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OCCUPATIONAL RADIATION PROTECTION IN ACCIDENTAL EXPOSURE FROM THE CENTRE OF ISOTOPES IN CUBA

The aim of this study is to assess the occupational exposure during radiological emergency in the Center of Isotopes of the Cuban Republic, taking into account the data belonging to the period 1997-2021. A total of 240 abnormal occurrences are registered and 80% of them were classified as an alert situation. The permanency of worker in a local with Technetium generator drove the maximum value of E (25.77mSv) in 2000. A later detection of the spill during opening of type A package with a 278GBq of ¹³¹I, implied in 2011 the highest registered value 3.6 mSv of E(50). Incident with the maximum contribution to Hp(0.07) took place during the opening a package with 14.8GBq of ⁹⁰Sr with spill in controlled zone in 2006. Exposures were controlled with TLDs and electronic dosimeters. Bioassays were made in an internal dosimetry laboratory from the Radiation Protection and Hygiene Center.

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