

# 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)



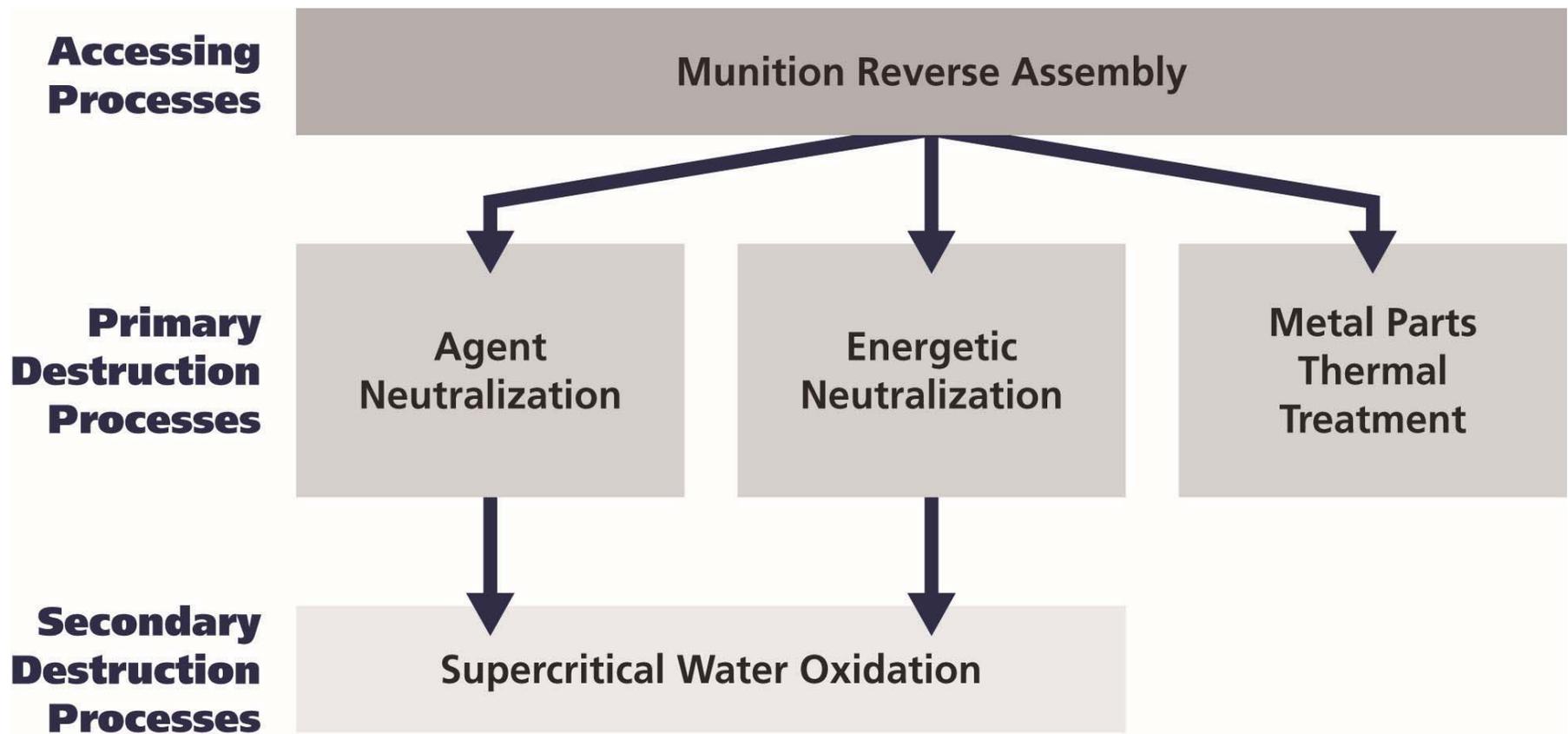
**A PARTNERSHIP FOR SAFE CHEMICAL WEAPONS DESTRUCTION**

# 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.

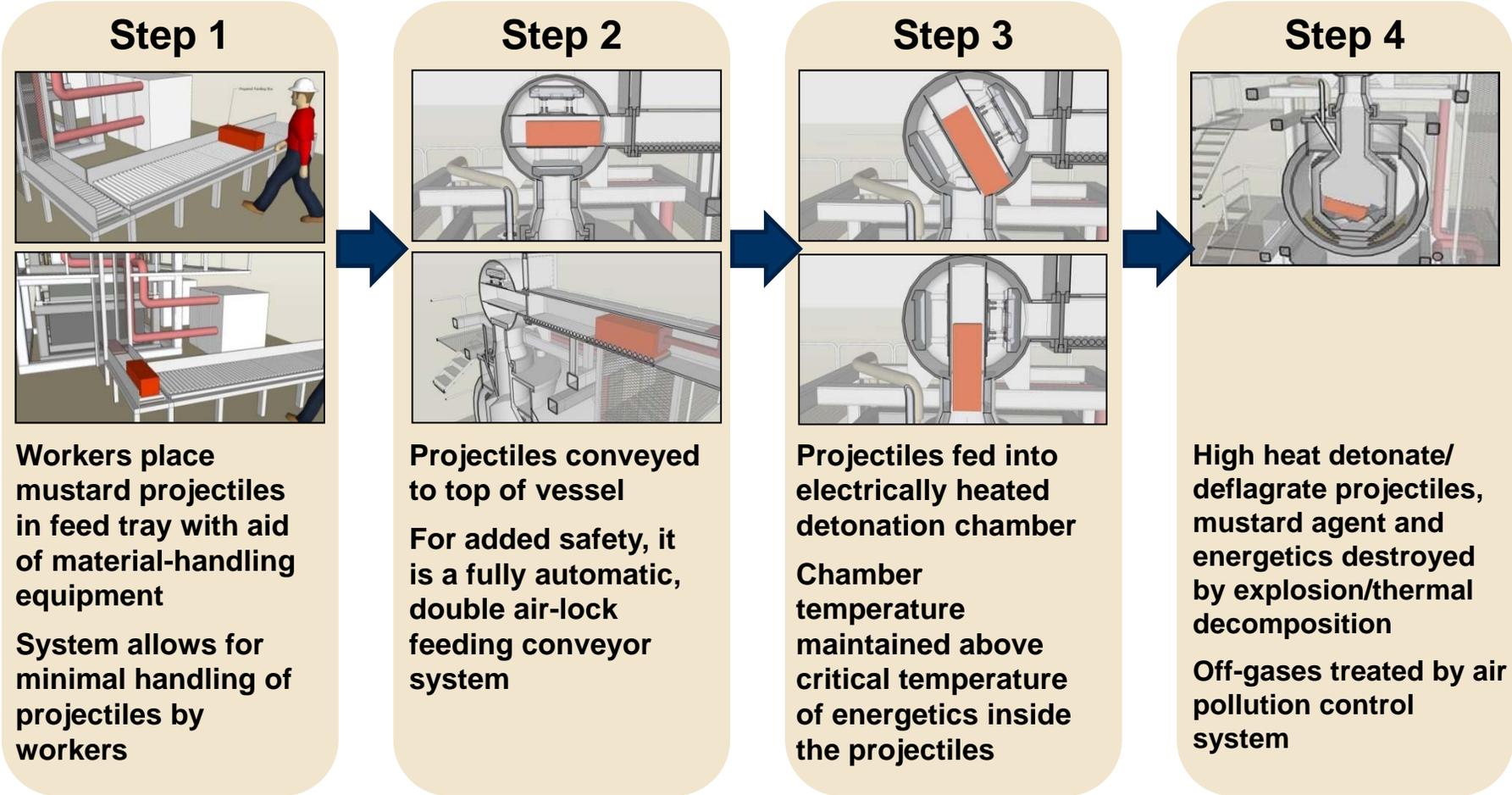
# Main Plant Destruction Technology

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

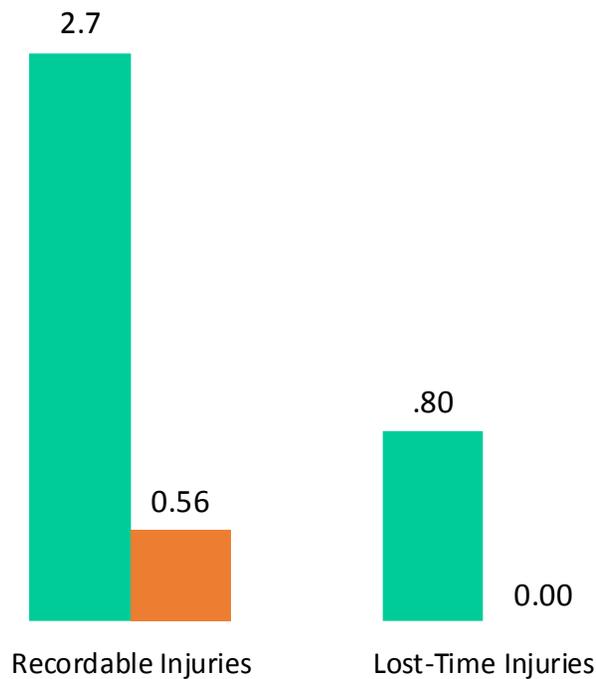


