

Site (Structure) : CNE

Country: ARGENTINA

Reporting Year: 2004

Full Name: CENTRAL NUCLEAR EMBALSE
EMBALSE NUCLEAR POWER PLANT

Location: EMBALSE RIO TERCERO - CORDOBA

Description:

Official Website:

License Holder(s): RICARDO TIBALDI

Comment # 9931: CNE Nuclear Power Plant

Embalse Nuclear Power Plant (Candu type reactor) has an installed power capacity of 648 MW(e).

Waste management facilities that are located at this site:

| | | |
|--|--|----------------|
| Facility: | COMPACTOR | |
| Description: | There is an area in the reactor building controlled zone housing with a 16 t capacity hydraulic press. | |
| | | |
| Processing part of facility | COMPACTOR | |
| The following shows processing status for waste classes and SRS. | | |
| Waste Class | Actual | Planned |
| LILW-SL | Yes | Yes |
| LILW-LL | No | No |
| HLW | No | No |
| Type: | Treatment | |
| Year opened: | 1984 | |

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| | |
|---------------------|---|
| Facility: | DRUMS |
| Description: | This facility located inside Embalse nuclear power plant is used to store 200 liters drums. |

Storage part of facility DRUMS

The following shows storage status for waste classes and SRS.

| Waste Class | Actual | Planned |
|-------------|--------|---------|
| LILW-SL | Yes | Yes |
| LILW-LL | No | No |
| HLW | No | No |

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

| | |
|-----------|--|
| Capacity: | |
|-----------|--|

Types of Storage Units

| Storage Unit Name | Type Name | Year Opened | Closed? | Full? | Modular? | Contains SRS? |
|-------------------|-----------|-------------|---------|-------|----------|---------------|
| DRUMS | building | 1995 | No | No | No | No |

Comment **# 9933: Storage Facility DRUMS**

Treatment and conditioning practices, such as compacting of solid compactable wastes and immobilization in cement matrixes of non-compactable solids are performed at Embalse Nuclear Power Plant.

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| | |
|---------------------|--|
| Facility: | FILTERS |
| Description: | It is a storage used to store the spent filters generated in the nuclear power plant along the whole life cycle. |

Storage part of facility**FILTERS**

The following shows storage status for waste classes and SRS.

| Waste Class | Actual | Planned |
|-------------|--------|---------|
| LILW-SL | Yes | Yes |
| LILW-LL | No | No |
| HLW | No | No |

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

| | |
|------------------|--|
| Capacity: | The storage facility for purification filter is located in an approximately 50 m x 50 m elevated area located some 250 meters from the service building. |
|------------------|--|

Types of Storage Units

| Storage Unit Name | Type Name | Year Opened | Closed? | Full? | Modular? | Contains SRS? |
|-------------------|-----------|-------------|---------|-------|----------|---------------|
| FILTERS | building | 1984 | No | No | No | No |

Comment **# 9938: Storage Facility FILTERS**

Underground containment structures include concrete cubicles and cylindrical pits with steel lined concrete walls. The drainage characteristics of the elevated facility are such that the level of the lowest points of the storage cubicles are above the estimated highest level of the groundwater table.

Concrete storage cubicles are divided into separate cells where low-level wastes are stored. Cylindrical vertical cavities or pit holes are used to store intermediate-level waste purification mechanical filters.

The original design comprises a concrete cubicle made of five aligned cells with a depth of 3 m and a cross section of 3 m x 3 m, and five concrete cylindrical pits with a diameter of 1 m and a depth of 4.4 m. The capacity can house solid radioactive wastes produced during the power plant useful life. Nevertheless, the facility allows expansion of the concrete containment structures to store all solid radioactive wastes that could be additionally generated.

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| | |
|---------------------|--|
| Facility: | RESINS |
| Description: | Spent ion exchange resin beds are stored in tanks. |

Storage part of facility RESINS

The following shows storage status for waste classes and SRS.

| Waste Class | Actual | Planned |
|-------------|--------|---------|
| LILW-SL | Yes | Yes |
| LILW-LL | No | No |
| HLW | No | No |

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

| | |
|------------------|---|
| Capacity: | There are two tanks of 260 m3 each one. |
|------------------|---|

Types of Storage Units

| Storage Unit Name | Type Name | Year Opened | Closed? | Full? | Modular? | Contains SRS? |
|-------------------|-----------------|-------------|---------|-------|----------|---------------|
| RESINS | tank (concrete) | 1984 | No | No | Yes | No |

Comment **# 9934: Storage Facility RESINS**

At CNE liquid radioactive waste originated in the operation and maintenance activities are treated by ion exchange resin beds, discharging into the environment the exhausted streams.