

## **1.4 Identification of Agents and Contractors**

The information in this section of the reference ABWR DCD is incorporated by reference, with the following site-specific supplement.

STP Nuclear Operating Company (STPNOC) is the operator of STP 3 & 4 and maintains control and oversight of design and construction.

The design and construction of STP 3 & 4 is the responsibility of Toshiba Corporation acting in conjunction with subcontractors including GE Hitachi, Fluor, and Sargent & Lundy. Toshiba will have overall responsibility for design and configuration control. GE Hitachi will provide engineering and design related to the reference ABWR certified design. Sargent & Lundy will provide architect/engineer services and Fluor will be responsible for construction.

### **1.4.1 STP Nuclear Operating Company**

STPNOC is the operator of STP 1 & 2.

### **1.4.2 GE Hitachi**

GE Hitachi is responsible for preparation of the Combined License Application (COLA) in conjunction with the subcontractors described in Subsection 1.4.3.

### **1.4.3 Other Contractors**

Several specialized consultants assisted in developing the COLA.

#### **1.4.3.1 Tetra Tech NUS, Inc.**

Tetra Tech NUS, Inc. performed data collection and analysis, and prepared sections of the Final Safety Analysis Report (FSAR) and Environmental Report (ER), including socioeconomics/demographics, ecology and ecological impacts of construction and operation, land and water use impacts of construction and operation, transmission system impacts of construction and operation, radiological impacts of operation, uranium fuel cycle and transportation of radioactive materials impacts, and environmental impacts of postulated accidents.

Tetra Tech NUS, Inc. has prepared sections of the FSAR and ER for several Early Site Permit (ESP) and COLAs, including the North Anna and Vogtle ESP applications, and the V.C. Summer and Calvert Cliffs COLAs. In addition, Tetra Tech NUS has prepared ERs for license renewal applications for more than 30 nuclear plants.

#### **1.4.3.2 MACTEC Engineering and Consulting, Inc.**

MACTEC Engineering and Consulting, Inc. (MACTEC) performed geotechnical field investigations and laboratory testing in support of FSAR Section 2.5, Geology, Seismology, and Geotechnical Engineering. That effort included performing standard penetration tests; obtaining core samples and rock cores; performing cone penetrometer tests; cross-hole seismic tests; and laboratory tests of soil and rock samples; installing ground water observation wells; and preparing a data report.

MACTEC has implemented subsurface site geotechnical investigations for several projects. These include the Vogtle and North Anna ESP applications, and the V.C. Summer, North Anna, and Vogtle COLAs. MACTEC is also involved with other ESP applications and COLAs presently being developed.

#### **1.4.3.3 William Lettis & Associates, Inc.**

William Lettis & Associates, Inc. (WLA) performed geologic mapping and the characterization of seismic sources in support of FSAR Section 2.5, including literature review, geologic field reconnaissance, review and evaluation of existing seismic source characterization models, identification and characterization of any new or different sources, and preparation of the related FSAR sections.

WLA has implemented geologic reconnaissance investigations and research to support ESP applications and COLAs for several projects. These include the Vogtle and North Anna ESP applications, and the Calvert Cliffs and V.C. Summer COLAs. WLA is also involved with other ESP applications and COLAs presently being developed.

#### **1.4.3.4 Risk Engineering, Inc.**

Risk Engineering, Inc. (REI) performed probabilistic seismic hazard assessments and related sensitivity analyses in support of FSAR Section 2.5. These assignments included sensitivity analyses of seismic source parameters and updated ground motion attenuation relationships, development of updated safe shutdown earthquake ground motion values, and preparation of the related FSAR sections.

REI has performed probabilistic seismic hazard analyses to support ESP applications and COLAs for several projects. These include the Vogtle and North Anna ESP applications, and the Calvert Cliffs, V.C. Summer, and North Anna COLAs. REI is also involved with other ESP applications and COLAs presently being developed.

#### **1.4.3.5 Bechtel**

Bechtel supports project licensing primarily with regard to the ER and site characterization. Bechtel, headquartered in San Francisco, is the nation's largest power contractor. Bechtel has a history of supporting the nuclear power industry, beginning with the construction in 1950 of the EBR-1 reactor. Since then, Bechtel has engineered and constructed more than 60,000 MWe of nuclear power capacity worldwide. Currently, Bechtel has 40,000 employees and has completed 22,000 projects in 140 different countries around the globe.