



GENERAL

Naphta, the Israeli National Gas company, has placed an order with Motorola Inc. for the supply of an advanced radio control system for their gas line supply for the city of Arad. The system was taken into full operation during winter of 1993.

The system allows remote operation of all the stations along the gas line, pumps and valves. Furthermore, the system continuously checks for leakages and alerts the operator accordingly.

The new system, based on Motorola's advanced MOSCAD RTU, is an expansion of the existing system based on the Modicon 984 PLC.

MOSCAD-MODICON, MDLC-MODBUS

In this project, Motorola has combined two types of remote units (MOSCAD RTU and Modicon PLC) into one complete system.

The FIU includes two MOSCAD CPUs in order to allow connection to four communication ports: (1) control center, (2) radio, (3) Modicon PLC, and (4) MOSCAD Programming Tool Box. MOSCAD CPU #2 communicates with the Modicon PLC using Modbus protocol.

This project implements two protocols (MDLC and Modbus) into a single MOSCAD system.

SYSTEM OVERVIEW

The Master Control Center (MCC) computers are based on WIZCON OS/2 SCADA software and Motorola front-end MDLC Driver.

CAPACITY & FUTURE EXPANSION

The system currently includes 6 MOSCAD RTUs and 2 Modicon 984 PLCs.

Naphta plans to expand the current system with another 60 MOSCAD RTUs. □

FEATURES	BENEFITS
MDLC communication protocol	Optimized, efficient, and reliable data communication to handle large volumes of data over various communication media
MDLC–MODBUS connectivity	Allows to expand an existing system without any modifications
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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