



FirePro Glencore Mt Isa

Location: Australia

Application: Light Vehicles

Industry: Mining

GLENCORE X

xstrata



Operating since 1924, Glencore Mt Isa is part of one of the world's largest mining companies. Mt Isa has two separate mining and processing streams, copper and zinc. With the largest zinc resource base and the biggest underground network of mines in the world, we provide work for more than 3,200 employees and contractors.

Our products are exported to 16 countries across Asia, Europe and the United Kingdom, contributing billions of dollars to the Australian economy every year.

Risks Involved & Consequences

A fire from a hydraulic drive and/or a high pressure hose or electrical source can rapidly destroy all equipment. All mining equipment heavy equipment which must cope with difficult working conditions, these risks become exaggerated. Fire systems are required to protect and reduce collateral damage across all equipment.

The Task

Design and install a fire suppression system that will protect the engine bay and hydraulic compartments of a light vehicle. The enclosures have diverse fire risks and therefore, the technology needed to be effective against multiple classes of fire. It should also require as little maintenance as possible and be in line with Australian Standards, Health & Safety and protection of the Environment (HSE) strategy. Likewise, the systems needed to autonomously monitor and protect the enclosures from various fire scenarios.



Why FirePro ?

Firstly, the FPC Compound found inside the FirePro generators is effective against various classes of fire (A, B, E). Secondly, the compactness and modularity of the system allows fire engineers to customise the design and efficiency according to project mission and space requirements. The size of the FirePro units allows for the units to fit within the tight space requirements of the machine. Furthermore, the FPC poses no active threat to operators and will remain environmentally friendly even after activation which is in line with environmental policy. Finally, the generators have a 15-year lifetime cycle and no re-filling requirements thus very low maintenance.

Results & Implementation

Detection and extinguishing systems were installed to the engine bay. Looming fires are detected and extinguished at a very early stage while alarms notify the operator and other personnel of the fire hazard. The systems can be easily reached providing a convenient maintenance process. More importantly, there are no Health and Safety issues of concern in regards to the units. Additionally, FirePro's FPC compound 15-year life span and low system maintenance maximises ownership benefits and value for the company.

