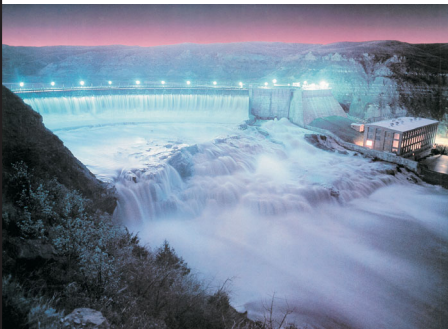# MSE-TETRAGENICS

SCADA SOLUTIONS

MSE-Tetragenics provides Supervisory Control and Data Acquisition **(SCADA) Systems** for electric power generation stations, transmission lines, industrial building security systems, substations, and fresh water and wastewater management systems. We can customize the SCADA systems for specific applications and include operator requested features.

SCADA Plant Control System at Ryan Dam, Montana

MSE-Tetragenics provides total automation systems, monitoring and control, data acquisition, and system integration. We specialize in SCADA for plant control systems used in hydro and substation automation and communications monitoring systems. We develop hardware and software solutions, including remote terminal units (RTUs), master control software, protocol translators, and communication analyzers. Our products are in communications companies and electric, water, and wastewater utilities throughout the United States and Canada.

MSE Technology Applications, Inc. provides engineering and technology solutions and specializes in cutting-edge research and design of aerospace, energy, and waste treatment projects. We develop unique, engineering solutions for government, private, and commercial agencies.

Versatile and Complete Systems

Master Platforms
- single or dual Master systems that interface with thousands of input/output points
- Ethernet, Intranet/Internet, and dialup capabilities at your fingertips
- ideally suited for monitoring and control systems that require performance and scalability

Intelligent RTUs
- reporting by exception
- one-rack units available
- modular design can perform calculations and repetitious tasks

Graphical User Interfaces
- view and control a Master system from local or remote locations or over the Internet
- use multitasking and multisession capabilities of your computer while interfacing to your Master system
- view your system over the Internet through a secure interface

Engineering Services/System Integration
- specialists in turnkey applications
- engineering services to expand existing installation or system
- software engineering
- hardware engineering
- project engineering/management

Factory Acceptance Testing (FAT)
- FAT performed in house in a controlled environment
- FAT performed at customer location

Security Features
- secure system access via software passwords and usernames

Programmable Logic Controllers (PLC)
- a variety of PLC devices and engineering services available

Features
- security features - alarm annunciation, area access control, and building environment control
- sequential control features
- complete documentation
- help systems
- accurate time tagging
- hysteresis and filtering
- watchdog timers
- interval processing
- analog averaging
- special alarm functions
- point overrides
- control tags
- fast processing program code resides in Erasable Programmable Read-Only Memory (EPROM)
- Proportional Integral Derivative (PID) Closed Loop Control
- versatile software modules to customize features to individual plants.

Monitor and Control

Potable and Fresh Water Management
- water levels and storage
- flow control/monitoring
- water treatment
- water temperatures
- metering

Wastewater Management
- fluid levels
- chemical treatment injection
- pump controls
- fluid temperatures
- bacteria levels

MSE TG Tetragenics ®

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