



NATIONAL AGENCY FOR REGULATION OF  
NUCLEAR AND RADIOLOGICAL ACTIVITIES  
SPECIAL FACILITIES 5101, 510

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**RADIOACTIVE WASTE  
MANAGEMENT  
IN THE REPUBLIC OF MOLDOVA**

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# **RW STORAGE FACILITY**

## **“Special Facilities 5101, 5102”**

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Situated in Chisinau city Radioactive Wastes Storage Facility is the only operator authorized for long term storage of radioactive wastes and disused radioactive sources. It has also the authorization for collection and transportation of radioactive wastes and other radioactive materials on specialized transport by road.

Financed from the state budget and from prepaid services for transportation and receiving of RW.

Actually RW storage facility is operated in the base of License issued in 2011 (valid until August 2016).



# SPECIAL FACILITIES 5101, 5102

Facility for storage of conditioned RW

Facility for storage of high activity RW

Near surface disposal facility

Conditioning facility of RW





# NEAR SURFACE DISPOSAL FACILITY

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- “RADON” type facility
- Homogeneous waste
- In operation 1961-1996
- Planned to decommission



# NEAR SURFACE DISPOSAL FACILITY

## “RADON” type facility

- Size 5x4x16
- Divided into 4 compartments by 50 m<sup>3</sup>



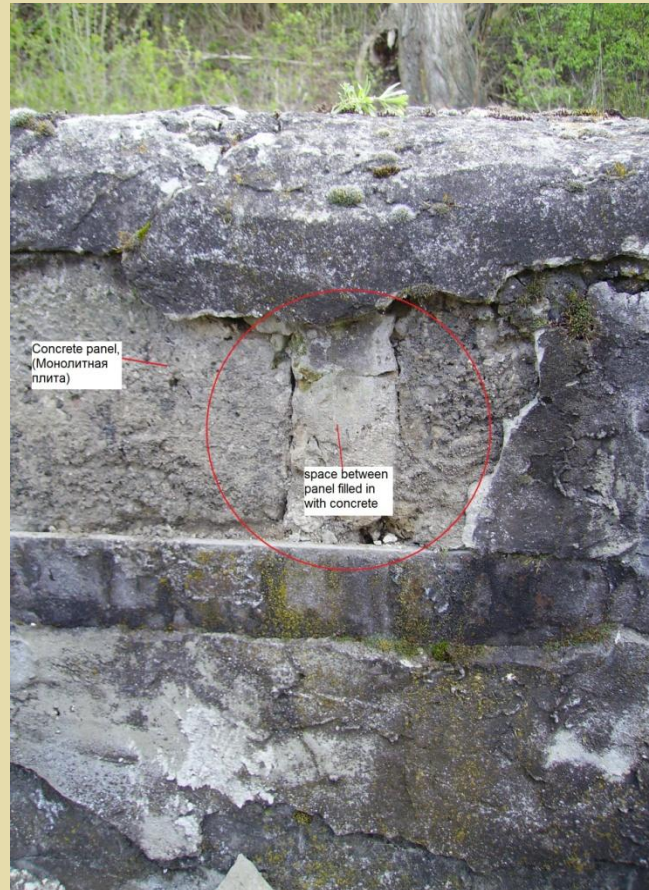
The solid RW stored at the site were generated from:

- industry (Cs-137, Pu-239, Sr-90) e.g. level gauges, smoke detectors medical (Co-60, Ra-226, I-131, Hg-197, Tc-199m, Au-198, Xe-133).
- nuclear research (Pu-239, K-40, Sn-119, H-3, C-14). few tons of soil contaminated with Ra-226

- 1st compartment, 1961 - 1965 (48 packages received with homogeneous waste, including SRS-26. A=12,5 Ci)
- 2nd compartment, 1966-1990 (986 packages. 1704-SRS A=22.7 Ci)
- 3rd compartment, 1990-1995 (364 packages received including 287 SRS, A=210.7 Ci)
- 4th compartment, 1995–2004 storage of SRS (65 sources)



# NEAR SURFACE DISPOSAL FACILITY “RADON” type facility





# CONDITIONING FACILITY

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The former laundry facility has been reconstructed into the conditioning facility for solid RW.





# CONDITIONING FACILITY

Technologies to be applied:

- sorting
- compression of the solid RW
- cementation

Part of technological equipment has been provided by the IAEA







# CONDITIONING FACILITY

## Laboratory





# RADIOACTIVE WASTE STORAGE FACILITY

Monolith storage of the high activity radiation sources build in 2005.

Spend sources come from different institutions and are stored in their own containers.





# RADIOACTIVE WASTE STORAGE FACILITY





# RADIOACTIVE WASTE STORAGE FACILITY

Light building with natural ventilation constructed in 2003.

Planned to store 560 drums of conditioned RW (at the moment is not used yet).





## SOME PLANS FOR THE FUTURE

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- Prolonging License for the RW storage facility (in 2016) and licensing of Conditioning facility of RW;
- Put into operation of conditioning facility;
- Developing a Feasibility Study for retrieval of legacy radioactive waste, followed by Remediation plan of the site;
- Decommissioning of old near-surface facility and store in the new storage facility and remediation of the site;



THANK YOU  
FOR YOUR ATTENTION!

