April 30, 2010

MEMORANDUM TO: Edwin M. Hackett, Executive Director
Advisory Committee on Reactor Safeguards
and Advisory Committee on Nuclear Waste

FROM: Frank Akstulewicz, Deputy Director ***/RA/***
Division of New Reactor Licensing
Office of New Reactors

SUBJECT: CALVERT CLIFFS NUCLEAR POWER PLANT, UNIT 3 COMBINED LICENSE APPLICATION - SAFETY EVALUATION REPORT WITH OPEN ITEMS FOR CHAPTER 19, "PROBABILISTIC RISK ASSESSMENT AND SEVERE ACCIDENT EVALUATION"

By letter dated July 13, 2007, as supplemented by letters dated August 2, 2007, and December 14, 2007, Calvert Cliffs 3 Nuclear Project and UniStar Nuclear Operating Services, LLC (UniStar) submitted an application to the U.S. Nuclear Regulatory Commission (NRC) for a combined license (COL) application for Calvert Cliffs Nuclear Power Plant (CCNPP), Unit 3, pursuant to Title 10 of the *Code of Federal Regulations* (10 CFR) Part 52, "Licenses, Certifications, and Approvals for Nuclear Power Plants." Subsequent to the original application, Calvert Cliffs 3 Nuclear Project and UniStar submitted Revisions 2 through 6 of the CCNPP, Unit 3 Final Safety Analysis Report (FSAR) by letters dated March 14, 2008 (Agencywide Documents Access and Management System [ADAMS] ML080780459), August 20, 2008 (ML082390786), March 9, 2009 (ML090850421), and September 30, 2009 (ML092880200).

Based on our review of the application, the staff prepared the enclosed Safety Evaluation Report (SER), ADAMS ML090900277, with Open Items for Chapter 19, "Probabilistic Risk Assessment and Severe Accident Evaluation." Unless otherwise stated in the SER, the staff's review was based on Revision 6 of the application. The SER is being provided to support the upcoming meeting of the subcommittee of the Advisory Committee on Reactor Safeguards (ACRS) scheduled to be held in May 2010. The ACRS Full Committee meeting will be held at a later date. Issuance of this SER is an important milestone in the staff's review to determine whether the CCNPP Unit 3 COL application meets NRC regulations.

In accordance with Michael R. Johnson's memorandum to the ACRS dated March 17, 2010, the staff has reviewed our submitted information against the categories for which the ACRS requested be used to highlight information for review by the Committee. Our assessment of this chapter is that there are no items that meet the categories for discussion with the Committee.

The staff concludes that the enclosed SER does not contain any information exempt from public disclosure. However, the NRC will withhold the enclosed SER from public disclosure for ten calendar days to allow Calvert Cliffs 3 Nuclear Project and UniStar the opportunity to verify the staff's conclusion that the SER contains no such exempt information. Therefore, the staff requests that the ACRS withhold the attached information from public disclosure until the information has been released publicly in ADAMS.

The staff will inform the ACRS immediately if Calvert Cliffs 3 Nuclear Project and UniStar request that any of the information in the attached document be withheld from public disclosure.

Should you have any questions, please contact Mr. Prosanta Chowdhury, the NRC Project Manager at (301) 415-1647, Prosanta.Chowdhury@nrc.gov, or Mr. Surinder Arora, the Lead Project Manager for the CCNPP, Unit 3 COL application, at (301) 415-1421, surinder.arora@nrc.gov.

Docket No. 52-016

Enclosure:
As stated

The staff will inform the ACRS immediately if Calvert Cliffs 3 Nuclear Project and UniStar request that any of the information in the attached document be withheld from public disclosure.

Should you have any questions, please contact Mr. Prosanta Chowdhury, the NRC Project Manager at (301) 415-1647, Prosanta.Chowdhury@nrc.gov, or Mr. Surinder Arora, the Lead Project Manager for the CCNPP, Unit 3 COL application, at (301) 415-1421, surinder.arora@nrc.gov.

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ADAMS Accession Numbers:
PKG: ML100830503
MEMO: ML100830515
SER: ML090900277 **NRO-002**

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