

Case Study – Chelopech Mining EAD, Bulgaria

Background

The Chelopech Mine is located in central-western Bulgaria approximately 70 kilometres east of Sofia, the national capital, on the southern flank of the Balkan Ranges. The deposit lies in the northern part of the Panagyurishte mining district where a number of cupriferous massive sulphide and porphyry copper deposits exist.

The operation mined 906,070 tonnes of ore and produced 65,060 tonnes of copper/gold concentrate in 2007.

Minecom Solutions

Minecom have developed a strong relationship over the years with the Chelopech Mine as one of our premier clients. The Chelopech Mine is supported by a VHF Leaky Feeder System. The VHF MCA1000 series Leaky Feeder Head End unit is the nucleus, or core, of the Minecom Leaky Feeder system. Its purpose is to combine the RF outputs of up to 64 low powered Transmitters and the RF inputs of up to 64 VHF Receivers and produce up to 16 PAL video channels with a single 50 ohm output, 19 inch 3RU rack unit, providing the necessary interface between the base radios, video demodulators/ monitors etc. and the leaky feeder cable.

The standard MCA1000 Head End is capable of providing up to 8 full duplex channels. Additional channel expansion units can be used to increase the number of useable channels to 16, 24, 32 or 64 respectively.

Chelopech recently upgraded to digital technology using the Motorola MotoTRBO DP3400 which provides clearer audio, lower background noise, and better error correction (less signal drop-outs). The Minecom Leaky Feeder System is the core for the digital two-way radios. The radios can have both digital channels and analogue channels programmed into its channel slots giving the best of flexibility.