

Project Information

Project: Gartshore-TS Relocation



Owner: Brookfield Power
Contractor: EPTCON Ltd.
Design/Build & Engineering: EPTCON Ltd.

EPTCON Ltd. provided the design/build and complete engineering of a new 115kV, 5 breaker ring bus switching station and modification of 5 associated 115kV transmission line circuits connecting to the new station. The scope of work including

- Installation of a new 5 bay 115kV structure.
- Installation of 5- 115kV SF6 circuit breakers supplied by Mitsubishi Type 120 SFMT-40 1+E.
- Installation of 5- 138kV motor operated line disconnect switches and 10- 138kV Breaker disconnect switches.
- Design, supply and installation of the new switchyard ground system.
- Design and construction of the new switchyard civil works including foundation, cable trench systems, site back fill and fencing.
- Design, supply, installation and relocation of 5- 115kV transmission lines connecting to the new switchyard.

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- Design, supply and installation of a pre-wired modular type control building complete with building services, P&C panels, termination rack, and 125V DC battery systems.
- Design, supply, and installation of the line protection, bus protection, breaker facility, protection panels, communications panel and RTU system.



- Design and build of 5 circuit breaker 115kV ring bus switching station.



Complete commissioning included:

- Relay setting and programming
- Commissioning and In-Service planning
- Testing of all breakers and switches
- Function Testing of the P&C Logic
- In-Service of all equipment
- Removal of retired equipment including breaker oil removals per MOE and owner requirements.
- PCB contamination bushing removal and disposal per MOE and owner requirements.
- Removal of the old 115kV bus structure, switches, control cabling and restoration of the site.