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February 15, 2012

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

BELL BEND NUCLEAR POWER PLANT
RESPONSE TO RAI NO. 112
BNP-2012-048 Docket No. 52-039

Reference: M. Canova (NRC) to R. Sgarro (PPL Bell Bend, LLC), Bell Bend COLA – Request for Information No. 112 (RAI No. 117) – RSAC-5962, email dated January 20, 2012

The purpose of this letter is to respond to the request for additional information (RAI) identified in the referenced correspondence to PPL Bell Bend, LLC (PPL). This RAI addresses the Evaluation of Potential Accidents as discussed in Section 2.2.3 of the Final Safety Analysis Report (FSAR), as submitted in Part 2 of the Bell Bend Nuclear Power Plant Combined License Application (COLA)

The enclosure provides our response to RAI No. 112, which includes revised COLA content. The revised COLA content will be included in a future revision of the BBNPP COLA. The future revision of the COLA is the only new regulatory commitment in this letter.

Should you have questions, please contact the undersigned at 610.774.7552.

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

Respectfully,

Rocco R. Sgarro

RRS/kw

Enclosure: As stated

D102
NRO

cc: (w/ Enclosure)

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(w/o Enclosure)

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Enclosure

Response to NRC Request for Additional Information No. 112
Bell Bend Nuclear Power Plant

Question 02.02.03-11

RG 1.206 provides guidance regarding the information that is needed to ensure potential hazards in the site vicinity are identified and evaluated to meet the sitting criteria in 10 CFR 100.20 and 10 CFR 100.21. In an October 12, 2010 letter, the COL applicant addressed the COL FSAR changes due to BBNPP Plot Plan Changes and provided COL FSAR version Rev.2a. The revised FSAR identified and described an additional facility in Section 2.2.2.2.5, the UGIES Hunlock Propane Air Plant, consisting of eighteen 90,000 gallon tanks of propane onsite, at a distance of 9.2 miles northeast of BBNPP. The potential hazards due to this facility have not been evaluated and addressed in the "Evaluation of Potential Accidents" in COL FSAR Section 2.2.3. Please provide an evaluation addressing the potential hazards from this newly identified facility within 10 miles of BBNPP.

Response:

The Analysis of Off-Site Hazards Near Bell Bend Nuclear Power Plant, Calculation 2008-09750 (Rev. 3, dated 8/26/2010), discusses the impact of the UGIES Hunlock Propane Air Plant's proximity to the proposed Bell Bend Nuclear Power Plant site. Per Regulatory Guide 1.78, Section C1.1, "Chemicals stored or situated at distances greater than 5 miles from the plant need not be considered..." The calculation determines that the permanent storage tanks need not be considered in the analysis per Regulatory Guide 1.78, but that the transportation of propane to the site is a potential hazard. The calculation, therefore, postulates a truck carrying 80,000 lbs of propane on Rt. 11. The calculation shows that neither propane tankers nor this propane facility pose a threat to BBNPP or the Main Control Room operators by either explosion or hazardous levels of vapor.

COLA Impact

FSAR Section 2.2.3 will not be revised based on this RAI response. FSAR Section 2.2.3 documents the facilities that contain hazards to the BBNPP site. The Hunlock facility is not a direct hazard to the site based on the response above. The BBNPP FSAR Section 2.2.2.2.5 will be revised as follows:

2.2.2.2.5 UGIES Hunlock Propane Air Plant

The UGIES Propane Air Plant is located approximately 9.2 mi (14.8 km) northeast of the BBNPP site. This facility stores eighteen, 90,000 gallon tanks of propane onsite. The facility is not a direct hazard to BBNPP, consistent with the guidance in Regulatory Guide 1.78, Section C1.1, "Chemicals stored or situated at distances greater than 5 miles from the plant need not be considered because, if a release occurs at such a distance, atmospheric dispersion will dilute and disperse the incoming plume to such a degree that either toxic limits will never be reached or there would be sufficient time for the control room operators to take appropriate action." The propane is delivered by transport which average about 9,800 gallons (41,160 pounds) each. Delivery is sporadic throughout the year but primarily occurs in the sSpring. Full transports deliver propane to the facility via Rt. 11 North from I-80.