

Site (Structure) : Rokkasho

Country: JAPAN

Reporting Year: 2009

Full Name: Japan Nuclear Fuel Limited ::
 - Uranium Enrichment Plant
 (- Low-Level Radioactive Waste Disposal Center) -> see "disposal" reporting group
 - Vitrified Waste Storage Center
 - Reprocessing Plant

Location: Rokkasho Vil., Aomori Pref.

Description:

Official Website:

License Holder(s): Japan Nuclear Fuel Limited (JNFL)

Comment # 9749: Uranium Enrichment Plant

- 1,050 tSWU/y

Comment # 9751: Vitrified Waste Storage Center

Utilities in Japan have concluded reprocessing contracts with British and French companies for a total of 5,600 t U of spent fuel from light water reactors and 1,500 t U of spent fuel from a gas cooled reactor. In accordance with these contracts, vitrified waste canisters are returned to the utilities and are stored by JNFL.

Comment # 9752: Reprocessing Plant

- 800 tU/y (Under Construction)

The Reprocessing Plant is now under final commissioning test. The spent fuel storage building, which has 3,000 tU storage capacity with three wet-pools, have already been in service operation. Spent fuels from NPP sites have been received and stored since 2000.

Comment # 9753: MOX fuel Fabrication Plant (future facility)

(out of NEWMDB submission scope) A license application for fuel fabrication (MOX fuel 130 tHM/y) business was submitted in 2005. The construction of the plant started in 2010.

Waste management facilities that are located at this site:

Facility:	REP
Description:	Reprocessing Plant; radioactive waste management (RWM) associated with Spent Fuel Reprocessing

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Storage part of facility REP

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
HLW	No	Yes
LLW	Yes	Yes

List SRS?	No
List UMMT?	No

Capacity:	70,500 drums (14,100 m ³) for solid waste 850 m ³ for resin waste 2,000 drums (400 m ³) for hull/end pieces
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
LRW/B-1	building	1999	No	No	No	No
Resin (1)	tank (stainless steel)	1999	No	No	No	No
LRW/B-2	building	2004	No	No	No	No
Hull/EndPs	building	2006	No	No	No	No
CB/BP	building	2006	No	No	No	No
Resin (2)	tank (stainless steel)	2006	No	No	No	No

Processing part of facility REP

The following shows processing status for waste classes and SRS.

Waste Class	Actual	Planned
HLW	No	Yes
LLW	No	Yes

Type:	Treatment, Conditioning
Year opened:	0

Comment # 9755: Storage Units in JNFL::REP

- LRW/B-1: Low Radioactive Waste storage building-1 (for SF storage)
- Resin (1): resin waste tanks in the spent fuel receiving and storage building
- LRW/B-2: Low Radioactive Waste storage building-2 (for Reprocessing)
- Hull/EndP: storage for Hull/End Pieces
- CB/BP: storage for CB and BP
- Resin (2): resin waste tanks of reprocessing

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Facility:	UEP
Description:	Uranium Enrichment Plant; radioactive waste management (RWM) associated with Uranium enrichment

Storage part of facility UEP

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
HLW	No	No
LLW	Yes	Yes

List SRS?	No
List UMMT?	No

Capacity:	6,700 drums (1,340 m ³)
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
UEW/B	building	1992	No	No	No	No
U&W S/B	building	2002	No	No	No	No

Comment **# 9748: Storage Units in JNFL::UEP**

- UEW/B: Uranium Enrichment Waste Bldg.
- U&W S/B: Uranium and Waste Storage Bldg.

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Facility:	VWSC
Description:	Vitrified Waste Storage Center; Storage facility of Vitrified Waste returned from Overseas

Storage part of facility VWSC

The following shows storage status for waste classes and SRS.

Waste Class	Actual	Planned
HLW	Yes	Yes
LLW	Yes	Yes

List SRS?	No
List UMMT?	No

Capacity:	1,440 dry storage pits for Vitrified HLW packages 1,200 drums (240 m ³)
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Types of Storage Units

Storage Unit Name	Type Name	Year Opened	Closed?	Full?	Modular?	Contains SRS?
SWS	building	1995	No	No	No	No
VHLW S/B	pit	1995	No	No	No	No

Comment # 9754: Storage Units in JNFL::VWSC

Currently, the center has a storage capacity of 1,440 canisters of Vitrified HLW. The additional vitrified HLW storage building, which will have same capacity of 1,440 canisters, is under construction since June 2004 and will be completed in 2009. This means that total storage capacity will be increased to 2,880 canisters.

- SWS: solid waste storage room, located in Vitrified Waste Receiving Building
- VHLW S/B: Vitrified Waste Storage Building