# Explosive Destruction Technology

**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 **79 percent lower** than industry average
- As of Oct. 31, 2016, the project has completed 7,428,533 hours and 915 days without a lost-time accident

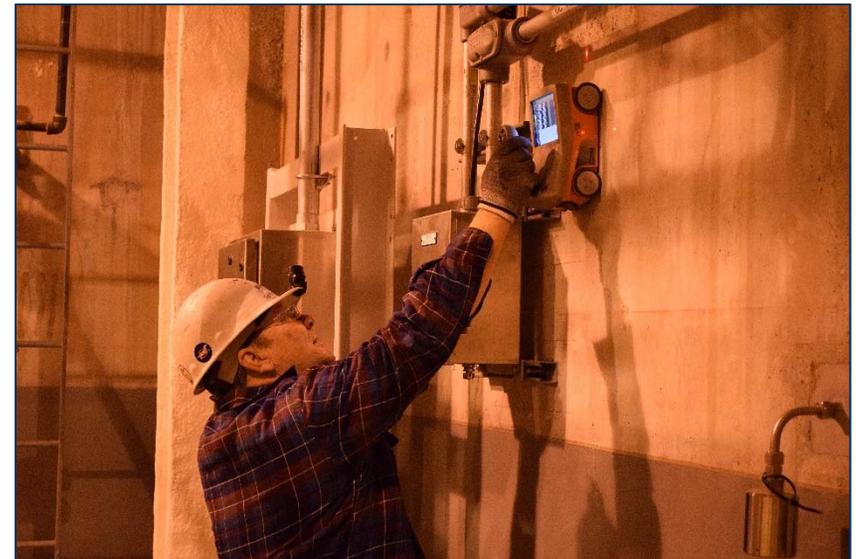
■ Construction Industry  
■ Bechtel Parsons

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



# Current Project Staffing

- **Total project employment – 958**
- **Richmond, Kentucky – 955**
  - Local hires – **26 percent**
- **Other locations – 3**
  - Pasadena, California
  - San Francisco, California



**A subcontractor uses an instrument to verify the location of rebar in a concrete wall before installing a panel box in the Munitions Demilitarization Building.**

