

# Monthly Status Briefing

*July 2016*



Blue Grass Chemical Agent-Destruction Pilot Plant



Program Executive Office  
Assembled Chemical Weapons Alternatives



**BGCAPP**  
Blue Grass Chemical  
Agent-Destruction Pilot Plant

[www.peoacwa.army.mil](http://www.peoacwa.army.mil)



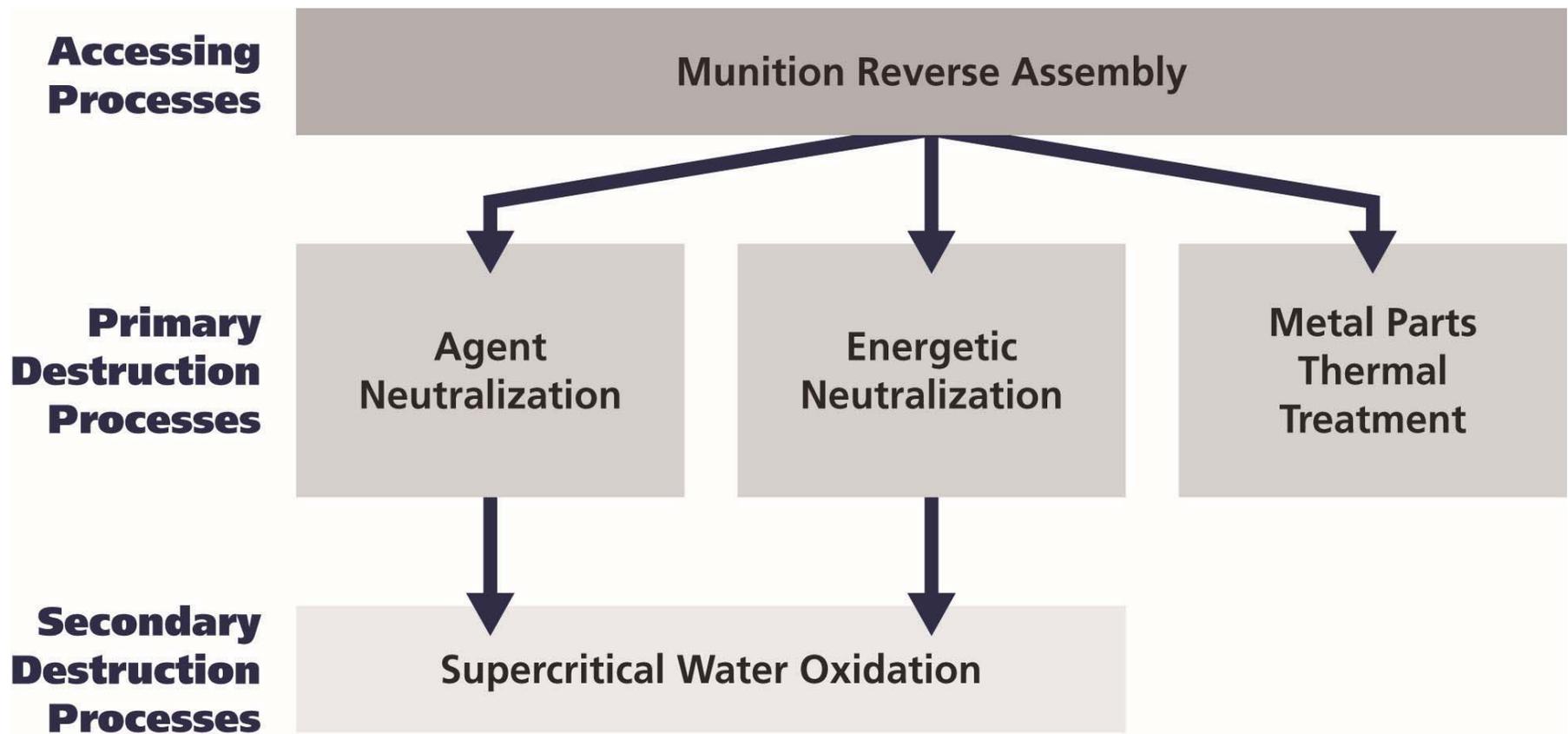
**A PARTNERSHIP FOR SAFE CHEMICAL WEAPONS DESTRUCTION**

# Project Background

- The Blue Grass Chemical Agent-Destruction Pilot Plant (BGCAPP) will safely destroy 523 tons of chemical agent in rockets and artillery projectiles stored at the Blue Grass Army Depot in Richmond, Kentucky.
- The main plant technology selected by the Department of Defense to destroy the Blue Grass VX and GB (Sarin) nerve agent weapons stockpile is neutralization followed by supercritical water oxidation.
- The technology selected by the Department of Defense to destroy the Blue Grass mustard (H) agent weapons stockpile is Explosive Destruction Technology (EDT), specifically the Static Detonation Chamber, or SDC.
- The Program Executive Office, Assembled Chemical Weapons Alternatives, headquartered at Aberdeen Proving Ground, Maryland, is responsible for managing all aspects of the safe and environmentally sound destruction of the chemical weapons stockpiles in both Kentucky and Colorado.
- The Bechtel Parsons Blue Grass Team, a joint venture of Bechtel National Inc. and Parsons Government Services Inc., along with teaming partners AECOM, Battelle, General Atomics and GP Strategies Corporation, is the systems contractor selected to design, build, systemize, pilot test, operate and close BGCAPP.

