

Site (Structure) : NES

Country: AUSTRIA

Reporting Year: 2010

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>Yes</td> <td>No</td> </tr> <tr> <td>LLW</td> <td>Yes</td> <td>No</td> </tr> <tr> <td>ILW</td> <td>Yes</td> <td>No</td> </tr> <tr> <td>HLW</td> <td>No</td> <td>No</td> </tr> </tbody> </table>			Waste Class	Actual	Planned	VLLW	Yes	No	LLW	Yes	No	ILW	Yes	No	HLW	No	No
Waste Class	Actual	Planned															
VLLW	Yes	No															
LLW	Yes	No															
ILW	Yes	No															
HLW	No	No															
Type:	Conditioning																
Year opened:	1995																
Comment	# 20250: Processing Facility Cement fac																
<p>Cementation (grouting) is a conditioning and immobilisation method which is currently in use. Homogeneous cementation is carried out in-drum or by mixing waste with cement and water in a separate mixer and filling the mixture into 200-litre-drums. This method is used rather seldom.</p> <p>Heterogeneous cementation is performed by placing 100-litre-drum with waste into 200-litre-drums and filling the annular cavity with cement. Pellets from the high force compactor are also placed in 200-litre-drums. The voids are filled with quartz sand.</p>																	

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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	Yes	No	
LLW	Yes	No	
ILW	Yes	No	
HLW	No	No	
Type:	Treatment, Conditioning		
Year opened:	1995		

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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.			
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.		

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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	Yes	No
LLW	Yes	No
ILW	Yes	No
HLW	No	No

List SRS?	No
List UMMT?	No

Capacity:	The capacity is limited to 15,000 200-litre-drums
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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.			