

SERVICE SHEET

# PROCESS DESIGN



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Design takes in all aspects of facility and plant design from concept designs, feasibility studies, front end engineering design, detailed design and turnkey solutions. Fyfe also provides process services in trouble shooting, incident investigation and 'as-built' drawings.

## Services:

- Process flow diagram (PFD) and heat, mass and energy balances
- Basis of design (BoD) development
- Piping and instrumentation diagram development
- Pump design and operation
- Vessel process design
- Fluid flow hydraulics
- Plume dispersion analysis
- Capital expenditure and operating expenditure estimates
- Modelling (e.g. HYSYS, PipeSim and PHAST)
- Two and three phase separation
- Incident investigation and trouble shooting
- Debottlenecking
- HAZOP leadership
- Hazardous area classification
- 2D & 3D Drafting
- Design and specification of oil and gas treatment packages
- Operating manuals
- Flow and pressure control
- Metering and custody transfer metering
- Gas treatment
- Compressor selection and specification
- Fuel storage and distribution
- Oil dewatering, truck load out and facility design
- Pipeline, meter station and compressor station design
- Design and preparation of working drawings, specifications, cost estimates and contract documents for tendering purposes and construction
- Chemical storage and distribution
- Commissioning

