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RAMSES –RADIOLOGICAL MONITORING PLATFORM FOR ENVIRONNEMENT AND NUCLEAR FACILITIES

Tuesday, 8 October 2024 10:00 (15 minutes)

RAMSES "Radiological Analysis Monitoring & Sampling Equipment Systems" is a radiological monitoring platform developed by IRE Lab, the preventive arm of the IRE, a Belgian company and one of the world's leading producers of 99Mo, 131I and 133Xe. Through its actions, IRE Lab is contributing to the protection of the environment, workers and the general public through its expertise in the measurement and control of radioactivity.

Thanks to its recognized industrial experience, IRE Lab offers a full range of solutions, from one-off measurements to global consultancy in the following areas:
- Development of equipment for continuous sampling and monitoring of radioactivity;
- Analysis of radioactivity in various low-level samples;
- Radiological characterization of waste, effluents and contaminated objects;
- National and international projects in its fields of expertise.

A major player in environmental radiological monitoring for many years, IRE Lab develops and supplies innovative automatic sampling and monitoring systems for continuous monitoring of radioactivity. As a result, IRE Lab has over 40 years of internationally recognized experience in the operation of automatic networks for continuous radioactivity measurement.
Since 2004, IRE Lab has developed, maintained and regularly improved its measurement platform, currently known as RAMSES. Numerous continuous radioactivity monitoring systems have already been installed, in Belgium and abroad. Currently, IRE Lab is in charge of setting up a telemetry network on Moroccan territory on behalf of AMSSNuR, the Moroccan safety authority, and financed by the European Union.
The RAMSES 3.0 platform, developed in-house, is a suite of measurement software and analysis algorithms capable of integrating gamma spectrometry (Figure 1), gamma dose rate and global alpha/beta measurement equipment.

Section

Radiation ecology and methods of analysis (Section 3)

Primary author: Mr DE LELLIS, Carlo (Institute for radioelements)

Co-author: OST, Thomas (Institute for radioelements)

Presenter: OST, Thomas (Institute for radioelements)

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