

Recommendations for a New Rock Dusting Standard to Prevent Coal Dust Explosions in Intake Airways (Paperback)



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(Dr. Daphnee Homenick II)

RECOMMENDATIONS FOR A NEW ROCK DUSTING STANDARD TO PREVENT COAL DUST EXPLOSIONS IN INTAKE AIRWAYS (PAPERBACK)

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Createspace, United States, 2013. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.The workings of a bituminous coal mine produce explosive coal dust for which adding rock dust can reduce the potential for explosions. Accordingly, guidelines have been established by the Mine Safety and Health Administration (MSHA) about the relative proportion of rock dust that must be present in a mine s intake and return airways. Current MSHA regulations require that intake airways contain at least 65 incombustible content and return airways contain at least 80 incombustible content. The higher limit for return airways was set in large part because finer coal dust tends to collect in these airways. Based on extensive in-mine coal dust particle size surveys and large-scale explosion tests, the National Institute for Occupational Safety and Health (NIOSH) recommends a new standard of 80 total incombustible content (TIC) be required in the intake airways of bituminous coal mines in the absence of methane. MSHA inspectors routinely monitor rock dust inerting efforts by collecting dust samples and measuring the percentage of TIC, which includes measurements of the moisture in the samples, the ash in the coal, and the rock dust. These regulations were based on two important findings: a survey of coal dust particle size that was performed in the 1920s, and large-scale explosion tests conducted in the U.S. Bureau of Mines Bruceton Experimental Mine (BEM) using dust particles of that survey s size range to determine the amount of inerting material required to prevent explosion propagation. Mining technology and practices have changed considerably since the 1920s, when the original coal dust particle survey was performed. Also, it has been conclusively shown that as the size of coal dust particles decreases, the explosion hazard increases. Given these factors, NIOSH and MSHA conducted a...



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