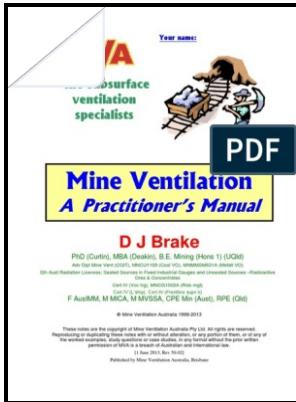


Reduction of airborne contaminants from welding exhaust at surface mines

U.S. Dept. of the Interior, Bureau of Mines - How to Control Dust at a Construction Site



Description: -

Dust control.

Fume control.

Welding -- Safety measures.

Strip mining -- Safety measures. Reduction of airborne contaminants from welding exhaust at surface mines

Information circular (United States. Bureau of Mines) -- 8868.

Information circular -- 8868. Reduction of airborne contaminants from welding exhaust at surface mines

Notes: Bibliography: p. 11.

This edition was published in 1981



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Tags: #Local #Exhaust #Ventilation #for #the #Control #of #Welding #Fumes #in #the #Construction #Industry—A #Literature #Review

CDC

Designated Hot Work Area - A permanent area that has been designated by INLOCC for the performance of hot work operations such as welding, torching, grinding, cutting, etc.

CDC

They also noted the effectiveness of open-type push-pull units for some welding applications.

Environmental Laws and Regulations

In this situation, lead becomes airborne as a volatilized component of the coating. Conditions within the work environment on the day or week of sampling must be similar to those likely to be experienced by the miner when sampling is not being done.

MSHA: INTRODUCTION TO OPERATOR AIR SAMPLING PROGRAMS

Problems with this type of control include reduction in the drilling rate, lack of reliable water supply and displacement of oil resulting in increased wear on lubricated parts. The dusty nature of the mining process means that operators will always need to be controlling it. Unless the component is seriously deteriorated, occupational exposures during this operation are minimal.

Guidance about dusts and other airborne contaminants

Asbestos or fibrous dust is created and released into the ambient air by the breaking, crushing, grinding, drilling, or general abrasive handling of a solid material having fibrous components. Wet Abrasive Blast Cleaning Text version of Figure V:3-1.

Guidance about dusts and other airborne contaminants

The brushes prevent dispersion of the abrasive and debris as they rebound from the steel surface.

Air and Climate Applications

Additionally, employees are required to attend training when a new process or equipment has been obtained, when an unsafe act has been observed, or when the supervisor feels that retraining is necessary. The fraction of the total dust which is respirable varies widely depending upon the nature of the operation and the composition of the ore. In longwall mining, dust generation can be reduced by cutting coal in one pass rather than two across the face and tramping back without cutting or by a clean-up cut.

Welding

Safe Work Australia has published a revised version of the with the new TWA for respirable crystalline silica. The primary exposure to fumes occurs while dipping the ladle into the lead pot, carrying the ladle by hand to the solder area, and pouring solder into the pipe joint. Water sprays, strategically placed close to the cutterhead and forcing dust away from the miner and towards the face, also assist in reducing exposure.

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