

# Monthly Status Briefing

*October 2015*



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)



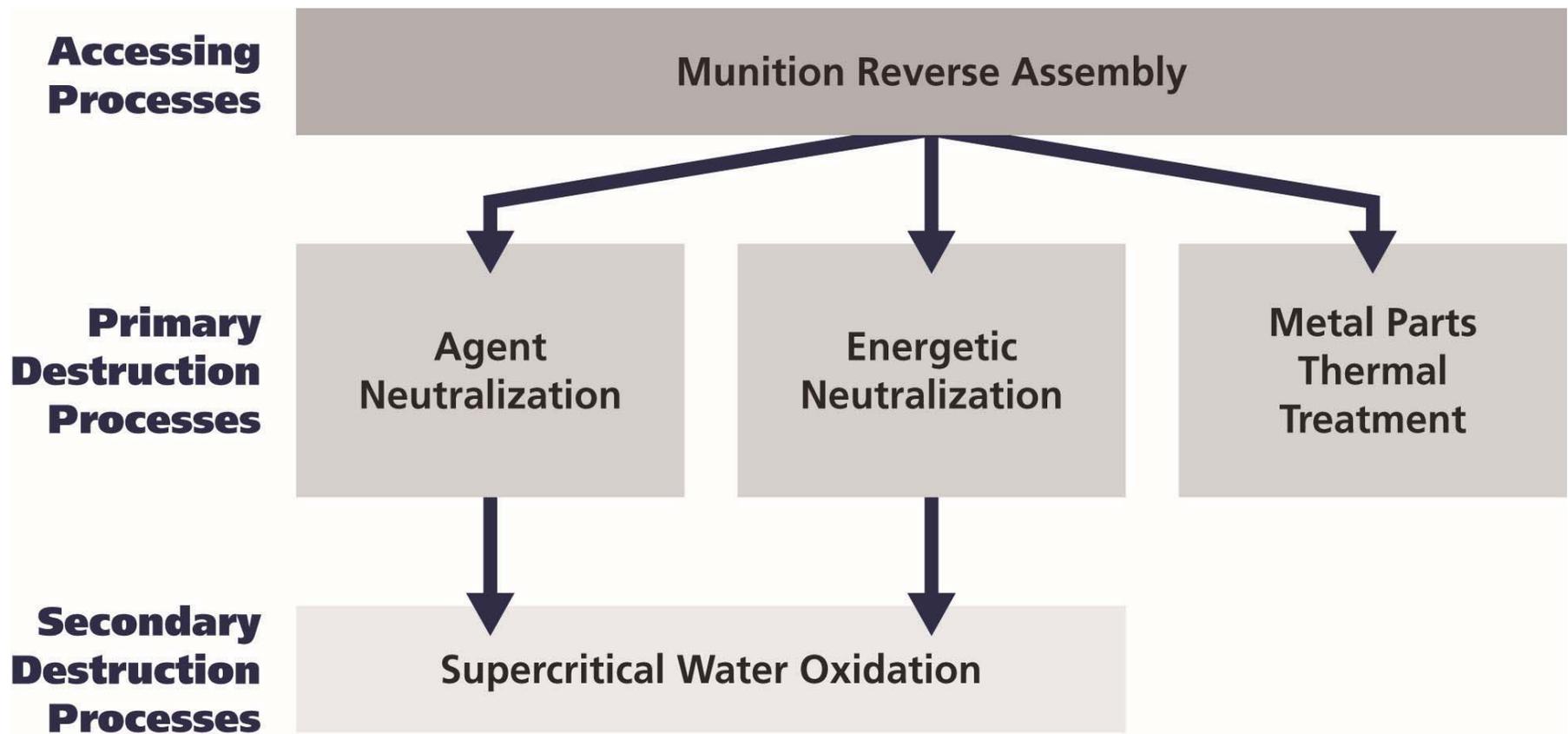
**A PARTNERSHIP FOR SAFE CHEMICAL WEAPONS DESTRUCTION**

# 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.

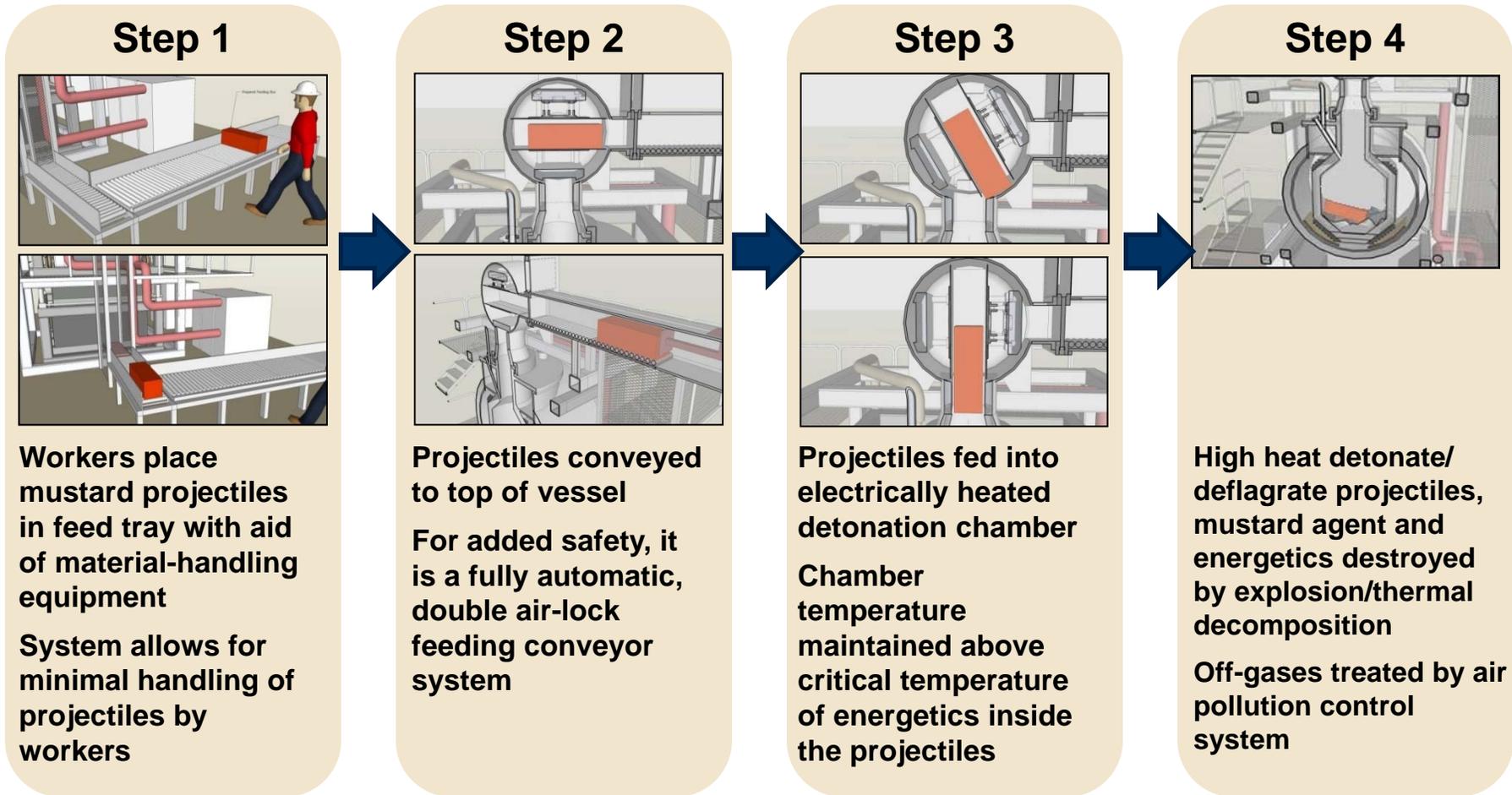
# Main Plant Destruction Technology

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

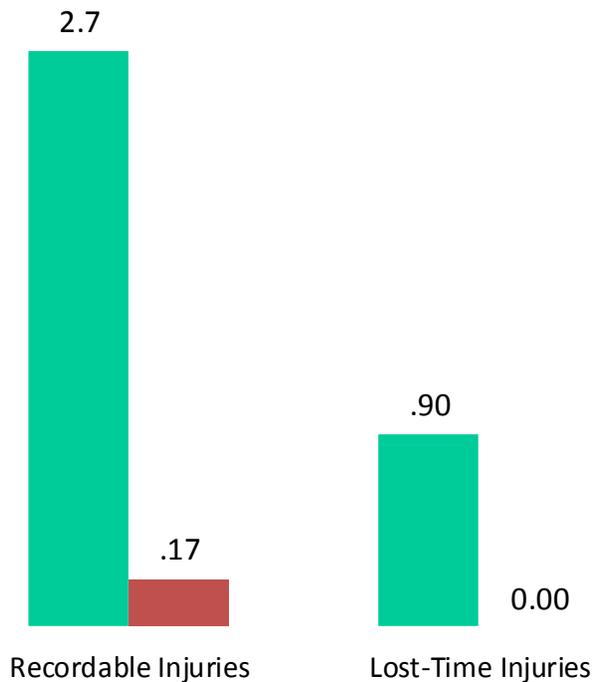


# Explosive Destruction Technology

**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 **94 percent lower** than industry average
- As of Sept. 30, 2015, the project has completed 5,037,710 hours and 518 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—1,058**
- **Richmond, Kentucky—1,045**
  - Nonmanual—**842**
  - Craft—**203**
  - Local hires—**36.7 percent**
- **Other locations—13**
  - Pasadena, California
  - San Francisco, California



