

Transportation of Radioactive Materials by the SSE Chornobyl NPP within Exclusion Zone in Ukraine

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ChNPP obtained a license from the State Nuclear Regulatory Inspectorate of Ukraine the activities at the life cycle decommissioning stage of the Chornobyl NPP power units 1,2, and 3.

In the course of ChNPP power units decommissioning and the Shelter Object facility transformation into an environmentally safe system, various types of waste are produced.

All waste has to be brought to a safe state and transported to disposal sites.

The main types of waste transported by the SSE ChNPP within the exclusion zone:

- liquid radwaste after conditioning at the Liquid Radwaste Treatment Plant is transported for disposal to the Centralised Enterprise for Radioactive Waste Management (CERWM);
- solid radwaste after conditioning at the Solid Radwaste Processing Plant is transported for disposal to the CERWM;
- spent nuclear fuel is transported from the ISF-1 to the ISF-2 (dry type);
- spent ionizing radiation sources are transported for disposal to the CERWM.

Physical protection of radioactive materials during transportation is one of the SSE ChNPP priority tasks and is ensured by taking the administrative and technical measures:

- radioactive materials are placed in special shielded transport containers;
- special-purpose vehicles are used;
- security during transportation is ensured by the personnel who have undergone the relevant training;
- constant, stable and reliable communication is ensured for the information exchange, in particular in the event of an emergency.

All information on the movement of radioactive materials is recorded and entered into the relevant electronic databases.