

Site (Structure) : KRSKO NPP

Country: SLOVENIA

Reporting Year: 2008

Full Name: Krsko Nuclear Power Plant

Location: Krsko Nuclear Power Plant
Vrbina 12, SI-8270 Krsko, Slovenia

Description:

Official Website:

License Holder(s): Krsko Nuclear Power Plant
Vrbina 12, SI-8270 Krsko, Slovenia
tel: +386 7 480 20 00
<http://www.nek.si>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

Attachment **#1592: Site**

NEK_Annual_Report_2007.pdf

NEK annual report 2007

Attachment **#1798: Site**

NEK_Annual_Report_2008.pdf.pdf

NEK Annual Report 2008

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Waste management facilities that are located at this site:

| | |
|---------------------|---|
| Facility: | KRSKO NPP |
| Description: | Krsko NPP processing and storage facility |

Storage part of facility KRSKO NPP

The following shows storage status for waste classes and SRS.

| Waste Class | Actual | Planned |
|-------------|--------|---------|
| VLLW | No | No |
| LLW | Yes | No |
| ILW | No | No |
| HLW | Yes | No |

| | |
|-------------------|----|
| List SRS? | No |
| List UMMT? | No |

| | |
|------------------|---|
| Capacity: | Solid radwaste storage facility (LILW) with capacity of app.2500-2800m3 and the decontamination building. Total storage capacity of the spent fuel pool is 1694 fuel positions. |
|------------------|---|

Types of Storage Units

| Storage Unit Name | Type Name | Year Opened | Closed? | Full? | Modular? | Contains SRS? |
|-------------------|-----------|-------------|---------|-------|----------|---------------|
| LILW-store | building | 1983 | No | No | No | No |
| SF-pool | pool | 1983 | No | No | No | No |
| LILW-decon | building | 1998 | No | No | No | No |

Processing part of facility KRSKO NPP

The following shows processing status for waste classes and SRS.

| Waste Class | Actual | Planned |
|-------------|--------|---------|
| VLLW | No | No |
| LLW | Yes | No |
| ILW | No | No |
| HLW | No | No |

| | |
|---------------------|-------------------------|
| Type: | Treatment, Conditioning |
| Year opened: | 1983 |

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Comment # 12160: Spent Fuel Management Facility in Krsko NPP

Spent Fuel Management Facility

The Republic of Slovenia has no off-site spent fuel management facilities. The spent fuel that is generated by the operation of the Krsko NPP is managed in storage facility which are integral parts of these nuclear facility.

The Fuel Handling Building is operated under the plant's license and is therefore not considered an independent nuclear facility. The fuel handling building consists of a spent fuel pool and the related fuel handling system which enables the handling of spent fuel.

Comment # 12161: LILW Facilities in Krsko NPP

The Krsko NPP includes the following buildings for radioactive waste management:

Auxiliary Building, where the systems for solid, liquid and gaseous waste processing are located. The building is located adjacent to the Fuel Handling Building and the Reactor Building within the Radiologically Controlled Area. The main activities related to waste management in this building are pre-treatment (waste collection, segregation, chemical adjustment, decontamination), treatment (radionuclide removal, volume reduction) and conditioning (immobilisation, packaging). The conditioned waste is transported to the Solid Radwaste Storage Facility by a forklift or an electric-powered cart using a special shield when necessary.

Solid Radwaste Storage Facility, an interim storage. Its operating license was extended in 1988 due to the lack of a LILW repository. It is a reinforced concrete structure, seismically qualified, located adjacent to the Auxiliary Building. Total area is 1470 m² after an area optimisation project, applying a special steel structure to support the storage of waste on the second level, the useful volume was increased to allow waste storage for a longer period of time. The storage time in the Solid Radwaste Storage Facility is variable and is dependent on waste generation rates and waste management plans. The facility has provisions for storing different solid radioactive wastes separately and retrieving them for further processing (supercompaction, incineration, melting, clearance after decay of radionuclide) or disposal at a later time.

Decontamination Building, an interim storage, built for decay storage for two old steam generators and radioactive waste produced through replacement of steam generators and other larger components. The building meets the requirements for LILW storage. The outer wall and the roof slab design were governed by the radiological shielding requirements.