

Alvin W. Vogtle Electric Generating Plant, Units 3 & 4

Waynesboro, GA

Plant Vogtle Units 3 & 4 involves the construction of first new nuclear units built in the United States in 30 years. These new units are being built in accordance with Westinghouse Electric Company's new industry design standard, the AP1000 pressurized water reactor. The AP1000 PWR is the safest and most efficient nuclear power plant available in the worldwide commercial market. Unit 3 went on a line in mid - 2023. Unit 4 is scheduled to begin commercial operations in 2024. The estimated price for the project is \$27 billion. Wood PLC provided onsite coordination of laboratory sampling and concrete mix testing, as well as testing during development of mix designs.

CTLGroup's laboratory staff performed analyses to qualify water, admixtures, fly ash and cement materials as concrete was being placed. The number of tests performed was determined according to concrete placement schedule and amount of each constituent being used. Initial concrete mix design testing also consisted of alkali silica reactivity (ASR) durability testing per ASTM C1293.

The Vogtle constituent testing project was overseen by CTLGroup's NQA-1 quality assurance program. CTLGroup's program establishes procedures for instrument/equipment calibration, the use of written test procedures, documentation of employee training records for every prescribed test and a review process for data and report generation.

Completed:

2020

Client:

Wood Environment &
Infrastructure Solutions, Inc.

Services Provided:

Materials Testing, Concrete Mixture Design

