



Technical Capabilities

Holtec Government Services successfully analyzes, designs, constructs, and commissions facilities, systems, structures and components (SSCs) for federal and non-governmental nuclear installations. We also provide operational and field support for diagnosing and resolving operational issues. Our technical and governance procedures ensure that our manufactured products and engineering and analytical services meet the requirements of the respective federal regulations, agency guidance and requirements, and the terms of federal contracts. All projects are performed in compliance with the USNRC and US government entities, such as the USDOE and USDOD.

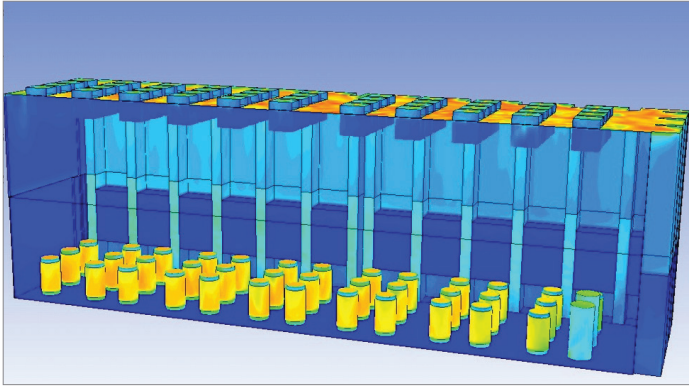


Design Capabilities

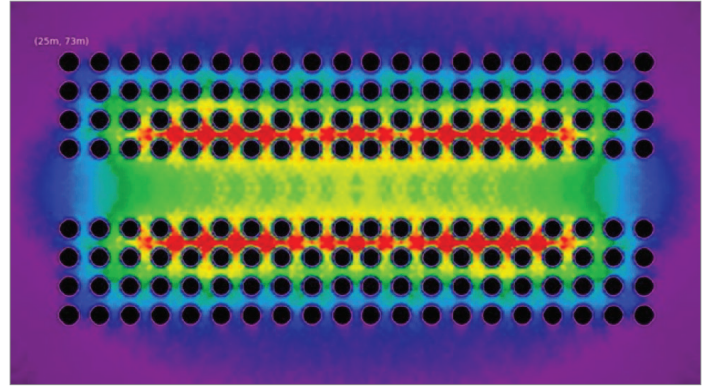
- Mechanical design and qualification of a wide range of SSCs including steel structures, pressure vessels, heat exchangers, condensers, valves, pumps, piping, nuclear fuel storage & transport devices, cranes, crawlers, heavy load handling rigs & appurtenances and fluid flow systems to comply with applicable codes such as the ASME Boiler and Pressure Vessel Codes, TEMA & HEI standards for heat exchange equipment. The SMR-160 small modular reactor and its support systems are currently under design for near term manufacturing.
- Civil/structural design of structural weldments, reinforced & plain concrete structures including containment builds, storage buildings and foundations.
- Design of nuclear storage and transport devices
- Heat transfer calculations
- Vibration calculations
- CFD Analyses

Qualifying Static and Dynamic Analyses of SSCs

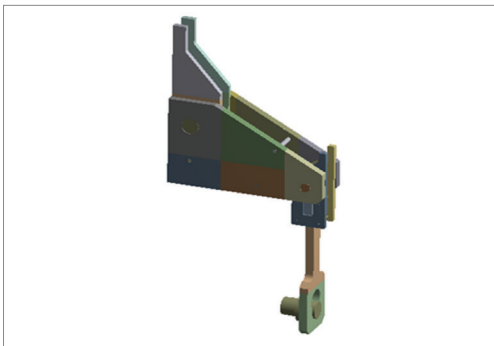
Design of a SSC is often required to demonstrate satisfaction of Design Basis Loads (DBLs) to complete its safety evaluation. HGS excels in qualifying a SSC's design under the full assortment of loadings and hazards that may arise in its service life. Some examples of loadings and hazards described below illustrate the range of the Company's proven capabilities:



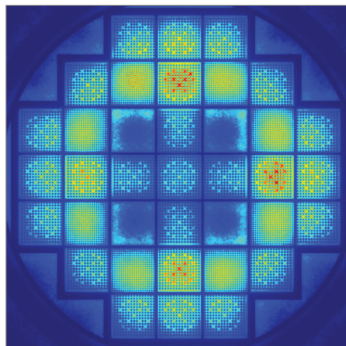
Analysis of Fluid Systems



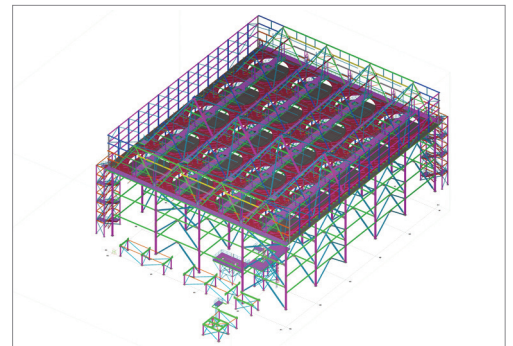
Radiological



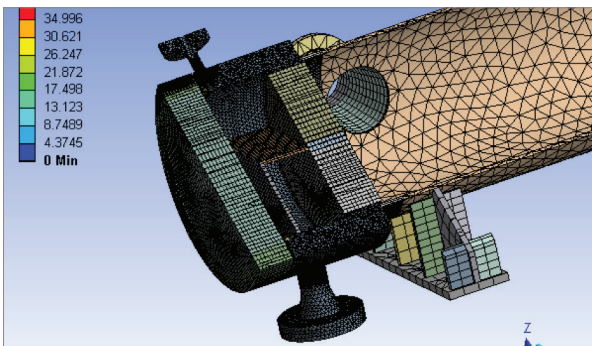
Devices for Heavy Load Handling



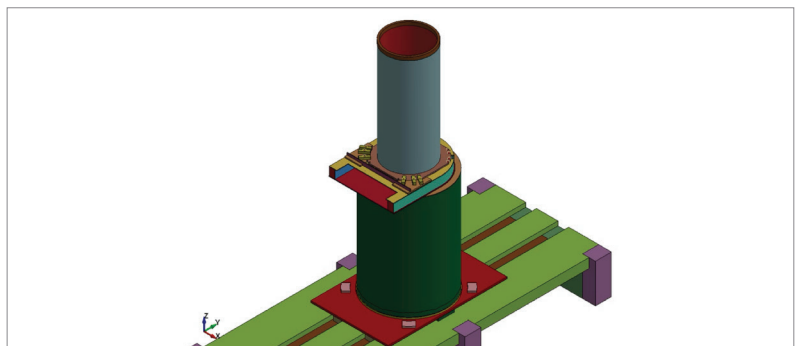
Nuclear Physics



Tornadic Wind and Hurricane



Insidious Hazards – Fatigue, Creep and Brittle Fracture



Earthquake and Severe Flood