



GENERAL

The municipality of Chongqing has placed an order with Motorola, for the supply of an advanced integrated communication and control system for their pipeline network, water plant and pump stations.

The new system, based on Motorola's sophisticated MOSCAD RTU, functioning as a pump station RTU and pipeline RTU, also interfaces to existing equipment of F&P, using the Modbus protocol.

MOSCAD & MDLC

In this project, the MOSCAD RTU is used to monitor and control various equipment installed

along the pipeline and also to control the operation of the pump stations.

The MDLC communication is implemented over two frequencies in the 230 MHz band. Some RTUs use the Store&Forward function in order to provide full radio coverage.

Using MDLC protocol, based on ISO/OSI seven layers reference model, ensures efficient and reliable data communication.

SYSTEM OVERVIEW

The system comprises one Master Control Center (MCC) and 54 MOSCAD RTUs, divided into three sub-systems: two with CSI sub-central

station and one existing with F&P sub-central station.

The MCC is based on CSI system. The MCC is linked to the MDLC network by means of the MCP-T (MDLC Gateway for TCP/IP) in redundant configuration.

CAPACITY & FUTURE EXPANSION

The first stage of this project includes 54 MOSCAD RTUs.

The municipality of Chongqing is planning to expand their pipeline and add tens of RTUs accordingly. □

FEATURES	BENEFITS
MDLC communication protocol	Optimized, efficient, and reliable data communication for reporting alarms
Protocol Emulation Capability	Provides connection to the existing F&P DCU
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 or modified and downloaded to the RTUs in the sites
Remote diagnostics	Permits maintenance staff to identify and correct problems at the RTUs from any site in the system

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