



Four Rivers Nuclear Partnership

Deactivation and Remediation Contractor for the
U.S. Department of Energy's Paducah Site

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Deactivation



MATERIAL SIZING AREA

Construction underway

Began installation of system components (e.g. dust collection system)

Began converter segmentation training



LINAS

Completed construction of first-of-its-kind scanning facility for Paducah

10 total methods developed for NDA measurements



BUNDLE SIZE REDUCTION

Completed construction

Preparing to begin Contractor readiness review

Remediation



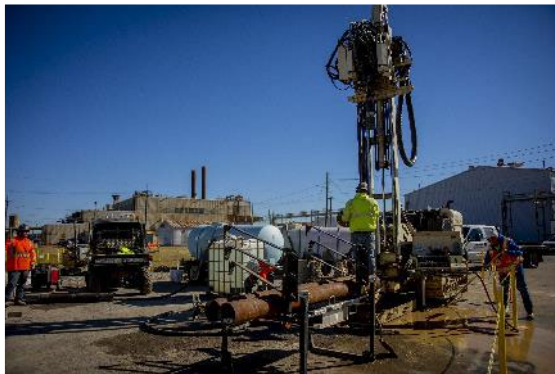
C-400 RI/FS

Completed largest environmental investigation at the Paducah site since Federal Facilities Agreement was signed in 1998

Fieldwork completed in March 2022

Developed RI/FS report; final document undergoing regulatory review

Proposed Plan under development



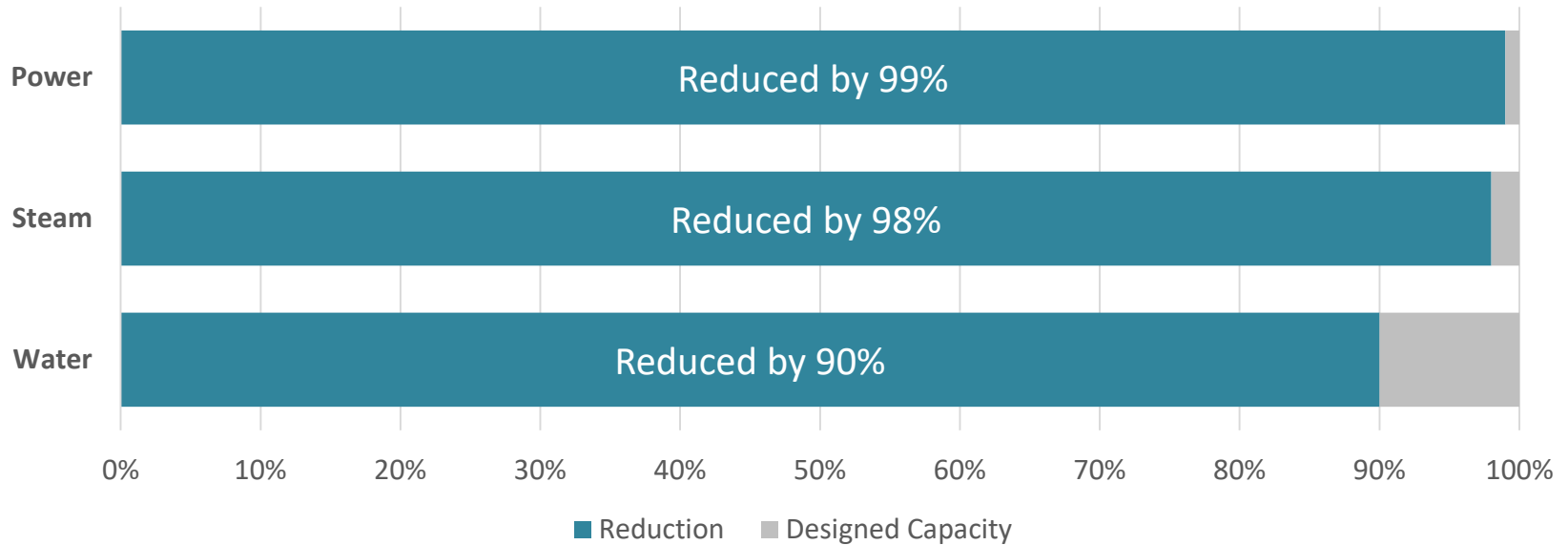
SMWU 211-A

Completed Bioremediation remedial action fieldwork in November 2022, ahead of schedule