**A contractor performs a liquid penetration inspection on a weld inside the Munitions Demilitarization Building.**

# Economic Impact

- **Acquisitions to date**
  - \$150.9 million spent with Kentucky companies
  - \$89.8 million spent in Madison and surrounding counties
- **Payroll to date**  
(includes nonmanual and craft)
  - \$780 million of local payroll paid



**A systemization team member installs a test rig to the Life Support System inside the Munitions Demilitarization Building.**

# BGCAPP Progress



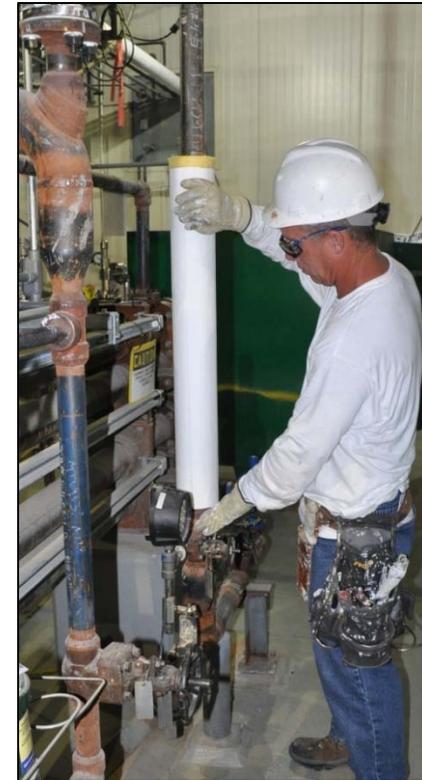
Northwestern Corner - Observation Point

- 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 EDT Facility Site
- 9 Utility Building
- 10 Supercritical Water Oxidation Building (not visible in photo)
- 11 Laboratory Building (not visible in photo)

# Main Plant Progress



**Left: An electrical field engineering team member removes locks from a panel, signaling turnover to startup.**



**Right: A contractor attaches insulation to a chilled water pipe inside the Munitions Demilitarization Building.**

# EDT Facility Site Progress



**Left: Workers place concrete into forms at the Explosive Destruction Technology facility site. The first significant concrete placement for this facility occurred the week of Oct. 12, 2015. Right: Workers continue excavating footprint to house the Static Detonation Chamber.**

# Stakeholder Outreach: Kentucky Department for Environmental Protection (KDEP)



Left: Inspectors, permit writers and reviewers from KDEP listen to a presentation on the Supercritical Water Oxidation (SCWO) process.



Right: KDEP members view a high-pressure air compressor outside the SCWO Processing Building.



Left: KDEP employees learn about the high pressure pumps of the SCWO feed module inside the SCWO Processing Building.



Right: A KDEP field inspector receives an explanation of how the SCWO reactor will function during operations while visiting the SCWO Processing Building.

