



Department of Energy

Portsmouth/Paducah Project Office
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March 25, 2024

Ms. Tammi Hudson
Division of Waste Management
Kentucky Department for Environmental Protection
300 Sower Boulevard 2nd Floor
Frankfort, Kentucky 40601

PPPO-02-10027109-24B

Dear Ms. Hudson:

2023 ANNUAL SITE TREATMENT PLAN UPDATE AND WASTE MINIMIZATION PROGRESS REPORT FOR THE U.S. DEPARTMENT OF ENERGY, PADUCAH GASEOUS DIFFUSION PLANT, PADUCAH, KENTUCKY

References:

1. Email from L. Williamson to M. Redfield, "RE: PGDP Site Treatment Plan Reporting Requirements," dated April 20, 2012
2. Letter from A. Webb to R. Knerr, "Approval of the Department of Energy's 2010 Site Treatment Annual Update Report and Request to Cease Quarterly Site Treatment Plan Reporting Requirements," dated July 28, 2011

Background

The September 10, 1997, Agreed Order (File No. DWM-30039-042) between the Kentucky Department for Environmental Protection (KDEP) and the U.S. Department of Energy (DOE) requires submittal of an annual update regarding implementation of the Site Treatment Plan (STP). Additionally, the Agreed Order requires that DOE implement a Waste Minimization and Pollution Prevention (WM/PP) Awareness Program to minimize the amount of new wastes added to the STP each year. The Agreed Order requires that a progress report be submitted annually on or before March 31 of each year for the previous calendar year (CY).

On July 9, 2009, discussions between Paducah DOE Site Office personnel and KDEP personnel resulted in agreement that both the quarterly progress report and the required annual STP update could be submitted in letter format. It subsequently was agreed that the Waste Minimization Annual Progress Report could be included also in letter format with this submittal.

On July 28, 2011, KDEP approved the suspension of the quarterly and annual reporting requirements in the Agreed Order until any additional waste is added to the STP. In further discussions, KDEP requested an annual letter confirming no waste was added. This letter constitutes submittal of DOE's annual update for the reporting period January 1, 2023, to December 31, 2023, confirming no addition of mixed low-level waste (MLLW) to the STP.

Four Rivers Nuclear Partnership, LLC (FRNP) is the contractor responsible for performing Resource Conservation and Recovery Act generator requirements on behalf of both FRNP and DOE for all activities under the scope of FRNP's contract. FRNP is responsible for ensuring overall compliance with the STP/Agreed Order.

Annual STP Update

Approved Amendments or Revisions: No amendments or revisions were approved by the Cabinet during CY 2023.

Volume of STP MLLW: Currently, no waste is managed under the STP at the Paducah Gaseous Diffusion Plant (PGDP).

Waste Minimization Annual Progress Report

The waste minimization goals specifically related to the STP are as follows:

- Minimize the generation of hazardous and mixed waste;
- Segregate hazardous waste from radioactive mixed waste; and
- Reduce the volume, toxicity, and mobility of waste generated.

Implementation of these goals continues to ensure that the amount of waste that requires being added to the STP each year is minimized to the extent practicable.

Information regarding the PGDP WM/PP Program is provided in the current version of CP2-WM-0001, *Four Rivers Nuclear Partnership, LLC, Paducah Deactivation and Remediation Project Waste Management Plan*. All PGDP projects are evaluated for WM/PP opportunities. WM activities at PGDP related to the STP WM goals include the following:

- Reducing the quantity of wastes generated at their sources;
- Draining, decanting, drying, dewatering, evaporating, and otherwise removing liquid from wastes when possible;
- Segregating, sorting, consolidating, and reducing the volume of like wastes; and
- Reusing or recycling materials that otherwise would be managed as hazardous or radioactive mixed waste.

The following is a brief discussion of the main STP WM accomplishments in CY 2023:

- Regenerated 17,720 pounds (lbs.) of activated carbon, averting disposal;
- Recycled 169 lbs. of various light bulbs;
- Recycled 16,777 lbs. of various batteries;
- Recycled 250 lbs. of unpunctured aerosol cans; and,
- Shipped 500 lbs. of unused chemicals offsite for use, averting disposal.

If you have any questions or require additional information, please contact Ryan Callihan at (740) 897-2835 or (740) 970-0255.

Sincerely,

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April Ladd
Federal Facility Agreement Manager
Portsmouth/Paducah Project Office

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