



Kabelwerk **EUPEN** AG
cable



Lanigan Potash Mine

Eupen delivers 1km vertically installed radiating cable optimised for VHF (138-174 MHz) mine operations two-way radio system

Customer Potash Corporation of Saskatchewan, Canada

Situation The Lanigan Potash mine in Saskatchewan is operated by the Potash Corporation of Saskatchewan and is one of 10 operating mines in the province.

Potash is a powdery substance that is mined at a depth of approximately 1 km below surface using large vehicles scraping the powder off the walls and depositing it on fast moving conveyors. Two "skips" or large metal containers capable of holding 50 tonnes of powder each are hoisted to the surface by 8000 horsepower electric motors, every minute. 100 tonnes per minute of Potash powder are loaded onto rail cars on site and are shunted to an international destination.

Challenges With the amount of powder being moved, dust is constantly in the air and the workings of the mine, the skips and the shaft itself need constant maintenance. The two-way radio system driven from a yagi antenna at the surface could not penetrate to the depths of the shaft due to the presence of the large metal skips. For the safety of the workers in the shaft and the mine, operations management had to find a solution for better radio coverage.

Solution

Glentel, the Motorola two-way radio dealer supplying the radio system to the Lanigan mine, began searching for a solution at the request of mine operations management and found it at Kabelwerk Eupen AG.

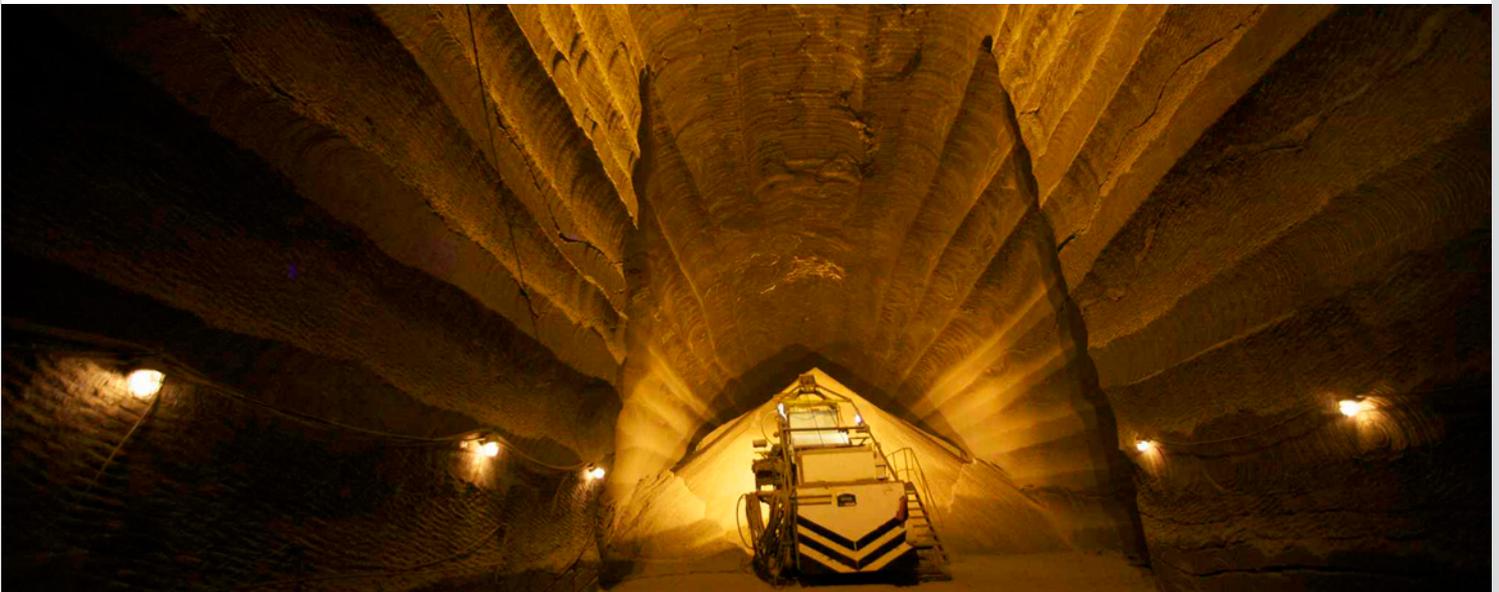
The Solution proposed by the technical department of Kabelwerk Eupen AG entailed an Eupen Radiating Cable F-RMC 78-B-HLFR to be installed vertically inside the Mine Shaft and connected to the radio base station on the surface. The vertical installation was made possible by the messenger wire held by specialized weight bearing clamps. Lanigan's own Maintenance department installed the cable as proposed.

Contact

Kabelwerk Eupen AG
Malmedyer Str. 9
B-4700 EUPEN
Belgium

Tel:- +32 87 59 70 00
Fax:- +32 87 59 70 60

Email: rf_products@eupen.com
Website: www.eupen.com



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