Integrated NDA User Laboratories at the JRC in Ispra for Nuclear Safeguards and Nuclear Security

Abstract:
For many decades, the JRC’s Nuclear Security Unit in Ispra (Italy) has continued to play an important role in international nuclear safeguards and nuclear security based on sound R&D programmes in non-destructive analysis (NDA) methods and instrumentation, testing and benchmarking of detection systems, user accessibility to laboratories and reference material, together with a comprehensive training programme. Beneficiaries of these programmes have generally been the European Commission DG’s (ENER, HOME, DEVCO, TAXUD, RTD), the IAEA, EU research institutions, EU member states and many international partners. The need for a modern and integrated infrastructure to promote synergy and efficient operation of all activities has been recognised and a new laboratory named INS3L (Ispra Nuclear Safeguards, Security and Standardization Laboratory) which will house all activities and facilities under one roof has indeed been approved and is now in its planning phase with its completion expected within about three years. This paper aims to describe the activities performed with reference to relevant publications and will present the conceptual design of the new INS3L as a user laboratory within an integrated approach that shall benefit all users and stakeholders, partners and EU member states in general.

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