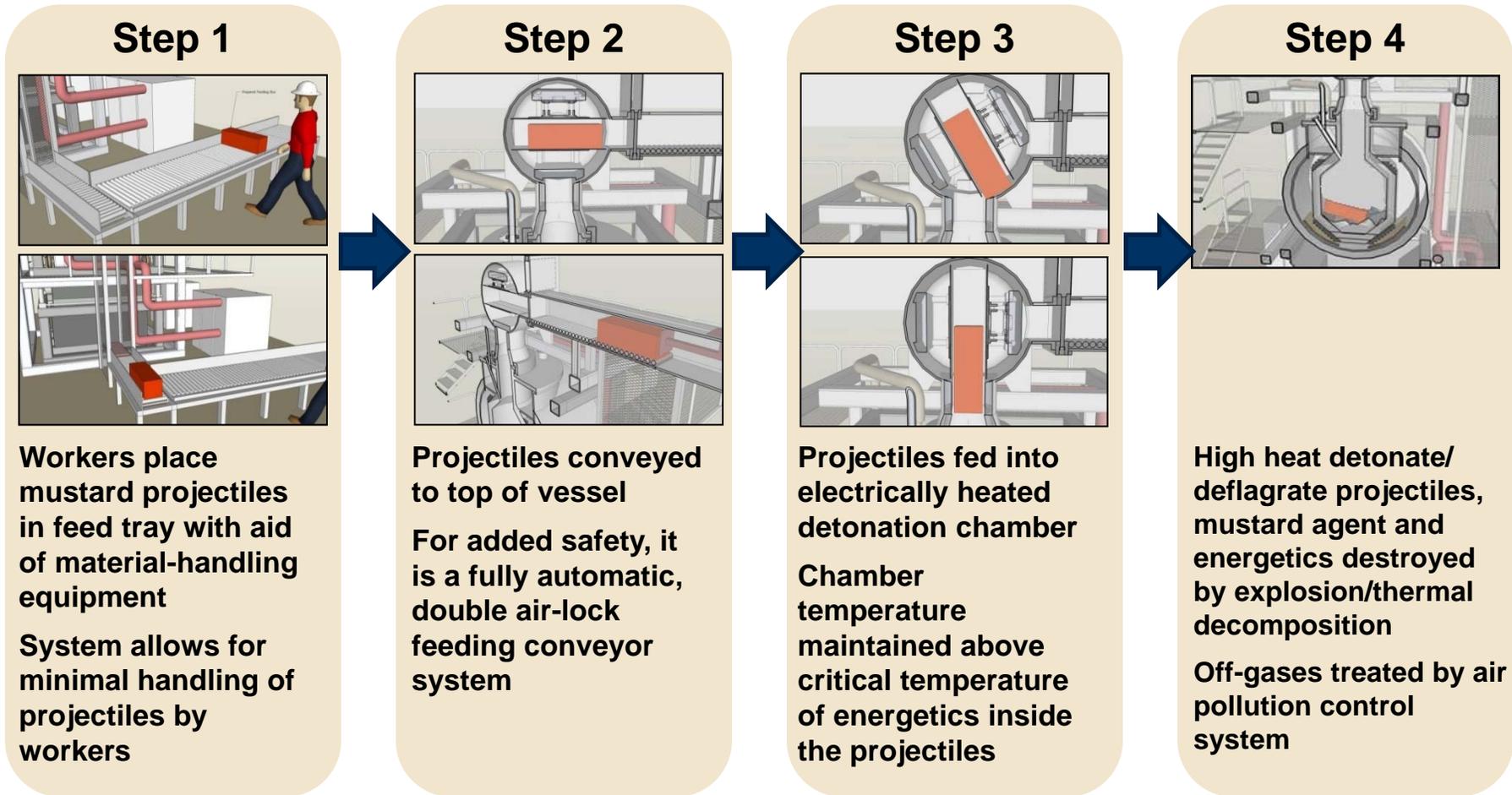
# Main Plant Destruction Technology

**Neutralization followed by supercritical water oxidation will be used to destroy the nerve agent weapons stockpile.**

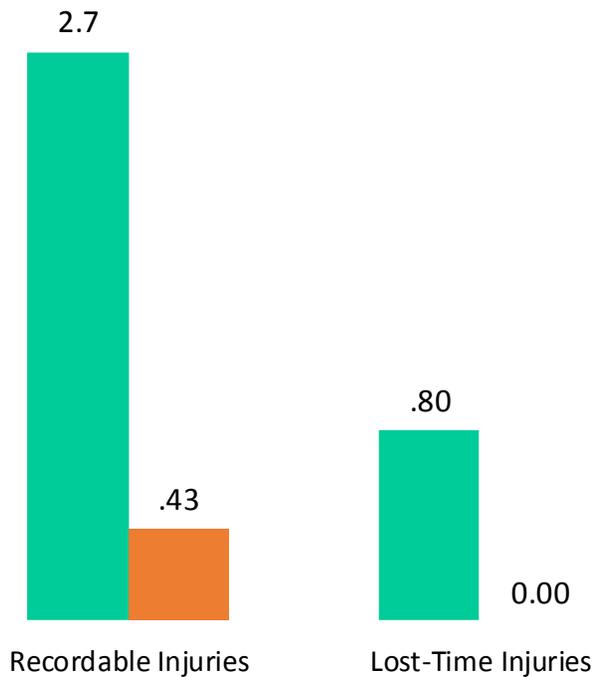


# Explosive Destruction Technology

**SDC will be used to destroy the mustard agent weapons stockpile.**



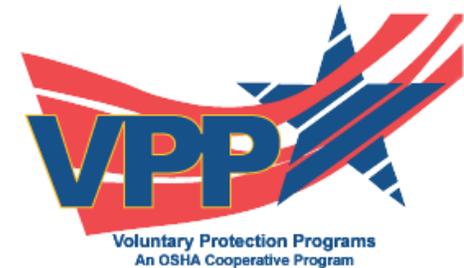
# Safety



- Safety remains a core value of the project workforce
- Re-certified Occupational Safety and Health Administration Voluntary Protection Program Star Status site
- Lost-time injury rate is **100 percent lower** and recordable injury rate is **84 percent lower** than industry average
- As of June 30, 2016, the project has completed 6,557,082 and 792 days without a lost-time accident

