

Greg Gibson  
Vice President, Regulatory Affairs

750 East Pratt Street, Suite 1600  
Baltimore, Maryland 21202



10 CFR 50.4  
10 CFR 52.79

May 8, 2009

UN#09-213

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

Subject: UniStar Nuclear Energy, NRC Docket No. 52-016  
Response to Request for Additional Information for the  
Calvert Cliffs Nuclear Power Plant, Unit 3,  
RAI No. 88, Question 01-3, Inservice Inspection

- References:
- 1) John Rycyna (NRC) to Robert Poche (UniStar Nuclear Energy), "RAI No. 88 CIB1 1924.doc (PUBLIC)" email dated March 24, 2009
  - 2) UniStar Nuclear Energy Letter UN#09-206, from Greg Gibson to Document Control Desk, U.S. NRC, Submittal of Response to RAI No. 88, Inservice Inspection, dated April 21, 2009

The purpose of this letter is to respond to the request for additional information (RAI) identified in the NRC e-mail correspondence to UniStar Nuclear Energy, dated March 24, 2009 (Reference 1). This RAI addresses Inservice Inspection, as discussed in Section 6.6 of the Final Safety Analysis Report (FSAR), as submitted in Part 2 of the Calvert Cliffs Nuclear Power Plant (CCNPP) Unit 3 Combined License Application (COLA), Revision 4.

In the UniStar Nuclear Energy letter (Reference 2) it was stated that a response to RAI No. 88, Question 01-3 would be provided by May 8, 2009. The enclosure provides our response to RAI No. 88, Question 01-3. COLA impacts associated with this RAI response are noted with the question response.

DO916  
KRO

UN#09-213  
May 8, 2009  
Page 2

A Licensing Basis Document Change Request has been initiated to incorporate these changes into a future revision of the COLA. Our response to Question 01-3 does not include any new regulatory commitments.

If there are any questions regarding this transmittal, please contact me at (410) 470-4205, or Mr. Michael J. Yox at (410) 495-2436.

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

Executed on May 8, 2009



Greg Gibson

Enclosure: Response to NRC Request for Additional Information, RAI No. 88,  
Question 01-3, Inservice Inspection, Calvert Cliffs Nuclear Power Plant, Unit 3

cc: John Rycyna, NRC Project Manager, U.S. EPR COL Application  
Laura Quinn, NRC Environmental Project Manager, U.S. EPR COL Application  
Getachew Tesfaye, NRC Project Manager, U.S. EPR DC Application (w/o enclosure)  
Loren Plisco, Deputy Regional Administrator, NRC Region II (w/o enclosure)  
Silas Kennedy, U.S. NRC Resident Inspector, CCNPP, Units 1 and 2  
U.S. NRC Region I Office

GTG/RDS/jmm

UN#09-213

**Enclosure**

**Response to NRC Request for Additional Information  
RAI No. 88, Question 01-3, Inservice Inspection  
Calvert Cliffs Nuclear Power Plant, Unit 3**

**RAI No. 88**

**Question 01-3**

CCNPP3 FSAR Section 6.6, Table 6.6-1 was submitted for the ASME Class 3 Site-Specific UHS Makeup Water System. The staff notes that Table 6.6-1 differs from Table IWD-2500-1, Examination Category D-A, in the 2004 Edition of the ASME Operation and Maintenance Code, specifically by excluding areas such as Examination Requirements/Fig. No., Acceptance Standard, Frequency or Notes. Since CCNPP3 FSAR Section 6.6 states that Class 2 and 3 components will meet the requirements of the 2004 Edition of the ASME Boiler and Pressure Vessel Code, Section XI and that no relief requests or alternatives are required, please revise Table 6.6-1 to include all of the information listed under Table IWD-2500-1 for Examination Category D-A items or justify an alternative.

**Response**

Calvert Cliffs Nuclear Power Plant Unit 3 COLA, Part 2, FSAR Sections 6.6.1, 6.6.4, and 6.6.9, and FSAR Table 6.6-1 will be revised to reflect the incorporation by reference of U.S. EPR FSAR Sections 6.6.1 and 6.6.4 with no departures or supplements. Additional information with regard to the U.S. EPR FSAR can be obtained through requests made to the U.S. EPR Design Certification applicant.

