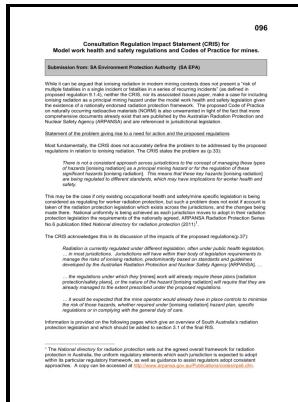


# Radiation hazard in mining

## Dept. of the Interior, Mining Enforcement and Safety Administration - Potential Human Health Effects of Uranium Mining, Processing, and Reclamation



Description: -

-radiation hazard in mining

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MESA safety manual -- no. 7.radiation hazard in mining

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### Potential Human Health Effects of Uranium Mining, Processing, and Reclamation

In addition, data on lifestyle factors that will affect mortality risk i. Sources of radon at uranium mining and processing sites include tailings, uranium ore, waste rock, open cuts or underground mines, the processing facility, and water retention ponds. Even with these limitations, the overwhelming majority of the epidemiological studies have demonstrated a positive linear dose-response relationship between radon decay product exposure and lung cancer; that is, the greater the exposure, the greater the risk, falling on a straight line ; NRC, 1999b;

### File:Marie Curie, extracted from The Radiation Hazard in Mining (1996).jpg

Exposures may also occur by release of contaminated water or leaching of radioactive materials into surface or groundwater sources where they may eventually end up in potable water supplies. It is however recommended that periodic assessment of radiological exposure to the miners and the mined kaolin deposits should be of utmost concern to the Nigerian Environmental Standards and Regulatory Enforcement Agency, since some of the estimated hazards are close or could be approximated to the permissible limit. Additional well-designed epidemiological studies are required to assess further the possible association between radon decay product exposure and other adverse health outcomes ;,

### Guidance about radiation safety on mining operations

This was over 2½ times more deaths than expected. Plots of noise contours from common mining equipment have been compiled so that miners can predict the noise environment adjacent to such equipment. The human health hazard assessment was conducted using regulatory methodologies set by the United Nations Scientific Committee on the Effects of Atomic Radiation, while the radio ecological impact assessment was conducted using the ERICA tool v.

### Health and ecological hazards due to natural radioactivity in soil from mining areas of Nasarawa State, Nigeria

Common Units and Terms Used for Radiation Activity, Exposure, and Dose.

### Radioactivity and radiological hazards from a kaolin mining field in Ifonyintedo, Nigeria

Some of these risks arise out of aspects of uranium mining and processing specific to that enterprise, whereas other risks apply to the mining sector generally, and still others are linked more broadly to large-scale industrial or construction activities.

### **Worker Health Study Summaries**

The two units for radiation activity are the curie. The type of radiation exposure that may be encountered in uranium mining and processing varies by source material and work process. Based on 23 case-control and cohort studies with adequate data for inclusion, these authors concluded that the epidemiological evidence supports a causal association between risk for lung cancer and exposure to diesel exhaust.

### **Assessment of radiological hazards in the phosphate mining area of Kpogamé, Togo**

If you smoke, NIOSH recommends that you quit.

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