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10 CFR 50.4
10 CFR 52.79

March 12, 2010

UN#10-069

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

Subject: UniStar Nuclear Energy, NRC Docket No. 52-016
Calvert Cliffs Nuclear Power Plant, Unit 3,
Materials Reliability Program for Reactor Internals

Reference: Getachew Tesfaye (NRC) to AREVA NP (AREVA), "U.S. EPR Design
Certification Application RAI No. 344 (4062), FSAR Ch. 4 OPEN ITEM," email
dated February 23, 2010

The purpose of this letter is to provide supplemental information regarding the materials reliability program for reactor internals as it applies to Calvert Cliffs Nuclear Power Plant (CCNPP) Unit 3. In U.S. EPR RAI 344, Question 04.03-27 (Reference), AREVA NP Inc. was requested to provide a COL Item to address plant specific surveillance of the reactor internals. AREVA has communicated to UniStar Nuclear Energy on a preliminary basis that they intend to respond to this RAI question by supplementing existing U.S. EPR FSAR, Tier 2, COL Item 3.9-2 to add a requirement that the COL applicant will address the results and conclusions from the reactor internals material reliability programs applicable to the U.S. EPR reactor internals with regard to known aging degradation mechanisms such as irradiation-assisted stress corrosion cracking or void swelling.

At such time that it is incorporated and reflected in the U.S. EPR FSAR, applicable parts of the combined license application for CCNPP Unit 3 will be updated to include this additional requirement.

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

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 March 12, 2010

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

Greg Gibson

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

GTG/RJP/mdf