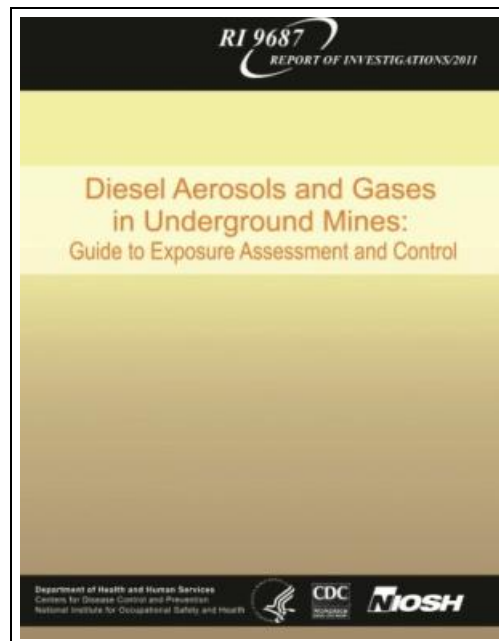


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(Bridie Stracke DDS)

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Createspace, United States, 2013. Paperback. Book Condition: New. 279 x 216 mm. Language: English . Brand New Book ***** Print on Demand *****.Diesel engines are a major contributor to concentrations of submicron aerosols, CO, CO₂, NO_x, SO₂ and hydrocarbons (HC) in underground coal and metal/nonmetal mines. The extensive use of diesel-powered equipment in underground mines makes it challenging to control workers exposure to submicron aerosols and noxious gases emitted by those engines. In order to protect workers, mines need to establish a comprehensive program based on a multifaceted and integrated approach. This program should include a concerted effort to: Curtail emissions of the diesel particulate matter (DPM) and toxic gases at the source; Control pollutants after they are released in the underground mine environment; and Use administrative controls to reduce exposures of underground miners to pollutants. Many of the technologies and strategies available to the coal and metal/nonmetal underground mining industries to control exposures of underground miners to diesel pollutants are similar. However, the differences in the U.S. regulations limiting DPM exposures of miners in underground coal mines [66 Fed. Reg. 27864 (2001)] and metal/nonmetal mines [71 Fed. Reg. 28924 (2006)] have a major bearing on how those technologies and strategies are implemented. In underground coal mines, achieving compliance is based on implementing technologies developed to control DPM and gaseous emissions directly at their source and providing sufficient quantities of fresh air to dilute criteria gases emitted by diesel engines [61 Fed. Reg. 55411 (1996)]. In contrast, the metal/nonmetal performance-based regulations enforce personal exposure limits (PEL) and provide much more latitude in the selection of technologies and strategies to control miners exposures to DPM and gases [MSHA 2008]. The effort to reduce the exposure of underground miners to diesel pollutants requires the involvement of several key departments of mining...



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