Civil Structural and Geotechnical Engineering

The Westinghouse Solution

The BOP and Design Engineering civil structural and geotechnical engineering services is a proven and consistent supplier of civil and geotechnical design and services for power generation, oil & gas, and industrial infrastructure projects. To simplify contracting activities, Westinghouse provides a wide range of civil and geotechnical engineering services from simple engineering staff augmentation to integrated, comprehensive solutions for large, complex civil designs to component replacements and plant-wide modification projects.

Services Include:

- Structural Analysis and Design
 - Reinforced Concrete Structures
 - Steel Structures
 - Deep and Shallow Foundations
 - Equipment Supports and Anchorage
 - Raceway Supports
 - Impact and Missile Barriers
 - Structural Condition Assessment
 - Structural Repair and Rehabilitation
- Specialty Engineering
 - 2D & 3D Finite Element Analysis
 - High Seismic Analysis and Design
 - Site-specific Response Spectra
 - Soil-structure Interaction
 - Blast Analysis and Design
 - Hydrodynamic Analysis
- Geotechnical Engineering
 - Site Characterization
 - Dynamic Properties Evaluation of Soil/Rock
 - Settlement Monitoring
 - Ground Improvement Recommendations
 - Liquefaction Potential
- Civil/Site Engineering
 - Site Selection Studies
 - Stormwater Management
 - Erosion and Sedimentation Control

Major Types of Projects:

- Power Generation Facilities
 - Nuclear
 - Fossil
 - New Plant Design
 - Existing Plant Mods
- Core Power Uprates
- Steam Generator Replacements
- Licensing Basis Verification

CSA Engineering Software

- ANSYS™
- GT STRUDL[™]
- LS-DYNA[™]
- ABAQUS[™]
- InRoads[™]
- MicroStation[™]
- HydroCad™
- AutoTurn[™]

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