Finalizing Remedial Action Completion Report – due to regulators March 2023

Optimization

Site Utility Optimization

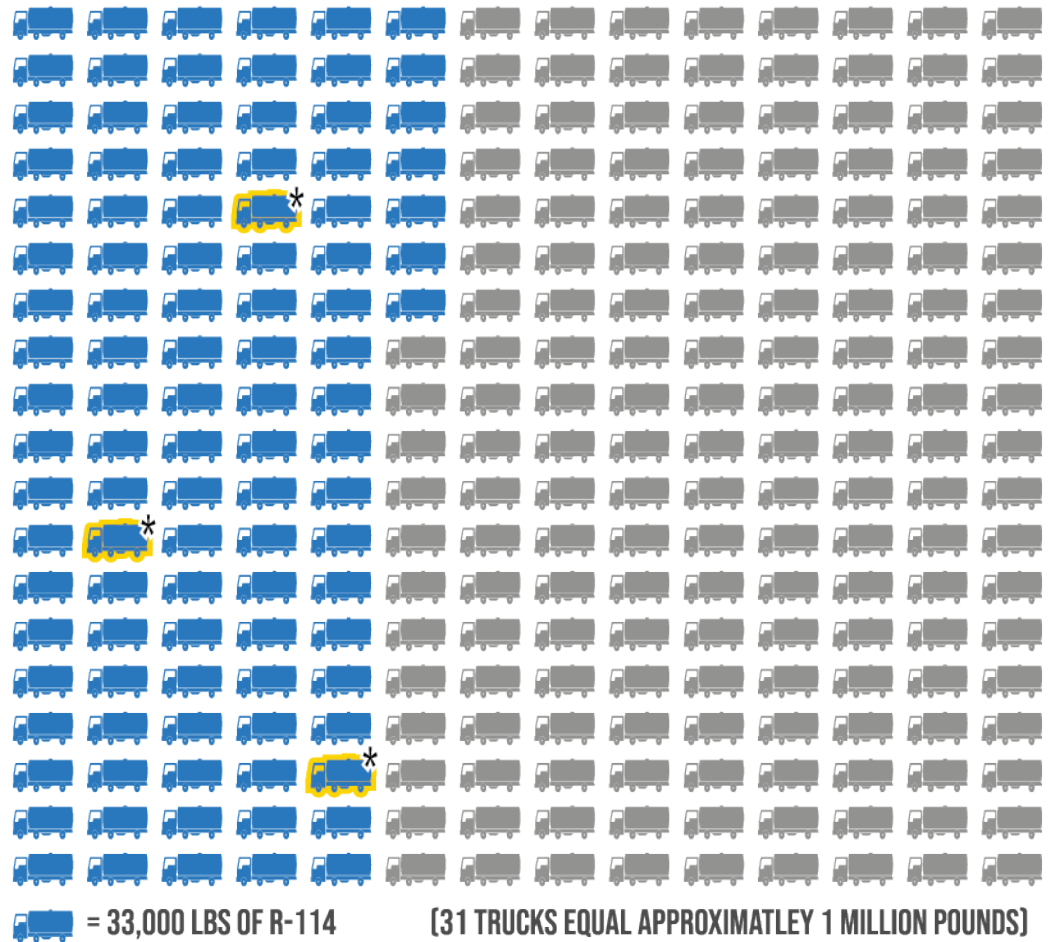


- Deactivated four switchyards
- Completed hydraulic study for water at the site
- Four out of five package boilers removed from service
- ~5,600 feet of steam distribution piping taken out of service

Surveillance & Maintenance

- Disposition of R-114
- 5 miles of High Pressure Fire Water system piping removed from service
- 2 miles of Recirculating Cooling Water piping removed from service
- 53,000 square feet of facilities to be demolished

R-114 DISPOSITION PROGRESS

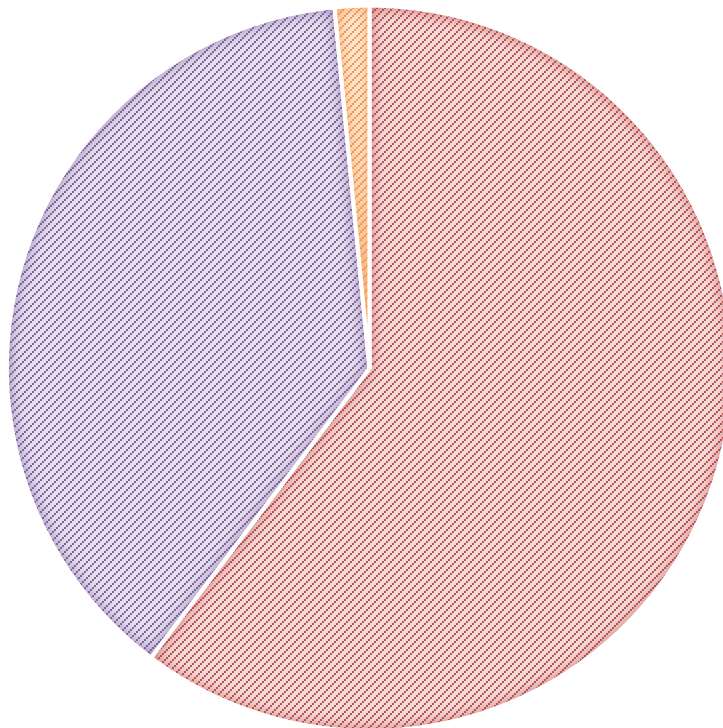


Paducah Top Priorities

1. Complete C-333 Process Building deactivation
2. Continue C-400 Remedial Action Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) activities
3. Continue disposal of R-114 refrigerant inventory
4. Implement Utilities Optimization Plan
5. Continue switchyards dismantlement
6. Demolish non-CERCLA facilities (37 facilities)
7. Complete construction of the Emergency Operations Center building
8. Upgrade groundwater model

WASTE GENERATION

■ Demolition ■ MSA ■ Other



- Facility demolition includes Low Level Waste and Mixed Low Level Waste, approximately 30 waste gondolas
- MSA includes 20 converter shells from converter segmentation
- NaF trap disposal and asbestos pipe insulation