Life Of Mine Ventilation Requirements For Bronzewing Mine

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Life Of Mine Ventilation Requirements

This paper examines the ventilation requirements for the Life of the Bronzewing Mine by using ventilation software, VentSim. The current ventilation conditions are simulated and evaluated in terms of the future ventilation requirements. An optimisation process, based on the proposed mine production plans, is performed to arrive at the

LIFE OF MINE VENTILATION REQUIREMENTS FOR BRONZEWING MINE ...

The current ventilation conditions are simulated and evaluated in terms of the future ventilation requirements. An optimisation process, based on the proposed mine production plans, is performed to arrive at the most efficient and cost effective use of the current airflow to supply sufficient air to working areas of the future stopes.

Chapter 114 LIFE OF MINE VENTILATION REQUIREMENTS FOR ...

Life-of-mine ventilation and refrigeration planning for Resolution Copper Mine Shafts and primary ventilation infrastructure Figure 5 shows the life-of-mine primary ventilation circuit. No. 11, No. 12, and No. 13 Shafts will downcast and No. 9, No, 10, and No. 14 Shafts will upcast together with exhaust vvia the conveyor drift.

Life-of-mine ventilation and refrigeration planning for ...

The mine is planned to be a large, deep and hot, block cave operation. RCM is currently undertaking a prefeasibility study for the project life-of-mine. In the course of this prefeasibility work, ventilation and refrigeration studies have been carried out to establish: • heat loads, cooling, ventilation and refrigeration requirements

Life-of-Mine Ventilation and Refrigeration Planning for ...

A ventilation planning framework with a focus on life-of-mine plans has been developed and was validated with a case study. The framework reconciles the mine production plan with the ventilation plan by creating design acceptability criteria, and from these, minimum airflow requirements for the production plan are set.

A FRAMEWORK FOR LIF E OF MINE VENTILATION PLANNING WITH A ...

primary ventilation system, that is the total volume flow through the mine which is conducted through the major underground workings, normally involving splits into parallel circuits. Factors which determine total primary volume capacity (and pressure) requirements for a mine include the extent and depth of the mine, the complexity, and the stoping

UNDERGROUND VENTILATION (METALLIFERROUS MINES) GUIDELINE

A mine ventilation system must prevent the release of dust into the GBA, and remove air contaminated with dust from the areas where men and machinery are traveling or working. Blasting is the biggest single source of mine dust and is the most difficult process in which to control the release of dust.

Underground Mine Ventilation | Technical Aspects of Mining ...

The mine layout determines quantitatively the air flow requirements at different stages of the life of the project. This is dictated by the tonnage produced and the methodology adopted (usually degree of mechanization). The size of ventilation systems is also determined by the degree of scatter of mining operations. The creation of a number of

Ventilation strategies to meet future needs of the South ...

equipment. Table 1gives a selection of statutory ventilation requirements for prominent mining countries. Table 1 – Selected ventilation regulations for diesel mining equipment (Gangal, 2012) Location Statutory Ventilation Rate(s) Australia 0.06 m 3/s per kW minimum Canada Varies by province from 0.045 – 0.092 m 3/s per kW

ESTABLISHING TOTAL AIRFLOW REQUIREMENTS FOR UNDERGR OUND ...

In ventilation engineering we classify it as primary and secondary ventilation. 2.2.1 Primary ventilation The basis of effective ventilation of underground mines is the adequacy of the primary ventilation system which is the total volume flow through the mine which is conducted through the major underground workings, normally involving splits into parallel circuits.

REVIEW OF DEEP CENTRAL VENTILATION SYSTEM

ventilation system was required to support these transitions to the final configuration. A framework for ventilation planning has been developed and was utilized to select a ventilation plan that will meet the requirements of the life -of-mine plan. Ventilation and Primary Fan Description

Life of Mine Ventilation Planning at Diavik

Request PDF | LIFE OF MINE VENTILATION REQUIREMENTS FOR BRONZEWING MINE USING VENTSIM | Bronzewing Mine is located in the centre of the Yandal Belt, 360 km north of Kalgoorlie in Western Australia.

LIFE OF MINE VENTILATION REQUIREMENTS FOR BRONZEWING MINE ...

Ventilation Requirements. The contaminants to be controlled by dilution ventilation are primarily gases and dust, ... It is rare that a main fan is required to operate at the same duty point over the life of the mine, and effective methods of varying fan performance are desirable.

Ventilation and Cooling in Underground Mines

Mine ventilation demands change significantly over the life of the mine. A mine ventilation system can be expanded over the life of the mine by adding air supply and exhaust capacity by means of additional shafts, drifts, and fans. Conversely, mined-out areas should be sealed as soon as they no longer require ventilation.

Mine ventilation networks optimized for safety and ...

Ventilation requirements for modern diesel engines, in Proceedings of 14 th US/North American Mine Ventilation Symposium, Salt Lake City, Utah, USA, (eds: F. Calizaya and M.Nelson), pp. 249-256.

(PDF) Ventilation requirements for diesel equipment in ...

Ventilation on Demand allows the optimization of airflow to each section of the mine based on the real time positioning requirements of equipment.

Based on the location and ventilation requirements of each piece equipment auxiliary fans can be used to redirect airflow to provide the required level of ventilation.

Ventilation - QueensMineDesignWiki
In some underground mines it has been observed that the primary focus during feasibility studies is to determine the best way to mine the defined orebody. Some studies have been conducted without sufficient consideration of the ventilation and cooling requirements or the risk from exposure to associated airborne pollutants caused by the mining operations.

Feasibility Studies – What Should Be Considered in Terms ...
Underground mine ventilation provides a flow of air to the underground workings of a mine of sufficient volume to dilute and remove dust and noxious gases (typically NO x, SO 2, methane, CO 2 and CO) and to regulate temperature.The source of these gases are equipment that runs on diesel engines, blasting with explosives, and the orebody itself. ...

Underground mine ventilation - Wikipedia
Rules for calculation of air requirements in underground mines The main parameter of the mine ventilation system is the flow of fresh air to be blown in the workplace. From the supply point of view of oxygen requirements for human consumption and internal combustion engines (diesel), there are specific rules to be observed which are adopted in each country. The common reasoning for the ...