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## Radiation Dosimetry of Laboratory Practices based on Radiotracers Techniques

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Radiotracers techniques have become an important tool for the diagnosing industrial reactors and optimizing processes. Recently many radiotracer laboratories have been established aimed at on job training and R&D in the African region with the aid of IAEA TC projects. This paper shows our efforts in radiation dosimetry, safety, and emergency procedures complying with the regulations of the Sudanese nuclear and radiological regulatory authority (SNRRA) for the licensing and commissioning of a radiotracer laboratory. Experiments using Tc-99m 15GBq radionuclide generator have been conducted in the lab in the presence of expert radiation inspectors from SNRRA. Then radiation monitoring for the workplace has been done as well as for the surrounding environment. Consequently personal dosimetry has been recorded for the radiation workers involved in those experiments. The paper shows the results of measurements and discusses how optimizing radiation dosimetry, safety has been achieved during the work.

### Country/Organization invited to participate

Sudan

**Primary author:** Mr SAGIROUN, Mamoun Idris Ali (Sudan Atomic Energy Commission, Sudan)

**Co-author:** Mr ABDELBARI, Amar Osman Abdalla (Sudan Atomic Energy Commission, Sudan)

**Presenter:** Mr SAGIROUN, Mamoun Idris Ali (Sudan Atomic Energy Commission, Sudan)

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