

ELAN

Technologies

Inc.



MWRDGC Remote Video Surveillance

Solar Powered Video Surveillance System

CASE STUDY



- Remote Video Surveillance
- Solar and AC Power
- Snap Shot JPEG Images
- Pixel Based Motion Detection
- Permanent or Mobile
- EDACS Trunked Radio

ELAN Technologies

14627 Edison Drive
New Lenox, IL 60451

Phone: 815-463-8105
Fax: 815-463-8106

www.ELANTechnologies.net

Project Background

The Metropolitan Water Reclamation District of Greater Chicago (MWRDGC) serves a population of 5.1 million people. The District's main responsibility is protecting the water quality of Lake Michigan. The District owns hundreds of unmanned structures that are vulnerable to vandalism and terrorist attack. Homeland Security requirements have increased the requirement for surveillance of remote assets and infrastructure. Given the sizable and critical nature of the MWRD collection system, including the multi-billion dollar Deep Tunnel (TARP), a robust and reliable method was required for surveillance of these unmanned and extremely valuable structures.

MWRDGC Remote Video Surveillance System Key Features:

- Solar power and AC power solutions
- Advanced pixel based motion detection for early warning notification
- Transmit data via the District's EDACS radio system
- Works on existing analog cameras as well as new digital cameras
- Ability to accommodate hundreds of remote sites

Elan Technologies Custom Solution

The MWRDGC selected a custom video surveillance system from Elan Technologies located in New Lenox, IL. Elan dates to 1972 and the Clean Water Act, with years of innovative solutions and equipment provided to the MWRDGC. With Elan's system, JPEG images and surveillance alarms are logged and viewed simultaneously alongside process control data. The Elan driver and control system software can have multiple head end EDACS host radios connected serially, for maximum thru put and operator control. Besides video surveillance, the head end software can be configured as a high-end control system for Allen Bradley PLC based SCADA systems.

A key item in the remote surveillance solution is the Elan Series II RTU, a low power intelligent RTU with both input and output capabilities including multiple serial ports for interface to various camera systems and sensors. Other items include a sophisticated head end software driver designed with DF1 full duplex protocol and RDI for communications over MWRD's EDACS trunked radio network. Other features include: solar power and unsolicited report by exception designed to accommodate multiple images transmitting from remote sites simultaneously.

Contact ELAN Technologies

ELAN Technologies offers innovative, custom open channel flow monitoring solutions to meet any flow application and regulatory requirement. When you have a tough application, call ELAN. For information on fixed sewer flow monitoring systems, contact ELAN Technologies on the web at www.ELANTechnologies.net

