



## Diesel Aerosols and Gases in Underground Mines: Guide to Exposure Assessment and Control

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

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, CO<sub>2</sub>, NO<sub>x</sub>, SO<sub>2</sub> 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...

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