



Chemicals

Client
BASF

Location
Freeport, TX, USA

Neopentyl Glycol Facility

Project Highlights

The design effort was executed using 3D modeling and included the following:

- Verification of preliminary design including line and pump sizing checks and confirmation of adequate relief system capacity.
- Specification and procurement of equipment (reactors, pumps, vessels, exchangers, etc.)
- Stress analysis of critical piping (i.e., 32 inch vapor line)
- Finalization of equipment arrangements
- Design of all process piping which included jacketed piping systems
- Design of pile system, foundations, and paving for building and equipment
- Design of multi-level support structure
- Design of power, lighting, grounding, and lightning protection systems
- Specification and procurement of electrical equipment
- Specification and procurement of plant instrumentation
- Instrument design including generation of loop sheets, wiring lists, and junction box drawings using INTools software with SmartLoop capability

Project Description

CH2M HILL Lockwood Greene provided engineering, procurement, and construction for BASF's Neopentyl Glycol plant. We procured and expedited bulk materials, as well as all equipment and instrumentation. The construction effort was carefully coordinated with BASF and other contractors constructing a facility adjacent to the project.