISG-017 (ADAMS Accession No ML100570203)
 - b. Incorporation of the latest site-specific geotechnical field investigation results post-relocation of the powerblock
 - c. Thorough review and necessary corrections to Section 2.5 figures, tables, and references

At the 10:15 A.M. break and at the conclusion of the meeting, there were no members of the public that responded to a query for public comments or questions. The meeting officially closed at 11:15 A.M., Eastern Time.

Questions regarding this meeting can be directed to Michael A. Canova at 301-415-0737 or via email at Michael.Canova@nrc.gov or alternatively to Michael Miernicki at 301-415-2304 or via email at michael.miernicki@nrc.gov.

Sincerely,

/RA/

David H. Jaffe, Senior Project Manager
Licensing Branch 1
Division of New Reactor Licensing
Office of New Reactors

Docket No.: 52-039

Enclosure: List of Attendees

cc: See next page

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Sincerely,

/RA/

David H Jaffe, Senior Project Manager
 Licensing Branch 1
 Division of New Reactor Licensing
 Office of New Reactors

Docket No.: 52-039

Enclosure: List of Attendees

cc: See next page

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ADAMS ACCESSION Number:

ML122340773 (Pkg)

ML122340549 Meeting Summary)

ML121930519 (Slides)

NRO-002

OFFICE	DNRL/LB1: PM	DNRL/LB1: PM	DNRL/LB1: LA
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DATE	10/26/2012	11/07/2012	11/08/2012
OFFICE	DNRL/LB1: BC	DNRL/LB1: PM	
NAME	JSegala	DJaffe	
DATE	08/07/2013	08/07/2013	

MEETING WITH PPL BELL BEND LLC TO DISCUSS
 CHANGES AFFECTING SITE GEOTECHNICAL AND SEISMIC DESIGN FOR
 THE BELL BEND NUCLEAR POWER PLANT COLA
 July 11, 2012

Attendance List

	Name	Affiliation
1	Rocky Sgarro	PPL Bell Bend LLC
2	Mike Caverly	PPL Bell Bend LLC
3	George Kuczinski	PPL Bell Bend LLC
4	John Paul Guinta	Rizzo Assoc
5	Richard Quittmeyer	Rizzo Assoc
6	Antonio Fernandez	UniStar Nuclear
7	Jim Ransom	AREVA NP
8	Calin Wong	AREVA NP
9	Mike Canova	NRC/NRO/DNRL
10	Michael Miernicki	NRC/NRO/DNRL
11	David Jaffe	NRC/NRO/DNRL
12	Phyllis Clark	NRC/NRO/DNRL (via telcon)
14	Stephanie Devlin	NRC/NRO/DSEA/RGS2
14	Alice Stieve	NRC/NRO/DSEA/RGS2
15	Weijun Wang	NRC/NRO/DSEA/RGS2
16	Rebecca Karas	NRC/NRO/DSEA/RGS1
17	Meralis Plaza-Toledo	NRC/NRO/DSEA/RGS1
18	Gerry Stirewalt	NRC/NRO/DSEA/RGS2
19	David Jeng	NRC/NRO/DE/SEB2
20	Jim Xu	NRC/NRO/DE/SEB2
21	Brian Thomas	NRC/NRO/DE/SEB1
22	Sunwoo Park	NRC/NRO/DE/SEB1
23	David Foster	Numark (SEB2 Support)

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(Revised 08/14/2012)

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