

Site (Structure) : EL-HAA/LMA

Country: SWITZERLAND

Reporting Year: 2009

Full Name: Swiss repository project for high-level and long-lived intermediate-level waste

Description:

Official Website:

License Holder(s):

Comment # 355: Programme status EL-HAA/LMA

Feasibility demonstration for an EL-HAA/LMA in 1985 (Projekt Gewaehr 85), based on deep geologic disposal in crystalline host rock in northern Switzerland, led to follow-up project for completion of disposal feasibility demonstration. Subsequent extensive field investigations in areas of promising rock formations (crystalline and, as an extension, Opalinus clay in the northern part of the Canton of Zurich) lead to a supplementary feasibility study (Entsorgungsnachweis) which has been submitted to authorities in 2002, referring to Opalinus clay as candidate host rock. Swiss Government approved Entsorgungsnachweis on June 28, 2006. Region/site selection shall be based on the Sectoral Plan (Sachplan) as required by the new Nuclear Energy Ordinance (KEV). Multinational repository options are not to be ruled out.

Comment # 7285: Information on Disposal Unit Capacities

Capacity numbers given are rough GUIDELINES FOR SITE SELECTION PURPOSES and refer to wastes at emplacement into disposal areas (i.e. they account for overpacking into disposal containers within repository site facilities). A reserve volume for spent fuel is included in the capacity planned for HAA disposal units. With the basic scenario, Swiss repositories defined below shall accommodate all Swiss radwaste (i.e. of NPP and any other origin) arisings as nowadays stored or being accumulated in future, until all of the Swiss NPP actually in operation are decommissioned. Note that these capacity data represent by definition an upper envelope for waste arisings which have been defined for safety assessment reports and engineering studies, relying on distinct scenarios. Excavation will be adjusted at construction time to meet effective needs.

Since 2008, capacity planning also includes new NPPs.

Comment # 9718: Conditioning Facilities Envisaged for EL-HAA/LMA

According to Nagra's actual plans, delivered waste units shall be conditioned / overpacked after reception at the site, before transport to disposal units:

- (a) LMA units (small size packages): to be emplaced/grouted into standardized LMA disposal containers;
- (b) canisters with vitrified HLW from reprocessing in transport & storage containers (TSC) : unloading from TSC, emplacement into disposal containers, welding of the HAA disposal container.

[note: if direct disposal of spent fuel is to be planned/performed:

- (c) spent fuel in TSC: transfer from TSC into BE disposal container, sealing of BE disposal container.]

Waste management facilities that are located at this site:

Facility:	DU-HAA
Description:	Disposal Unit(s) for HAA

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Disposal part of facility

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
SMA	No	No
LMA	No	No
HAA	No	No

List SRS?	#Error
List UMMT?	#Error

Type:	
Facility is modular?	#Error

Depth (m):		Host medium:	
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Phase Name	Start Year	End Year	Estimate

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Facility:	DU-LMA		
Description:	Disposal Unit(s) for LMA		
Disposal part of facility			
The following shows disposal status for waste classes and SRS.			
Waste Class	Actual	Planned	
SMA	No	No	
LMA	No	No	
HAA	No	No	
List SRS?	#Error		
List UMMT?	#Error		
Type:			
Facility is modular?	#Error		
Depth (m):		Host medium:	
Phase Name	Start Year	End Year	Estimate