

Site (Data) : Tokai

Stock of waste as at March 2005

Country: JAPAN

Reporting Year: 2004

Site Name: Tokai

Full Name: Japan Atomic Power Co., Inc. :: Tokai Power Station & Tokai Daini Power Station

Inventory Reporting Date: March 2005 **Waste Matrix Used:** JP

Comment # 6928: Power Reactor facility

- Tokai-1(GCR, 166MWe) final shutdown 1998-03-31
- Tokai-2(BWR, 1,110MWe) op 1978-11-28

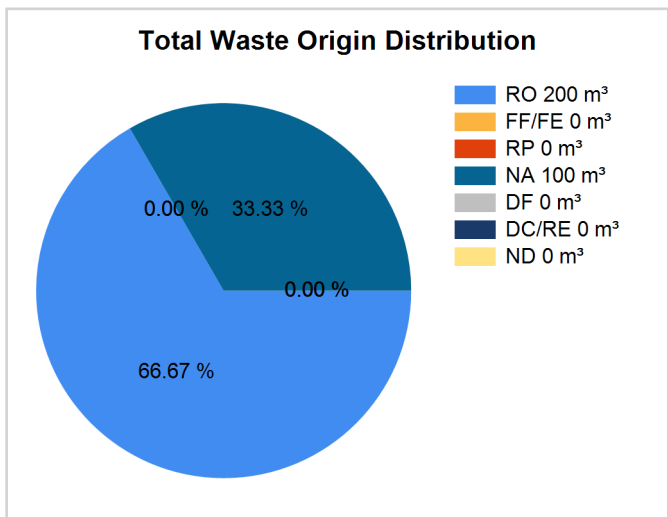
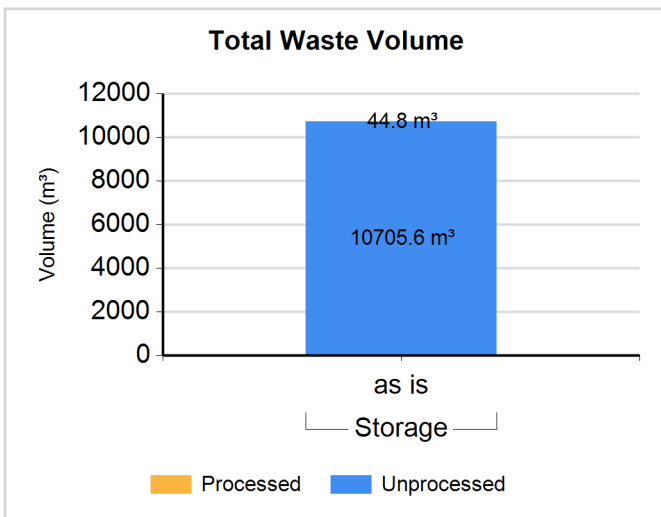
Tokai(GCR) is in Decommissioning since December 2001.

Comment # 9814: (former) Laser-J facility

The Laser-J, Laser Atomic Separation Engineering Research Association of Japan, was co-founded in 1987 with 9 EPCs, JAPC, JNFL and CRIEPI in order to develop the atomic vapor laser uranium enrichment technology. The experiment facility was built in the JAPC's premises in 1990 and the R&D work continued until 2003. Afterward, all machinery and equipments are dismantled and stored in the site. The Laser-J dissolved on March 2005 and the JAPC took over the management and maintenance of the waste storage building.

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: UW

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 %
UW (solid)	Storage / Laser-J	N	N	582.400	582.400	0.00	0.00	0.00	100.00	0.00	0.00	0.00

Comment **# 9855: Waste Inventory in JAPC::Tokai (Laser-J)**

- 2,912 drums (200L equivalent)

Waste Class: WfPR

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 %
WfPR (solid)	Storage / NPP	N	N	10123.200	10123.200	100.00	0.00	0.00	0.00	0.00	0.00	0.00
WfPR (solid)	Storage / NPP	Y	N	44.800	44.800	100.00	0.00	0.00	0.00	0.00	0.00	0.00

Comment **# 9854: Waste Inventory in JAPC::Tokai & Tokai Daini NPP**

- 45,565 drums (200L equivalent) in SWS/B
- 1,055 m³ in tanks
- †:Waste stored in pools/bunker are not reported.
- + 222 spent control rods, 2,998 channel box etc., other 10 m³ (BWR)
- + 1,405 m³ in bunker (GCR)

Processing - Treatment method(s)

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

Processing - Conditioning method(s)

Method	Status			
	Planned	R&D program	Current practice method use over the last 5 years	Past Practice
Casting (of metal and slag)	Y	N		N
Cementation	Y	N		N
Grouting	Y	N		N
Solidification	N	N	Same	N

Comment **# 7436: Waste Processing in JAPC::Tokai NPP**

Cementation & Solidification: The cement-mixing method for condensed wastewater from the Tokai-2 had practiced in past. During the period considered for the trending, slurry wastes including condensed wastewater are heat-dried and stored as pallet-form prior to produce disposal packages by cementation.