



GENERAL

EGAT, the Electricity Generating Authority of Thailand, has placed an order with Kontrol Services, Motorola's distributor in Thailand, for the supply of an advanced integrated control and radio communication system to control the Bang Pakong tank farm. This farm consists of 5 petrol tanks.

The new system, based on Motorola's sophisticated MOSCAD RTU, monitors the petrol level in the tanks, and performs various calculations.

MOSCAD & MDLC

In this project, the MOSCAD RTU utilizes a dual-CPU configuration (two MOSCAD CPUs:

primary and secondary) for redundancy purposes. It also combines radio and line communications. The MOSCAD RTU also reports to the control center about unusual events such as high petrol level.

The MDLC communication is implemented over UHF radio in the 403-430 MHz band.

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

SYSTEM OVERVIEW

The system comprises two control centers: one as Master Control Center (MCC), and one as Secondary Control Center (SCC); the communication link between the MCC and SCC

is via UHF radio. The control centers are based on FIX DMACS GUI software package of Intellution in Windows environment and Motorola MDLC Driver.

The MCC and SCC also include a local station for collecting data.

CAPACITY & FUTURE EXPANSION

The system currently includes 5 MOSCAD RTUs for the Bang Pakong area .

In the future, the system will be expanded to other areas throughout Thailand. □

FEATURES	BENEFITS
MDLC communication protocol	Optimized, efficient, and reliable data communication to handle large volumes of data over various communication media
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
Dual-CPU configuration	Provides full redundancy for the MOSCAD RTU and therefore, a fail-safe system
Upload/download capability	Application program can be easily changed or modified 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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