



GENERAL

BGE has placed an order with Motorola Inc. for the supply of an advanced integrated radio data communication system for their Distribution Automation (DA), Automatic Meter Reading (AMR), SCADA, and Capacitor Control functional areas.

The new system, based on Motorola's advanced MOSCAD RTU, monitors and controls: 8 distribution capacitor banks, 2 low-voltage StatSwitches, and 2 34kV VBM sectionalizers. Complete access of all power monitoring data at several substation RTUs is made possible through the MOSCAD AC Analyzer.

MOSCAD & MDLC

In this project, the MOSCAD RTU performs various functions such as, emulation of protocols, data encapsulation, and also monitoring and control of various equipment such as capacitor banks, sectionalizers, etc.

The MDLC communication is implemented over territory-wide microwave and MAS radio systems. The data radio network supports several data rates and protocols. Microwave channels use 9,600 bps. The system uniquely combines the microwave high speed resources with 13 different 900MHz MAS frequencies at each of 17 different sites for local networking.

SYSTEM OVERVIEW

Since the Master Control Center (MCC) consists of three systems: RealFlex, Wonderware and IRIS, a special FIU has been provided. The FIU consists of four CPUs, performing: (1) interfaces to the RealFlex host application processor for monitor and control of all Distribution Automation functions, (2) gateway to the IRIS System 2020 for all the utility's residential metering applications, (3) interfaces to InTouch by Wonderware via ModBus driver for DA functions, system maintenance, and industrial/commercial metering, and (4) MOSCAD network management using the Programming Tool Box.

CAPACITY & FUTURE EXPANSION

The complete system includes 17 MAS master RTUs, 40 Distribution Automation RTUs, 8 capacitor bank RTUs, and 2 substation SCADA RTUs.

BGE has acquired one of the most advanced state of the art SCADA/data integrated system. Because of Motorola's user-oriented design and unique protocol transparency, no changes were required in BGE departmental operations. In the future, it will remain the decision of BGE to move forward with AMR, DA, or SCADA, based on their financial/design considerations; MOSCAD will not take any option from them □

FEATURES	BENEFITS
MDLC communication protocol	Optimized, efficient, and reliable data communication to handle large volumes of data
MDLC–MODBUS connectivity and data encapsulation capability	Allows connection to various software such as RealFlex and InTouch of Wonderware, and integration into one central data communication system
Multi-protocol processor based on Motorola 68302	Allows multi-tasking operation with on-line network monitoring, traffic analysis, on-line diagnostics, remote monitoring and error logging
Upload/download capability	Application program can be easily changed and downloaded to the RTUs in the field
Remote diagnostics	Permits maintenance staff to identify and correct problems at the RTUs from any site in the system

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