

Radioactive Waste Management Centre

In accordance to the Act 18/1997 Coll. on Peaceful Utilization of Nuclear Energy and Ionizing Radiation, as later amended (the Atomic Act), the Radioactive Waste Management Centre (the "Centre") provides complex services in radioactive waste (RAW) management. Relying on more than fifty years' experience, the Centre is processing the majority of the institutional radioactive waste produced in the Czech Republic.

The Radioactive Waste Management Centre carries out management of radioactive waste (RAW) and offers services as decontamination of radioactively contaminated equipment, secure the contaminated material and it's transport. The Centre also provides services as transport of the spent fuel from the nuclear research reactors, decommissioning of facilities with ionizing radiation sources and research in RAW management for the internal- and external-use.

Radioactive Waste Management

- Collecting of RAW, ionizing radiation sources and nuclear materials, transport within the area of the Czech Republic including the RAW storing.
- Processing of:
 - liquid RAW - aqueous and non-aqueous solutions,
 - solid laboratory waste (laboratory glassware & plastics),
 - contaminated personal protective equipment,
 - contaminated materials and technology equipment (incl. large-volume items),
 - sealed radionuclide sources and devices fitted with such sources (e.g. radio therapeutic & other irradiators),
 - ionizing smoke detectors.
- Management together with required law administration.



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Waste Management Centre

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Decontamination of Radionuclide Contaminated Equipment

- Decontamination of contaminated technology and equipment including the large-volume RAW.
- Testing and assessing the ease of decontamination.
- Release of decontaminated material into the environment.

Decommissioning of Facilities with Ionizing Radiation Sources

- Decommissioning of facilities with ionizing radiation sources (e.g. laboratories, technology equipment) and remediation of environmental liabilities.
- Preparing documentation for decommissioning and suggesting procedures of decommissioning.
- Decontamination and processing of produced RAW.
- Assessing the radiation situation after the decommissioning process and releasing the facility for further use.

Characterization of Ionizing Radiation Sources and RAW

- Determination of the effective dose and surface contamination.
- Monitoring the environmental radiation background (on the landfills and scrap yards, during the material or raw-material transport).
- Non-destructive methods to determine the radionuclide content.
- Destructive laboratory methods to determine the radionuclide content.
- Determination of other RAW characteristic properties
 - Leachability of processed RAW.

Research & Development Activities

- Advanced technologies in RAW management.
- Characterization the RAW processing products.
- Radiation safety during the RAW and spent fuel management.

Other Services

- Emergencies for situations as finding unknown ionizing radiation source (on a scrap yard, in an incinerator plant or on the country borders) on the 24/7 basis.
- Providing consultancy & support for RAW and/or ionizing radiation sources management.
- Transport services of spent fuel.



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