

March 04, 2011

Mr. George Vanderheyden  
President and CEO  
UniStar Nuclear Energy  
150 East Pratt Street  
Suite 1600  
Baltimore, MD 21202

SUBJECT: SAFETY REVIEW SCHEDULE FOR CALVERT CLIFFS NUCLEAR POWER  
PLANT, UNIT 3, COMBINED LICENSE APPLICATION

Dear Mr. Vanderheyden:

By letter dated July 14, 2009 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML082660101), the U.S. Nuclear Regulatory Commission (NRC) transmitted a schedule for the six phases of the safety review of the combined license application (COLA) for the Calvert Cliffs Nuclear Power Plant Unit 3 (CCNPP3). The application was for a U.S. EPR pressurized water reactor in accordance with the requirements contained in Title 10 of the *Code of Federal Regulations* (10 CFR) Part 52, "Licenses, Certifications and Approvals for Nuclear Power Plants." In accordance with the review schedule previously issued, the staff has completed Phase 2 (safety evaluation with open items) and Phase 3 (Advisory Committee on Reactor Safeguards review of safety evaluation with open items) reviews of Chapters 2 (Part 1 of 2), 4, 5, 8, 10, 11, 12, 16, 17 and 19 of your application. All of these chapters are now in Phase 4 (advanced safety evaluation report with no open items) of the review process, and the NRC staff is working with UniStar to close the open items that the staff identified in its review of these chapters.

However, for the reasons outlined below, the staff is unable to complete its review of the remaining chapters or parts of chapters within the current milestone schedule. Therefore, this letter transmits the staff's latest review schedule for your application based on the schedule for responding to requests for additional information (RAIs) and other information provided by UniStar through February 15, 2011.

Two major areas described below contributed to the revision of the review schedule: (1) revision of the U.S. EPR design certification review schedule, and (2) delays in UniStar's submission of responses to certain RAIs which impact the issuance of several chapters in Phase 2:

1. Delays in U.S. EPR Design Certification Review Schedule

By letter dated January 6, 2011 (ADAMS Accession No. ML103400507), the NRC provided AREVA with a revised schedule for the U.S. EPR design certification review. This schedule change for the design certification has impacted the schedules of

Chapters 7, 9, 13, 14, 15, and 18 in Phase 2 and Chapters 8, 11, 12, 15, 17, and 19 in Phase 4 of the CCNPP3 review.

The January 6, 2011, letter to AREVA also discussed the review of the resolution of Generic Safety Issue (GSI) – 191 for the U.S. EPR design. The staff stated that because of the uncertainty regarding the path to closure for outstanding issues identified in NRC RAIs, the staff was unable to establish a review schedule for Sections 6.2.2 and 15.6.5.4 of the AREVA application. The staff eliminated the Phase 2 and 3 reviews for these sections in the U. S. EPR review. After considering additional information to be provided by AREVA, the staff will evaluate whether it can complete this review within the U.S. EPR Phase 4 milestone of February 2012. The staff will also assess any impacts on these sections and communicate those impacts for the CCNPP3 COLA review.

## 2. Delays in Submission of Responses to Certain RAIs

- a. UniStar has delayed RAI responses associated with Section 3.7 until March 31, 2011. Because the issuance of Chapter 3 is the critical path chapter for Phase 2, this delay directly adds additional delays to our previous schedule.
- b. Staff review of Section 2.5 of the application is not complete because responses to remaining staff questions are not due until March 31, 2011. This RAI response date, results in a delay for the completion of the Phase 2 review of Chapter 2, Part 2.
- c. The financial review of the CCNPP3 application was impacted by the change in UniStar ownership which occurred in November 2010. The review of the new information will not be completed until June 30, 2011.

Consistent with our previous schedule, the Cyber Security Plan in Chapter 13 and Loss of Large Areas in Chapter 19 are reviews that are scheduled to be completed in Phase 4. UniStar must ensure that it responds promptly to the staff's information needs to ensure that these reviews do not become critical path in Phase 4.

Considering the circumstances described above, the NRC has developed the revised milestone target dates for the remaining phases of the COLA review which are included in the enclosure to this letter. As we had indicated in our previous schedule letter dated July 14, 2009 (ADAMS Accession No. ML082660101), any new and significant changes to the RAI response dates or changes to the COL application content or its supporting documentation could further affect the completion dates projected in the enclosure.

G. Vanderheyden

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If you have any questions or comments concerning this matter, please contact Mr. Surinder Arora, the NRC lead project manager for review of the CCNPP3 COLA by telephone at 301-415-1421 or via e-mail to [surinder.arora@nrc.gov](mailto:surinder.arora@nrc.gov).

Sincerely,

*/RA/*

David B. Matthews, Director  
Division of New Reactor Licensing  
Office of New Reactors

Docket No. 52-016

Enclosure:  
As stated

cc: Calvert Cliffs, Unit 3 Mailing List

G. Vanderheyden

- 3 -

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NRC 002

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**Calvert Cliffs Nuclear Power Plant Unit 3 – Combined License Application  
Review Milestones**

<b>Task</b>	<b>Target Completion</b>
<b>Phase 1</b> - Preliminary Safety Evaluation Report (PSER) and Request for Additional Information (RAI)	Completed April 2010 (Actual)
<b>Phase 2</b> - SER with Open Items	November 22, 2011
<b>Phase 3</b> - Advisory Committee on Reactor Safeguards (ACRS) Review of SER with Open Items	February 24, 2012
<b>Phase 4</b> - Advanced SER with No Open Items	June 2012
<b>Phase 5</b> - ACRS Review of Advanced SER with No Open Items	October 2012
<b>Phase 6</b> - Final SER with No Open Items	January 2013
Mandatory Hearing Process	May 2013

ENCLOSURE

COL - Calvert Cliffs Mailing List  
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(Revised 01/25/2011)

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