

# Blue Grass Chemical Agent Destruction Pilot Plant

A Partnership for  
Safe Chemical  
Weapons  
Destruction

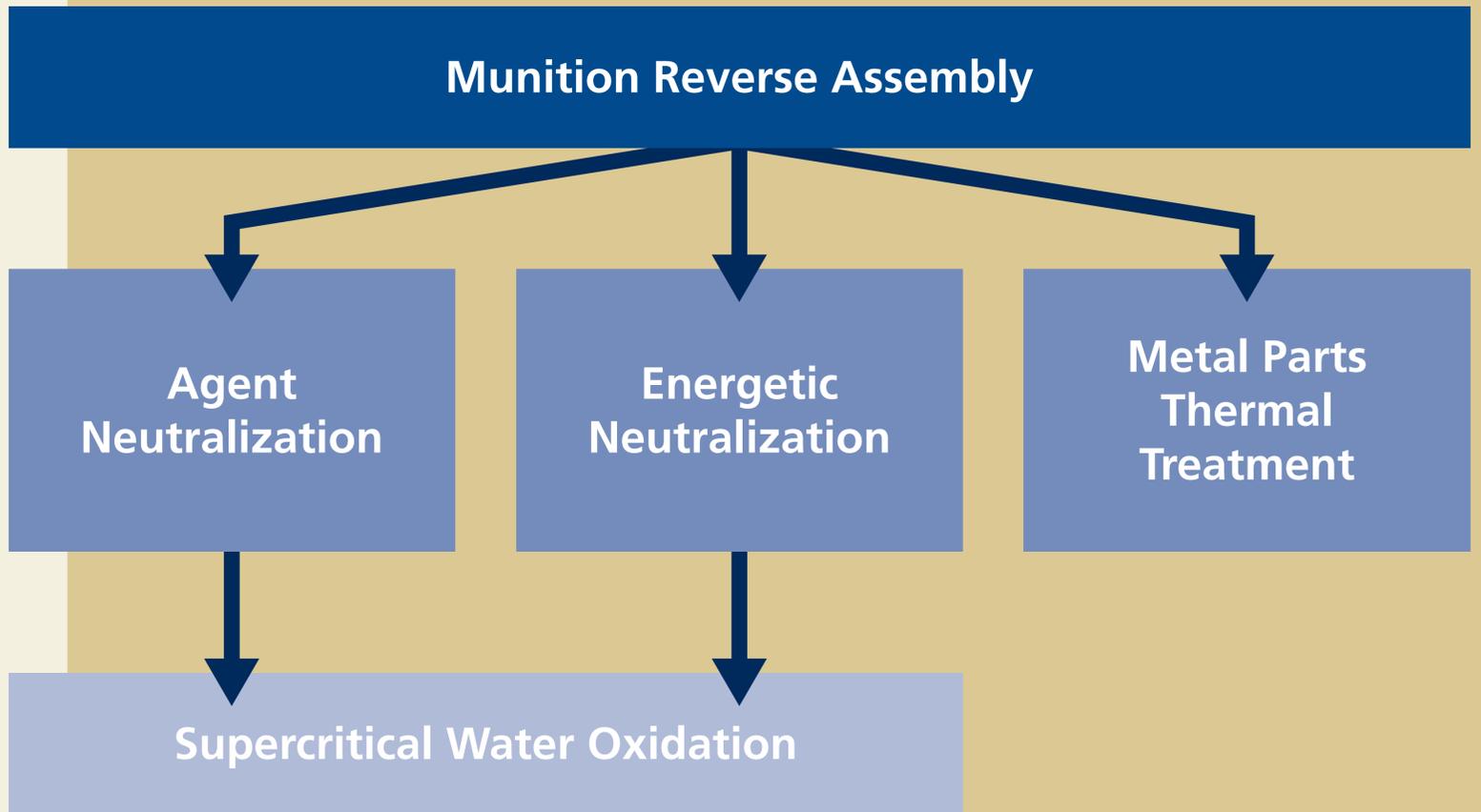
ACWA Information Line  
(888) 482-4312

With a systems contractor team on board, the specific design of the pilot plant will be finalized and approved prior to construction.

**Accessing  
Processes**

**Primary  
Destruction  
Processes**

**Secondary  
Destruction  
Processes**



## Neutralization followed by supercritical water oxidation:

- Munitions are disassembled by modified reverse assembly. Agent and energetics are separated.
- Agent and energetics are chemically decomposed and neutralized by caustic or water hydrolysis. The resulting chemical compounds are known as hydrolysates.
- The agent and energetics hydrolysate are destroyed using supercritical water oxidation (SCWO) units. SCWO subjects the hydrolysates to very high temperatures and pressures, breaking them down into carbon dioxide, water and salts.
- Metal parts are thermally decontaminated to a 5X level by heating to 1000°F for a minimum of 15 minutes.
- Solid effluents are recycled or tested prior to disposal in permitted landfills.
- Gas effluents are recycled or filtered before release to the atmosphere.

