

CPOC MTDA Development

Full Management System



Operator/ Client: CPOC (Carigali PTTEPI Operating Company)
Project/ Location: MTDA B17 DEVELOPMENT, PHASE I
Scope of Services: Full Operations Management System Development



Installations Data:

1 processing offshore Platform (MDPP), featuring:

- Crude stabilisation,
- Vapor Recovery Compression,
- Waste Heat Recovery,
- Acide Gas Removal,
- Mercury Removal,
- Produced Water Treatment,
- Export Fiscal Metering,
- Export Gas Compression,
- Process and general utilities.

1 bridge-linked Wellhead Platform and 3 remote Offshore Wellhead Platforms, featuring:

- Wellheads,
- Gas metering/Well testing,
- Chemical Injection,
- Pedestal Crane.



PHILOSOPHIES:

Operation and maintenance philosophy
Pipeline Integrity management philosophy
Inspection philosophy

STANDING OPERATING PROCEDURES:

PROCESS (Platform operation and start-up

Pig receivers, Production & separation, Condensate stabilization, VRU compression, Booster compression, Acid gas removal, sales gas compression and metering, Mercury removal, Produced water treatment, Waste heat recovery, Heating medium, Well testing, Water injection,...)

UTILITIES (Fuel gas, HP/LP flares, Drains, Chemical injection, Instrument and service air, Nitrogen generation, Fire water, Diesel fuel, aviation fuel, Power generation & distribution, Sewage, HVAC, Lifeboats, Cranes, SCADA, PCS, SIS, Nav aids, Telecoms,...)

LABORATORY (Gas/water/condensate sampling,...)



STRATEGIES:

Maintenance strategy
Logistics strategy
Reducing risk strategy
Sand management strategy
Facilities modification management strategy
Facilities improvement strategy
Site instructions
Well handover strategy
Control of overrides and inhibits strategy
Control of keys - ICS strategy
Shutdown strategy
Fire & gas strategy
Production operations strategy
Equipment tagging strategy
Pipeline integrity management strategy
Facility integrity management strategy
Corrosion management assurance strategy
Testing pressure safety valves strategy
Testing instrument protective systems strategy
Control of measuring and test equipment strategy
Safety critical systems and critical equipment strategy

SAFETY GUIDELINES:

Crane and lifting equipment management
Emergency arrangements
Firefighting operations
General safety
Helicopter operations
Lifesaving operations
Marine operations
Purging operations
Safety case
Shutdown

SIMOPS

Material safety data sheet
H₂S hazards
Carbon dioxide hazards
Mercury decontamination
Scaffolding
Mechanical isolation standards
Shift handover
Personnel on board (POB)
Electrical safety rules
Safety performance monitoring and improvement