

Hultgren-Tillis Engineers

Geotechnical Engineering For Industrial Projects

Hultgren – Tillis Engineers (HT) was founded in 1993 to provide geotechnical engineering services with a focus on industrial projects. HT is located in Concord, California to remain near the Bay Area industrial facilities. HT provides geotechnical engineering services for heavy industry, refineries, chemical plants, and marine structures. HT also provides services for municipal, commercial, water resources, flood control, and levees. They are a certified small business. HT has policies and procedures in place to meet the requirements for work at refineries and chemical sites including on-going substance abuse monitoring, industrial site safety training, and TWIC badges. HT has a superior safety record.

Services offered include:

- Geotechnical Engineering
- Seismicity and Seismic Engineering
- Engineering Geology
- Construction Engineering Support
- Geophysical Testing
- Laboratory Testing

HT's personnel have provided geotechnical engineering for process structures, new and rehabilitated tanks, horizontal and vertical vessels, pipelines and pipe racks, pump stations, vaults, cooling towers, and other components of industrial plants.



Representative Chemical Plant Projects:

- EO Ventilators
- Maintenance Buildings
- Bridges
- Oxidizers
- Storage Tanks
- Ammonia Plant
- Electrical Infrastructure
- High Voltage Power Line Towers
- Locomotive Inspection Pit
- Auxiliary Boiler
- Loading Rack
- Power Plant Retro-Fit
- Cooling Tower
- Furnace



Tanks

Hultgren – Tillis Engineers' staff have developed foundation design criteria for all types of industrial tanks at a wide range of sites, including industrial waste areas, peat bogs, hillside cuts, coralline atolls and rock.



Marine Oil Terminal

Hultgren – Tillis Engineers provided geotechnical engineering for a seismic performance evaluation of an existing marine oil terminal. The terminal consists of a main pier with five nearby dolphins. Built around 40 years ago with a dredged depth of 45 feet below MLLW, the foundations include both batter and vertical piles.

Representative Refinery Projects:

- Reactor Head Removal
- Crude Oil Pipelines
- Oxygen Enrichment
- Lime Sludge Handling
- Exchangers
- Flare Gas Recovery
- Biotreaters
- Office Buildings
- Stacks
- Machine Shop
- Waste Handling Ramp
- Spent Acid Tank
- Pipeway Upgrade
- Crude Oil Tanks
- Effluent Tanks
- Pipe Bridges

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