

Project Summary



Client:

Thales Australia

Location:

Mulwala, NSW, Australia

Sulphuric Acid Storage Facility Design

<p>Project Summary:</p>	<p>Thales required a design solution for demolition of redundant tanks, pipes, platforms, electrical wiring and cabinets and a building and associated internal equipment and structure within the current Building 304 area and replacement with three new concentrated sulphuric acid (CSA) tanks. The three new CSA tanks are to be installed in a new bundled area compliant with AS3780.</p> <p>The new tanks will be fed from the tanker bay & building 321 and will supply the NG Mix tanks, tanker bay, building 102 & MRP. A staged approach to project delivery is required to allow supply of CSA from existing tanks while the new tanks are constructed.</p> <p>The approach to the project design and delivery was undertaken in accordance with Synertec's processes. Particular emphasis was placed on;</p> <ul style="list-style-type: none"> ○ Storage Capacities ○ Design Lifetimes ○ Operational Requirements ○ Applicable Standards <p>The following documents and drawings will be delivered as part of the project</p> <ul style="list-style-type: none"> ○ Demolition strategy and demolition drawings
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SYNERTEC

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- Process flow diagrams (PFDs)
- Piping and Instrumentation diagrams (P&IDs)
- Equipment layout drawings including general arrangement drawings for civil and structural, process equipment, and utilities and services
- Equipment list (Schedule of key process and utility equipment)
- Instrument list (Schedule of instruments)
- Valve list (Schedule of valves and speciality line items)
- Line list (Schedule of piping)
- Cable schedule
- IO assignment
- Electrical load list
- Electrical loop drawings & schematics
- Switchroom/switchboard layouts and elevations
- Tank datasheets for CSA tanks and acid egg
- Heating systems for the CSA tanks
- Facility Specification
- Project Execution Plan
- Design review report
- Pump data sheets
- Control system functional specification,
- Control system Upgrade
- Software Hardware Design Specification
- HAZOP study records
- Design documentation for tank foundations
- Design documentation for new bunded area
- Design documentation for new pump plinths and pipe supports as required
- Design of a platform over the new tanks
- Structural and Architectural design of the new office and toilet



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	<ul style="list-style-type: none">○ Piping orthographic drawings○ Piping isometrics○ Piping tie-in list○ Supply specifications for pumps, valves, instruments, tanks, acid eggs○ Scope of work documents and specifications for all tender works
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