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NUCLEAR SECURITY PROGRAM FOR THE REPATRIATION OF DISUSED TELETHERAPY HEADS IN PERU

ABSTRACT

Radioactive disused sources with high activity constitute a high risk for people and the environment if they are not managed in an adequate way until their final disposal. In Peru, are produced this type of disused sources due to their use in radiotherapy, into medical applications. There is a history of terrible accidents that have occurred in other countries due to this kind of sources were out of control. One of the best management options is the repatriation of those disused sources to other countries. The disposal of disused sources of Cobalt -60, with high activity and depleted uranium intheir shield, require not only radiation protection but also nuclear security program where it is necessary to make previsions of a lot of money. The present work describes the repatriation of disused sources, with high activities, according an agremment signed by the Peruvian Institute of Nuclear Energy and the International Atomic Energy Agency. The IAEA provided the financial support for the implementation of a nuclear security and radiological protection program, where Peruvian and German profesionals worked together in order to comply with the objectives of the Project. This also permitted the repatriation of disused teletherapy heads stored for more than 20 years in the centralized national storage. The operations considered the dismantling processes, preparation of packages type B, as well as the compliance with the peruvian regulations and the participation of the national policemen, as part of the nuclear security program during the the transportation of the disused sources.

Keywords: teletherapy heads, cobalt-60, disused sources, packahe type B.

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