

# Monthly Status Briefing

*October 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)



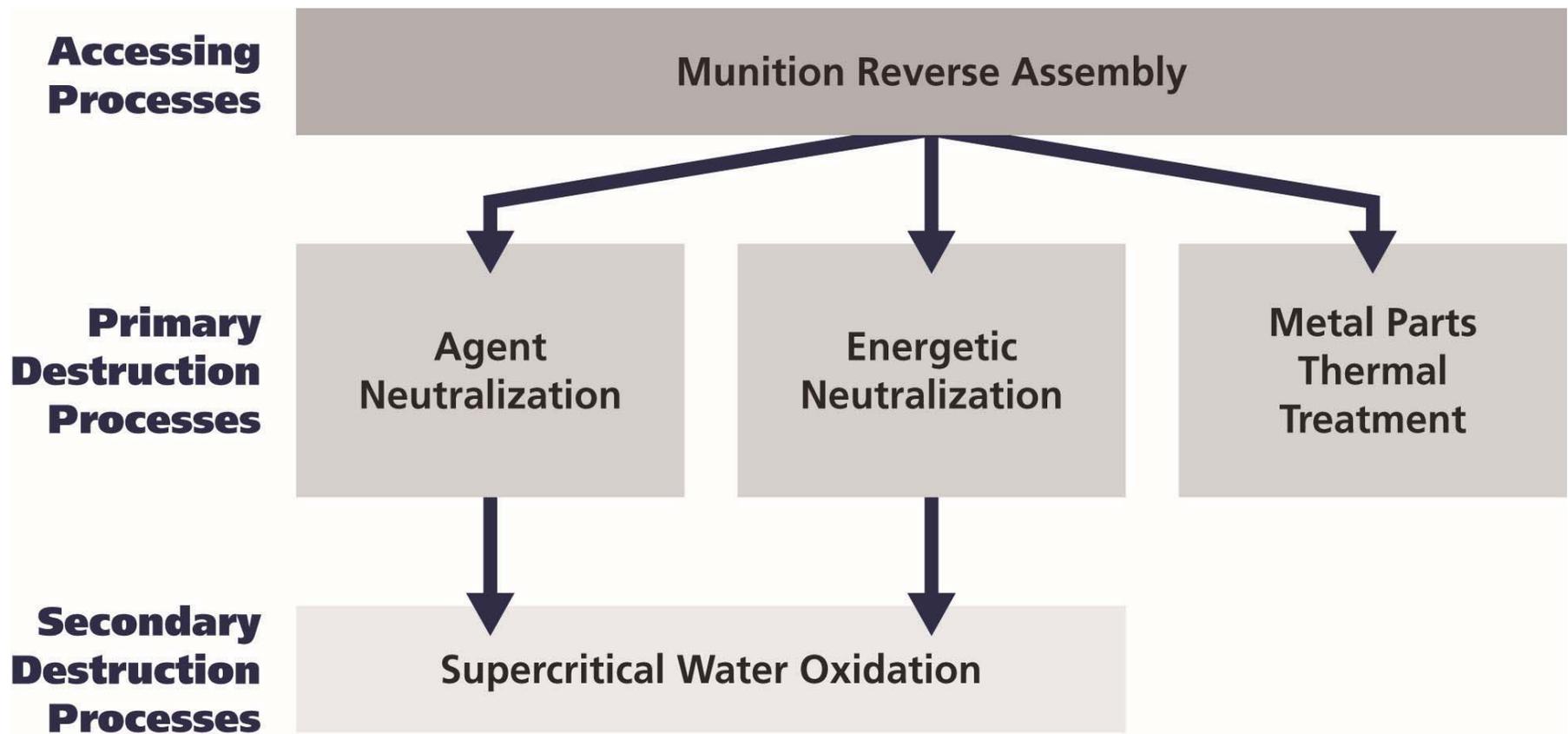
**A PARTNERSHIP FOR SAFE CHEMICAL WEAPONS DESTRUCTION**

# 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.

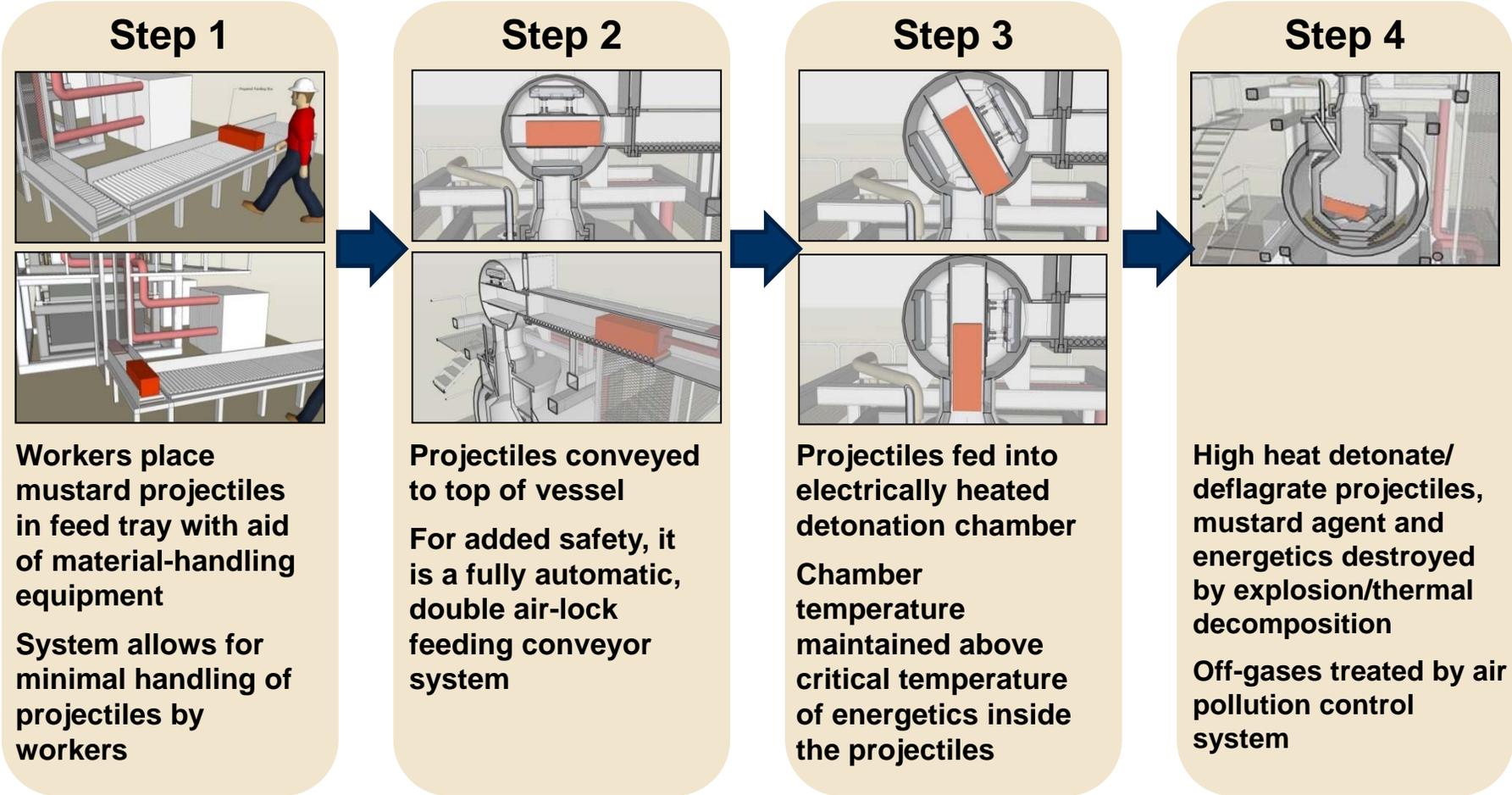
# Main Plant Destruction Technology

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

