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10 CFR 50.4
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May 27, 2010

UN#10-142

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. 235, Process and Effluent Radiological Monitoring Instrumentation and
Sampling Systems

Reference: Surinder Arora (NRC) to Robert Poche (UniStar Nuclear Energy), "FINAL RAI
No. 235 CHPB 4546," email dated April 30, 2010

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 April 30, 2010 (Reference). This RAI addresses the Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems, and the Operating Organization, as discussed in Sections 13.1.2 and 11.5.2, respectively, 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 6.

The enclosure provides our response to RAI No. 235, Question 11.05-2, and includes revised COLA content. A Licensing Basis Document Change Request has been initiated to incorporate these changes into a future revision of the COLA.

Our response does not include any new regulatory commitments. This letter does not contain any sensitive or proprietary information.

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If there are any questions regarding this transmittal, please contact me at (410) 470-4205, or Mr. Wayne A. Massie at (410) 470-5503.

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

Executed on May 27, 2010

A handwritten signature in black ink, appearing to read 'Greg Gibson', with a long horizontal flourish extending to the right.

Greg Gibson

Enclosure: Response to NRC Request for Additional Information RAI No. 235, Question 11.05-2, Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems, Calvert Cliffs Nuclear Power Plant, Unit 3

cc: Surinder Arora, NRC Project Manager, U.S. EPR Projects Branch
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

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Enclosure

**Response to NRC Request for Additional Information
RAI No. 235, Question 11.05-2, Process and Effluent
Radiological Monitoring Instrumentation and Sampling Systems
Calvert Cliffs Nuclear Power Plant, Unit 3**

RAI No. 235

Question 11.05-2

Supplemental RAI on UniStar's responses to prior staff RAI 208, Q13.01.02 - 13.01.03-11 and RAI 207, Q11.05-1.

CCNPP3 responses to RAI 208, Q13.01.02 - 13.01.03-11 (March 9, 2010) and RAI 207, Q11.05-1 (March 4, 2010) jointly propose revisions to FSAR Section 13.1.2.2.1.1.3 in describing the functions of the Radiation Protection/Chemistry Manager. The suggested revisions of the manager's functions described under the first bullet are inconsistent, as they relate to duties associated with the control and monitoring of liquid and gaseous effluents. The applicant is requested to reconcile the description of functions listed under the first bullet between the two RAI responses and proposed revisions to the FSAR.

Response

The changes to the descriptions of the Radiation Protection/Chemistry Manager's duties, as provided in the responses to RAI No. 207, Question 11.05-1¹ and RAI No. 208, Questions 13.01.02-13.01.03-11², are being combined. The previous changes are reconciled as shown below.

COLA Impact

FSAR Section 13.1.2.2.1.1.3 is being updated as follows:

13.1.2.2.1.1.3 Radiation Protection/Chemistry Manager

The Radiation Protection/Chemistry Manager reports to the Plant General Manager and is responsible for providing for the radiological health and safety of plant personnel (including maintaining plant staff dose as low as reasonably achievable in accordance with Chapter 12) and members of the public. The Radiation Protection/Chemistry Manager is also responsible for managing the radioactive waste programs and for the implementation of the plant chemistry and non-radiological environmental monitoring programs. The Radiation Protection/Chemistry Manager functions as the Radiation Protection Manager (RPM), when designated.

Radiation Protection/Chemistry Manager duties include:

- Implementation of radiation protection and plant ALARA programs and procedures, radiation protection program and procedures, radioactive liquid and gaseous effluent releases and associated offsite doses management program and procedures, offsite dose calculation manual and procedures, radiological effluent technical specifications/standard radiological effluent controls program and procedures;
- Provision of radiological and chemistry input into work and design planning;
- Tracking, analysis, and correction of trends in radiation work performance;

¹ Letter from Greg Gibson (UniStar Nuclear Energy) to NRC Document Control Desk, RAI No. 207, Process and Effluent Radiological Monitoring Instrumentation and Sampling Systems, dated March 4, 2010

² Letter from Greg Gibson (UniStar Nuclear Energy) to NRC Document Control Desk, RAI No. 208, Operating Organization, dated March 9, 2010

- Scheduling and conduct of radiological surveys, contamination sample collection, and determining contamination levels;
- Assignment of work restrictions through radiation work permits;
- Maintenance of required records in accordance with federal and state codes; ~~and~~
- Maintenance of primary and secondary plant chemistry in accordance with established program requirements;
- Implementation of programs and controls for processing solid radioactive wastes (process control program); and
- Implementation of the radiological environmental monitoring program.