

A Nuclear Services and Waste Management Company

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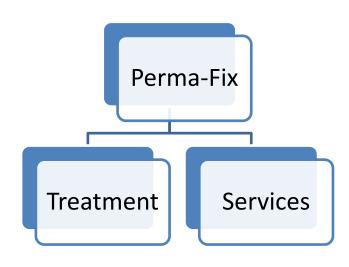






Company Overview

- Publically traded company
- Founded in 1991, completed over \$2 billion in waste, environmental and nuclear projects
- > Industry Leader in Nuclear Radiological Controls
- Own /operate a commercial Radiological/IH Instrumentation and Calibration Laboratory
- Own/operate four commercially licensed and permitted nuclear waste facilities
- Provide engineering and regulatory consultancy
- Provide technical support to US Non-Proliferation and threat reduction programs
- Holder of over 12 patents and 13 advanced technology applications
- Research and Development program and laboratory



Leveraging core assets to become a leader in the nuclear industry









Complimentary Nuclear Capabilities

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Waste Services

- Waste treatment
- Waste management and services
- Project management
- Management of on-site storage, repackaging and disposal facilities
- Nuclear services
- Environmental engineering
- Research and development
- Permitting and licensing



Technical Services

- Environmental safety, health, engineering and consultancy
- Decommissioning/remediation and site closure
- Emergency response
- Instrumentation and measurement technologies
- Support for nuclear energy design, build, refurbishment, outage, maintenance and operations
- Threat reduction/security
- Health physics, radiation control and protection

Comprehensive service offering supports all client needs









Locations



Knoxville, TN Washington Montana North Dakota Minnesota Oregon Idaho South Wisconsi Dakota Wyoming Nevada Nebraska Utah California Colorado Kansas Missouri Arizona Oklahoma Arkansas New Mexico



DSSI - Kingston, TN

Perma-Fix Headquarters

Atlanta, Georgia

Perma-Fix North West - Richland, WA







Perma-Fix Florida - Gainesville, FL



M&EC - Oak Ridge, TN









Perma-Fix Waste Services



M&EC Oak Ridge, TN



PFF Gainesville, FL



DSSI Kingston, TN



PFNW Richland, WA









Overview of Waste Treatment Technologies

Thermal Technologies

- Bulk Processing Unit
- Thermal Oxidation
- Vacuum Thermal Desorption

Non-Thermal Technologies

- Decon for Release
- Size Reduction/Compaction
- Neutralization
- Stabilization
- Reactive Deactivation
- Macroencapsulation

Other

Mercury Amalgamation















Specialty Processing

•Tritium Capture System, a closed loop system that ensures minimal release of Tritium to the environment



Tritium Processing Enclosure

High Dose Remote Processing



High Dose Processing









Low Level Waste Processing

- Volume Reduction
 - DAW Thermal or Compaction
 - Liquids Thermal
 - Soils Soil Segregating
 - Concrete Efficient Packaging
 - Metals Compaction or Survey/Decon for Release or Reuse



- Final Disposition
 - Release/Reuse
 - BSFR
 - Exempt Cell Disposal











Nuclear Services

- Completed over 2,100 nuclear remediation, decontamination, and decommissioning projects world-wide
- Remedial action of over 2.3 million M³ of radiologically impacted soils and debris wastes
- Construction and operation of six landfills in U.S., U.K., and South Pacific
- Industry leader in Rapid Open Land Survey and Final Status Survey (over 20,000 FSSs performed)
- Treated and dispositioned > 26 million gallons of radiological (U, Ra, and Th) contaminated wastewater
- Authored portions of the National and International MARSSIM standards









Decontamination Technologies

- Perma-Peel Cs Strippable coating, cesium specific
 - No water, minimum waste volume
 - Decontamination Factor >90%
 - Not toxic or flammable
 - Works on cement, brick, tile, metal, wood, plastic or painted surfaces
 - Computer code analyzes weathering patterns, orientation, location of structure, etc.

Decontamination of surfaces & equipment

- Chemical
- Hydroblasting
- Surface cutting
- Dismantlement, removal or decontamination













Technical Services

- CHP's, HP's and Rad Engineers to support special projects
- Decommissioning Planning, Licensed Footprint Reduction Support
- Open Land and Structure Characterization
- Waste Segregation, Minimization and Reduction Support
- Instrumentation Calibration, Repair and Rental









Digital Capture of Radiological Survey Data for Open Land and Surface Surveys









