

**Site (Data) : KRSKO NPP**

Stock of waste as at December 2006

Country: SLOVENIA

Reporting Year: 2006

**Site Name: KRSKO NPP**

Full Name: Krsko Nuclear Power Plant

Inventory Reporting Date: December 2006 Waste Matrix Used: IAEA Def.

Comment **# 14746: Management of KRSKO NPP (<http://www.nek.si>)**

Under the Contract between the Government of the Republic of Slovenia and the Government of the Republic of Croatia on the regulation of status and other legal relations connected to investment in NEK, its exploitation and decommissioning, and the Memorandum of Association, both of which entered into force on 11 March 2003, NEK is organised as a limited liability company or I.L.c.

The basic capital of NEK is divided into two equal shares owned by the partners GEN energija I.L.c. Ljubljana and Hrvatska Elektroprivreda p.l.c., Zagreb. NEK produces and supplies electricity exclusively in favour of the two partners, who each have the right and obligation to use 50% of its total output.

Comment **# 14747: About KRSKO NPP (<http://www.nek.si>)**

NEK has been in operation for twenty-five years. Projected life-time is until 2023. Over the course of the operational years NEK have witnessed a great many social changes and technological upgrades which have affected their work.

If twenty-five years ago their main aim was adapting to high professional and technical standards of nuclear technology, today the impact of market forces and public acceptability are equally important. If twenty-five years ago they were not yet considering the need to exchange domestic and international operational experience, today this is part of their everyday routine.

All of those changes, and in particular people's increased environmental awareness, are reflected in their everyday operation and in NEK's long-term strategy. They are reflected in the high level of nuclear safety. They guarantee, in the stability and competitiveness of their electricity production in comparison to other energy sources and, last but not least, in their objectives of achieving NEK's public acceptability.

Over the course of twenty-five years they have formed a qualified team which is strongly committed to their goals and to the values of safety culture. On the basis of know-how, continuous training, safe operation and operating efficiency, they are realizing an optimistic vision of the second half of NEK's lifecycle.

Attachment **#1418: Site**

NEK\_Annual\_Report\_2004.pdf

NEK annual report 2004

Attachment **#1419: Site**

NEK\_Annual\_Report\_2005.pdf

NEK annual report 2005

Attachment **#1420: Site**

NEK\_Annual\_Report\_2006.pdf

NEK annual report 2006

## Site (Data) : KRSKO NPP

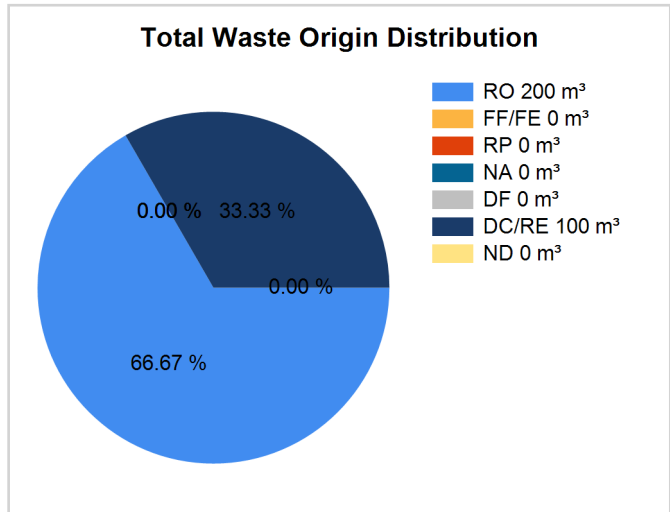
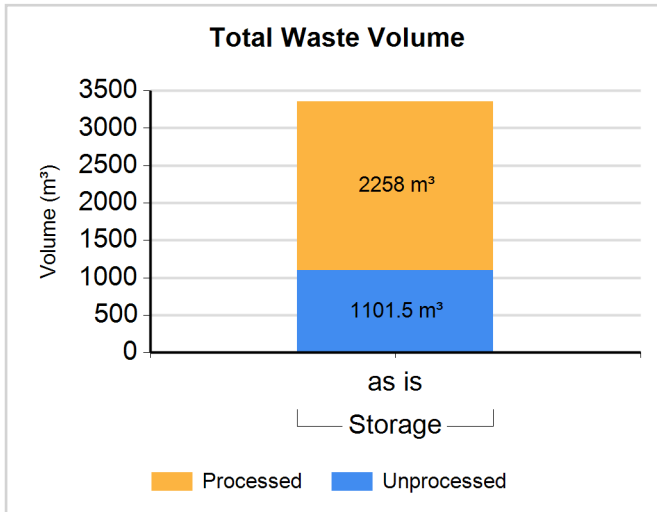
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## Waste Inventory

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: LLW

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
LLW	Storage	N	Y	985.000	985.000	0.00	0.00	0.00	0.00	0.00	100.00	0.00
LLW	Storage	Y	Y	2258.000	2258.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00

## Waste Class: HLW

Data available but will not be reported.

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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	N	Same	N
Evaporation	N	N	Same	N
Filtration	N	N	Same	N
Incineration	N	N	Same	N
Ion Exchange	N	N	Same	N
Metal Melting	Y	N		N
Segregation/Sorting	N	N	Same	N
Size Reduction	N	N	Increase	N
Super Compaction	N	N	Increase	N
Thermal Treatment (non incineration)	N	N	Increase	N

Comment # 7627: Reference:

ESD-TR-03/97 rev.2

Comment # 7628: Incineration

NPP Krsko does not have own incineration facility.

Drums with combustible waste were sent for incineration in Studsvick. There were two incineration campaigns, the first took place in 1998 and the second one in 2002.

Comment # 7629: Thermal Treatment - IDDS

The liquid radioactive wastes are mainly evaporator bottoms and spent ion exchange resins. With a special system for drying the waste (IDDS - The »In-Drum Drying System«) in the drums, the water is entirely excluded from the waste.

**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
Cementation	N	N	Decrease	N
Containerization	N	N	Same	N
Solidification	N	N	Increase	N