■ Construction Industry  
■ Bechtel Parsons

(12-month rolling rate)  
Accidents per 200,000 job hours



# Current Project Staffing

- **Total project employment— 950**
- **Richmond, Kentucky— 941**
  - Local hires— **25.4 percent**
- **Other locations— 9**
  - Pasadena, California
  - San Francisco, California



**A startup team member levels conduit inside the Off Gas Treatment room, located in the Munitions Demilitarization Building.**

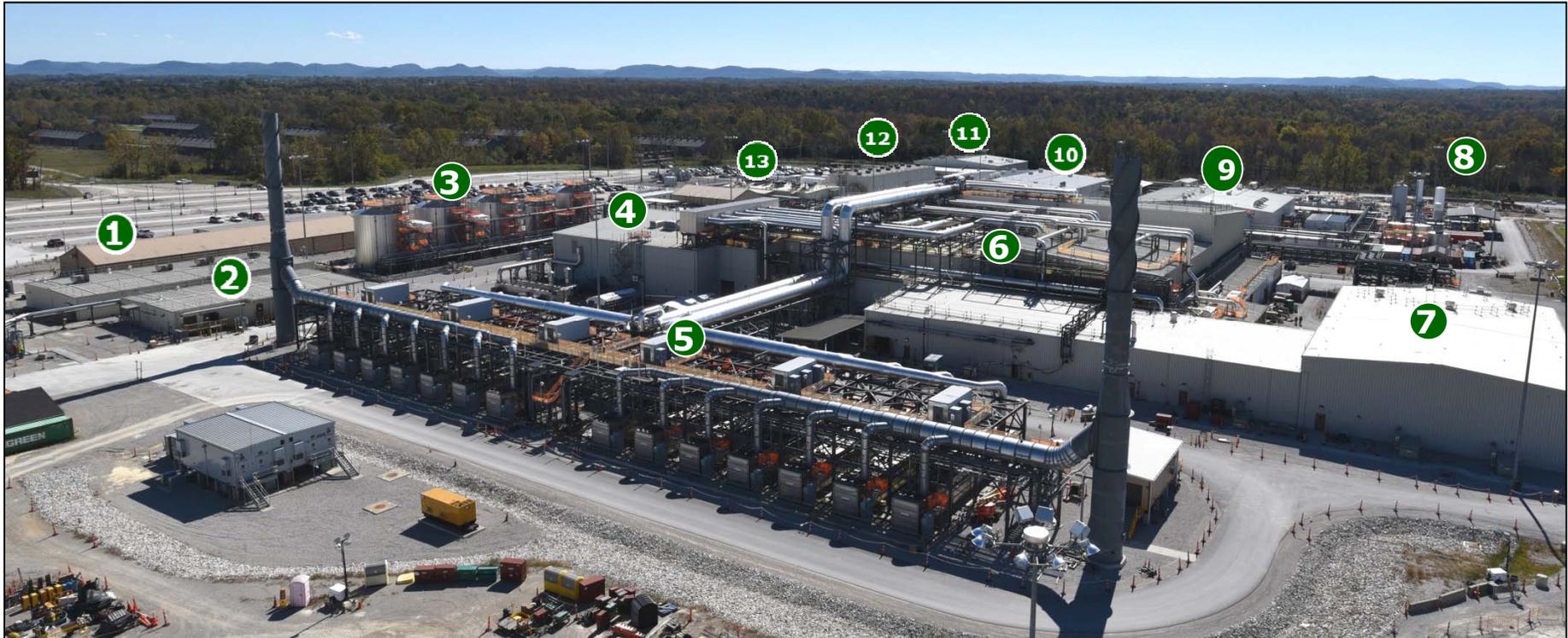
# Economic Impact

- **Acquisitions to date**
  - \$160.7 million spent with Kentucky companies
  - \$94.5 million spent in Madison and surrounding counties
- **Payroll to date**  
(includes nonmanual and craft)
  - \$828 million of local payroll paid



**Members of the startup team make adjustments on equipment in the Explosive Containment room in the Munitions Demilitarization Building.**

