



Name:	Toronto #1 Pumping Station	Client:	Hunter Water Corporation
Owner:	Hunter Water Corporation	Site Location:	Toronto #1 Water Pumping Station
Value at Completion:	Approx. \$80,000	Year Completed:	2009

Project Description: Hunter Water Corporation called on ODG to design, manufacture, install and fully commission a new WPS switchboard for the Toronto #1 WPS. The switchboard was manufactured utilising the B&R Signature Series modular, type tested switchboard system mounted on a custom manufactured HD galvanised channel plinth. The MCC was constructed to Form 4a and IP55 degree of protection.

- Technical Highlights:**
- Design of General Arrangement drawings and Enclosure Layouts
 - Dual mechanically interlocked Incomer Circuit Breakers for mains & generator supplies c/w power monitoring via comms module.
 - 2 x 185kW VSD Starters & 1 x 205kW VSD Starter with line chokes mounted within the MCC cells and the VSDs mounted externally.
 - 1x PLC & Radio Telemetry Section & 1 x Distribution Section
 - Manufacture of Local Control Station & Remote Metering Panel
 - Factory Acceptance Testing & Commissioning

PROJECT PROFILE

Personnel:	Switchboard Manager: Brett Dunning Project Designer: Neil McLeod		
Special Project Achievements	The WPS switchboard had to be designed, manufactured, installed and commissioned to new HWC standards which were being implemented and refined during the manufacturing period.		
Quality Standards Applicable	AS/NZS 3000, AS/NZS 3439.1		
Specific OH & S Requirements	Form 4A Segregation, IP2X Protection		
Referees:	Chris Farragher Electrical Engineer Hunter Water Corp. Ph: 02 4979 9512	Russell Moate Project Engineer Hunter Water Corp. Ph: 02 4979 9675	George Carraro Electrical Engineer Macquarie Engineers. Ph: 02 4967 6701

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