

Technical Meeting on Nuclear Forensics: From National Foundations to Global Impact

Contribution ID: 35

Type: **Oral**

NON-DESTRUCTIVE ASSAY OF INDUSTRIAL GAMMA RADIOGRAPHY DEVICES: CASE STUDY

This paper describes the characterization of a large number of depleted uranium-based gamma radiography devices of different manufacturers and origins. It presents an application of different types of non-destructive analysis techniques that can provide quick information on the history and origin of the studied samples, thus assisting the criminal investigation and prosecution in cases when such materials are found outside the regulatory control. A general overview of a recent Romanian case in which gamma radiography devices served as evidence, is also provided.

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Session Classification: Oral Session #5 –Analytical Methods for Analysing Radiological and Nuclear Evidence

Track Classification: 1. Nuclear Forensics Capability Building: Initiation and Sustainability: 1.2 New Technologies, R&D and Signature Research in Nuclear Forensics