

PROJECT FACT SHEET

Customer: Coles Myer Limited

Contractor: Bovis Lend Lease

Project: Construction of a new National Distribution Centre approx. 70,000sqm, a 2 level office building and other outbuildings.

Completion: October 2006

Project Profile: Supply and installation of Complete Electrical and Communication Services throughout the Coles Myer National Distribution Centre.

Nilsen Scope of Works (but not limited to):

- 3 Installation of Main Switchboards x 3, 6 Main Distribution Boards, 40 Distribution boards
- Installation of 3 Generators complete with synchronising equipment, load sharing etc
- Installation of UPS and associated circuits
- Installation of Active Filters and Power Factor Controllers
- Installation of high volume submains e.g. One circuit with 16x240 mm² x 425 metre long completely under ground
- Installation of massive underground conduit system e.g. One trench with 42 x 150mm conduits
- Installation of approx 1300 Hi-Bay light fittings in warehouse with full c-bus control
- Installation of a variety of light fittings in offices with full c-bus control
- Installation of all power requirements for warehouse eg. roller doors, equipment etc
- Installation of a wireless emergency monitoring system
- Installation of communication racks in communications room and warehouse
- Installation of communication outlets located over the entire project
- Installation of a complete Fibre system between all racks

PROJECT FACT SHEET

Project Challenges:

- Main Switchboards located in Outbuilding 70m away from Warehouse
- To complete as much of our work as possible without being reliant on construction of the Building structure.

Solution

To excavate and install conduits to every Main Distribution board from the Main Switchboard Room and also to every Distribution Board enabling installation of 95% of the submains for this project without the building structure being ready.

Added value accrued to customer because of Nilsen involvement:

Nilsen's strategy of locating submains underground to all Distribution Boards makes for much of the electrical installation work independent of Building Structure work. This alleviates pressure on Site Management Team particularly when construction delays are encountered.

Nilsen's ability to draw required labour from other sites when needed especially in the last weeks of the project to ensure project finished to programme was invaluable.

Nilsen's ability to deal directly with the client when requested on technical issues such as the communications both for copper and fibre installation, as well as lighting Control assisted the client with decision making on design queries.

Nilsen's ability to offer its experienced Switchboard Department's input into the Generator Load Shedding Strategy/Design Meetings was invaluable in the design and implementation of the Building Management System/Load Control Strategy.

Referees:

Bovis Lend Lease

Gerard Dillon
Senior Electrical Engineer

Edward Roydhouse
Construction Manager

