DELIVERING RESULTS.



Hook up & Commissioning

project highlights

- Original awarded scope of work: Max headcount 61 People 215,000 man-hours

 Actual as completed scope of work: Max headcount 148 people 597,000 man-hours
- Fabricated and installed PAX System 500 linear feet of pipe and over 300 shop welds
- Removed and reinstalled 5 ASD skids in 2 buildings, including designing and performing infrastructure modifications needed to complete the task
- Removed, repaired and reinstalled 106 PetrolValves
- Designed and installed plan for H2S system skid, eliminating the need for derrick barge support
- Successfully completed 160 pressure tests of 34 systems at pressures up to 22,500 psi
- Completed 2,000 punch list items





Temporary PAX System

Installed 2 temporary PAX pumps

Fabricated and installed 500 lf of piping with 300 shop welds

Fabricated and installed 20 pipe supports

Completed first oil critical scope within 21 days (including fabrication and installation from initial request to Danos)

ASD Removal and Re-installation-

Removed and reinstalled 5 ASDs (14' x 6' x 10', 47,240 each) from compression and production electrical buildings

First 2 ASD removals, in separate buildings, took place within 19 days of initial removal request to Danos

Significant structural reinforcements completed to both electrical building interiors and landings

Removals completed utilizing highly specialized equipment with no overhead rigging points and less than

12" of overhead clearance available

Specialty securing mechanisms for safe transport designed and fabricated by Danos

All replacement ASDs were shock logged and installed without any incidents of equipment damage

Removal and re-installation procedure developed and executed by Danos

5 specialized rigging assemblies provided by Danos for differing unit designs and packaging

PetrolValve Remediation

Removed, and reinstalled 106 PetrolValves for weather seal removal

All faces and seals professionally cleaned and reinstalled by Danos personnel

31 15K flow line valves removed, packaged for shipment, sent onshore and later reinstalled

21 15K flow line valves were removed and reinstalled 4 times (5,600 lbs EA)

Removed and reinstalled failing 20" oil export SDV

Repaired in place oil HV boarding valve

Modified existing monorails and piping necessary for valve removal

Removed, reinstalled, flushed and set correct stops on all actuators

H2S System Skid Installation/Modification

Installation of ZZZ-8100 skid below north bridge (66,000 lbs)

Fabricated skid beam assembly for installation

Developed skid-in plan to install ZZZ-8100 from moonpool, eliminating the need for DB-50 derrick barge support

Installed approximately 1500 feet of associated piping

Installed 151 pipe supports for H2S piping scope

Completed 20 field welds and 10 field hydrostatic tests to correct dimensional changes from drawings

Installed 6 analyzer cabinets and sample point assemblies

Pressure Testing Completion

Successfully completed over 160 field hydrostatic tests of in place piping on the FPU

High pressure tests completed up to 22,500 psig

DOT monitored testing completed on 4 flow-lines and gas export line

Flow-line testing completed

14 attempts

Challenges including:

Failed face seals

Cracked thermo wells

Cracked valve bodies

Failed subsea blinds

Did not delay completion of diving campaign or flow line and sales lines commissioning activities

Segmented test limits to provide commissioning access to critical areas

Completed test setup, flooding and burping for pipeline and flow line integrated leak tests

