



Process Safety Management sets the standard for operating procedures in oil and gas facilities. TSI provides all the resources to bring a new or existing facility up to these high standards.

### New Facilities

TSI will take the detailed P&ID and 3D engineering drawings to produce detailed PSM compliant operating procedures. This type of project can be performed prior and during construction of the facilities to be available for commissioning and start up.

### Existing Facilities

TSI has significant experience in recreation of missing or out of date P&ID's that are needed to meet PSM standards and are feed material for the PSM procedure writing.

If needed, TSI can provide the 3D scanning of the existing facilities to incorporate with upgrades and expansions.



**PROCESS ENGINEERING**



**PROCESS SPECIALISTS**



**TECHNICAL EXPERTS**

### EXPERTISE

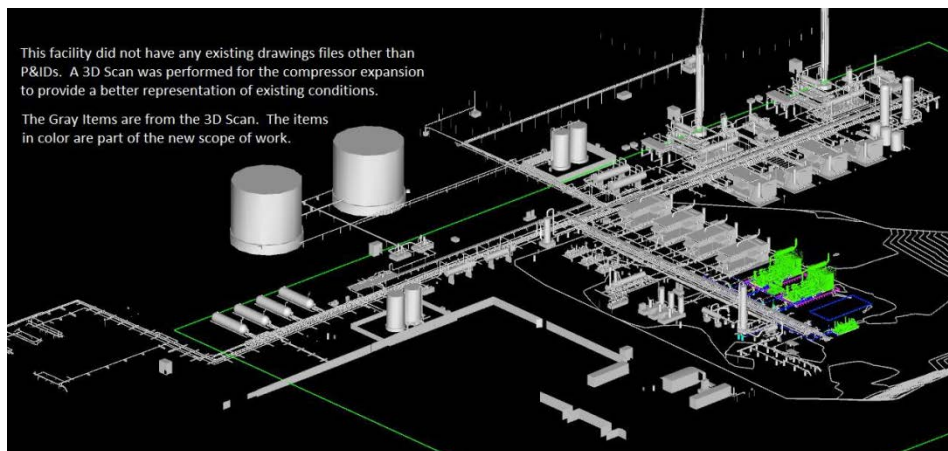
- PROCESS ENGINEERING
- PROCESS HAZARD ANALYSIS
- PROCEDURE WRITING
- PRE START-UP READINESS
- PSM FACILITY UPGRADES
- FACILITY SCANNING

### PROFESSIONAL DISCIPLINES

- PROCESS
- INSTRUMENTATION
- ELECTRICAL
- P&ID DEVELOPMENT
- PROCESS PIPING ENGINEERING
- PHA FACILITATORS
- PHA ADVISORS
- LOPA STUDIES

### PROJECT SERVICES

- PHA HOSTING & MANAGEMENT
- LOPA STUDIES
- PSM OPERATING PROCEDURES
- PSM UPGRADE PROJECTS
- PLANT MODELLING & RE-MODELLING



This facility did not have any existing drawings files other than P&IDs. A 3D Scan was performed for the compressor expansion to provide a better representation of existing conditions.

The Gray Items are from the 3D Scan. The items in color are part of the new scope of work.

*Existing facility is scanned in 3D (grey) new facility is added in to the process providing complete 3D engineering drawings for the plant.*

