## ENERGYSOLUTIONS



Commercial Processing

Division

February 2007
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# Commercial Processing ENERGYSOLUTIONS Division Facilities







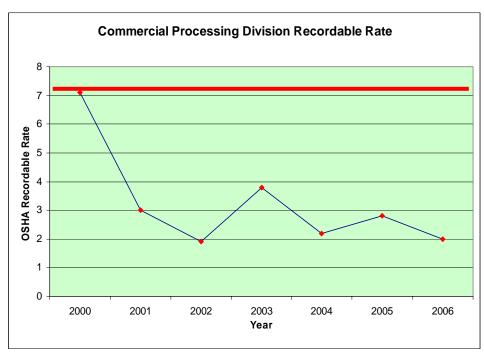




### Safety and ALARA

### **ENERGY SOLUTIONS**

## Safety and Compliance is our first goal at Energy Solutions



 2005 US Department of Labor Recordable Rate for "Waste Treatment and Disposal" NAICS Code 562211

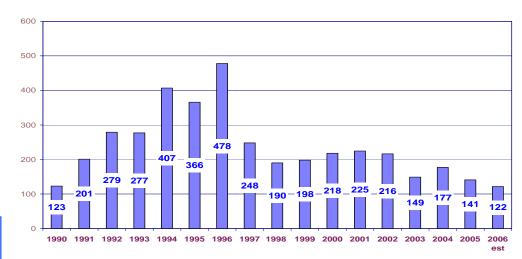
## At Energy Solutions, we believe that...

What gets measured, gets done!





