



CASE STUDY >

NORTHLINK STAGE 3 COMMISSIONING PROJECT

PROJECT OVERVIEW

The NorthLink Stage 3, a free-flowing dual carriageway on the northern section of NorthLink WA - Ellenbrook and Muchea. This 22 kilometer national highway consists of four lanes taking the majority of heavy traffic away from Great Northern Highway

SCOPE OF WORK

RSGx were tasked with provision of

- ◆ Electrical engineering assistance
- ◆ Electrical commissioning support
- ◆ Permit to Work system development and management

The NorthLink project team's constructive approach helped the RSGx team to manage the execution of the commissioning of the project in a safe and time efficient manner.

The following tasks were performed by the integrated team:

- ◆ Development of the commissioning inspection test reports (ITR's), functional test procedures, commissioning plans and schedules
- ◆ Creation of field inspection sheets for recording all the testing/commissioning of the electrical infrastructure
- ◆ Supervision of all electrical and communication commissioning activities onsite
- ◆ Provision of Permit to Work / LOTO system training for construction and commissioning teams and operational support
- ◆ Assistance for the client in achieving the desired outcomes for the commissioning of assets.
- ◆ Site Interface with Network Supply Authority

SOLUTION

RSGx's implementation of safe work system, training of the personnel in awareness around live services, Permit to Work, LOTO, Notice of Energisation (NOE) and boundary isolation systems proved extremely beneficial for:

1. Construction to continue within commissioning areas, thus minimising the potential impediment on the construction schedule
2. Provision of a safe and demarcated work area for construction and commissioning crews without compromising on safety

ACHIEVEMENTS TO DATE

RSGx's project involvement ranged from:

- ◆ Permit to Work system development and management
- ◆ Provision of experienced electrical supervision
- ◆ Development and completion of quality assurance documentation for both electrical and civil scopes
- ◆ Supply of experienced project engineering support

To the installation and commissioning of:

- ◆ 14 switchboards for roadway and shared path lighting
- ◆ 5 ITS (Intelligent Transport System) cabinets
- ◆ 22km Fiber backbone system
- ◆ 15 CCTV cameras.

CLIENT

CPB CONTRACTORS

SERVICES PROVIDED

FRONT END ENGINEERING DESIGN
INSTALLATION AND COMMISSIONING
ELECTRICAL & INSTRUMENTATION

SCOPE

CONSTRUCTION
PRE-COMMISSIONING
COMPLETIONS

INDUSTRY

INFRASTRUCTURE

LOCATION

PERTH, WESTERN AUSTRALIA

