

**International Conference on Occupational Radiation Protection:
Strengthening Radiation Protection of Workers –Twenty Years of Progress
and the Way Forward**

Contribution ID: 167

Type: **Poster**

Current Status of Individual Monitoring Service in Sudan

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Abstract:

Radiation and Nuclear Safety Institute (RNSI) of Sudan Atomic Energy Commission (SAEC) is the only body approved by the national regulatory authority to provide individual monitoring service for occupationally exposed workers (OEWs) all over Sudan.

This Institute has been offering this service since seventies using film badges at the beginning and then switched to thermoluminescence dosimeters (TLDs).

In the year 1996, Harshaw model 6600 TLD reader was installed and used to provide monitoring service to OEWs in medical, industrial and research applications utilizing ionizing radiation.

In 2005, RNSI experienced technical problems with the Harshaw TLD reader which led to complete suspension of the service in 2008.

In 2016, a new TLD systems (RA'04 TLD Analyzer and TLD-Cube) were installed, tested and calibrated in the secondary standard dosimetry laboratory (SSDL) of SAEC.

Since 2017, RNSI started to provide monitoring service to OEWs in radiotherapy and nuclear medicine departments and then after to all OEWs in other medical and industrial applications.

In the present work, the current status of individual monitoring service in Sudan was described in terms of coverage, types of dosimetry provided, instrumentation, operational aspects and dose record system.

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Session Classification: Session 10. Technical service providers in occupational radiation protection

Track Classification: 11. Technical service providers in occupational radiation protection