

## Site (Structure) : NES

Country: AUSTRIA

Reporting Year: 2008

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:

<b>Facility:</b>	<b>Cement fac</b>																
<b>Description:</b>	Homogenous and heterogenous cementation is performed with various devices.																
<p><b>Processing part of facility                      Cement fac</b></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>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	No	No	LLW	Yes	No	ILW	Yes	No	HLW	No	No
Waste Class	Actual	Planned															
VLLW	No	No															
LLW	Yes	No															
ILW	Yes	No															
HLW	No	No															
<b>Type:</b>	Conditioning																
<b>Year opened:</b>	1995																
<b>Comment</b>	<b># 20250: Processing Facility Cement fac</b>																
<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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<b>Facility:</b>	<b>Compactor</b>																
<b>Description:</b>	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																
<p><b>Processing part of facility                      Compactor</b></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>Yes</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	Yes	No	ILW	No	No	HLW	No	No
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VLLW	No	No															
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<b>Type:</b>	Treatment																
<b>Year opened:</b>	1995																

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<b>Facility:</b>	<b>Drier</b>															
<b>Description:</b>	Sludge drier: the facility is used for drying the sludge obtained in the Waste Water Treatment Facility and for liquid waste.															
<b>Processing part of facility</b>	<b>Drier</b>															
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Waste Class	Actual	Planned														
VLLW	No	No														
LLW	No	No														
ILW	No	No														
HLW	No	No														
<b>Type:</b>	Treatment															
<b>Year opened:</b>	1993															

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<b>Facility:</b>	<b>Incinerat</b>	
<b>Description:</b>	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	
<b>Processing part of facility                      Incinerat</b>		
The following shows processing status for waste classes and SRS.		
<b>Waste Class</b>	<b>Actual</b>	<b>Planned</b>
VLLW	No	No
LLW	No	No
ILW	Yes	No
HLW	No	No
<b>Type:</b>	Treatment	
<b>Year opened:</b>	1983	
<b>Comment</b>	<b># 20254: Processing Facility Incinerat</b>	
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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<b>Facility:</b>	<b>Interim</b>
<b>Description:</b>	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	Yes
ILW	Yes	Yes
HLW	No	No

<b>List SRS?</b>	No
<b>List UMMT?</b>	No

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

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<b>Facility:</b>	<b>Sorting</b>
<b>Description:</b>	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

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

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

<b>Type:</b>	Treatment
<b>Year opened:</b>	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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<b>Facility:</b>	<b>WWTF</b>
<b>Description:</b>	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	No	No
LLW	No	No
ILW	No	No
HLW	No	No

<b>Type:</b>	Treatment
<b>Year opened:</b>	1976

**Comment                      # 20251: Processing Facility WWTF**

At present a modification is carried out to use a diaphragm-technique(ultrafiltration) for the waste water treatment. By implementation of a new membrane-filtration a considerable reduction of the secondary waste generated at the Waste Water Treatment Facility is expected.