

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

Contribution ID: 236

Type: **Poster**

Assessment of Occupational Radiation Exposure in Industrial Radiography in Kenya: Case Study of Two Non-Destructive Testing Companies

The objective of this study was to assess the effectiveness of radiation protection program of companies involved in industrial radiography. Our study target two selected companies that participated in carrying out quality control tests of oil pipeline that was under construction in Kenya and completed in 2018. A total of 7 radiation workers were monitored using OSL technology. In 2018, both companies carried out their activity in four months.

In that year, the maximum individual dose in one month for company A was found to be 6.93 mSv and Company B was 2.95 mSv. Both figures are higher than the monthly dose constraint recommended by the regulatory authority of 1.67 mSv. Even though the annual whole body dose for each worker didn't exceed the recommended limit by ICRP, there is need of improvement in radiation protection programmes and safety culture in industrial radiography sector in the country

Name of Member State/Organization

Kenya

Speakers affiliation

Kenya Nuclear Regulatory Authority; Radtech East Africa Company Limited

Speakers email

ismundia@gmail.com; radtecheastafrica@gmail.com

Authors: Mr MWANGI, Francis (Radtech East Africa Company Limited); MUNDIA, Isaac (Radiation Protection Board)

Presenters: Mr MWANGI, Francis (Radtech East Africa Company Limited); MUNDIA, Isaac (Radiation Protection Board)

Session Classification: Session 2. Monitoring and dose assessment of occupational radiation exposures

Track Classification: 3. Monitoring and dose assessment of occupational radiation exposures