

Project Information

Project: Patrick Street Station Refurbishment



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

EPTCON Ltd. provided the design/build and complete electrical engineering for the replacement of 8-115kV bulk oil circuit breakers with SF6 circuit breakers in a live switchyard. The scope of work included:

- Replacement of 8-115kV bulk oil circuit breakers with SF6 circuit breakers as supplied by Mitsubishi Type 120 SFMT-40HE.
- Replacement of 16 associated breaker disconnect switches.
- Replacement of 4-115kV line protection systems, breaker failure protection systems and, bus protection systems.
- Installation of a new 125V DC Battery system.
- Replacement and upgrading of a double circuit 115kV transmission line connection to the Patrick Street station.
- Reinforcement of the existing steel support structures for the disconnect switches.
- Connection of the new SCADA RTU points to system control.
- Installation of a new P&C cable trench system.

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Complete engineering included:

- Verification of existing facilities
- Design of the new system.
- In-Service planning of the new breakers and protection systems.
- Project scope plans and development.
- Updating and revision of all station protection drawing to 'As-Built' status.



Complete commissioning included:

- Relay setting and programming.
- Commissioning and outage planning
- Isolation of equipment to be replaced.
- Testing of all breakers and switches.
- Function testing of P&C logic.
- In-Service of all equipment.
- Removal of retired equipment including breaker oil removals per MOE and Owner requirements. Also PCB contaminated bushing removals and disposal per Owner and MOE requirements.

