EBV Explosives Environmental Company

Joplin, MO

Commercial Disposal of Explosive Wastes



Celebrating 10 Years of Explosives Waste Disposal Service

- EBV EEC's Joplin, MO, TSDF celebrates 10 years of operations (formerly ICIEEC)
- Only commercial HW incinerator in US specifically designed to incinerate explosive materials and devices
- Over 25 million lbs of explosive materials and devices incinerated over past 10 years

EBV EEC Facilities

- Demil Facilities
 - M483 ICM Projectile Download & Demil Process
 - Demil and Disassembly
 - Repackaging
- Incineration Equipment
 - Rotary Kiln Incinerator
 - Car Bottom Furnace
- 4 Storage Magazines





EBV EEC Demil Capabilities

- M483 ICM Projectile Disassembly
- Repackaging/Safing of Mortar Ctgs
- Delinking of Small Caliber Ammo
- Munitions Disassembly Equipment Development
- Munitions Sawing



M483 ICM Projectile Demil





60mm Illuminating Ctg Demil





Safing of Tail Fin Assembly Prior to Incineration

Small Caliber Ammo Delinking





Disassembly Equipment Development





Munitions Cutting





Incineration Operations

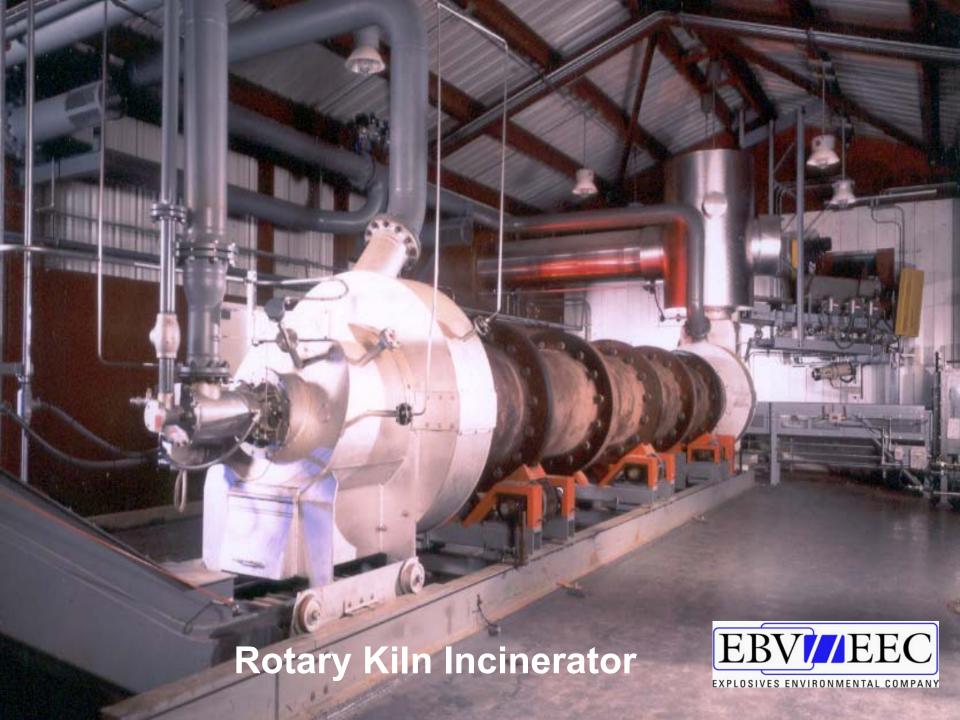
- Rotary Kiln Incinerator
- Car Bottom Furnace
- Air Pollution Control System
- Recyclable Metal Recovery
- Types of Explosive Material Incinerated



Rotary Kiln Incinerator

- 3 1/4" thick cast steel and 3' diameter
- 6 section, no refractory
- Internal flight or helix to convey and separate waste
- Gas fired, countercurrent design
- **350 to 750 F**
- Inside protective room





Car Bottom Furnace

- For incineration of explosives contaminated trash including PPE, packaging, rags, mops, etc.
- For flashing of explosives contaminated metal parts, drums, equipment, etc.
- Inside capacity 4'h x 5'w x 9'l





NO ADM DUF OPER



Features Of EBV EEC APCS

State-of-the-industry air pollution control system (APCS) meets all MACT standards including those for dioxins and chlorine

- Secondary Combustor provides >4 second residence time at 1900F to destroy organics
- Spray Dryer
 - Rapidly quenches exhaust gases
 - Neutralizes and removes acid gases, e.g., HCl through injection of soda ash in quench water – 99.6% chlorine removal
- Baghouses remove particulates



EBV EEC APCS





Ash, Recycled Metals & Packaging Inspection

- All residual ash is disposed of in a Hazardous Waste Landfill
- All recyclable metals are 100% inspected
- DCMA spot checks all recyclable metal from government contracts prior to release to scrap metal dealer
- All packaging materials are 100% inspected and stamped by the inspector
- DCMA spot check all packaging from government contracts prior to recycling or disposal





Types of Explosives Treated

- Military
 - Fuzes
 - Small Cal Ammo
 - Pyrotechnics
 - Bulk Explosives
 - Bulk Propellants
 - CAD/PAD Devices
 - Grenades & ICM
 - Smokes & Dyes
 - Riot Control Agents

- Commercial
 - Blasting Caps
 - Det Cord
 - Bulk Explosives
 - Bulk Propellants
 - Air Bag Materials
 - Oil Well Devices
 - Small Cal Ammo
 - Gas Generators