# BGCAPP Progress



- 1 Personnel Maintenance Building**
- 2 Medical Facility**
- 3 Hydrolysate Storage Area**
- 4 Control and Support Building**
- 5 Munitions Demilitarization Building (MDB) Filter Banks**
- 6 MDB**
- 7 Container Handling Building**
- 8 Explosive Detonation Technology Facility Site**
- 9 Utility Building**
- 10 Supercritical Water Oxidation Building**
- 11 Maintenance Building**
- 12 Personnel Support Building**
- 13 Laboratory Building**



# Main Plant Progress



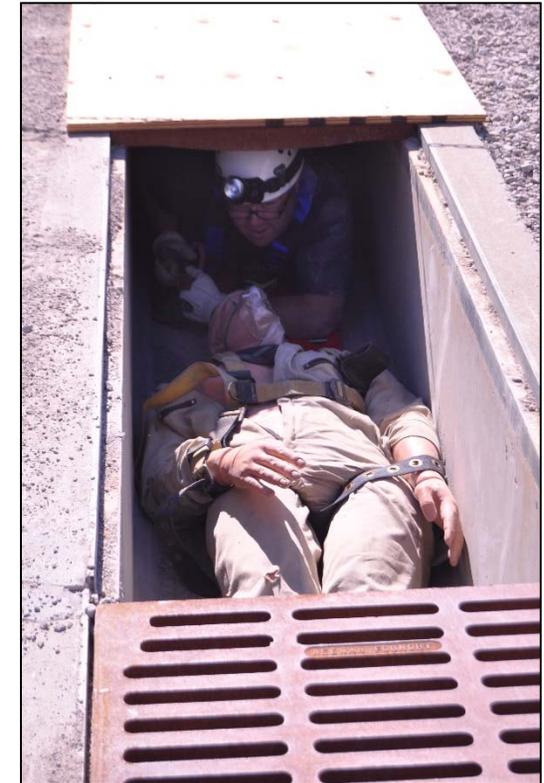
**Left: Mechanical technicians on the utility team torque bolts on a man-way entrance to a boiler unit inside the Utilities Building. The man-way is used for access for inspections of the unit. Right: A utility team worker installs permanent tags inside the Munitions Demilitarization Building. The tags were attached on valves operating a door to the Munitions Washout System room. Systemization at the main plant now stands at 55 percent complete.**

# EDT Facility Site Progress



**Left: Contract electricians conduct final testing prior to termination of an electrical panel that feeds the main distribution panel for the Explosive Destruction Technology (EDT) facility. Above: Testing and systemization of the Ionex 1000 carbon filtration system has started. The system provides controls for the EDT Service Magazine. EDT construction stands at 77 percent complete.**

# Blue Grass Army Depot Joint Rescue Exercise



**The Blue Grass Chemical Agent-Destruction Pilot Plant (BGCAPP) safety and medical teams and the Blue Grass Army Depot (BGAD) Fire Department conducted a joint confined space rescue exercise this summer. Left: BGAD fire fighters pull on rigging during the exercise. Right: A fire fighter prepares a mannequin for removal. The BGAD Fire Department is tasked with performing confined space and high angle rescues at BGCAPP.**

# Stakeholder Involvement: Madison County Emergency Management Agency and Chemical Stockpile Emergency Preparedness Program



