Service Level Agreement for ETP Control System

CLIENT
Melbourne Water

LOCATIONS
Melbourne, Australia

CORE CAPABILITIES

- Automation Engineering
- Detailed Design
- Factory Acceptance Testing, Site Acceptance Testing, Commissioning
- Ongoing maintenance
- 24/7 support
- Occupational Health and Safety System

TECHNOLOGIES:

- Siemens PCS7 Control System
- Aspen IP21

PROJECT SUMMARY

Synertec has been continuously engaged by Melbourne Water since 2007 to deliver 24/7 support to the Siemens PCS7 process control system at the Eastern Treatment Plan.
The Eastern Treatment Plant is a major wastewater treatment plant for the Melbourne Metropolitan area and as such must run continuously every day of the year. Waste is treated from raw sewage to Class A re-usable water.

THE CHALLENGE

Melbourne Water required a solutions partner to provide the support for the Siemens PCS 7 (DCS) at their Eastern Treatment Plant (ETP), providing 24/7 support and project services.

SYNERTEC'S SOLUTION

Synertec has an established a team of engineers with an understanding of Melbourne Water's control system requirements and the challenges that a 25,000 IO, hybrid system represents due its size and diversity in both hardware and software installation. The process at ETP is divided into three major areas; Primary, Secondary and Tertiary. Synertec has been, and continues to be, involved in the process control development and maintenance of all 3 areas.

Synertec has collaborated with Melbourne Water to:

- Generate migration plans and strategies to standardise and avoid the risks of obsolescence in these assets;
- Proactively implement the use of new technology to improve reliability and availability of the PCS to operations, i.e. alternative hardware architectures and computer virtualisation;
- Develop and implement risk mitigation strategies;
- Develop management procedures; reporting, scheduling and budgeting.

Over the life of the contract, Synertec has supported numerous CAPEX projects including PCS7 version upgrades, hardware upgrades, alarm rationalisations and plant integrations.