

PROJECT DATA

Palmerston – Hadspen 220kV Transmission Line Upgrade

CLIENT	Transend Networks Pty Ltd
PROJECT LOCATION	Northern Tasman, Australia
DATE OF PROJECT	Jan 1999 - March 1999
SERVICES PROVIDED	<ul style="list-style-type: none">• Project management• Detailed design• Production of contract documentation

Project Description

The project involved upgrading a 220kV double circuit steel tower line between major switching stations from 49°C and 75°C. This had to be carried out with the minimum disruption to the system within time constraints imposed by the development of major new assets.

- Management of the design process
- Production of updating strategy
- Transmission line clearance investigation
- Transmission structural analysis
- Presentation of investigation reports
- Supply of design and provision of specification to re-rate transmission line, including materials required and detail fabrication drawings
- Verification of final line rating

The specialist services supplied required:

- The reduction of construction time and costs through the use of leading edge re-tensioning techniques that minimise construction resource requirements and optimise structure and conductor utilisation.
- Modelling of the conductor, insulator behaviour and structure loadings during the re-tensioning process, to ensure personnel and asset safety.
- Accurate tension determination methodologies.



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