Case Study

Morning Star Gold Mine, Australia

BACKGROUND

The Morning Star Gold Mine is located in the Woods Point-Walhalla Goldfield, a small mining area 120 kms east of Melbourne, Victoria. Being Australia's second ranked hard rock goldfield, gold has been mined here for around 150 years and is typically hosted in quartz reefs and ladder veins in fractured mafic & gabbroic dyke structures upthrusted through sediments. Morning Star Gold has rebuilt and reopened the mine in 2011 for gold production including the main vertical mineshaft that was 940 metres deep with over 23 levels. This type of underground radio technology was not available when the mine was last operational when at one point in the early 1940s it was Australia's premier gold mine. Leaky Feeder is a reliable and proven technology for effective underground radio communication.

CHALLENGES

To provide clear and reliable above and below ground communications.

SOLUTIONS

Minecom (now PBE Australia) installed a Minecom Head End Combiner and above ground antenna. With the completion of the Minecom Leaky Feeder System the site will have complete above and below ground communication coverage. The Minecom Leaky Feeder System's backbone also allows for upgrading capabilities such as new digital radios or Minecom's Emergency Management solutions which work over the system and can be AC or Leaky Feeder powered. With the incorporation of these and other new technologies the Morning Star Gold Mine may once again be Australia's premier gold mine.

PBE

HISTORY

The Pyott-Boone Electronics (PBE) mission has always been to design and build reliable, high tech equipment for mine safety and productivity. Four decades later that tradition continues as we provide mine-wide monitoring and communications equipment all over the world.

PBE has installed its Minecom Leaky Feeder communications systems and proprietary personnel and vehicle tracking system in over 100 underground mines, enabling real-time reporting and tracking information improving mine safety and productivity. The PBE MineBoss™ monitoring system is currently operating in over 300 U.S. mines, and we are the leading U.S. manufacturer of conveyor monitoring and controls, wired and wireless gas monitoring, fire and dust suppression and paging telephone lines, with installations in mining operations all over the globe.

PBE is also the largest Authorized Motorola Two-Way Radio Dealer in the U.S. coal industry. Not only are the Minecom Leaky Feeder and PBE tracking systems suited for post accident applications, they serve as superior productivity tools.

As your 'one-stop-shop' for safety, monitoring and communications systems our customer oriented, global distributor network and dedicated in-house sales and service staff are here to support your mining operations today and for years to come.

OUR SOLUTIONS

PBE was founded to supply eastern U.S. coal mines with quality electronic equipment and we continue to do so, but over the years we have expanded our sales to include many other industries all over the world.

Solutions we provide:

- Underground Radio Communications
- Mine Wide Monitoring and Control
- Personnel and Equipment Tracking
- Gas and Atmospheric Monitoring
- Conveyor and Motion Monitors
- Transient Voltage Suppression
- Fire and Dust Suppression

Industries we serve:

- Surface and Underground Coal Mines
- Metal and Non-Metal Mines
- Natural Gas Producers
- Processing Plants
- Utility and Transit Tunnel Projects
- Construction Industries
- Water Treatment Plants

For more information visit our website or contact your local distributor or a PBE sales representative.

PBE

INNOVATING SAFETY
POWERING PRODUCTIVITY

sales@pyottboone.com
sales.aus@pyottboone.com
www.pyottboone.com