

Site (Structure) : NES

Country: AUSTRIA

Reporting Year: 2011

Full Name: Nuclear Engineering Seibersdorf GmbH

Description:

Official Website:

License Holder(s): Nuclear Engineering Seibersdorf GmbH

Comment # 12236: Site NES

The only radioactive waste management facility existing in Austria is the Nuclear Engineering Seibersdorf GmbH (NES), A-2444 Seibersdorf. NES is located at the site of the Austrian Research Centers Seibersdorf, south of Vienna.

Waste management facilities that are located at this site:

Facility:	Cement fac																
Description:	Homogenous and heterogenous cementation is performed with various devices.																
<p>Processing part of facility Cement fac</p> <p>The following shows processing status for waste classes and SRS.</p> <table border="1"> <thead> <tr> <th>Waste Class</th> <th>Actual</th> <th>Planned</th> </tr> </thead> <tbody> <tr> <td>VLLW</td> <td>No</td> <td>No</td> </tr> <tr> <td>LLW</td> <td>No</td> <td>No</td> </tr> <tr> <td>ILW</td> <td>No</td> <td>No</td> </tr> <tr> <td>HLW</td> <td>No</td> <td>No</td> </tr> </tbody> </table>			Waste Class	Actual	Planned	VLLW	No	No	LLW	No	No	ILW	No	No	HLW	No	No
Waste Class	Actual	Planned															
VLLW	No	No															
LLW	No	No															
ILW	No	No															
HLW	No	No															
Type:																	
Year opened:	1995																
Comment	# 20250: Processing Facility Cement fac																
In the course of the construction of the New Manipulation Centre (NMC, see Comment #20255), the facilities for cementation were closed and dismantled.																	

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Facility:	Compactor
Description:	Non burnable solid radioactive waste can be treated using the high-force compactor. Pellets formed in this way are transferred into 200-litre drums for storage. Depending on the waste characteristics, a volume reduction factor of 2 to 10 can be reached

Processing part of facility Compactor

The following shows processing status for waste classes and SRS.

Waste Class	Actual	Planned
VLLW	No	No
LLW	No	Yes
ILW	No	Yes
HLW	No	No

Type:	Treatment, Conditioning
Year opened:	2013

Comment **# 25466:**

The existing high force compactor was decommissioned and dismantled during the construction of the NMC (see Comment #202559. A new, vertical compactor (1500 tons) will be implemented in the NMC

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Facility:	Drier															
Description:	Sludge drier: the facility is used for drying the sludge obtained in the Waste Water Treatment Facility and for liquid waste.															
Processing part of facility Drier																
The following shows processing status for waste classes and SRS.																
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Waste Class	Actual	Planned														
VLLW	Yes	No														
LLW	Yes	No														
ILW	Yes	No														
HLW	No	No														
Type:	Treatment															
Year opened:	1993															

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Facility:	Drumdrier
Description:	An In-drum-dryer was put in operation. It is able to dry 32 200-l-drums simultaneously at atmospheric pressure at a temperature up to 140°C
Detailed Facility Description:	By the removal of water is expected that the risk of corrosion of the drums during interim storage is highly reduced
Financing:	Government

Processing part of facility Drumdrier

The following shows processing status for waste classes and SRS.

Waste Class	Actual	Planned
VLLW	Yes	No
LLW	Yes	No
ILW	Yes	No
HLW	No	No

Type:	Treatment, Conditioning
Year opened:	2010

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Facility:	Incinerat	
Description:	LILW incinerator: The shaft incinerator of "Karlsruhe" type is an excess air unit having a capacity of 40 kg/h and a combustion volume of d-1m and h-5m. The off-gas cleaning system consists of ceramic hot gas filters, quench, wet scrubber and HEPA-Filters	
Processing part of facility Incinerat		
The following shows processing status for waste classes and SRS.		
Waste Class	Actual	Planned
VLLW	Yes	No
LLW	Yes	No
ILW	Yes	No
HLW	No	No
Type:	Treatment	
Year opened:	1983	
Comment	# 20254: Processing Facility Incinerat	
Reconstruction the Incineration plant: The facility will be refurbished to further reduce the risk of contamination-carryover and to achieve an improved flow of material and works.		

Site (Structure) : NES

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Facility:	Interim
Description:	Interim Storage Facility for conditioned radioactive waste

Storage part of facility Interim

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
VLLW	No	No
LLW	Yes	No
ILW	Yes	No
HLW	No	No

List SRS?	No
List UMMT?	No

Capacity:	The capacity is actually limited to 15,000 200-litre-drums and will reach 17,500 drums when storage hall no. 14 will be operational
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
Hall 1	building	0	No	No	Yes	No
Hall 2	building	0	No	No	Yes	No

Comment **# 20252: Storage Facility Interim**

All conditioned radioactive waste is stored within two dry engineered construction storage halls. At present the capacity is limited to 15000 200-litre-drums. A new storage facility is under construction. The capacity of this storage facility is approx. 2300 200-litre-drums. This storage facility is equipped with a thermal insulation and a heating- and dehumidification-system in order to reduce the risk of corrosion for the steel drums.

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Facility:	RawStorage					
Description:	Buffer storage facility for raw radioactive waste					
Storage part of facility		RawStorage				
The following shows storage status for waste classes and SRS.						
Waste Class	Actual	Planned				
VLLW	Yes	No				
LLW	Yes	No				
ILW	Yes	No				
HLW	No	No				
List SRS?	No					
List UMMT?	No					
Capacity:						
Types of Storage Units						
Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
RawStorage	building	0	No	No	Yes	Yes

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Facility:	Sorting
Description:	Segregation Facility: A special room ("sorting box") equipped with a negative pressure ventilation system is used for specific tasks, such as dismantling of larger equipment

Processing part of facility	Sorting
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The following shows processing status for waste classes and SRS.

Waste Class	Actual	Planned
VLLW	Yes	No
LLW	Yes	No
ILW	Yes	No
HLW	No	No

Type:	Treatment
Year opened:	1983

Comment # 20253: Processing Facility Sorting

Reconstruction of existing Sorting Box:

The facility will be refurbished to further reduce the risk of contamination-carryover and to achieve an improved flow of material and works.

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Facility:	WWTF
Description:	Waste Water Treatment Facility: In this facility, waste water from the Nuclear Engineering Seibersdorf GmbH (NES) site in Seibersdorf is treated by precipitation and filtration.

Processing part of facility WWTF

The following shows processing status for waste classes and SRS.

Waste Class	Actual	Planned
VLLW	Yes	No
LLW	Yes	No
ILW	No	No
HLW	No	No

Type:	Treatment
Year opened:	1976

Comment # 20251: Processing Facility WWTF

By implementation of a new membrane-filtration a considerable reduction of the secondary waste generated at the Waste Water Treatment Facility is achieved.