

**NELSON P. TURCOTTE, P.Eng., MBA**  
**Project Director – Planning, Design and Construction/Contract Management – High Falls Generating Station Full Plant and Facility Rehabilitation (Wolverine Hydro, Inc./The Power Limited Partnership)**



**Full Rehabilitation of a 6 MW hydroelectric generating station, 12 km distribution line, substation and associated works at a site in Beardmore, Ontario on the Namewaminikan River (tributary of Lake Nipigon) – 200 km's Northeast of Thunder Bay, Ontario.**

### **PROJECT DESCRIPTION**

Full Rehabilitation of a 6 MW hydroelectric generating station, 12 km distribution line, substation and associated works at a site in Beardmore, Ontario on the Namewaminikan River (tributary of Lake Nipigon) – some 200 km's Northeast of Thunder Bay, Ontario. Wolverine Hydro, Inc. has been retained by The Power LP under a Management, Operations and Maintenance agreement.

Installation included Dam Rehabilitation, construction of a Water intake and gate, penstock, New Turbine-generator set as well as balance of plant.

The power station is equipped with one single-regulated horizontal Kaplan unit sized at 6000 kW which is fully automated

Project Cost: \$7 000 000

Execution Period: May 2006 to June 2009

### **SCOPE OF WORK**

The scope of this full rehabilitation project included:

- Feasibility Study and conceptual design including Business Case/Appropriation development that garnered the support of the owner
- Necessary permit and authorizations procurement.
- Cost estimate and production analysis
- Detailed Project Execution Phase planning, design, and Contract/Construction Management and Execution
- Procurement and purchasing of Main Turbine/Generator Equipment, Switchgear and auxiliaries and Station Start-up and Commissioning
- 12 Km – 25kv circuit retrofit, substation retrofit, demolition of old powerhouse, blasting and earth work, dewatering, new foundation walls, new superstructure and bridge crane, mezzanine, all new embedded steel (from horizontal to vertical unit), 1000 cubic meters of concrete. Unit installation, switchgear, station service and maintenance building, a.c. services, plumbing and air systems

### **CLIENT REFERENCE**

Andrew Gucciardi – principal – The Power LP

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