

## Site (Structure) : Hostim

Country: CZECH REPUBLIC

Reporting Year: 2013

Full Name: URAO Hostim Disposal Facility

Description:

Official Website:

License Holder(s): SURAO (Radioactive Waste Repository Authority)

## Comment # 389: Information

The repository was situated near the City of Beroun. It was constructed in an abandoned limestone mine and put into operation in 1959 for radioactive waste from research, industry and medicine. It was closed in 1965 and most of waste packages were transferred in the Richard repository. The repository was finally filled with concrete and sealed in 1997. The site is monitored.

## Comment # 26995: Institutional Framework

The Radioactive Waste Repository Authority's mission is to ensure safe disposal of existing and future radioactive waste (RAW) in the Czech Republic and to safeguard the requirements for the protection of human health and the environment from the adverse impacts of such waste. RAWRA works in active and open co-operation with the local communities and municipalities in the vicinity of which repositories are located, as well as with the general public represented by non-governmental environmental organizations, civic associations, etc. RAWRA provides the general public with objective and complete information concerning its activities and intentions.

Waste management facilities that are located at this site:

<b>Facility:</b>	<b>URAO H</b>
<b>Description:</b>	The repository was used to dispose RAW of institutional origin and has been closed. It is a rock cavity type repository (in a disused mine).
<b>Detailed Facility Description:</b>	<p>The facility consists of two disposal galleries.</p> <p>Dimensions: gallery A 470 m<sup>3</sup>, gallery B 1,220 m<sup>3</sup></p> <p>Barriers: applied following closure by pouring cement and sealing access.</p> <p>The repository was built in 1959 in limestone mine Alkazar by adaptation of two galleries driven in 1942 -1944. These galleries were used for radwaste disposal (see fig.). Gallery A was adapted and used by the Institute of Nuclear Research Rež, Gallery B was used by the Institute for Research, Production and Utilization of Radioisotopes (UVVVR) Prague within the framework of the then established and by the State subsidized system for radioactive waste treatment and disposal.</p>
<b>Waste Packages:</b>	<p>The repository contains low-and intermediate-level wastes from the Nuclear Research Institute at REZ and from the Institute for Research, Production. and Utilization of Radioisotopes.</p> <p>The waste is in the form of boxes, bags, drums and canisters of various types.</p> <p>The capacity of the facility is 1690 m<sup>3</sup>, with a current waste quantity of 330 m<sup>3</sup>.</p>
<b>Facility Operation:</b>	

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In the Gallery A the radioactive waste was stored free (in tins, glass jars, air-conditioning filters). In the Gallery B the waste was mostly stored in 60 l zinc-plated drums; in addition, some contaminated voluminous equipment was free stored.

To assure safety of the disposed waste (sufficient barrier preventing unauthorized persons from entering), both galleries were filled with a special concrete mixture. Before the filling, inventory was checked and all long-term radionuclide sources and chemical wastes were removed from the repository. In 1990 – 1991, a hydrogeological monitoring system of institutional inspection was developed and operated by RAWRA. Also, a network was established of geodynamic points to measure movements of the rock massif. The monitoring results have proved tightness and safety of the closed repository. The repository has been closed since 1997. Free space in the repository was sealed in 1997 (filled with concrete).

Financing:

Activities are financed from the nuclear account, which collects payments by the radioactive waste producers; the nuclear account is administered by the Ministry of Finance.

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**Disposal part of facility**                      **URAO H**

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
TRW	Yes	No
LILW-SL	No	No
LILW-LL	No	No
HLW	No	No

List SRS?	No
List UMMT?	No

Type:	rock cavern (mountain/hill)		
Facility is modular?	No		
Capacity existing (m3):	1690	Capacity planned (m3):	1690

Depth (m):	30	Host medium:	sedimentary (other)
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Phase Name	Start Year	End Year	Estimate
planning and/or concept assessment	1959	0	False
commissioning		1959	False
operation	1959	1964	False
closure	1965	1997	False
institutional control	1998	0	False