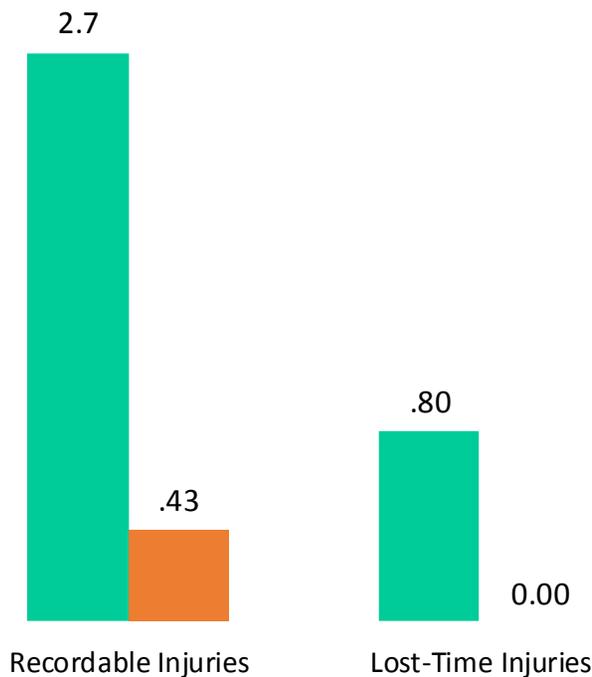


# Explosive Destruction Technology

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



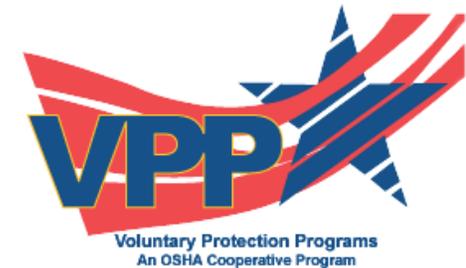
# Safety



- 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 **80 percent lower** than industry average
- As of Sept. 30, 2016, the project has completed 7,237,873 hours and 884 days without a lost-time accident

