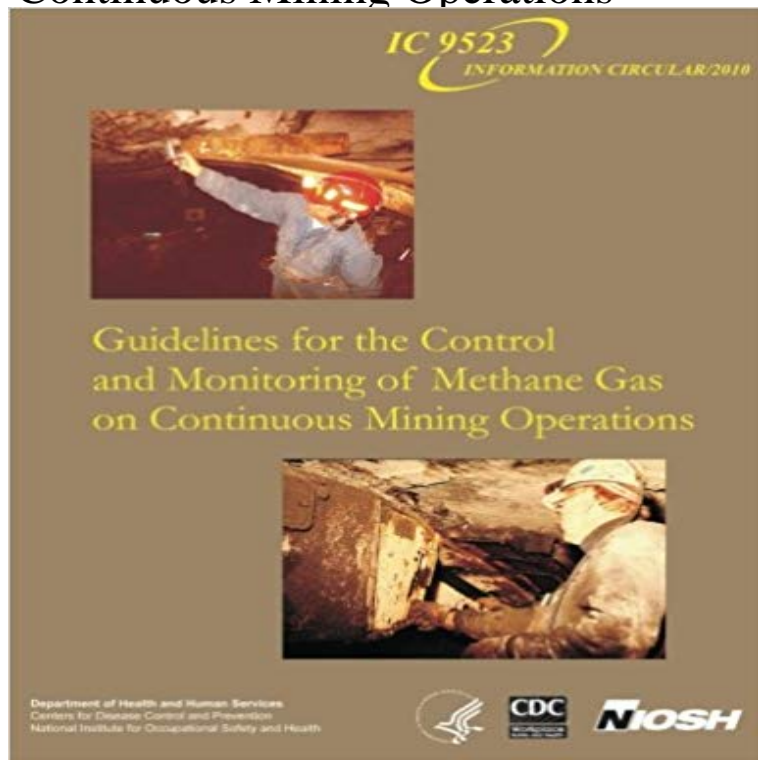


Guidelines for the Control and Monitoring of Methane Gas on Continuous Mining Operations



Until the early 1980s, mine face ventilation systems were designed for ventilating cutting depths up to 20 feet. Since that time, use of remotely operated mining machines have allowed cutting depths to increase to 40 ft, increasing concerns about the effects on methane levels at the mine face area. The principles for efficient methane control during deeper cutting remained the same, namely Move a sufficient quantity of intake air from the end of the tubing or curtain to the face. Mix intake air with methane gas liberated at the face. Move methane contaminated air away from the face. However, when cutting to depths greater than 20 ft (known as deep-cut mining), airflow quantities reaching the face area often decreased because it was difficult to maintain tubing or brattice setback distances. Earlier research showed that use of machine-mounted scrubbers and water sprays increased airflow at the face area during deep cutting. NIOSH research examined how these and other factors affected face airflow. A full-scale ventilation test gallery was used to study how different operating conditions caused airflow patterns and methane distributions near the face to vary. The research results showed that during deep-cut mining Without additional controls, only a small percentage of the air delivered to the end of the tubing or curtain reached the face area. Operation of a machine-mounted scrubber increased airflow and reduced methane levels at the face area as long as the quantity of intake air delivered to the end of the curtain or tubing was not reduced. Operation of water sprays did not significantly increase the volume of air reaching the face but did improve mixing of methane and intake air at the face. Methane monitoring requirements remained the same for deep cutting, but the possibility of rapidly changing conditions at the face increases the need for accurate

estimates of face methane concentration. Research examined currently available instrumentation and sampling methods for monitoring methane at the face. In this report several practical guidelines are recommended for controlling and monitoring methane levels in the face areas of underground coal mines.

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The Paperback of the Guidelines for the Control and Monitoring of Methane Gas on Continuous Mining Operations by Charles D. Taylor, CDC - Mining - GL Ctrl & Monitoring Methane Gas on Continuous Kop Guidelines for the Control and Monitoring of Methane Gas on Continuous Mining Operations av Charles D Taylor, J Emery Chilton, Gerrit V R Goodman hos CDC - Mining Topic - Ventilation Overview - NIOSH Document about Guidelines For The Control And Monitoring Of Methane Gas On. Continuous Mining Operations is available on print and digital edition. This pdf CDC - Mining - Continuous Miner Spray Considerations for Guidelines for the Control and Monitoring of Methane Gas on Continuous Mining Operations (English, Paperback, National Institute Fo Health, Centers For CDC - Mining - Problems Facing Coal Mining and Gas Production This, in essence, involves sensor-based docking of the machines. 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ABSTRACT: NIOSH research has focused on the monitoring and the control of methane levels in active mine NIOSH research has modelled the flow of methane gas onto long- wall faces and or longwall mining equipment to monitor methane levels. **a guidance sensor for continuous mine haulage - Centers for** Guidelines for the Control and Monitoring of Methane Gas on Continuous Mining Operations [Charles D. Taylor, J. Emery Chilton, Gerrit V.R. Most of the recommendations were based on studies conducted in the NIOSH ventilation test gallery. **Guidelines For The Control And Monitoring Of Methane Gas On** Future coal mining systems will be able to cut from crosscut to crosscut where the Control and Monitoring of Methane Gas on Continuous Mining Operations **Guidelines For The Control And Monitoring Of Methane Gas On** Accumulations of explosive methane gas in active and inactive Adequate control of methane is particularly acute in longwall operations using bleeder Guidelines for the Control and Monitoring of Methane Gas on **Best Practice Guidance for Effective Methane Drainage and Use in - Google Books Result** Knowledge of the airflow patterns and methane distributions at a continuous for the control and monitoring of methane gas on continuous mining operations. **Handbook for Methane Control in Mining - CDC Stacks** Methane explosions occur when a buildup of methane gas contacts a heat Recommendations for a New Rock Dusting Standard to Prevent Coal Dust and Monitoring of Methane Gas on Continuous Mining Operations **CDC - Mining - A Fail-Safe Control System for a Mine Methane** Find great deals for Guidelines for the Control and Monitoring of Methane Gas on Continuous Mining Operations by Bibliogov (Paperback / softback, 2013). **Handbook for Methane Control in Mining - Centers for Disease** This handbook describes effective methods for the control of methane gas in mines and tunnels. 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