



February 26 – March 1, 2012 ♦ Phoenix, Arizona

**Panel Discussion:
Nuclear Power Plant Waste Management – LLW Processor Issues
TOXCO Materials Management Center, Oak Ridge, TN**

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(Representing for TOXCO, Inc.)**

TOXCO, Inc.

- **Toxco Materials Management Center**
- **Oak Ridge, TN**

- **Facility Vitals:**
 - Operating since July 2004
 - Tennessee Rad-Materials License #R-01037-E16
 - 16 acre secure facility
 - 115,000 ft² of building space
 - 67,000 ft² of “bonded space” for LLRW related ops
 - Equipped to initiate Increased Controls (IC)
 - Motion sensors, video camera, on-site security
 - CSX private railroad side spur (currently inactive)

LLW Off-Site Processor
Panel Discussion



Rad Materials License

- Quick Facts

- License Expires on May 31, 2016
- Basic Limits
 - Mixed Activation & Fission Products: 200 Curies
 - Source Material: 10 Curies
 - Carbon 14: 50 Curies
 - Tritium: 100 Curies



Facility Operations

- Quick Facts



- Material Disposition
 - BSFR, Unrestricted Release, Provenance Recycle
 - S4 (survey – sort – size – segregate)
- Supercompaction
- Equipment decontamination and refurbishment of equipment for reuse
- Storage and rental of contaminated equipment
- Manufacture of lead lined shielded containers
- DOE Basic Ordering Agreement (BOA)
 - Pre-qualified to perform work for federal agencies
- Lead decon, recycling/reuse

What's New Update

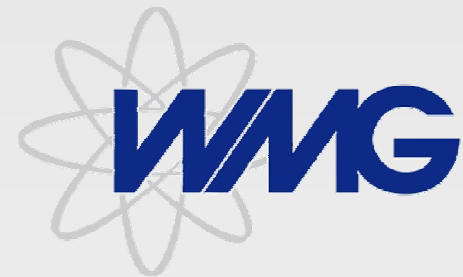
- Quick Facts

- State Inspection
- PPL Audit Team
 - No open regulatory issues
- Installed a second Supercompactor
- Using a second ISCOS for BSFR redundancy
- Metal for PGE-Diablo Canyon
- Teaming w/ Silflex and Visionary (ABSORBTEK)
 - Lead recycling (lead decon and recycle)
 - Blankets, bricks, sheets



What's New Update

- Filter Processing
- Teaming Agreement with WMG
- High activity filter material
 - Filters pre-qualified
 - Shredded
 - Solidified
 - NRC BTP on Concentration Averaging
 - 10 CFR Part 61, Class A Waste
 - Packaged and Shipped
 - Disposed of as Class A Waste
- 1600 filters processed to date.



Operations

- The Shredder

- Shredder Description
 - High Capacity industrial shredder
 - Hydraulic, 75 HP
 - Quad shaft
 - Bottom screen sized to ensure consistent material size is produced



Bottom Screen



Operations

- The Solidification System

- Solidification System Description
 - Volumetric Proportioning and Continuous Mixing System.
 - It accurately meters and feeds cement, aggregate, additives and shredded filter material to the systems in-line mixer.

