

CASE STUDY / BRISBANE AIRPORT – INTERNATIONAL TERMINAL EXPANSION /

FAST FACTS /

- / H.V Reticulation and expansion from the Airport Intake Sub-Station to the Northern Concourse Energy Plant and then the new International Airport Extension
- / Extension of the Northern Concourse including 3 levels of Arrivals and Departures
- / 4 levels of terminal expansion
- / Expansion of the car park and bus way



CLIENT /

Brisbane Airport Corporation

BUILDER /

Bovis Lend Lease

SERVICES REQUIRED /

HV Reticulation, LV sub-station and automated lighting control system

TIMELINE /

30 months

LOCATION /

Hamilton, Queensland

CONTRACT VALUE /

\$25.5 million

Brisbane Airport is the sole passenger airport serving Brisbane and the third busiest in Australia after Sydney and Melbourne Airports. The airport serves the city of Brisbane and the surrounding metropolitan area. The international terminal expansion was quite extensive and increased the overall airport size by 40%.

PSG Richard Flanagan completed all requirements for the installation of the High Voltage Reticulation cabling to the High Voltage Generators, High Voltage Chillers, 3.3KV Chillers Sub-Station and 3 Low Voltage Sub-Stations.

The electrical, communications, and data installation of 4 levels of terminal expansion included 50 retail outlets, escalators, lifts, baggage handling, passenger arrival and departure processing. The work was carried out over a two and half year period with minimal disruption to the 'live' operation of the airport.

Substantial work was also carried out within the high security areas for the Australian Federal Police and Australian Customs. Entelle fibre and Molex data communication systems incorporated the high-speed data transfer of information between all check-in counters, departure gates and flight information directories.

A new state-of-the-art lightning protection system was designed and installed to encompass the entire terminal.

A Dynalite fully-automated lighting control system was incorporated within the new terminal to create the most effective energy efficient environment. The existing Simplex master clock system was extended into the new installation.