■ Construction Industry  
■ Bechtel Parsons

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



# Current Project Staffing

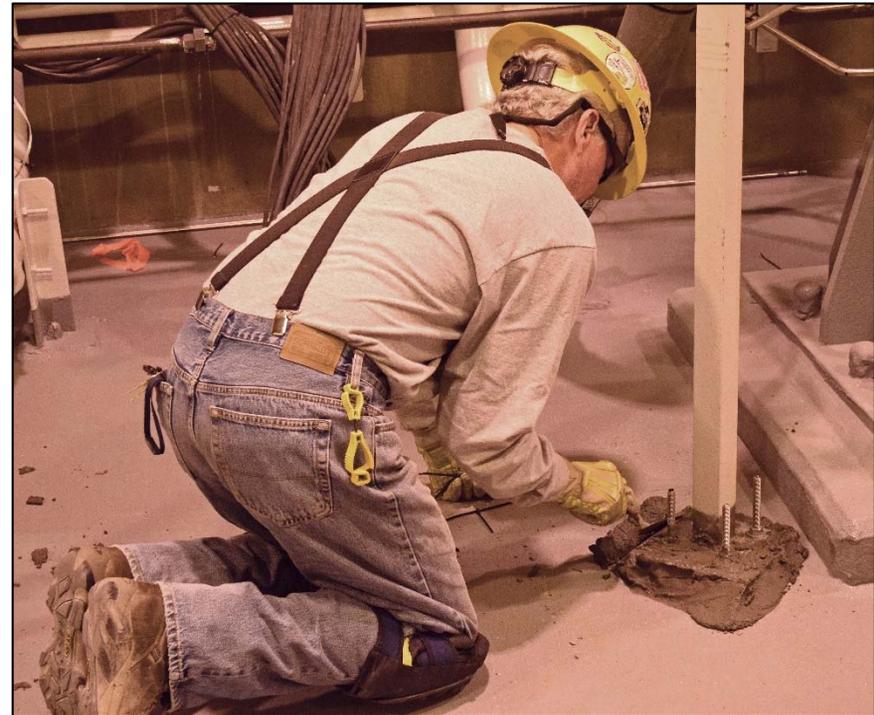
- **Total project employment – 969**
- **Richmond, Kentucky – 962**
  - Local hires – **26 percent**
- **Other locations – 7**
  - Pasadena, California
  - San Francisco, California



**An electrician terminates wiring for equipment supporting agent removal from projectiles in the Munitions Demilitarization Building.**

# Economic Impact

- **Acquisitions to date**
  - \$168.6 million spent with Kentucky companies
  - \$100.7 million spent in Madison and surrounding counties
- **Payroll to date**  
(includes nonmanual and craft)
  - \$843 million of local payroll paid



**A subcontractor finishes a concrete form in the Energetics Batch Hydrolyzer room inside 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: Hazardous Waste Storage Area



**Work continues to progress on the Hazardous Waste Storage Area which will receive waste containers from various locations around the facility and prepare them for off-site shipment to a final disposal facility. Left: Workers install insulation inside the tensioned fabric structure, which is used to store waste in drums. Right: Contractors prepare reinforcing steel for concrete pads for the bulk waste storage area. This Resource Conservation Recovery Act-permitted containment area will store tankers and a pad for up to 20, 40-yard roll off trailers for waste transport.**

# Main Plant Progress



**Left: A worker wraps insulation around piping outside of the Supercritical Water Oxidation Processing Building. Right: A contractor examines power leads for a chiller unit inside the Utility Building. Systemization at the main plant now stands at 62 percent complete.**

# EDT Facility Site Progress



**Left: Members of the Automation and Electrical team verify field devices are wired correctly in the Explosive Destruction Technology (EDT) Enclosure Building (EEB). Right: Contractors continue to install conduit inside the EEB. EDT construction stands at 84 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 rope rescue exercise in October. Left: A BGAD fire fighter rappels down the side of an Hydrolysate Storage Tank during the exercise. Right: A fire fighter begins his descent of the tank. The BGAD Fire Department is tasked with performing various rescues at BGCAPP.

