

# THE SOURCE

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## INSIDE

HIGH-ACTIVITY FILTER  
PROCESSING — REMOTE  
HANDLING AND  
PROCESSING OF FILTERS

MEET BEAR CREEK'S  
GENERAL MANAGER —  
RANDY RICHARDSON

## GET TO KNOW BEAR CREEK OPERATIONS

The EnergySolutions Bear Creek Processing Facility is located near Oak Ridge, Tennessee. The facility's primary function is the safe processing and packaging of radioactive material for permanent disposal. The facility houses radioactive materials processing capabilities—including recycle, compaction, incineration, metal melting, water evaporation, High Activity Filter Processing (HAFP), and a variety of specialty waste stream management options. The facility operates under regulatory authority of the state of Tennessee Department of Environment

and Conservation (TDEC) Division of Radiological Health (DRH) in agreement with the U.S. Nuclear Regulatory Commission (NRC), and is ANI insured.

**Sorting and Segregation** – This process allows our employees to determine the next steps in volume reduction by segregating certain metals for recycling and the rest to be compacted, incinerated or repackaged for transportation and disposal.

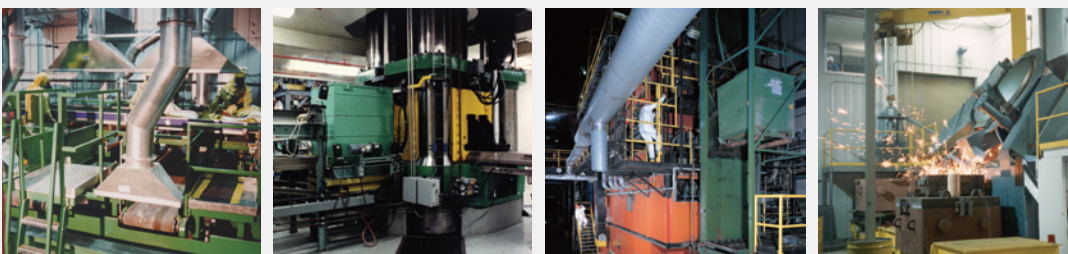
**Compaction** – Material is compacted reducing volume up to 20 to 1, reducing disposal costs.

**Incineration** – Incineration of Dry Active Waste (DAW) with up to a 200 to 1 volume reduction. Our processes also keep air emissions well below state of Tennessee standards.

**Metal Melt (recycling)** – Metals are brought in sorted, segregated and sized for melting. The molten metal is then poured into molds forming shield blocks which are then utilized in the nuclear industry for shielding.

## LLRW Processing Options at Bear Creek

- ① High Activity Filter Processing
- ② Commercial Certification
- ③ Metal Melt
- ④ Cut, Size, Baler
- ⑤ Best Way / Shield Block prep
- ⑥ Compactor
- ⑦ Lead Decon
- ⑧ Incinerator
- ⑨ Warehouse
- ⑩ Sorting
- ⑪ SWOG Drum Drying
- ⑫ High-rad Storage





## DID YOU KNOW WE DO THIS? HIGH ACTIVITY FILTER PROCESSING

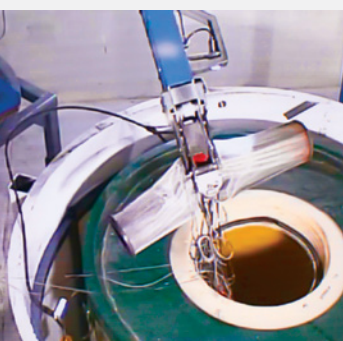
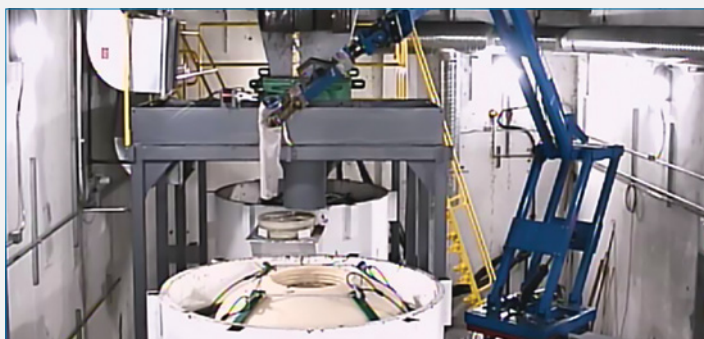
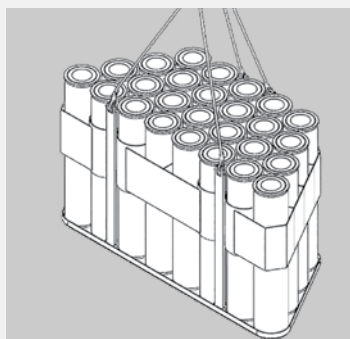
High Activity Filter Processing is performed at the Bear Creek Facility. Manipulator arms allow the facility to remotely handle and process various types of filters—plastic or metal. The facility is able to perform sophisticated remote sorting, segregation, size reduction, and grout encapsulation. These capabilities extend to waste forms such as soil, sludge, and legacy “problem” liners, as well as to filters.

In addition to filter processing, our capabilities include resin dewatering, waste solidification, and evaporation processes. We also complete a variety of special projects for other government and commercial facilities and EnergySolutions projects.

As with all EnergySolutions facilities, safety is a culture embraced by every facility employee and the

safety and compliance record is one of the best in the business.

If you would like additional information on our Bear Creek Operations or have a radwaste disposal challenge you would like to have us analyze, please reach out to your Account Executive directly.



### RANDY RICHARDSON BEAR CREEK'S GENERAL MANAGER

Mr. Randy Richardson came to the Bear Creek facility in May 2021 from Erwin ResinSolutions.

Randy has been with EnergySolutions for more than 18 years and is an integral part of our leadership team.

Before he came to EnergySolutions, he worked for Specialty Minerals and Rubbermaid. He also served in the United States Air Force.

Randy provides considerable knowledge, leadership, work ethic, mechanical, maintenance, and operational skills to lead one of our most important operations facilities.

## UPCOMING ISSUES

- Erwin ResinSolutions • Clive Disposal Operations • Barnwell Processing and Disposal
- Liquid Waste Processing • Liners and HICs • Shipping Casks
- Professional Shippers and Brokers • Hittman Transport Services • PHTS Logistics
- Memphis Facility Decontamination Services and Equipment Storage