

November 2000



## OCSG AREA FACT SHEET

DOE Ohio Cost Savings Group (OCSG)

"Combining Pollution Prevention and Technology Deployment"

The mission of the DOE OCSG is to formally combine the Technology Deployment and Pollution Prevention (P2) support activities across the five OH Projects. To date, the OCSG activities have contributed to more than **\$7 Million** in cost savings or cost avoidance.

### PROBLEMS COMMON TO THREE OR MORE SITES

- Contaminated soil
- Unknowns in underground lines
- Unknown extent of contaminants under buildings
- Unknown extent of contamination in buried pits/landfills
- Unknown amount and location of contaminants inside packages
- Location and identification of buried objects both external and under buildings

### TECHNOLOGIES OR PRACTICES ALREADY USED IN OH

- Pipe Explorer used at CEMP and MEMP
- Benchmark Gamma Scans at CEMP and MEMP
- Real time *in-situ* characterization at FEMP
- Smart Sampling at MEMP
- Ground Penetrating Radar at FEMP and MEMP
- Electromagnetic Imaging at FEMP and MEMP
- Wart-hog at FEMP and MEMP
- Cone penetrometer at FEMP

### REPORTED POTENTIAL SAVINGS FROM USE OF TECHNOLOGY OR BEST PRACTICES

- CEMP - \$ 5M using pipe explorer
- FEMP - \$34M using real time characterization

### CURRENT OH NEEDS OR OPPORTUNITIES

- AEMP** (1) Unknown contaminants and buried objects external and under buildings  
(2) Unknown contamination in buried lines
- CEMP** (1) Unknown contaminants and buried objects external and under buildings
- FEMP** (1) Unknown contaminants and buried objects external and under buildings  
(2) Unknown contamination in buried lines  
(3) Unknown contaminants in containers  
(4) amount of above WAC soil for on-site disposal
- MEMP** (1) Unknown contaminants and buried objects external and under buildings  
(2) Unknown contamination in buried lines  
(3) Unknown contaminants in containers  
(4) extent of excavation required in PRS-66  
(5) defining extent of the Tritium plume  
(6) extent of contamination in Old-Cave and under SW Bldg.
- WVDP** (1) Unknown contaminants and buried objects external and under buildings  
(2) Unknown contamination in buried lines  
(3) Unknown contaminants in containers

CHARACTERIZATION AND DELINEATION  
OF CONTAMINANTS

## RESOURCES CURRENTLY AVAILABLE WITHIN OH

AEMP - ASTD Project involving soils  
FEMP – ASTD Project for Real Time Characterization  
FEMP – ASTD Project for Characterizing Under Buildings  
MEMP – ASTD Project for Old Cave Characterization  
MEMP – ITRD Project in PRS-66  
Technical experts from all OH sites

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### THE DOE-OH SITES

AEMP - Ashtabula Environmental Management Project  
CEMP - Columbus Environmental Management Project  
FEMP - Fernald Environmental Management Project  
MEMP - Miamisburg Environmental Management Project  
WVDP - West Valley Demonstration Project

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DOE-OH P2 & Technologies Web Site @ [www.osti.gov/p2technology](http://www.osti.gov/p2technology)

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### Vision

- ◆ Set the standard for safe, cost-effective closure of nuclear facilities.
- ◆ Be the model for transitioning Government activities from operations to closure.
- ◆ Achieve end-states that are safe now and enable protective, effective stewardship for the future.
- ◆ Deploy new technologies to help the drive toward closure.
- ◆ Focus on closing sites under our responsibility by 2006.

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*This Fact Sheet is a product of the DOE Ohio Field Office.*