



## Fact File

# Nyrstar Port Pirie Transformation Project HV Cable Relocation

### Facts

- Completion May 2015.
- > \$1.4M value + free issue cable.
- 20T of cable.
- 410m of trenching.
- 65m<sup>3</sup> of red concrete.

### Scope:

Located at the Nyrstar Smelting Facility, as part of the Transformation Project, a new furnace building and a major pipe rack was proposed to be installed in close proximity to existing 6.6kV Paper Insulated Lead Sheathed cables. The scope of work includes the replacement and re-route of HV cables. The scope of work included the Slag Fuming Plant, Blast Furnace, Acid Plant and General Office substation.

### Slag Fuming 6.6kV Cables

- Excavate 250m of trench through the existing site with approximately 30 existing in-ground services.
- Install two lengths of approximately 250m of 300mm<sup>2</sup> 3C SWA XLPE copper cable.

### General Office Substation to Workshop Substation

- Excavate an additional 70m of trench through the existing site with approximately 10 existing in-ground services.
- Install two lengths of approximately 150m of 300mm<sup>2</sup> 3C SWA XLPE copper cable.

### Workshop Substation to Blast Furnace Substation

- Excavate an additional 50m of trench through the existing site with approximately 10 existing in-ground services.
- Install two lengths of approximately 150m of 240mm<sup>2</sup> 3C SWA XLPE copper cable.

### New Blast Furnace Substation to Acid Plant Substation

- Excavate an additional 40m of trench through the existing site with approximately 10 existing in-ground services.
- Install one length of approximately 170m of 185mm<sup>2</sup> 3C SWA XLPE copper cable.

### All Re-Routed Services Included:

- Manually excavate to expose existing cable.
- Supply kits for underground cable splices and splice cables.
- Test cables and joints, continuity of earth screens and phase rotation and phase displacement.
- Supply and install protection for cabling and compact the excavation. Reinstate concrete surface with reinforcing at 250mm thick red concrete to highlight the HV cable route.

