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Enhancing Safety and Control Features of Radiation Processing Facility SIBO INRA/Tangier Morocco

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The automatic control system is one of the central parts of all irradiation facilities. The level of this control is always implemented to achieve strict safety procedures in routine facility use. However, sometimes the system is limited to the minimum legal regulation required due to economical restrictions; some commercial systems are generally made by manufactures of industrial facility and considered in the price of the irradiator. In some cases there is some specific irradiation facility with specific control system. For this kind of irradiator the control system can be developed and upgraded according to feedback from operating experiences and in accordance with industrial experiences. These upgrading procedures are also used as input by others to upgrade their systems.

The objective of this paper is to share a local experience in upgrading the safety systems and special upgrading of ^{60}Co for the irradiator. This work has been done with other works related to security and ^{60}Co upgrading which are published in other scientific paper and concerns 1) Upgrading of ^{60}Co in SIBO irradiator in Tangier (an operation made in collaboration with the IAEA and has been a success story of the year 2014 during the general conference of IAEA), and 2) Installation and upgrading of the security system in accordance with the Global Threat Reduction Programme to reduce the threat of a Radiological Dispersion Device (RDD) in collaboration with The United States Department of Energy's National Nuclear Security Administration (NNSA).

Country/Organization invited to participate

Morocco

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