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January 4, 2010

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

BELL BEND NUCLEAR POWER PLANT
RESPONSE TO RAI No. 56
BNP-2009-369 Docket No. 52-039

References: 1) M. Canova (NRC) to R. Sgarro (PPL Bell Bend, LLC), Bell Bend COLA – Request for Information No. 56 (RAI No. 56) – SPCV-3622, email dated December 7, 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. This RAI addresses Habitability System, as discussed in Section 6.4 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. 56, Question 06.04-1, including revised COLA content. A Licensing Basis Document Change Request has been initiated to incorporate this change in a future revision of the COLA. This future revision of the COLA is the only new regulatory commitment.

Should you have 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 January 4, 2010

Respectfully,

Rocco R. Sgarro

RRS/kw

Enclosure: As stated

D079
NRO

cc: (w/o Enclosures)

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Enclosure 1

Response to NRC Request for Additional Information No. 56
Bell Bend Nuclear Power Plant

Question 06.04-1

The level of detail provided in FSAR Section 6.4.3 is not adequate to determine if the regulatory requirements are met. Provide in the FSAR the essential elements of the training and procedures necessary to demonstrate that the regulatory requirements of general design criteria (GDC) 19 are met. Specifically, what will the operator be directed and trained to do to meet the recommendations in RG 1.196. The staff requests that in responding and revising the FSAR the applicant should demonstrate consistency with the following regulatory positions, or justify alternatives:

- Regulatory Position C.5, "Emergency Planning" of Regulatory Guide 1.78
- Regulatory Position 2.5, "Hazardous Chemicals" of RG 1.196
- Regulatory Position 2.2.1, "Comparison of System Design, Configuration, and Operation with the Licensing Basis" of RG 1.196; and
- Regulatory Position 2.7.1 Periodic Evaluations and Maintenance of RG 1.196.

Include a discussion of what operators will be directed to do when they smell toxic gas or are notified by external sources that there was a toxic gas release. Include a discussion of any arrangements that will be in place for notifying the control room when a release has occurred.

Response:

The Bell Bend Nuclear Power Plant COLA will be revised to include additional details of operator's actions and training during toxic gas release scenarios.

COLA Impact

The Bell Bend Nuclear Power Plant COLA will be changed as shown.

6.4.3 SYSTEM OPERATIONAL PROCEDURES

The U.S. EPR FSAR includes the following COL Item in Section 6.4.3:
A COL applicant that references the U.S. EPR design certification will provide written emergency planning and procedures in the event of a radiological or hazardous chemical release within or near the plant, and will provide training of control room personnel.

This COL Item is addressed as follows:

{PPL Bell Bend, LLC} shall provide written emergency planning and procedures for use in the event of a radiological or hazardous chemical release within or near the plant, and will provide training of control room personnel, prior to receipt of fuel onsite at {BBNPP}.

<u>{Operational procedures will be developed which direct the operating staff to verify control room envelope isolation upon receipt of a high radiation signal in the air intakes or a primary containment isolation signal, to ensure the system is automatically switched so that the intake is routed through the emergency filtration system. The procedures will direct operating staff to isolate the control room envelope when toxic gas release is detected or reported and to don appropriate respiratory protection equipment if odor indicates toxic gas has entered the Control Room envelope.</u>

The Bell Bend operating staff will be trained in olfactory methods to detect ammonium hydroxide and natural gas (methane) and in the donning and use of respiratory protection equipment. Operating staff and casualty responders will be trained on toxic gas detection instrumentation and techniques and will have periodic training on procedures for control room evacuation and use of respiratory protection equipment according to RG 1.78 (NRC, 2001), Regulatory Positions C.4 and C.5.

Bell Bend staff will survey the surrounding area for mobile and stationary toxic chemicals triennially and will perform annual surveys of onsite toxic chemicals according to RG 1.196 (NRC, 2007), Regulatory Position C.2.5.

The Bell Bend configuration management program and operating procedures will ensure the Control Room HVAC system is constructed and operated as designed according to RG 1.196 (NRC, 2007), Regulatory Positions C.2.2 and C.2.7.}

6.4.7 REFERENCES

{**NRC, 2007**. Control Room Habitability at Light-Water Nuclear Power Reactors, Regulatory Guide 1.196, Revision 1, U.S. Nuclear Regulatory Commission, January 2007.}