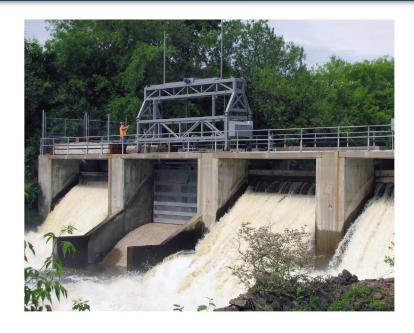
## ANF Energy Canada KOA 2ZO (613) 838-6505 www.anfenergy.ca WGC-1 Weir Gate Control System

The WGC-1 Weir Gate Control Systems allows local or remote operation of a motorized weir gate at a hydro generating facility.



## **Features**

- Station or remote operation of the Weir Gate using a PC-based Human-Machine Interface (HMI).
- Can raise and lower on command, or regulate to a selected level.
- Weir Gate

  Station Overview

  Generator 1 Mode

  Standby

  Thu 2020-05-21 09:46:29

  Thu 2020-05-21 09:46:29

  Site 1

  Weir Gate

  Overview

  Generator 1 Mode

  Standby

  Trends
  Short-Term
  Trends
  Short-Term
  Trends
  Long-Term
  Alarm/Event
  History

  Engineering

  Configuration
  Parameters

  Test Modes

  Simulator

  Fault

  No Fault

  Test Modes

  Simulator

  Test Modes

  Simulator

  Weir Gate

  OOR Low

  Down

  Weir Gate

  OOR Low

  Down

  Down

  Down

  Down

  Down

  Down

  Fall

  Fall

  Encoder

  OOR Low

  Los of VFD

  Comms

  Configuration
  Parameters

  Test Modes

  Simulator

  Fall

  Fall

- Option for gate local control.
- Built-in fault detection with email alerts.
- HMI offers real-time display and control, event logging, data logging and graphing.

PO Box 1111

Richmond, Ontario

- Remote access facilitates unmanned site operation.
- Software and hardware limits for added safety.
- HMI can be installed on a Windows PC.
- Control software hosted on an industry proven rugged PLC.
- Uses cUL/CSA approved off-the-shelf components
- Contains an embedded gate simulator allowing operator training and 'what if' studies.

## The main components of the WGC-1 Weir Gate Control System are:

- Station PLC hosting the Weir Gate Control Software.
- Human-Machine Interface (HMI) hosted on the Station PC.
- Shaft position encoder providing analog measurement of weir gate position.
- Position limit switches for additional safety.
- Local controls at the weir gate.
- Variable Speed Drive acting on the Weir Gate Motor.

The Station PLC and HMI communicate via the Site Local Area Network (LAN). Remote access and e-mail alerts are facilitated through internet access.

