

OCGS TEAM RESPONSIBLE FOR:
Problem Waste Disposition

PROBLEMS COMMON TO THREE OR MORE OH SITES

- Soil/Sludge with Hg, TCE, F/U/K-listed
- Lead Debris
- Tank Residuals/Sludge
- Spent Resins
- HEPA Filters: Ba, Pb, Cd, Cr
- Granular Activated Carbon (GAC): F-listed organics
- Hazardous Debris
- Barium Salt: Ba, Pb, Cd, Cr
- Graphite
- Uranium Residues – Ash/Incinerate Oxide, Metal Chunks, Metal Chips

TECHNOLOGIES OR PRACTICES ALREADY USED IN OH

- DOE-OR Broad Spectrum TSDF
- Offsite TSDF
- At AEMP: Soil washing (Uranium full-scale), Soil washing (bench scale Pu, Th, TCE, PCB, Tc-99), Polymer Macroencapsulation, Polymer microencapsulation, Molten Salt Oxidation (MSO)
- At AEMP and MEMP: Aqueous Solidification/Stabilization, Hydrocarbon Solidification/Stabilization
- At MEMP: SAMMS stabilization
- At MEMP, FEMP: 3M Empore

REPORTED POTENTIAL SAVINGS FROM USE OF TECHNOLOGY OR BEST PRACTICE

- AEMP - \$20M soil washing radionuclides
- AEMP - \$100k aqueous solidification
- AEMP - \$3M PCB Mega-Rule Disposal
- MEMP - \$1M oil solidification
- AEMP - \$3M* soil washing organics
- AEMP - \$7M* mixed waste treatment (MSO, macro, micro, compression forming)
- FEMP - \$1M* resin recycle
- FEMP - \$1M* TCE soil washing (via AEMP ASTD)
(** = Planned in FY01*)

CURRENT OH NEED OR OPPORTUNITY

- AEMP: Organic/Tc-99 Soil washing, MSO upgrade, Micro upgrade, In-situ organic destruction, **Macro upgrade
- FEMP: Treat Heavy PCB Oil sludge, Treat Contaminated Wastewater, Vacuum Transfer Uranium Oxide, Solidify Sealed Source Standards, Jacketed macro, Uranium Metal sizing/Packaging, Organic Soil Volume Reduction, Multiple MW projects, ** Resin regeneration and reuse
- WVDP: Sludge Stabilization
(*** = Opportunity or future need not yet fully-scoped*)

RESOURCES CURRENTLY AVAILABLE WITHIN OH

- AEMP – FY01 soil washing ASTD (TCE, Tc-99)
- ITRD – MEMP PRS66 Soil Decontamination Study
- MEMP – LSDDP for aqueous and oily sludge solidification and stabilization
- WMIN/P2 – soil washing volume reduction***
- EM-50 – pending MEMP LSDDP award for Material Disposition and Treatment***
- MWFA – waste elimination team “milk runs” ***
 - Technical Experts from all Ohio Sites
(**** = FY01 potential*)