

## Site (Data) : Oarai EC

Stock of waste as at March 2005

Country: JAPAN

Reporting Year: 2004

**Site Name:** Oarai ECFull Name: Japan Nuclear Cycle Development Institute ::  
Oarai Engineering Center

Inventory Reporting Date: March 2005

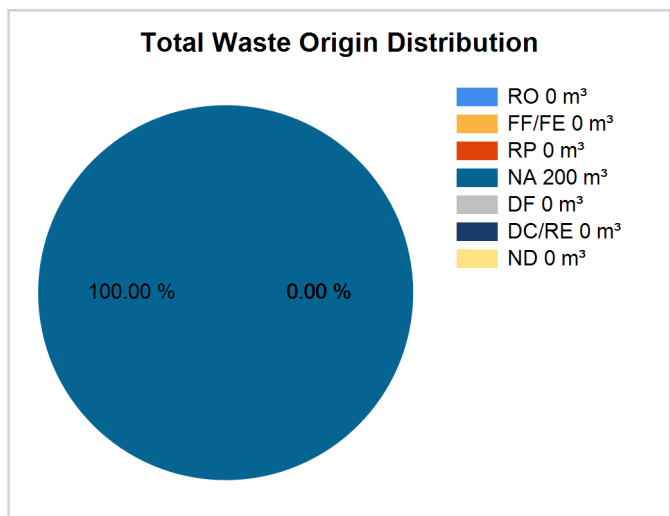
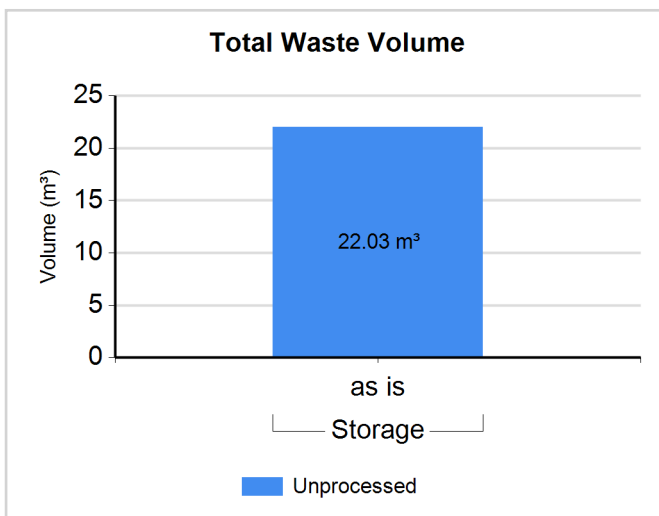
Waste Matrix Used: JP

Comment # 6934: JNC Oarai Engineering Center

The Oarai Engineering Center, which hosts the Experimental Fast Reactor, "JOYO", serves as the core of JNC's R&D activities on the fast reactor technologies through the design studies for the commercialization of the fast reactor, research for the improvement of key technologies for the fast reactor and irradiation tests utilizing JOYO and post irradiation test facilities.

**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.

**Waste Class:** WfNA

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
WfNA (liquid)	Storage	N	N	0.030	0.030	0.00	0.00	0.00	100.00	0.00	0.00	0.00
WfNA (solid)	Storage	N	N	22.000	22.000	0.00	0.00	0.00	100.00	0.00	0.00	0.00

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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
Filtration	N	N	Same	N
Incineration	Y	N		N
Size Reduction	N	N	Same	N

Comment **# 9863: Waste Processing in JNC::Oarai EC**

Incineration: with high temperature, ash from incineration is melted and solidified to vitrus slag.

Waste generated from JOYO and post irradiation examination facilities are to be transported to the Waste Management Facility (RWM) of JAERI Oarai Research Establishment. Liquid waste from JOYO and post irradiation examination of fuels are accumulated and pre-treated in the JWTF to make them suitable for the acceptance criteria of JAERI's RWM facility. Solid wastes of large size are pre-treated (decontaminated, dismantled) in the WDF, and then transported to JAERI's RWM facility.

**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)	N	N	Same	N

Comment **# 7396: Waste processing in JNC::Oarai EC**

Casting (of metal and slag): waste is melted and solidified to vitreous slag, using microwave heating.