# Stakeholder Outreach: Centers for Disease Control (CDC)



**A team from the CDC tours the Blue Grass Chemical Agent-Destruction Pilot Plant (BGCAPP) in September 2015.**

**Top left: The CDC team receives an update on the status of the Medical Facility.**

**Top right: CDC members view monitoring equipment inside the Medical Facility.**

**Bottom right: The CDC team tours the Laboratory Building.**



# Community Involvement

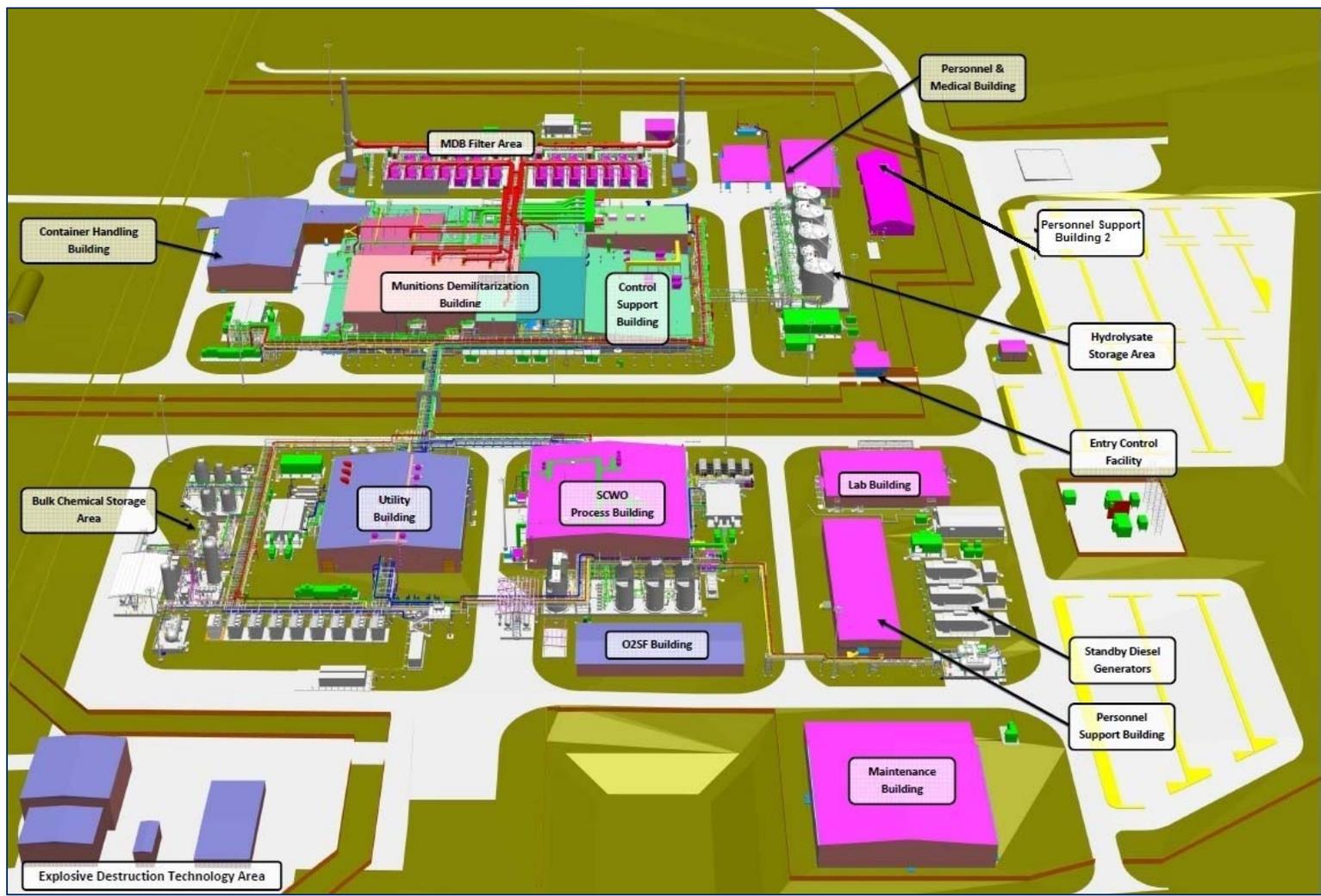


**Left: Bechtel Parsons Blue Grass employees present checks to the Liberty Place Recovery Center for Women, which provides substance abuse recovery support for women in Madison County, Kentucky.**



**Above: Bechtel NextGen members present information to the Richmond Young Professionals Association during their August meeting. NextGen is an employee resource group focused on supporting the orientation, development, retention and empowerment of employees as they begin and build their careers with Bechtel.**

# Blue Grass Chemical Agent-Destruction Pilot Plant



# Contact Information



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Program Implementation  
Approved Contract Response Alternatives

