

## Site (Structure) : KRSKO NPP

Country: SLOVENIA

Reporting Year: 2005

Full Name: Krsko Nuclear Power Plant

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

Waste management facilities that are located at this site:

|                     |   |
|---------------------|---|
| <b>Facility:</b>    | <b>KRSKO NPP</b>                          |
| <b>Description:</b> | 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 |
|-------------|--------|---------|
| LILW        | Yes    | Yes     |
| HLW         | Yes    | Yes     |

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

|                  |   |
|------------------|---|
| <b>Capacity:</b> | 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            |

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|-------------|--------|---------|
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| HLW         | No     | No      |

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

**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 m<sup>2</sup> 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.