هيئة الرقابة النووية والإشعاعية
Nuclear and Radiological Regulatory Commission

NRRC Environmental Radiological Monitoring Laboratories

The NRRC has instituted the Environmental Radiological Monitoring Laboratories (NRRC-ERML) as part of its mandate and contribution to the National Nuclear and Radiation Emergency Response Plan. These laboratories are dedicated to measuring radioactivity across alpha, beta, and gamma emitters in various environmental mediums. They are also involved in radiation dosimetry, radon gas measurement, and elemental chemical analysis. The laboratories boast contemporary equipment and are staffed by competent personnel.

Measurements of Radiation Exposure for Workers in the Field of Radiation and Environmental Exposure

NRRC-ERML

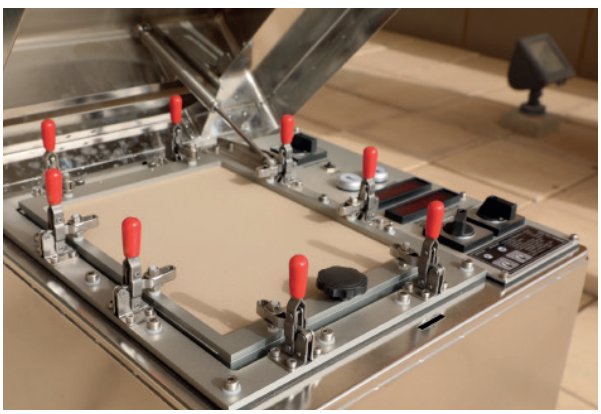
Key functions of the laboratories include the development and maintenance of national baselines for radiation doses and radionuclide levels in different environmental sectors. They offer vital support to the NRRC Nuclear Emergency Center and Decision Support System, contributing to inspection and regulatory oversight.

Furthermore, the laboratories collaborate with both governmental and private sector entities engaged in radiological work. They actively participate in proficiency testing and interlaboratory comparisons, partnering with organizations such as the IAEA and the ALMERA network.

The NRRC-ERML is also focused on air sampling and the assessment of radiation in nuclear emergencies, including filter counting techniques, reinforcing their critical role in ensuring environmental and public safety in the field of radiation.

Chemical Separation of Radioactive Isotopes

Air Sampling Techniques



Air Sampling and Radiation Precipitation in Nuclear Emergencies and Filter Counting

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