**COLA Impact**

FSAR Table 6.6-1 will be deleted and FSAR Sections 6.6.1, 6.6.4, and 6.6.9 will be updated as follows in a future COLA revision:

**6.6.1 COMPONENTS SUBJECT TO EXAMINATION**

~~{Preservice and inservice inspection of site specific Class 3 UHS Makeup Water System components are conducted in accordance with the ASME OM Code, 2004 Edition (ASME, 2004b). The site specific UHS Makeup Water System components are identified in Table 6.6-1.} {No departures or supplements.}~~

**6.6.4 INSPECTION INTERVALS**

~~{The inspection intervals for site specific UHS Makeup Water System components are defined by the ASME Code examination categories identified in Table 6.6-1.} {No departures or supplements.}~~

**6.6.9 REFERENCES**

~~{ASME, 2004a. ASME Boiler and Pressure Vessel Code, Section XI, 2004 Edition, American Society of Mechanical Engineers, Inc., 2004.~~

~~ASME, 2004b. Code for Operation and Maintenance of Nuclear Power Plants, ASME OM Code, 2004 Edition, American Society of Mechanical Engineers, Inc., 2004.~~

Draft Request for Additional Information No. 2562  
4/28/2009

Callaway Unit 2  
AmerenUE  
Docket No. 52-037  
SRP Section: 08.03.01 - AC Power Systems (Onsite)  
Application Section: 8.03.01

QUESTIONS for Electrical Engineering Branch (EEB)

08.03.01-1

Section 8.3.1.1, Description:

This section indicates that the Figures 8.3-1 through 8.3-4 provide the site-specific modifications. The drawings are not provided with modification highlights with addition/deletion from EPR standard design. Identify the modifications by highlighting with cloud or notation of revision for clarity. Also the connection symbols for circuits continuation are not consistent (example - the sheet number annotated as NPSS01 or 12UPS01 are not found).

Correct the switchyard voltage to site-specific 345 kV in EPSS single line, where it is shown as 500 kV. Indicate switchyard voltage as 345 kV in all other places in lieu of "site-specific."

Provide revised corrected drawings.

08.03.01-2

Section 8.3.1.1.3, Electric Circuit Protection: This section states that there are no departures or supplements. Confirm that Degraded Voltage Protection (DVP) Scheme will be specified and a site-specific calculation will be performed to confirm the design and identify this site-specific information in FSAR Section 8.3.1.1.3 as a supplemental information item. Callaway Unit 2 Technical Specification Section 3.3.1 Table 2 (Items 10.a and 10.b on page 5 of 6) provides site-specific DVP setpoints and time delays for Emergency Diesel generator (EDG) start on Degraded Grid Voltage and on Loss of Offsite Power (LOOP).

Provide details how the DVP setpoints range and time delays were selected, describe how these (setpoints and time delays) are consistent with Branch Technical position (BTP 8-6), and justify any inconsistencies with BTP 8-6 or industry for instrument setpoint determination.

Also explain whether the above trip setpoints should be set differently when the alternate feed is established for the duration of an EDG being inoperable (i.e., 120 days).

08.03.01-3

Figure 8.3-1, EPSS Single Line Diagram, contains a typographical error. Figure 8.3-1 shows two 30BDT02 transformers (EATs). Applicant needs to correct Figure 8.3-1 to show one as 30BDT01 and the other as 30BDT02.

#### 08.03.01-4

##### Section 8.3.1.1.8, Raceway and Cable Routing:

This section identifies the safety related distribution system for the Essential Service Water Emergency Makeup System (ESWEMS) and the pumphouse electrical building. However, site-specific details for the raceway and cable routing are not addressed. Applicant should confirm that the US EPR FSAR (DCD) is incorporated by reference for the raceway & cable routing design such as load group segregation and other design aspects for the ESWEMS electrical power distribution system and electrical equipment building.

#### 08.03.01-5

##### Section 8.3.1.3, Electrical Power System Calculation and Distribution System Studies for AC system:

Confirm that electrical power system calculation and studies for this site will envelop the site-specific systems such as ESWEMS with safety related equipment to analyze the AC distribution system.