Fuzes

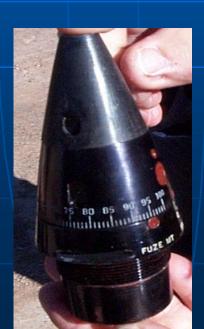


Artillery and Bomb Fuzes



Over 3 million fuzes processed









Small Caliber Ammunition



20mm thru 30mm Cartridges, Projectiles, and Primed Cases







Over 10 million rounds processed



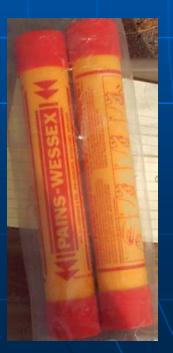


Pyrotechnics & Smokes

60mm Illuminating Cartridges

Over 360,000 processed





Signal Smokes
Signal Flares





S&As, Primers, Detonators







Millions Processed



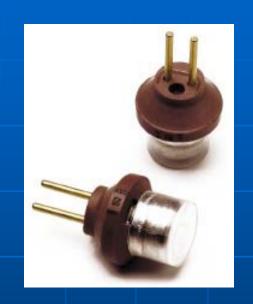
CAD/PADs



Millions Processed













Grenades



M42 Grenades – Over 6 million processed



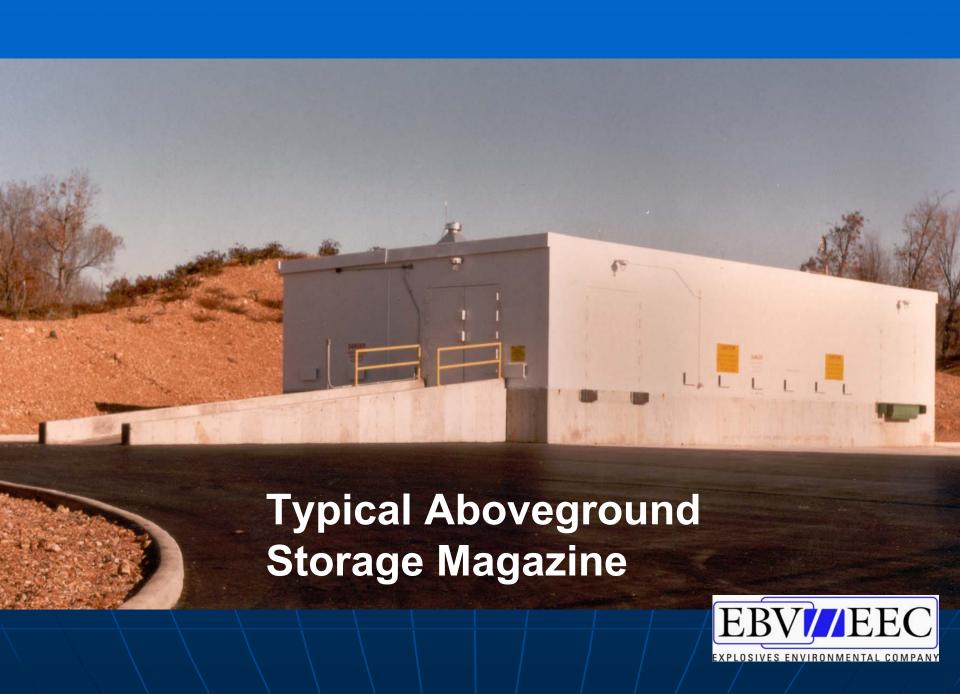
40 mm Practice Grenade



Magazine Storage

- Four magazines
- 100,000 pound NEW capacity per magazine
- Comply with DoD and ATF Security Requirements
- Intrusion Alarms and CCTV
- Key Control
- Computerized Waste Tracking







Waste Approval and Tracking

- Wastes profiled before accepted
 - Technical Data Package assembled
- Safe Handling Procedures developed
- Hazard Reviews of all new waste streams
- Waste tracked by profile number, manifest number, and/ or ALN number
- Computerized Waste Tracking System
 - DCS control
 - Burn reports
- Tracking of scrap



Fingerprinting

- Inspection of truck and manifest
- Waste sample selection
- Inspection of waste
- Compare waste to information in Technical Data Package
- Label and enter waste into Waste Tracking System



Direct Feed or Preprocessing

- Waste is transported to Feed Room or Storage Feed Handling Building
- SFHB is used for repackaging or demil
 - Can go back to Magazine or to Feed Room
- All waste is scanned into Waste
 Tracking System for each movement



EBVEEC Permits

- RCRA Part B Permit (expires 2012)
- Title V Air Permit (expires 2006)
- NPDES Permit (expires 2010)
 - Storm Water / Sanitary no process discharge
- ATF License (expires 2006)
- DOT Hazardous Material License (expires 2006)
- FAA Stack Permit



What Can EBV EEC Do For You?

In addition to demil and disposal of your explosive wastes, EBV EEC can assist with:

- Ensuring packaging and transportation comply with DOT requirements
- Arranging Transportation
- Printing Manifest, LDR Form, HW Labels
- Analysis & Characterization of HW
- Completing and printing WCPs



Who Do I Contact To Find Out More?

For a free cost estimate for demil / disposal of your explosive wastes, contact: **Eastern Sales Office** Dave Zoghby - 610-298-3085 **Western Sales Office** Mark Zaugg – 801-295-2003 **Joplin Facility** 417-624-0212 Ext 409

Website: www.ebveec.com

EBV//EEC

Summary

EBV EEC's Joplin, MO, TSDF

- 10 year history in disposal of explosive waste ->25M lbs destroyed
- Only commercial HW incinerator in US specifically designed for explosive materials and devices
- Largest commercial disposer of explosive waste in the US
- Compliant with all state and federal SHE and Security Regulations
- Available for disposal of your explosive wastes



"EBV EEC" Also Means: Environmentally Best Value for disposal of Explosives and Energetic Components