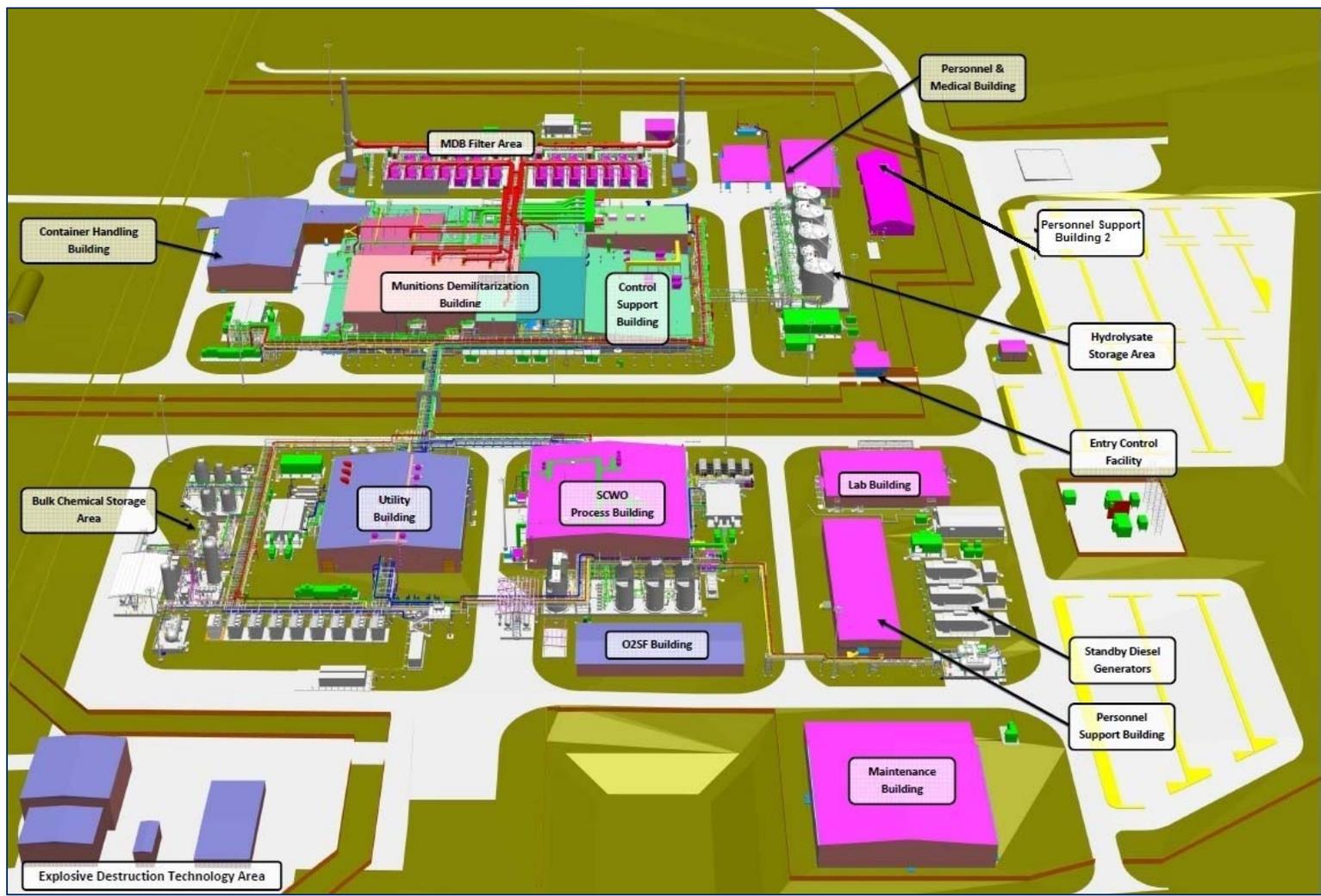
**Staff from the Madison County Emergency Management Agency and Chemical Stockpile Emergency Preparedness Program toured BGCAPP in July. Above: Jeff Krejsa, deputy site project manager, provides information to the group on the operation of the Rocket Cutting Machine inside the Explosive Containment Vestibule.**

# Community Involvement: BGCAPP Tour For Community Partners



**Bechtel Parsons Blue Grass and its joint venture partners support numerous civic, health and educational programs in the Madison County area. Representatives of nearly a dozen local programs toured the Blue Grass Chemical Agent-Destruction Pilot Plant in July. Above: Bob Peterson, shift plant manager, points out features of the Munitions Demilitarization Building to the group.**

# Blue Grass Chemical Agent-Destruction Pilot Plant



# Contact Information



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Program Management  
Advanced Chemical Response Alternatives

