

May 3, 2007

APPLICANT: Constellation Energy / UniStar Nuclear

PROJECT: Project No. 746

SUBJECT: SUMMARY OF CALVERT CLIFFS SITE VISIT ON JUNE 12 - 13, 2006,
REGARDING COMBINED LICENSE PRE-APPLICATION SUBSURFACE
INVESTIGATION ACTIVITIES

On June 12 - 13, 2006, the U.S. Nuclear Regulatory Commission (NRC) staff conducted a visit to the Calvert Cliffs site. NRC staff from the headquarters office of Nuclear Reactor Regulation (NRR) and Region I and II offices conducted the site visit to observe subsurface investigation activities being conducted by UniStar Nuclear and to discuss geotechnical and seismic data in support of the anticipated combined operating license (COL) application for two new nuclear power plants.

A list of participants is provided at the end of this summary. The Region I report (ML061860361) and the presentation materials (ML070720254) distributed during the visit are available electronically at the NRC's Electronic Reading Room at <http://www.nrc.gov/reading-rm/adams.html>. From this site, you can access the NRC's Agencywide Document Access and Management System (ADAMS), which provides text and image files of NRC's public documents. If you do not have access to ADAMS or have problems accessing the documents located in ADAMS, contact the NRC Public Document Room (PDR) staff at 1-800-397-4209, 301-415-4737, or pdr@nrc.gov.

Background

Constellation Energy informed the NRC by letter dated November 4, 2005, of the intent to submit a COL application at the Calvert Cliffs site. UniStar Nuclear, the Constellation and AREVA/Framatome ANP partnership, has contracted Bechtel Power Corporation (Bechtel) as a nuclear services provider, and Schnabel Engineering, along with GeoVision, to conduct geotechnical site studies required for the COL application.

Visit Highlights

At the Calvert Cliffs site, staff observed Standard Penetration Test and P-S Suspension Logging processes and reviewed some of the boring logs and shear wave velocity profiles to understand the geology/soil stratification of the site. The NRC staff provided some feedback to the applicant. Specifically, NRC staff advised the applicant on the potential update to the tsunami related contents in the Standard Review Plan because the site is very close to the Chesapeake Bay. The staff also inquired as to how the applicant planned to feed the safe-shutdown earthquake (SSE) calculation with shear wave velocity data beneath their maximum boring depth.

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