



Radiation Protection Of Workers In Mines

Gyoujin Cho



Radiation Protection Of Workers In Mines:

Radiation Protection of Workers in the Mining and Milling of Radioactive Ores International Atomic Energy Agency, 1983

Radiation Protection of Workers in Mines: a Report of Committee 4 of the International Commission on Radiation Protection International Commission on Radiation Protection, 1986 **Radiation Protection of Workers in Mines** International Commission on Radiological Protection. Committee 4, 1986 **ICRP Publication 47** ICRP, 2014-02-14

The purpose of this report is to describe the principles and applications of methods by which radiation hazards may be controlled in mines. Although primarily directed to the uranium mining industry, the information presented in this report may be applied in varying degree to all mines. Miners are exposed to airborne radon, thoron, and their short-lived decay products to ore dust, and in some mines, particularly uranium and thorium mines, to external gamma and beta radiations. In general, the short-lived radon decay products present the dominant radiation risk. Radon is a member of the decay chain of uranium, which makes up about 3 ppm of the earth's crust. Consequently, radon is not limited to mines; it occurs everywhere outdoors in usually low concentrations and indoors in higher concentrations. In underground mines, the concentration of these radioactive contaminants in the absence of adequate control measures can reach relatively high values. The scope of this report excludes the treatment of the other hazards, mechanical and toxic, that are characteristic of all mining operations. However, the protective measures developed to control radiation exposures may influence the situation regarding other hazards.

Occupational Radiation Protection in the Uranium Mining and Processing Industry IAEA, 2020-06-05. This Safety Report has been developed as part of the IAEA programme on occupational radiation protection to provide for the application of its safety standards in implementing a graded approach to the protection of workers against exposures associated with uranium mining and processing. The publication describes the methods of production associated with the uranium industry and provides practical information on the radiological risks to workers in the exploration, mining, and processing of uranium. It is a compilation of detailed information on uranium mining and processing stages and techniques, general radiation protection considerations in the relevant industry, general methodologies applicable for control, monitoring, and dose assessment, exposure pathways, and radiation protection programmes for a range of commonly used mining and processing techniques.

Radiation Protection of Workers in Mines (Superseded by ICRP Publication 65 and ICRP Publication 75)

International Commission on Radiological Protection, 1986 ICRP Publication 47 ICRP, 2014-02-14. The purpose of this report is to describe the principles and applications of methods by which radiation hazards may be controlled in mines. Although primarily directed to the uranium mining industry, the information presented in this report may be applied in varying degree to all mines. Miners are exposed to airborne radon, thoron, and their short-lived decay products to ore dust, and in some mines, particularly uranium and thorium mines, to external gamma and beta radiations. In general, the short-lived radon decay products present the dominant radiation risk. Radon is a member of the decay chain of uranium, which makes up

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Radiation Protection of Workers in the Mining and Milling of Radioactive Ores - 1983 Edition International Atomic Energy Agency, 1968 *Mine Planning and Equipment Selection 2000* T.N. Michalakopoulos, G.N. Panagiotou, 2018-05-08 This text looks at mine planning and equipment and covers topics such as design and planning of surface and underground mines, geotechnical stability in surface and underground mines and mining and the environment **Radiation Protection of Workers in the Mining and Milling of Radioactive Ores** International Atomic Energy Agency, International Labour Organization, World Health Organization, 1983 **Radiation protection** United States. Congress. Senate. Committee on Governmental Affairs. Subcommittee on Energy, Nuclear Proliferation, and Federal Services, 1979 **The New Uranium Mining Boom** Broder Merkel, Mandy Schipek, 2011-10-05 The book presents the results from the Uranium Mining and Hydrogeology Conference UMH VI held in September 2011 in Freiberg, Germany. The following subjects are emphasised: Uranium Mining, Phosphate Mining and Uranium recovery, Cleaning up technologies for water and soil, Analysis and sensor for Uranium and Radon and Modelling Radiation Protection Gyoujin Cho, 2013-10-02 *Radiation Protection: A Systematic Approach to Safety* is a collection of papers that deals with the control, management and prevention of toxic agents. One paper presents design measures evaluated in a balanced program as a practicable method to lessen occupational radiation exposure. Another paper cites the radiation protection aspects practiced in the decommissioning of the Fuel Reprocessing Plant at Trombay, which was designed to chemically process irradiated nuclear fuel. One paper describes a methodology to evaluate a collective dose of exposure through different routes following the release of radioactive material into the atmosphere. These routes include: 1. inhalation of the material from the initial cloud or that arising from the ground; 2. external irradiation from radioactive decay of the material in the cloud or in the air; 3. and as ingestion of radionuclides transferred through the food chain. One paper compares the chemical and radiation hazards to man using an analytical model based on radiation biological concepts at the molecular level to show the effects of other agents. The analytical model is also capable of predicting that a synergistic interaction between two different mutagenic agents can occur at the molecular level. The collection will prove useful for nuclear physicists and scientists, occupational health professionals and researchers in the field of nuclear medicine and engineering *Annual Report, EPA Review of Radiation Protection Activities*, 1975 **An Introduction to Radiation Protection** Alan Martin, Sam Harbison, Karen Beach, Peter Cole, 2018-10-25 This highly readable account of the nature of the hazards presented by ionizing radiation and the methods of protection is an ideal introductory

text for those new to the field and for the non specialist The seventh edition continues to cover the technical principles underlying the control of radiation hazards radiation detection and measurement and the biological effects of radiation followed by a consideration of industry specific radiation protection issues Further specialised topics include risk assessment waste management and decommissioning radiological emergencies relevant legislation and organizational issues and new to this edition environmental radiation protection

Medical Geology of Africa Theophilus Clavell Davies,2024-06-14
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Radiation Exposure and Occupational Risks Eberhard Scherer,Christian Streffer,Klaus-Rüdiger Trott,2012-12-06 The aim of radiation protection standards is to make the radiation workplace as safe as is humanly possible The gradual evolution over the last 20 years has been towards a more precise definition of the limits for occupational exposure These have been created not only in terms of short term effects but also more importantly in terms of long term risks involving such problems as the potential for carcinogenesis and genetic change In the United States the National Committee for Radiation Protection has recommended that 5 rems 50 mSv should remain as the maximum permissible dose equivalent for total body exposure This would represent the sum of internal and external exposure and should be regarded as the upper limit allowed The community of radiation users is required to conduct its operations in such a manner that the absolute value of the individual s dose equivalent in rems does not exceed his age in years There should be additional limits for tissues and organs based on short term effects Therefore individual organs are limited to dose equivalents low enough to ensure that the dose threshold values are not exceeded

Radiation Protection Criteria and Standards: Their Basis and Use, Hearings Before the Special Subcommittee on Radiation of ..., 86-2 ..., May 24, 25, 26, 31; June 1, 2, and 3, 1960 United States. Congress. Atomic Energy Joint Committee,1960

Radiation Protection in Medical Radiography - E-Book Mary Alice Statkiewicz Sherer,Paula J. Visconti,E. Russell Ritenour,Kelli Welch Haynes,2021-07-21

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Radiation Protection Activities United States. Environmental Protection Agency. Office of Radiation Programs,1976

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