

Suncorp Stadium Brisbane

June 2003

Suncorp Stadium, located in Brisbane, Australia, has a rich history. Up until the late 1890's, the area was the city's central burial site. In 1900, headstones and remains were moved to an alternate location and the site evolved over the next hundred years into a multi-use sporting and entertainment facility. Construction on the most recent development commenced in 2001, with completion of the 55,000 seat world-class stadium in 2003, in time for the Rugby World Cup. The refurbishment was enormous, encompassing not only the stadium itself, but surrounding road and transport infrastructure.

Lighting in external areas to be controlled included public walkways, bus terminals, roadways, landscape and plaza structures, signage and even the heritage-listed church located beside the stadium. Internally, corporate boxes, restaurants, bars and conference facilities were included in the lighting control design. In addition to general lighting control, the specification called for one touch operation of events from the Security Room and the Events Room with feedback for operators, time schedules for daily usage, energy management for the concourse and surrounding roadways and for the architectural dimming and building management systems to work seamlessly as one product.

We globally control all lighting aspects of the stadium from sports field lights mounted 37 metres high under the continuous roof above seating, right down to the in-ground decorative lighting on public walkways. The wiring topology is that of a high-rise building incorporating a trunk and spur technology. The difference in this project, however, is that the trunk is horizontal, surrounding the main stadium in a ring, with vertical spurs running up through electrical risers supplying local distribution boards. Relay controllers are integral to all of the distribution boards, which enable any electrically connected load on the network to be configured in any combination the user requires. Each data spur is optically isolated via a Network Bridge, eliminating the chance of any electrical fault on one spur corrupting the rest of the network. Access to the control is from two strategic locations; downstairs in the security room via a dedicated PC running ControlSoft software and from a Touch Screen located on Level 5 in the events room. Locally, security and cleaning staff have key switch control for all levels of the lighting system when the stadium is not in operation.

Testimonial

"After reviewing a number of Lighting Control System vendors, this system was chosen due to its proven performance and reliability, its adaptability to meet with the project's special requirements and Control Source's local engineering and ongoing 24-hour support. It has performed without fault; from the initial installation, through all aspects of the project and was the only choice when it came to a lighting control system for a project of this size."

David Lewis - Electrical Engineer, John Goss Projects

Scope of Works:

- 280 x Network Relay Channels
- 100 x Network Dimming Channels
- 18 x Network User Control Panels
- 1 x Touch Screen

