

Site (Structure) : Loviisa

Country: FINLAND

Reporting Year: 2009

Full Name: Loviisa NPP

Location: Loviisa, Finland

Description:

Official Website:

License Holder(s): Fortum Power and Heat Oy

Waste management facilities that are located at this site:

Facility:	DT
Description:	Disposal cave consists of tunnels designed with enough capacity for all reactor wastes from the power plant. The volume of packed waste to be disposed is estimated to be about 8740 m ³ .

Storage part of facility DT

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
reactor waste	Yes	Yes
spent fuel	No	No

List SRS?	No
List UMMT?	No

Capacity:	Disposal tunnels are designed with enough capacity for all reactor wastes from the power plant, in addition, tunnels can be used for storage purposes.
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
DT-storage	cave	1998	No	No	No	No

Site (Structure) : Loviisa

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Disposal part of facility DT

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
reactor waste	Yes	Yes
spent fuel	No	No

List SRS?	No
List UMMT?	No

Type:	geological (cavern)		
Facility is modular?	Yes		
Capacity existing (m3):	2500	Capacity planned (m3):	8740

Depth (m):	110	Host medium:	crystalline rock (gneiss)
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Phase Name	Start Year	End Year	Estimate
planning and/or concept assessment	1980	1986	False
site selection	1980	1983	False
design	1983	1986	False
construction	1993	1997	False
commissioning	1997	1998	False
operation	1998		False

Comment **# 9656: Disposal Tunnels DT**

The first disposal tunnel is almost full in the end of 2004, and the second disposal tunnel is taken in use in 2005. Their capacity is about 2500 m3 and they are mainly meant for maintenance waste. A disposal room is also planned to be constructed in the future for waste immobilized in cement.

Site (Structure) : Loviisa

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Facility:	LO1					
Description:	processing and storage of reactor waste					
Storage part of facility LO1						
The following shows storage status for waste classes and SRS.						
Waste Class	Actual	Planned				
reactor waste	Yes	Yes				
spent fuel	No	No				
List SRS?	No					
List UMMT?	No					
Capacity:	activated components can be stored here at loading ponds etc.					
Types of Storage Units						
Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
LO1	building	1977	No	No	No	No
Processing part of facility LO1						
The following shows processing status for waste classes and SRS.						
Waste Class	Actual	Planned				
reactor waste	No	No				
spent fuel	No	No				
Type:	Treatment, Conditioning					
Year opened:	1977					

Site (Structure) : Loviisa

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Facility:	LO2					
Description:	processing and storage of reactor waste					
Storage part of facility LO2						
The following shows storage status for waste classes and SRS.						
Waste Class	Actual	Planned				
reactor waste	Yes	Yes				
spent fuel	No	No				
List SRS?	No					
List UMMT?	No					
Capacity:	activated components can be stored here at loading ponds etc.					
Types of Storage Units						
Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
LO2	building	1980	No	No	No	No
Processing part of facility LO2						
The following shows processing status for waste classes and SRS.						
Waste Class	Actual	Planned				
reactor waste	No	No				
spent fuel	No	No				
Type:	Treatment, Conditioning					
Year opened:	1980					

Site (Structure) : Loviisa

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Facility:	NPP-Area					
Description:	Nuclear power plant storage area					
Storage part of facility NPP-Area						
The following shows storage status for waste classes and SRS.						
Waste Class	Actual	Planned				
reactor waste	Yes	Yes				
spent fuel	Yes	Yes				
List SRS?	No					
List UMMT?	No					
Capacity:	Nuclear power plant area can be used for storing purposes for waste that will not be disposed immediately, like liquid wastes waiting for cementation.					
Types of Storage Units						
Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
NPPStorage	building	1977	No	No	No	No