



PROJECT DATA

Backup Network Control System Protection Scheme

 CLIENT	Transend Networks Pty Ltd
 PROJECT LOCATION	Palmerston, Hadspen, Sheffield, Farrell, Gordon and Hadspen substations
DATE OF PROJECT	10/14/2005 - 12/1/2004
SERVICES PROVIDED	<ul style="list-style-type: none">• Concept design of equipment, project management, secondary design, logic programming, procurement, assembly, Factory Test, outage planning, installation and commissioning

The backup NCSPS scheme is designed to protect Transend assets by detecting pre-determined transmission network conditions and take corrective actions that include tripping generation to maintain the reliability of the transmission network and minimise the possibility of damage to transmission network assets. In addition, the backup scheme is responsible for preserving system integrity in case of an NCSPS failure (ie. partial failure or total failure), or following a critical multiple contingency, which could significantly impinge system security. The backup NCSPS is required to be independent from the main NCSPS to avoid common modes of failure. In some situations if the thermal overload of transmission line(s) persist after taking corrective actions (ie. generator tripping), the overloaded circuit is intentionally tripped since this is the absolute last form of resort to protect Transend assets.



Head Office
4 Elizabeth Street
Hobart, Tasmania 7000
GPO Box 355, Hobart
Tasmania 7001, Australia
PHONE 1300 360 441
FAX +61 3 6230 5460
EMAIL
consulting@hydro.com.au
Hydro Tasmania is a business
of the Hydro-Electric Corporation
www.hydrotasmaniiconsulting.com.au