

PROJECT PROFILE PIPING UPGRADE FOR WATER COOLING AND HEAVY VACUUM GAS OIL



Client: **MARATHON OIL** | Location: **TEXAS**

Audubon was contracted by [Marathon Oil](#) to provide front-end engineering and design (FEED), [detailed engineering and design](#), [procurement](#), and [construction management](#) (EPCM) for the replacement of defective water-cooling piping and valves (7,000 ft. of 30-in. pipe). The project also included in-line replacement of 2,600 ft. of heavy-vacuum-gas-oil (HVGO) piping with 317L stainless steel, as well as upgrades to all control valves and instrumentation.

The FEED, EPCM, and [turnaround](#) (TAR) management services supplied by Audubon expedited construction, prevented unnecessary disruptions, and enabled an efficient, effective return to water-cooling and HVGO operations for the E&P company.

Project Overview

- Brownfield expansion
- Metallurgy upgrade to 317L
- Pipe rack upgrade
- Valve and instrumentation replacement
- Instrument specification update

Scope of Work

- FEED
- Detailed engineering & design
- Project management & procurement
- Automation & control
- Construction & TAR management
- Stress, relief system, & process safety analyses
- Process hydraulics validation
- Inspection

