

Southern Nuclear Operating Company
Vogtle Electric Generating Plant, Units 3 & 4
COL Application

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Part 6 — LWA Request

Southern Nuclear Operating Company (SNC) requested certain activities be allowed under a Limited Work Authorization (LWA) in its application for an Early Site Permit (ESP). That LWA was received on August 26, 2009. SNC is requesting a second LWA as part of this Combined License application (COLA) in accordance with 10 CFR 50.10 (d) "Request for limited work authorization."

Safety Analysis:

The applicable safety analyses for the requested activities are addressed in the Westinghouse AP1000 Design Control Document (DCD), the Vogtle Early Site Permit Application (ESPA) and the Vogtle Electric Generating Plant (VEGP) Units 3 and 4 COLA. In addition, the U.S. Nuclear Regulatory Commission (NRC) has published NUREG - 1923, "Safety Evaluation Report for an Early Site Permit (ESP) at the Vogtle Electric Generating Plant (VEGP) ESP Site" (July 2009).

The VEGP COLA FSAR Section 1.1 incorporates, in accordance with 52.79 (b) and (d) respectively, the ESPA Site Safety Analysis Report (SSAR) and the Westinghouse AP1000 DCD. This LWA request is based on the DCD safety analysis for the Nuclear Island (NI) foundation base slab design, the ESPA site seismic analysis and the COLA FSAR seismic analysis contained in Section 3.7.

Requested Activities:

- Installation of reinforcing steel, sumps and drain lines and other embedded items in the NI foundation base slab.

The rebar and other embedded items will be installed above the mudmats and inside of the mechanically stabilized earth wall which will serve as the permanent formwork for the NI foundation base slab. The design of the NI foundation base slab reinforcing and the applicable codes and standards are described in the Westinghouse AP1000 DCD Tier 2 Section 3.8, "Design of Category I Structures." No additional Inspections, Tests, Analyses and Acceptance Criteria (ITAAC) are planned for the rebar and embedded items.

- Placement of concrete for the NI foundation base slab.

Design of the NI foundation base slab concrete and the applicable codes and standards are described in the Westinghouse AP1000 DCD Tier 2 Section 3.8, "Design of Category I Structures." No additional ITAAC are planned for the concrete placement.

Environmental Report:

The ESP Environmental Impact Statement (EIS) evaluated and addressed all preconstruction, construction and operation activities including the impacts of the activities requested above. NUREG - 1872, "Final Environmental Impact Statement for an Early Site Permit (ESP) at the Vogtle Electric Generating Plant Site" (August 2008), includes an assessment of the full scope of LWA activities allowed by 10 CFR 50.10. COLA Part 3, "Applicant's Environmental Report – Combined License Stage," incorporates by reference the ESP Environmental Report (ER) and the ESP Final Environmental Impact Statement (FEIS).

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Redress Plan:

ESPA Revision 5, Part 4, "Site Redress Plan," is incorporated by reference and is applicable to the activities requested above.

Applicant Technical Qualifications:

This LWA request is based on the technical qualifications identified in COLA FSAR Section 1.4, "Identification of Agents and Contractors." This section addresses the technical qualifications of SNC and the Engineering, Procurement, and Construction (EPC) Consortium of Westinghouse and Shaw Stone & Webster. General information about the COLA applicants required by 10 CFR 50.33 is addressed in COLA Part 1.