



IMPACT Services, Inc.



Overview • Waste Management 2009

Introduction

- Founded in 2003, IMPACT Services, Inc. operates a licensed radioactive waste processing facility at the East Tennessee Technology Park in Oak Ridge, Tennessee
- IMPACT Services, Inc. is owned by Southpaw Asset Management, a large company with over \$500M in assets



Facility Overview

- State of Tennessee Radioactive Material License
- NQA-1 certified Quality Assurance Program
- Over 22,000 ft² of bonded footprint
- On-site rail spur & Material handling capability of up to 48,000 lbs.
- On-site radiological laboratory
- Mobile & fixed gamma spectroscopy
- Over 3.5 million ft³ of material processed



Volumetric Clearance

- IMPACT's low cost proprietary method for the Volumetric Clearance for Alternative Disposal (also known as Bulk Survey for Release) enables waste generators to dispose of low specific activity material as solid waste
- Over 2 million ft³ of low-level waste has been processed by IMPACT via VCD to date



Pyrolysis

- Pyrolysis is a non-incineration thermal treatment process defined as, *“The endothermic gasification of wastes using external energy in the presence of insignificant amounts of oxygen, producing small volumes of off-gases.”*
- IMPACT’s Pyrolytic Process consists of four combustion chambers capable of processing a total of 4,000 lbs. of low-level radioactive DAW in a 24-hour day
- Pyrolysis will be available to customers March of 2009



Decontamination Services

- IMPACT Services has teamed with Babcock Services to provide a range of off-site decontamination technologies and services for a variety of metals, including hand tools, motors, and lead
- Upon completion of decontamination, IMPACT provides a certificate of unconditional release for beneficial reuse and/or reduced disposal costs for formerly contaminated materials



OREX® Processing

- One of two radioactive waste processors in the nation to use the patented OREX® process on polyvinyl alcohol-based disposable garments
- Process enables the residues from contaminated garments to be dissolved and filtered, virtually eliminating disposal volume





Fluid Tech Environmental Products

- Fluid Tech an environmental products and services company in Las Vegas, Nevada, with 20+ years of operation, was acquired by IMPACT in 2008
- Fluid Tech provides a wide variety of stabilization/solidification agents and absorbents for radioactive and hazardous wastes including Aquaset and Petroset
- On-site or off-site treatability studies and stabilization/solidification services

2009 Outlook

GeoMelt

– IMPACT has acquired AMEC's GeoMelt Division



An Image of the GeoMelt® Demonstration Bulk Vitrification Pilot Plant Designed for LAW Treatment at Hanford

- GeoMelt is a patented and proven in-situ or in-container vitrification technology
- Will enable IMPACT to treat TSCA and RCRA-regulated low-level radioactive wastes
- GeoMelt offices and R&D Facility is located in Richland, Washington

2009 Outlook Cont'd

Secure Support Facility (SSF)

- IMPACT has opened a 67,000 ft² facility in Oak Ridge, Tennessee



- The SSF is the only commercially available facility built to Q Clearance and Top Secret specifications
- The SSF will provide processes and services for the management of classified radioactive material

Utility Initiatives

- Single location processing for **UNSORTED** OREX, DAW, and BSFR candidate radioactive material
- Use of Pyrolysis process for DAW and OREX residuals results in **zero disposal volume** attributable to origin
- Outage services including tool and motor decontamination and return to plant service
- Metal, Other Equipment, and Lead Decontamination
- Large Fleet Rebates



Customer List

Federal Clients

| | |
|-----------------------------------|-------|
| BWXT Y-12 | NASA |
| Bechtel Jacobs Company | NIST |
| Battelle Columbus Closure Project | USDOE |
| Washington Group | |

Commercial Clients

| | |
|--------------------------|------------------|
| Pacific Gas and Electric | Philotechnics |
| PermaFix | General Electric |
| Westinghouse | Energy Solutions |