

Site (Data) : Rokkasho

Stock of waste as at March 2009

Country: JAPAN

Reporting Year: 2009

Site Name: Rokkasho

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

Inventory Reporting Date: March 2009**Waste Matrix Used:** JP**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)

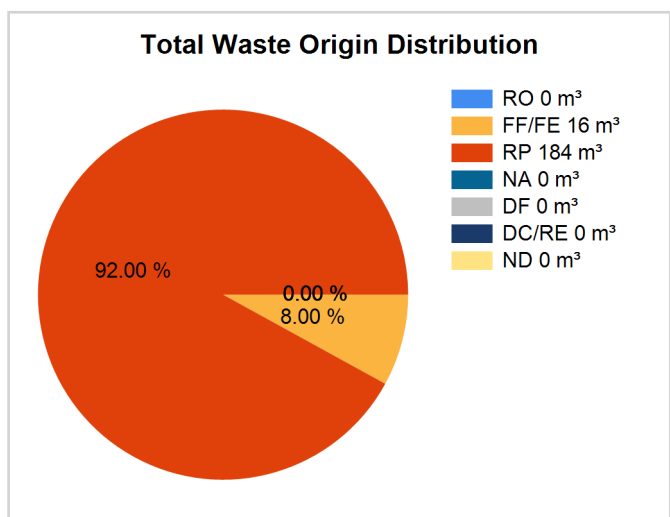
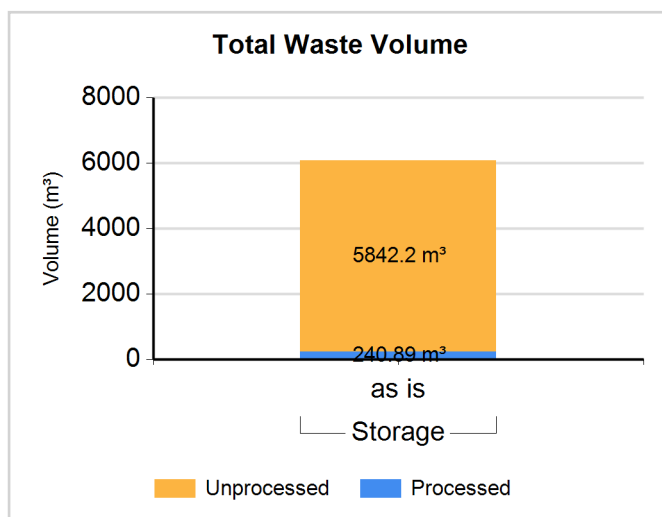
The Reprocessing Plant is now under final commissioning test. The spent fuel storage building, which has 3,000 tU storage capacity with three wet-pools, have already been in service operation. Spent fuels from NPP sites have been received and stored since 2000.

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 Inventory

Est=distribution is an estimate, Proc.=Is the waste processed (Yes/No)? RO=Reactor Operations, FF/FE=Fuel Fabrication/Fuel Enrichment, RP=Reprocessing, NA=Nuclear Applications,DF=Defence, DC/RE=Decommissioning/Remediation, ND=Not Determined



Note: where volume "as dispo" is provided, volume "as is" is used in the graph instead.

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Waste Class: HLW

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m ³)	Volume "as dispo" (m ³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
HLW (solid)	Storage / VWSC	Y	N	240.890	240.890	0.00	0.00	100.00	0.00	0.00	0.00	0.00

Comment **# 9876: HLW inventory in JNFL::Rokkasho**

total 1417 canisters: 1,310 vitrified waste canisters (170L) have stored in the storage pits of VWSC, and 107 vitrified waste has produced in the reprocessing plant.

Waste Class: LLW

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m ³)	Volume "as dispo" (m ³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
LLW	Storage	N	N	5842.200	5842.200	0.00	16.00	84.00	0.00	0.00	0.00	0.00

Comment **# 9877: LLW inventory in JNFL::Rokkasho**

Total LLW: 28,116 drums (200L) + 157 drums (1,000L)

•RP: 23,331 drums (200L) + 219 drums (1,000L). (sum of reprocessing plant and VWSC)

•FF/FE: 4,785 drums in uranium enrichment plant.

Processing - Treatment method(s)

Method	Status			
	Planned	R&D program	Current practice method use over the last 5 years	Past Practice
Chemical Precipitation	N	N	Same	N
Compaction	Y	N		N
Evaporation	Y	N		N
Filtration	N	N	Same	N
Incineration	Y	N		N
Shredding	Y	N		N

Processing - Conditioning method(s)

Method	Status			
	Planned	R&D program	Current practice method use over the last 5 years	Past Practice
Cementation	Y	N		N
Vitrification	Y	N		N