# BGCAPP Stakeholder Involvement: Blue Grass Chemical Activity



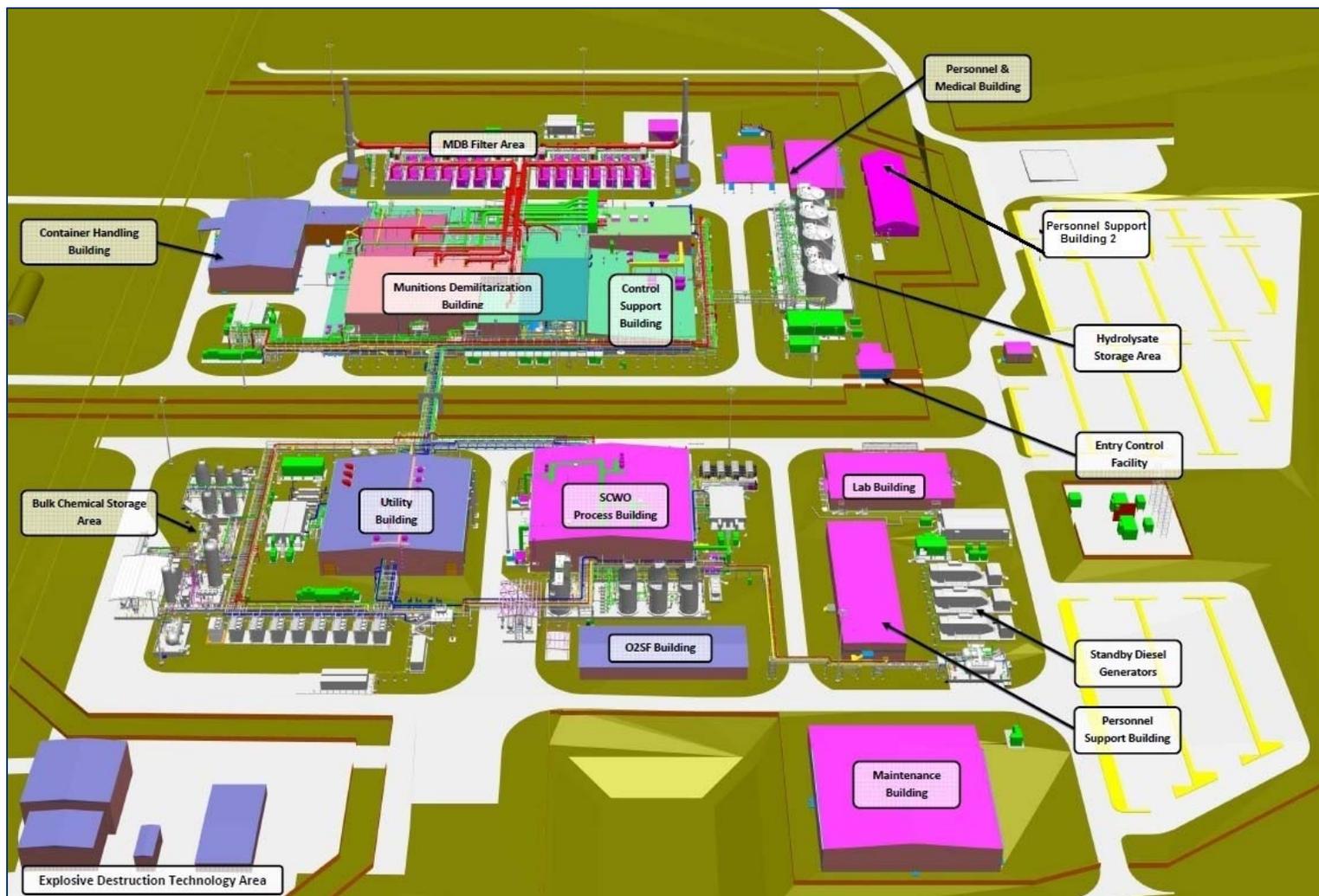
**Lt. Col. Scott Gould, commander, Blue Grass Chemical Activity (BGCA), and several BGCA managers view the Off-gas Treatment System Filtration Unit. Gould and his management staff toured the Explosive Destruction Technology facility to learn more about the operations.**

# Community Involvement



**Left: Members of the workforce join with the American Red Cross to install smoke detectors in homes in Berea, Kentucky. Right: BGCAPP workers walk in the Making Strides Against Breast Cancer event for the American Cancer Society in Lexington, Kentucky.**

# Blue Grass Chemical Agent-Destruction Pilot Plant



# Contact Information



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Program Management  
Advanced Chemical Response Alternatives

