



Laboratory and Field Performance of a Continuously Measuring Personal Respirable Dust Monitor

By Department of Health and Human Services: Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health (NIOSH)

Bibliogov, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.The National Institute for Occupational Safety and Health (NIOSH), through an informal partnership with industry, labor, and the Mine Safety and Health Administration, has developed and tested a new type of instrument known as the personal dust monitor (PDM). The dust monitor is an integral part of the cap lamp that a miner normally carries to work and provides continuous information about the amount of respirable coal mine dust in the breathing zone of that individual. Testing was conducted on 25 prototype instruments in the laboratory to verify the instruments accuracy as received from the manufacturer and after a period of underground use. The laboratory testing verified previous work; there is a 95 confidence that the individual PDM measurements were within 25 of reference measurements. In-mine testing determined the precision, durability, and miner acceptance. Data from the mines showed a field precision of 0.078 relative standard deviation for the PDM and 0.052 for the recognized standard-the coal mine dust personal sampler unit. The PDM had about 90 availability for collecting valid information in over 8,000 hr of underground...



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