



## Decontamination & Demolition Project Support

E2 Consulting Engineers, Inc. (E2) has played major roles in the planning and implementation of Cold & Dark and decontamination & demolition (D&D) activities in the DOE Complex since 1999. E2 has recently been supporting the DOE clean-up mission by providing D&D support services (work planning, project management, field supervision, and craft labor) at the Savannah River, Hanford, Idaho, Separations Process Research Unit (SPRU), and West Valley sites.

When you combine our extensive experience on D&D projects with our other business lines, E2 provides our large business teaming partners with a highly capable, value oriented, minority-owned, small disadvantaged business that adds real value in completing the DOE clean-up mission.

### Recent Projects

#### Savannah River Site (SRS)

E2 provides a wide variety of professional services to the Savannah River Nuclear Solutions D&D organization, including D&D project management, work planning and control, field supervision, and craft labor. With the ramp up of D&D activities at SRS through the American Reinvestment and Recovery Act, the scope of D&D services provided by E2 in 2010 exceeded 200 staff in D&D and other project support activities.



Heavy Water Test Reactor at SRS

#### Hanford Site

E2 supports the three prime contractors on the River Corridor, Tank Operations, and Plateau Remediation contracts with work planning and control personnel for D4 (Decommission, Deactivate, Decontaminate, Demolish) activities.

To prepare for D4 work package development, our personnel review drawings and historical documentation, walk down work sites, and document existing conditions. That information along with Authorizations Basis documents, plant procedures (e.g., safety and health, radiological controls, characterization, environmental, and waste management), and regulatory requirements are used as input to develop the work package. We also provide technical support to field supervision during execution of work control documents and associated field activities to ensure the safety of all personnel.



Flash Column Size Reduction at SPRU

## Separations Process Research Unit (SPRU)

In response to the 2010 contamination incidents at SPRU, the prime contractor requested the support of E2 to provide D&D field management personnel to assist with event recovery, disciplined operations, and complex radiological work planning at SPRU in eastern New York. Experienced E2 D&D professionals are performing essential roles for the improved disciplined approach to D&D work, as well as leading the stand down material and re-training program in support of continued D&D activities.

## West Valley Demonstration Project

E2 Work Control Subject Matter Experts provide Work Planning and Control improvement support of D&D activities for West Valley Environmental Services, LLC. Support includes evaluations, recommendations, and improvement planning. Additionally, implementation of a Rolling Schedule Concept and Work Window Coordination is being led by E2's Senior Consultant and Maintenance Programs Manager.

Work Coordinator positions are staffed with experienced E2 maintenance professionals. E2 personnel have been instrumental in continued assessments, efficiency improvements, driving task readiness, tracking performance, and conducting routine review meetings in support of the West Valley Demonstration Project D&D mission.

## Idaho National Laboratory

E2 has provided engineering and technical support to Idaho National Laboratory tank farm, supporting liquid waste operations and deactivation of the waste tanks. The tasks included design, fabrication, installation, testing and operations of liquid waste mixing, transfer and treatment systems. E2 personnel provide support services for the demolition of the Test Area North (TAN) Hot Shop facility. The facility had seven-foot-thick steel reinforced concrete walls, which required an implosion to dismantle. The Hot Shop was the last major facility to be demolished at TAN.

## Columbus Closure Project

The scope of this project included Cold & Dark planning for and D&D of three major contaminated facilities, numerous ancillary



Demolition at the Columbus Closure Project



facilities, and nearly one mile of contaminated underground piping. The engineering planning for this work included preparation of 55 work instructions in addition to Demolition Plans for each building. Building JN-1 contained several High Energy Hot Cells of differing sizes and levels of contamination, three separate ventilation systems, a 50-ton overhead crane that was part of the structure, fuel pool, transfer canal, all of which required D&D including the associated infrastructure to 14 feet below grade level.

“Logging more than 355,000 hours with an average workforce of 80 employees without a ‘days-away’ illness or injury is an accomplishment both I and all management with the Office of Environmental Management take great pride in recognizing. The success of the Columbus Closure Project clearly demonstrates that ‘safety success’ goes hand-in-hand with ‘project success’.”

- Mr. James Rispoli,  
DOE Assistant Secretary for Environmental  
Management