

Site (Data) : Tokai

Stock of waste as at March 2005

Country: JAPAN

Reporting Year: 2004

Site Name: Tokai

Full Name: Japan Nuclear Cycle Development Institute :: Tokai works

Inventory Reporting Date: March 2005

Waste Matrix Used: JP

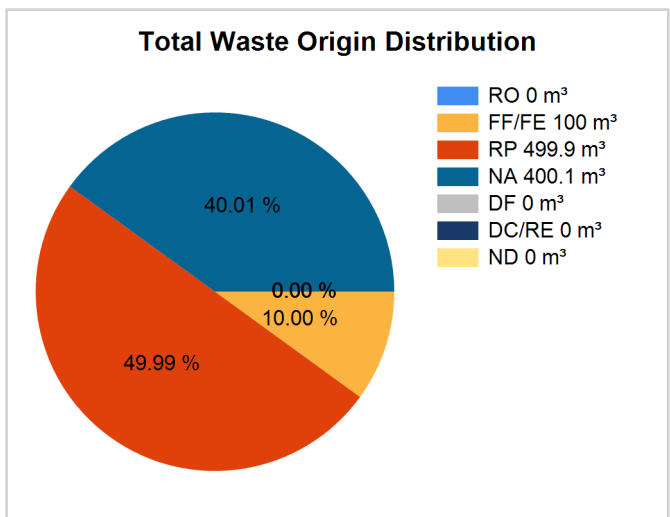
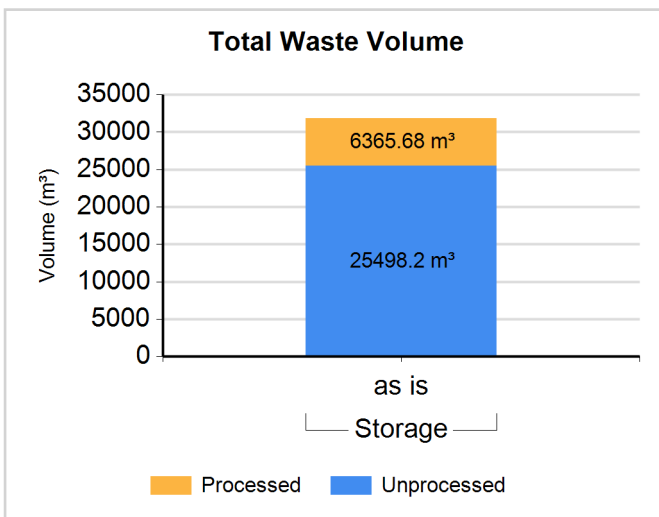
Comment # 9817: Reprocessing Center
(Tokai Reprocessing Plant)
• 0.7 tU/d Start up in 1977

Comment # 9818: Plutonium Fuel Center
(MOX Fuel Fabrication Facilities)

Comment # 9819: other R&D facilities
R&D facilities other than REP and FFP-MOX in this site;
• uranium refining, conversion and enrichment
• processing of HLW (CPF: Chemical Processing Facility)

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 (liquid)	Storage / REP	N	N	412.600	412.600	0.00	0.00	99.90	0.10	0.00	0.00	0.00
HLW (solid)	Storage / REP	Y	N	20.280	20.280	0.00	0.00	100.00	0.00	0.00	0.00	0.00

Comment **# 9864: HLW inventory in JNC::Tokai**

169 vitrified waste packages (120L canister) stored in TVF. Almost all liquid HLW is stored in the reprocessing plant, and very small fraction is stored in R&D facility (CPF).

Waste Class: WcTRU

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 %
WcTRU (solid)	Storage / FFP (MOX)	N	N	5342.400	5342.400	0.00	100.00	0.00	0.00	0.00	0.00	0.00
WcTRU (liquid)	Storage / REP	N	N	3433.000	3433.000	0.00	0.00	100.00	0.00	0.00	0.00	0.00
WcTRU (solid)	Storage / REP	N	N	9681.600	9681.600	0.00	0.00	100.00	0.00	0.00	0.00	0.00
WcTRU (solid)	Storage / REP	Y	N	6345.400	6345.400	0.00	0.00	100.00	0.00	0.00	0.00	0.00

Comment **# 9865: WcTRU inventory in JNC::Tokai**

Liquid waste includes condensed wastewater, sludge and solvents.

There were 6,081 drums of high radioactive solid waste and 74,054 drums of low radioactive solid waste stored in the reprocessing plant. 26,712 drums of waste stored with MOX fuel fabrication.

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 (liquid)	Storage / R&D	N	N	22.300	22.300	0.00	0.00	0.00	100.00	0.00	0.00	0.00
UW (solid)	Storage / R&D	N	N	6525.800	6525.800	0.00	0.00	0.00	100.00	0.00	0.00	0.00

Comment **# 9866: UW inventory in JNC::Tokai**

32,629 drums (200L) of solid waste and 22.3 m³ of contaminated oil

Waste Class: WfNA

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 %
WfNA (liquid)	Storage / R&D	N	N	2.700	2.700	0.00	0.00	0.00	100.00	0.00	0.00	0.00
WfNA (solid)	Storage / R&D	N	N	77.800	77.800	0.00	0.00	0.00	100.00	0.00	0.00	0.00

Comment **# 9867: Waste from Research activities**

389 drums (200L) of solid waste and 2.7 m³ of liquid waste stored in R&D facility (CPF). These of waste may correspond to WcTRU category, however, categorized as WfNA.

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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
Decontamination	N	Y		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
Bituminization	N	N		Y
Casting (of metal and slag)	N	Y		N
Polymerization	N	N	Same	N
Vitrification	N	N	Same	N

Comment **# 7394: Waste processing in JNC::Tokai**

Casting (of metal and slag): in R&D for MOX waste processing, melting of metal and ash from incineration.