



By the Numbers

West Valley Demonstration Project Site Cleanup

The West Valley Demonstration Project (WVDP) is a radioactive waste management and decommissioning project, which is being conducted by the Department of Energy (DOE) at the site of the only commercial nuclear fuel reprocessing plant to have operated in the United States. The Western New York Nuclear Service Center and its facilities are owned by the New York State Energy Research and Development Authority. The mission of the DOE is to satisfy the mandates established by Congress in the WVDP Act of 1980.

DOE has completed the first two mandates of the Act — solidify the high-level radioactive waste and develop containers suitable for disposal of the high-level waste. During the next five years, DOE plans to remove the 275 canisters of vitrified high-level waste from the former spent fuel reprocessing plant and store them in shielded casks, pending the availability of a federal repository; decontaminate and demolish the old reprocessing plant and other facilities and structures; and dispose of the low-level wastes generated from decommissioning.

Mandate: Solidify the High-Level Radioactive Waste

24,000,000 curies of radioactivity were solidified in **600 tons** of glass contained in **275 stainless steel canisters**.

The **275** canisters of vitrified high-level radioactive waste plus 3 canisters of decontamination waste will be removed from their storage cell in the former reprocessing plant, loaded into **56 vertical storage casks**, and stored onsite awaiting a permanent repository.

Mandate: Decommission the Facilities Used

More than 6 miles of piping and **over 50 tons** of vessels and equipment have been removed from predominantly high-hazard areas of the former reprocessing plant.

Over 2,000 linear feet of friable asbestos pipe insulation have been removed from the former reprocessing plant.

30 surplus facilities have been removed from the site.

Mandate: Dispose of the Low-Level Radioactive Waste and Transuranic Waste

>1,500,000 ft³ of low-level radioactive waste have been shipped to off-site disposal.

≈28,000 ft³ of transuranic waste are stored onsite pending availability of an off-site disposal facility.

125 commercial spent nuclear fuel assemblies were removed from the fuel pool and shipped to the Idaho National Laboratory.



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