



GENERAL

Kuzbassenergo, a utility company at Kemerovo city has placed an order with Kama International, Motorola's distributor in Russia, for the supply of an advanced integrated control and radio communication system to control the water heating system at Kemerovo in Siberia.

The new system, based on Motorola's sophisticated MOSCAD RTU, performs electrical and heat output calculations, and presents the field data in hydraulic charts and tables.

MOSCAD & MDLC

In this project, the MOSCAD RTU monitors and controls all the elements of the heating station such as, pumps, valves, tanker's level, etc.

The MDLC communication is implemented over VHF radio in the 142-174 MHz band.

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

SYSTEM OVERVIEW

The system comprises of one control center, including two SCADA nodes: one as primary and the second as secondary in hot-standby configuration, and three VIEW nodes. One of the VIEW nodes is connected via a TRE (Token Ring Extender).

All node computers are inteconnected in a token-ring LAN. The control centers are based on FIX DMACS software package of Intellution.

CAPACITY & FUTURE EXPANSION

The system currently includes 30 MOSCAD RTUs dispersed in the area of the Kemerovo city.

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

| FEATURES | BENEFITS |
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| 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 |
| 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 |

For further information contact:

USA

Tel: 1-800-247-2346
Fax: 1-847-725-4244

Canada

Tel: 1-800-268-5758
Fax: 1-416-758-6744

Latin America

Tel: 1-954-723-8563
Fax: 1-954-723-8560

Australia/Pacific

Tel: 61-3-9213-7966
Fax: 61-3-9213-7956

North Asia

Tel: 852-2966-4366
Fax: 852-2966-4388

South Asia

Tel: 65-481-7200
Fax: 65-481-9282

Middle East & Europe

Tel: 972-3-565-8127
Fax: 972-3-562-5774