BEAR CREEK OPERATIONS
Annual Comparison of Total MAN-REM



## Bear Creek Facility

**DAW Commercial Certification** 

**Mold Shop & Projects** 

**Container Management** 

**Metal Melt** 

Metals Commercial Certification **Lead Decon** 

**Incinerator** 

Sorting

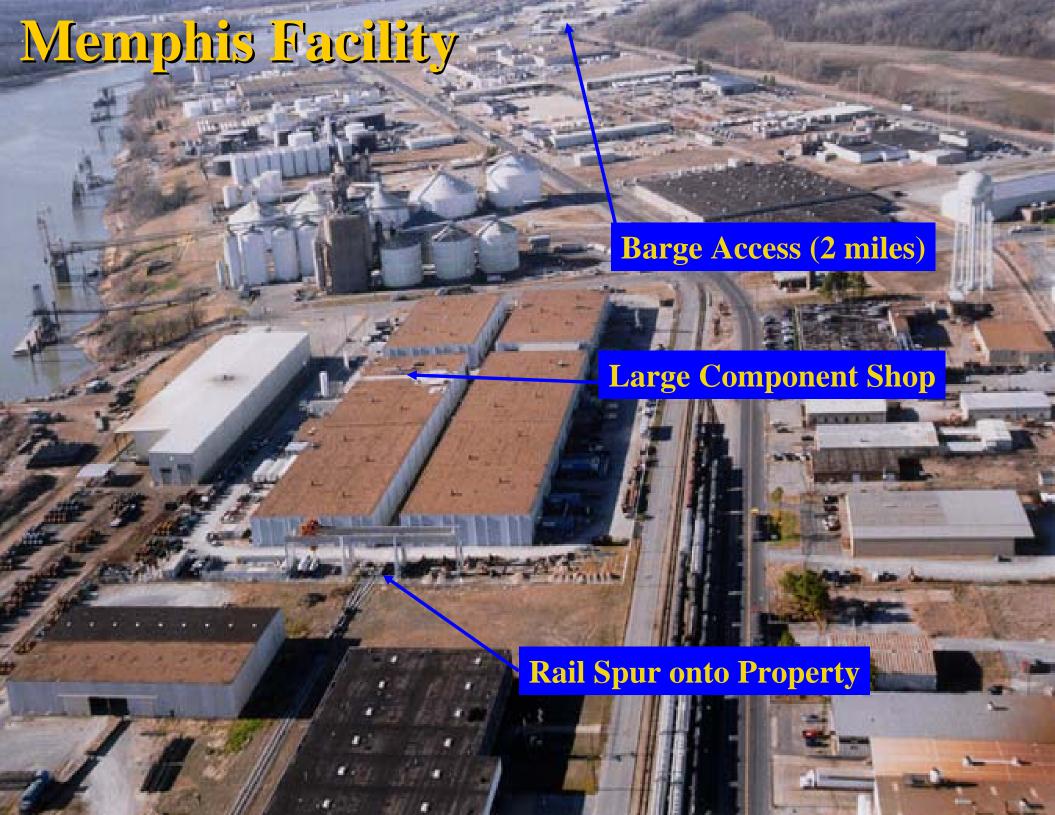
**Warehouse** 

Compactor

**SWOG/Drum Drying** 

**High Rad Storage** 







# Transfer Station Operations

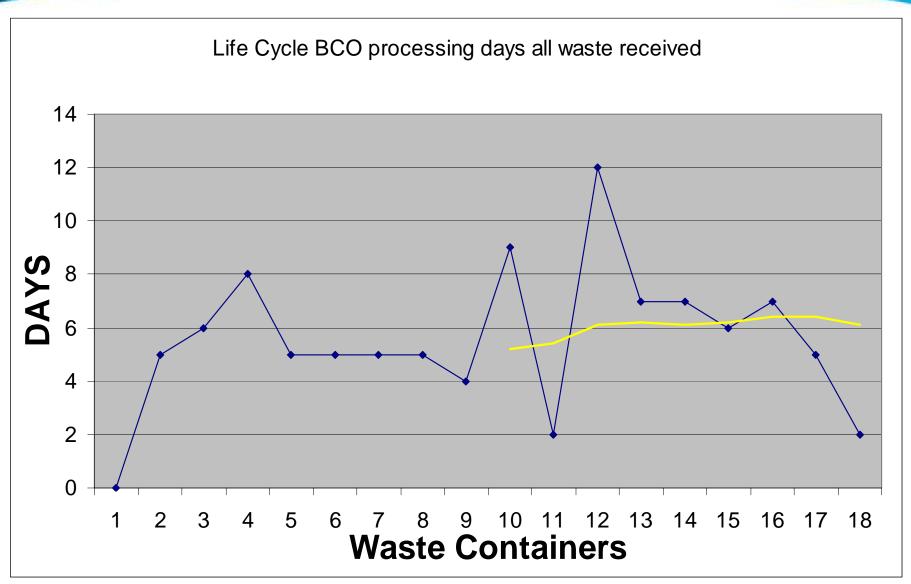
### **ENERGY SOLUTIONS**

- Commodity DAW and Metals "Commercially Certified" for Clive disposal replacing Incineration and Compaction
- Customer Benefit:
  - Speed of processing/disposition (less than 45 day average to disposal)
- Transfer Station Commissioned September 2006
  - 40' long 12' high Container Pit Installed in Metals Building
  - Shipments to Clive Commenced October 2006





# Bear Creek Transfer Station Processing Summary ENERGY SOLUTIONS







#### CHANGES TO INCINERATION LICENSING:

- Ash attribution model decouples generator ID after incineration
- Ash Attribution for C-14/H-3 tracked to stack emissions
  - ■No effect on waste class
  - Preferred method to destroy broker wastes

Authorization to "burn/recycle" gases and radioactive sources

and standards





## Shield Block Program **ENERGYSOLUTIONS**

- Shield Block Contract Signed with KEK, Japan. Delivery from 2007-2010
- Authorization to Recycle metallic radioactive source less than 50 uCi
- New products:
  - Irradiated hardware storage canister

Security barriers





## Lead Casting/Recycling ENERGYSOLUTIONS

- Recycled over 1 Million Pounds of Lead
  - •Products Ranging from Duratek Designed DOT Type A Packages
  - •Specialty Shields for Accelerators
  - •Classified shapes destruction path





### Resin/Filter Services ENERGYSOLUTIONS

- •Final Resin Dewatering and Solidification
- High Rad CW Water/sludge Drying
- •Filter Re-characterization (B/C filters)
- •Water Processing Tubesheet Rebuilds/Dewatering Container Fab
- •Mobile Centrifuge and Analytical Laboratories





# DOE Repackaging and Special Processing

#### **ENERGY SOLUTIONS**

- Repackaging/Certification of DOE Wastes
  - Re-characterization
  - Size-reduction
- NTS Certification Program
  - Off-site Processing or Program Management
- Shipped Post Processing Certified Waste to Most DOE 435.1 Landfills





## Memphis Operations **ENERGYSOLUTIONS**

- Barge, Rail, Road Access
- "Safeshop" Customer Hotshop Rental
- Rad Equipment Storage
- Outage Equipment Service Center
- EnergySolutions Project Service Center
  - Equipment Decontamination
  - Container Decontamination
  - Tank Segmentation
  - Large Component Staging

