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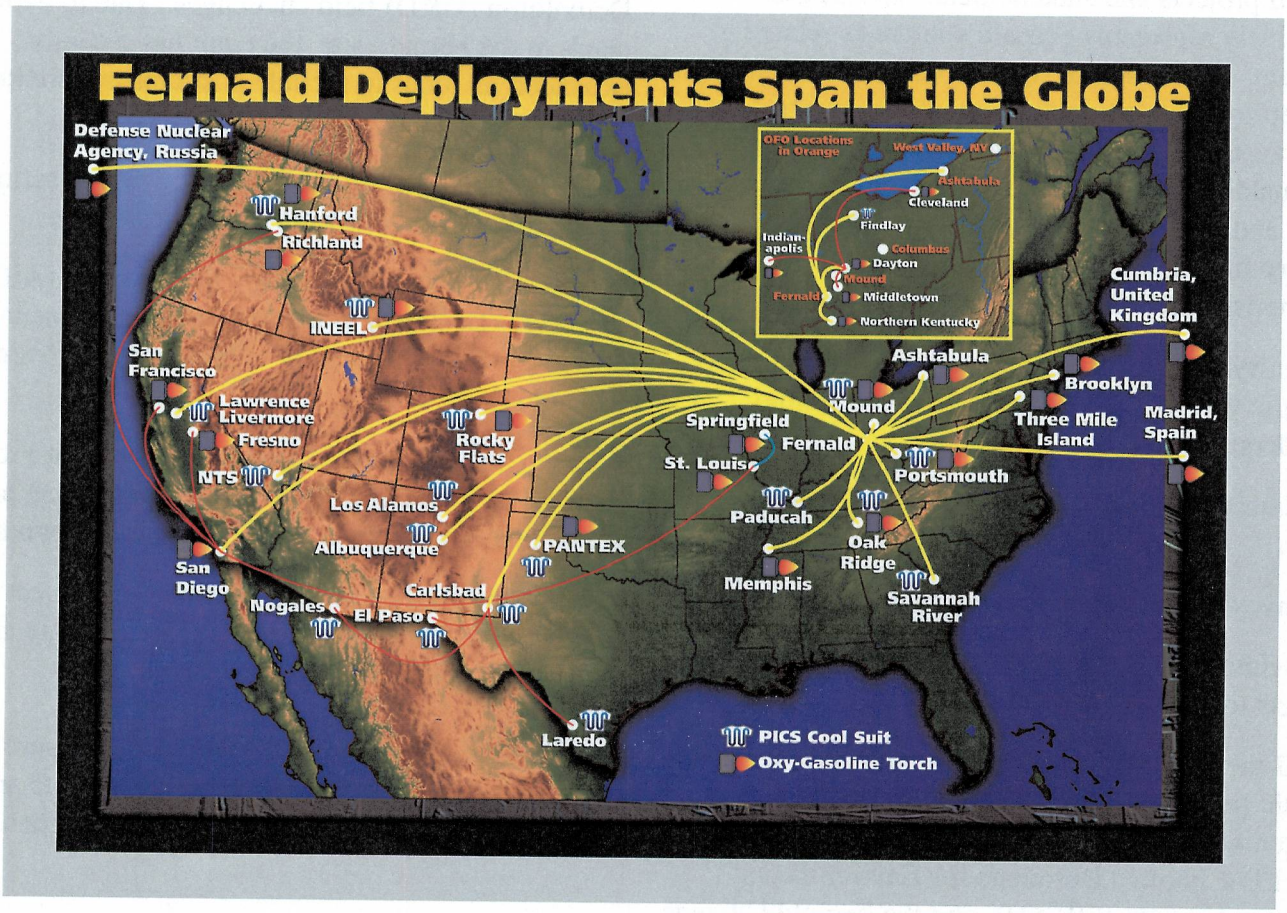
Fernald · FACT SHEET

Environmental Management Project

March 2001

Technology Programs Overview



Description

Fluor Fernald Technology Programs supports the cleanup mission at the U.S. Department of Energy's (DOE) Fernald Environmental Management Project by identifying, demonstrating and deploying innovative technologies. The goal is to demonstrate and/or deploy new, proven technologies for safer, faster and less expensive remediation and monitoring of Fernald and other DOE sites. Technology Programs is partially funded by the DOE site budget with the majority of the technology projects being funded by DOE's Office of Science and Technology (OST, EM-50). Technology Programs has established itself as a leader in the use and deployment of improved, innovative and cost-effective remediation technologies that are applied to real challenges in the field.

Technology Programs is organized into three major groups, each of which contributes a unique service to the department.

Technical University Programs

Many Fernald projects are enhanced by the technical expertise of academic specialists. Technology Programs has developed a special partnership with local universities and with Historically Black Colleges and Universities/Minority Institutions. These institutions provide advice and counsel in their areas of expertise to support the Fernald site in:

- Training and retraining the workforce;
- Conducting basic and applied research;
- Functioning as an extension of Ohio businesses;

- Participating in readiness/technical reviews; and
- Evaluating cleanup technologies.

Site Technology Coordination Group (STCG)

Fernald's STCG acts as a vital link between various DOE offices, other DOE sites, technology providers, Fernald projects and stakeholders. The STCG proactively represents Fernald's interests related to the many DOE research, development, demonstration and deployment efforts throughout the country. In this way, technologies are acquired and implemented at Fernald to expedite project schedules, enhance safety and reduce remediation costs. The STCG's primary function is communication, which is accomplished through the following activities:

- Identifying and communicating technology needs from the various Fernald projects to technology providers;
- Obtaining information necessary to fill technology needs;
- Conveying information to Fernald projects; and
- Providing technology information from Fernald projects to other DOE sites.

STCG members include DOE-Fernald and Fluor Fernald personnel, representatives from the U.S. Environmental Protection Agency (EPA) Region V, Ohio EPA, Fernald Residents for Environmental Safety and Health (FRESH), and the Fernald Citizens Advisory Board.

Technology Application

The primary mission of Technology Application is to assist remediation and post-closure projects at Fernald with the demonstration and deployment of innovative technologies that have either proven benefits, or the potential to make the work safer, less expensive and more efficient. In previous years, many of the team's projects have been related to Decontamination and Demolition (D&D) field challenges. Due to evolving needs at the Fernald site, the team has recently expanded its focus to include post-closure monitoring technologies.

Projects conducted by the Technology Application team fall into the following general categories:

- Accelerated Site Technology Deployment (ASTD) Project — Designed to facilitate the deployment of previously demonstrated or commercially proven technologies
- Large Scale Demonstration & Deployment Project (LSDDP) — Designed to demonstrate existing and developed technologies ready for field deployment
- Post Closure Stewardship Technology Project (PCST) — Developed to identify, demonstrate and deploy technologies and systems capable of monitoring site facilities after remediation is complete; this long-term monitoring will ensure the DOE, stakeholders and regulators that the site and its remedies are secure and performing as designed.

For more information . . .

Visit the Public Environmental Information Center at 10995 Hamilton-Cleves Highway (Delta Building);
Attend a Cleanup Progress Briefing (second Tuesday of every month at 6:30 p.m. on site);
Contact Kathleen Nickel, DOE-Fernald Technology Programs manager at 513-648-3166 or at kathi.nickel@fernald.gov; or
View the Fernald Web site (http://www.fernald.gov).

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