

Project Information

Project: Patrick Street Station Service Upgrades



Owner:

Brookfield Power

Contractor & Construction:

EPTCON Ltd.

Design/Build & Engineering:

EPTCON Ltd.

EPTCON Ltd. provided the design/build and complete electrical engineering to upgrade the existing building services required for the 115kV circuit breaker project. We also completed an extension to the existing control building complete with lighting and new fire detection devices. The existing loads had to be transferred to the new equipment without interruption to the station protection relaying systems. The scope of work included:

- Installation of a new SSVT including foundation
- Design and installation of a new 120/240 VAC system including metering, panel boards, transfer switch and backup PUC supply.
- Design and installation of a new DC system including a 535Ah battery bank and charger.
- IEEE sizing of batteries.
- Preparation of the cutover execution plan, as required, to transfer the existing loads to the new DC equipment.
- Preparation of single line diagrams, layout drawings, connection wiring diagrams, and cable schedule.
- Complete commissioning of the new fire detection, AC and DC system equipment.

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