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3.0 ENVIRONMENTAL IMPACT STUDIES CONDUCTED BY THE CO-APPLICANTS REGARDING SITE SELECTION, CONSTRUCTION, AND OPERATION OF CCNPP UNIT 3

This section contains a listing of all studies of the environmental impact of the proposed project that have been completed by the Co-Applicants and their corporate affiliates. Table 3-1 provides the title of the study, the topics covered, performing organization, and the final report date.

Copies of the studies listed in Table 3-1 are included on a CD available at Appendix A to this application.

Information contained in these comprehensive environmental impact studies has been used to describe the environmental baseline conditions (Section 4.0 of the application), the environmental effects during construction (Section 5.0), and the environmental effects from plant operations (Section 6.0). The vast majority of these environmental studies were conducted during 2006 and early 2007. Since that time, a decision was made to apply for licensure for a single plant rather than two plants, as well as numerous design improvements that eliminate the visible vapor plume, reduce wetlands impacts, and more accurately reflect estimated air emissions. The environmental studies have not been revised to reflect those changes. Thus, in case of inconsistency between this Technical Report and the attached environmental reports, the Technical Report controls and reports the Co-Applicant's current proposal at the time of its filing.

Table 3-1 Site-Specific Environmental Impact Studies

Title/Description	Date
UniStar Calvert Cliffs Nuclear Power Plant Units 3 and 4 Cooling System Selection and Site Layout Study, with Appendices A through K	March 2006
Addendum to CCNPP Cooling System Selection and Site Layout Study and related correspondence from Bechtel to UniStar dated 8/16/07	Aug. 2007
Cooling Tower and Circulating Water System Study for Calvert Cliffs Unit 3	June 2007
CORMIX Thermal Mixing Zone Analysis and Dilution Study	May 2007
Ultimate Heat Sink and Intake & Discharge Structures Study	Sept. 2006
Draft Interim Report: Phase Ib Cultural Resources Investigation and related correspondence between UniStar and Maryland Historical Trust	March 2007
Groundwater Sampling and Analysis, conducted May 31, 2007	June 2007
Calvert Cliffs Desalination Study, Rev.000	May 2007
Final Flora Survey Report for Proposed UniStar Nuclear Project Area	May 2007
Final Rare Plant Survey Report for Proposed UniStar Nuclear Project Area	May 2007
Final Faunal Survey Report for Proposed UniStar Nuclear Project Area and related correspondence between UniStar and U.S. Fish and Wildlife Service, National Marine Fisheries Service, and Maryland Department of Natural Resources	May 2007
Current Status of Two Federally Threatened Tiger Beetles Calvert Cliffs Nuclear Power Plant, 2006	Oct. 2006
Aquatic Field Studies for UniStar Calvert Cliffs Expansion Project	May 2007
Submerged Aquatic Vegetation Surveys for UniStar Calvert Cliffs Expansion Project	June 2007
Final Wetland Delineation Report for Proposed UniStar Nuclear Project Area	May 2007
Traffic Impact Study at the Calvert Cliffs Nuclear Power Plant - Phase 1	May 2007
Report Number 121106-1: Baseline Environmental Noise Survey Leaf-off Season	Dec. 2006
Report Number 082007-1: Baseline Environmental Noise Survey Leaf-on Season	Aug. 2007
Report Number 051007-1: Estimated Cooling Tower Sound Emissions for the Calvert Cliffs Nuclear Power (CCNPP) Expansion Project	May 2007

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