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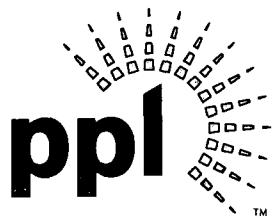

June 29, 2009

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

BELL BEND NUCLEAR POWER PLANT
SUBMITTAL OF ADDITIONAL INFORMATION
RELATED TO SITE-SPECIFIC GROUND MOTION
RESPONSE SPECTRA
BNP-2009-133 Docket No. 52-039

The purpose of this letter is to provide the staff with information related to the use of Bell Bend site-specific Ground Motion Response Spectra (GMRS) information in the BBNPP COLA and additional evaluations performed by AREVA as discussed at the June 2, 2009 U.S EPR Design Center Working Group (DCWG) Meeting. When preparing the BBNPP COLA, the BBNPP site-specific GMRS was determined to be outside the envelope of the U.S. EPR Final Safety Analysis Report (FSAR) values. Therefore, site-specific analyses were performed to demonstrate the acceptability of the seismically-induced responses for safety-related structures at BBNPP. The results of these site-specific reconciliations and analyses are provided in various sections of the BBNPP COLA.

AREVA has subsequently evaluated the U.S. EPR GMRS and determined that it can be expanded to encompass the site-specific GMRS at BBNPP. AREVA will incorporate the new analysis in a future revision to the U.S.EPR FSAR. BBNPP will then incorporate the U.S.EPR GMRS by reference in the BBNPP COLA.

The sections of the BBNPP COLA that reflect the use of the BBNPP site-specific GMRS which will be changed at a later date include:

Part 2, FSAR:
Section:

- 1.8.2, Departures
- Table 2.0-1, U.S. EPR Site Design Envelope Comparison - Seismology
- 2.5.2.6, Ground Motion Response Spectra
- 3.7.1.1, Design Ground Motion
- 3.7.2, Seismic System Analysis
- 3.8.1.3, Concrete Containment – Loads and Load Combinations
- 3.8.3.3, Concrete and Steel Internal Structures of Concrete Containments – Loads and Load Combinations
- 3.8.4.3, Other Seismic Category I Structures – Loads and Load Combinations
- 3.8.5.5, Structural Acceptance Criteria
- 3.10, Seismic and Dynamic Qualification of Mechanical and Electrical Equipment
- 3.10.1.4, Input Motion

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- Appendix 3C, Reactor Coolant System Structural Analysis Methods
- Appendix 3D, Methodology for Qualifying Safety-Related Electrical and Mechanical Equipment
- Appendix 3E, Critical Sections for Safety-related Category 1 Structures
- 19.1.5.1.2.4, Key Assumptions and Insights

Part 7, Departures and Exemption Requests

Section:

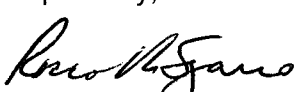
- 1.1.6, Response to Safe Shutdown Earthquake (SSE)
- 1.1.7, In-Structure Response Spectra (ISRS)
- 1.1.8, Idealized Site Soil Profiles
- 1.2.5, Safe Shutdown Earthquake

As discussed at the referenced DCWG meeting, the staff review related only to the use of the site-specific BBNPP GMRS in the identified Sections of the BBNPP COLA can be deferred in anticipation of the changes described above.

There are no new regulatory commitments created by this letter.

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

Respectfully,



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RRS/kf

cc: (w/o Enclosures)

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