

Project Summary



Client:
Orion Laboratories

Location:
Balcatta, WA, Australia

Production Facility Expansion & Upgrade

Project Summary:	<p>Orion Laboratories is located in Perth WA and is part of the Perrigo Company in Michigan, United States of America.</p> <p>The scope of the work included the overall concept and detailed process/civil/structural/electrical/control design, construction budget estimate of the proposed expansion for the new packing hall and bulk liquid storage. The works also encompassed the optimisation of fluid handling and transfer, automation and the specification of new packing and storage equipment.</p> <p>Synertec undertook the design facility enhancements, and prepared a construction schedule and cost estimates for the upgrade of the Balcatta production facility.</p> <p>The existing facility was expanded by the addition of a new secondary packing area, mixing room and dedicated bulk storage area designed to comply with AS1940 “The storage and handling of flammable and combustible liquids”</p> <p>The design package included:</p> <ul style="list-style-type: none">○ Plant layout drawings○ Elevation drawings of the extension, bulk storage and mixing room○ Structural/Civil design package including allowance for future second story extension○ Process & instrumentation drawings○ Functional & equipment specifications
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SYNERTEC

	<ul style="list-style-type: none">○ Storage vessel design drawings○ Process control specification○ Processing times/cycle times for each process step and the overall production process to verify required capacity○ Synertec's construction cost estimate of the facility upgrade○ Detailed design package of the Ethanol and IPA storage & distribution centre○ Detailed design of CIP for process equipment○ Detailed design for the HVAC system
Technologies:	<p>The software for process control systems was developed in accordance with GAMP 5 to facilitate cost effective validation.</p> <p>Synertec commenced risk assessment to meet safety and GMP requirements, utilising Hazard and Operability Study (HAZOP).</p>