

Integrated Process Solutions Sdn Bhd is the boutique engineering consultancy providing services in Process, Process Safety, Human Factors, Asset Integrity and Subsea & Pipeline Engineering.

FACILITIES ENGINEERING SUPPORT

Field Dev. Plan (FDP)

Feasibility Studies

Concept Select

Front End Eng. Design (FEED)

Detailed Eng. Design (DED)

PROCESS

- Piping & Instrumentation Diagrams (P&ID)
- Process Simulation (Dynamic / Steady State)
- Line List
- Sizing (Equipment, Piping, Instrument, etc.)
- Relief and Blowdown Study
- Process Safety Time
- Heat and Material Balance
- Cause & Effects Matrix
- Process Safeguarding Memorandum
- Operating Procedure Manual
- Operating Procedure
- Safe Operating Limit / Envelope (SOL/SOE)

PROCESS SAFETY

- HSE Design and Safety Case
- Control of Industrial Major Hazard (CIMAH)/Demonstration of Safe Operation (DOSO)
- Formal Safety Assessment (FSA) Studies
 - Fire and Explosion Risk Assessment (FERA)
 - Quantitative Risk Assessment (QRA)
 - Building Risk Assessment (BRA) including Facility siting
 - Escape, Evacuation and Rescue Assessment (EERA)
 - Emergency Survivability System Assessment (ESSA)
 - Temporary Refuge Impairment Analysis (TRIA)
 - Smoke & Gas Ingress Analysis (SGIA)
 - Dropped Object Analysis
 - Ship Collision Study
 - Safety Critical Elements & Performance Standards (SCE & PS)
 - Hazard and Effects Management Process (HEMP) – HER, Bow-Tie, ALARP, CAC, SIMOPS, MOPO.
- Loss Prevention Studies
 - Firewater Design including Demand, Hydraulic, Surge.
 - Hazardous Area Classification
 - Safety Layouts and Drawings
 - Safety Equipment Datasheets and Specifications
 - HSE & Fire Protection Philosophies
- Safety Workshop
 - Hazard and Operability (HAZOP)
 - Hazard Identification (HAZID)
 - Safety Integrity Level (SIL/IPF) Classification & Verification
 - Health Risk Assessment (HRA)
 - Constructability Review (CR)
 - Electrical System Safety And Operability Review (ELSOR)
- Process Safety Information (PSI)

SPECIALIZED STUDIES

- Flow Assurance (Transient / Steady State)
- Surge Analysis
- Computational Fluid Dynamics (CFD)
- Fire & Gas Mapping Study
- Gas Dispersion & Thermal Radiation Study
- Acoustic / Flow Induced Vibration (AIV/FIV)
- Noise Mapping Study
- Corrosion Studies (CDBM, CMP)
- Reliability, Availability and Maintainability (RAM)
- Carbon Footprint Assessment (CFA)


HUMAN FACTORS ENGINEERING (HFE)

- HFE Screening
- HFE Awareness Training
- HFE Implementation Plan
- Valve Criticality Analysis (VCA)
- Safety Critical Task Analysis (SCTA)
- HFE 2D Drawings / 3D Model Review for LQ, CCR & Vendor Packages
- HFE Construction Site Verification

ASSET INTEGRITY

- Asset Register
- Safety Critical Elements & Equipment Criticality Assessment (SCE & ECA)
- Performance Standards (PS)
- Failure Mode & Effects Analysis (FMEA) / Equipment Reliability Strategy (ERS)
- Maintenance Plan (MPlan)
- Bill of Material (BOM)

SUBSEA UMBILICALS, RISERS & FLOWLINES (SURF)

- **Concept Study** 
 - Subsea Engineering
 - Pipeline Engineering

PROJECT MANAGEMENT WORKSHOP

- Value Engineering
- Project Risk Assessment (PRA)
- Schedule Risk Assessment (SRA)
- Cost Risk Assessment (CRA)
- Peer Review
- Project Framing
- PESTLE Risk & Opportunity

EXPERIENCED • RESOURCEFUL • TIMELINESS

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