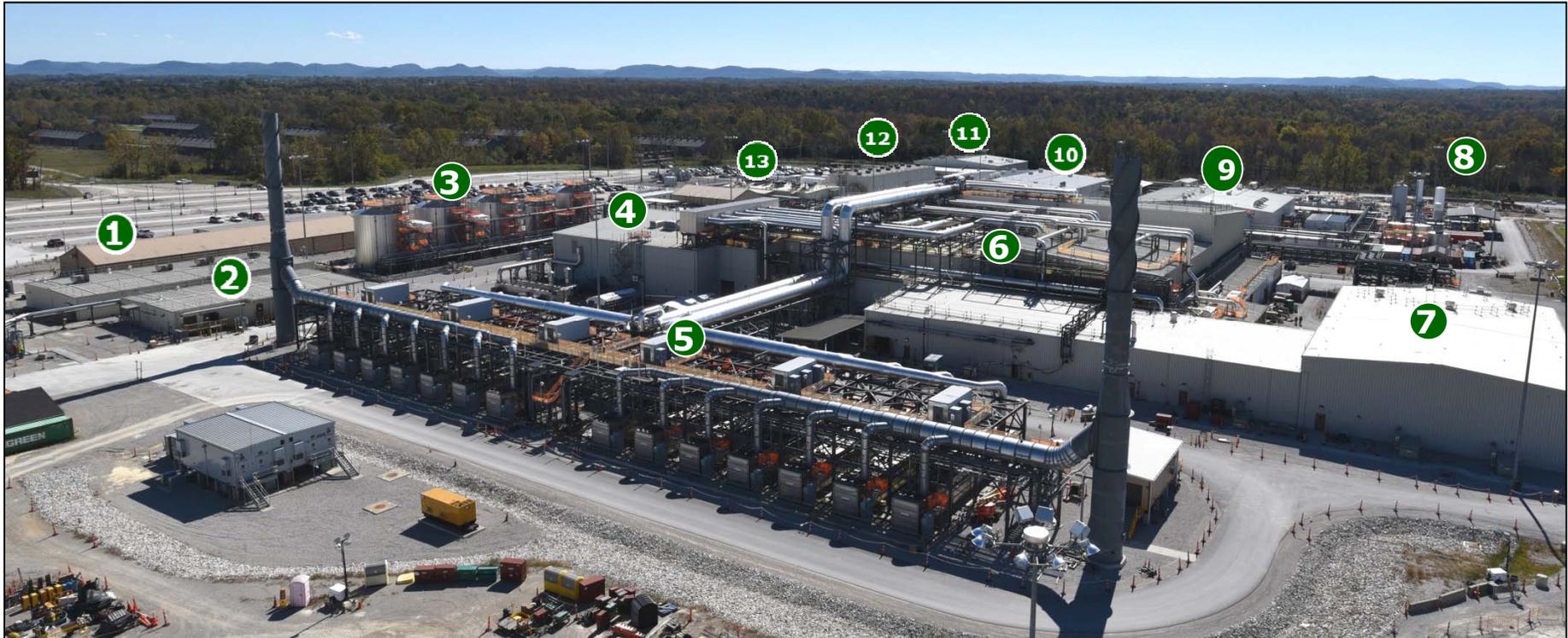
# Economic Impact

- **Acquisitions to date**
  - \$169.6 million spent with Kentucky companies
  - \$101.5 million spent in Madison and surrounding counties
- **Payroll to date**  
(includes nonmanual and craft)
  - \$848 million of local payroll paid



**A subcontractor applies finish coatings on piping in the Explosive Containment Vestibule 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**

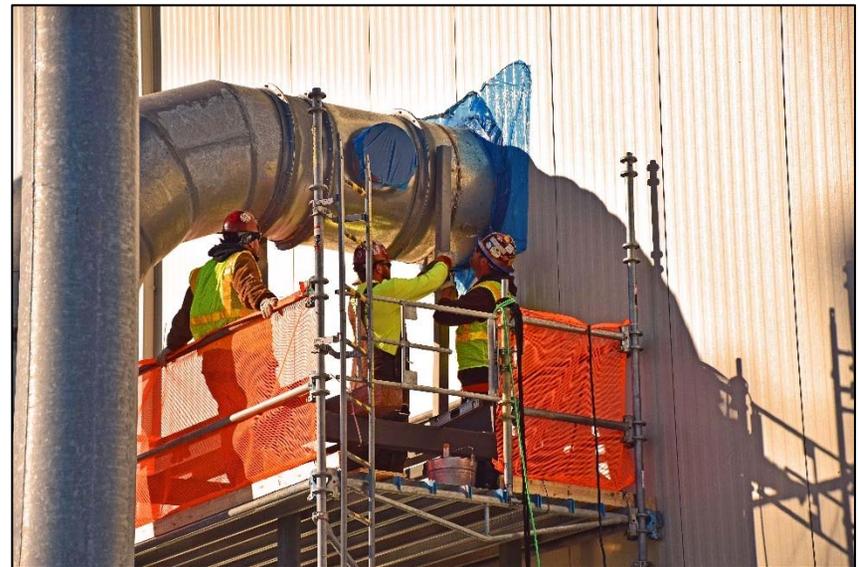


# Main Plant Progress



**Left: A member of the systemization team verifies wiring connections in the Off-gas Treatment System in the Munitions Demilitarization Building (MDB). Right: A start-up team member installs a valve on the gas monitoring system for the Metal Parts Treater in the MDB. Systemization at the main plant now stands at 64 percent complete.**

# EDT Facility Site Progress



**Left: A subcontractor welds portions of the pollution abatement system inside the Explosive Destruction Technology (EDT) Enclosure Building (EEB). Right: Contractors install bracing for the process ventilation system that moves air from inside the EEB to a filtration unit. EDT construction stands at 85 percent complete.**

# 2016 BGCAPP Vendor Forum



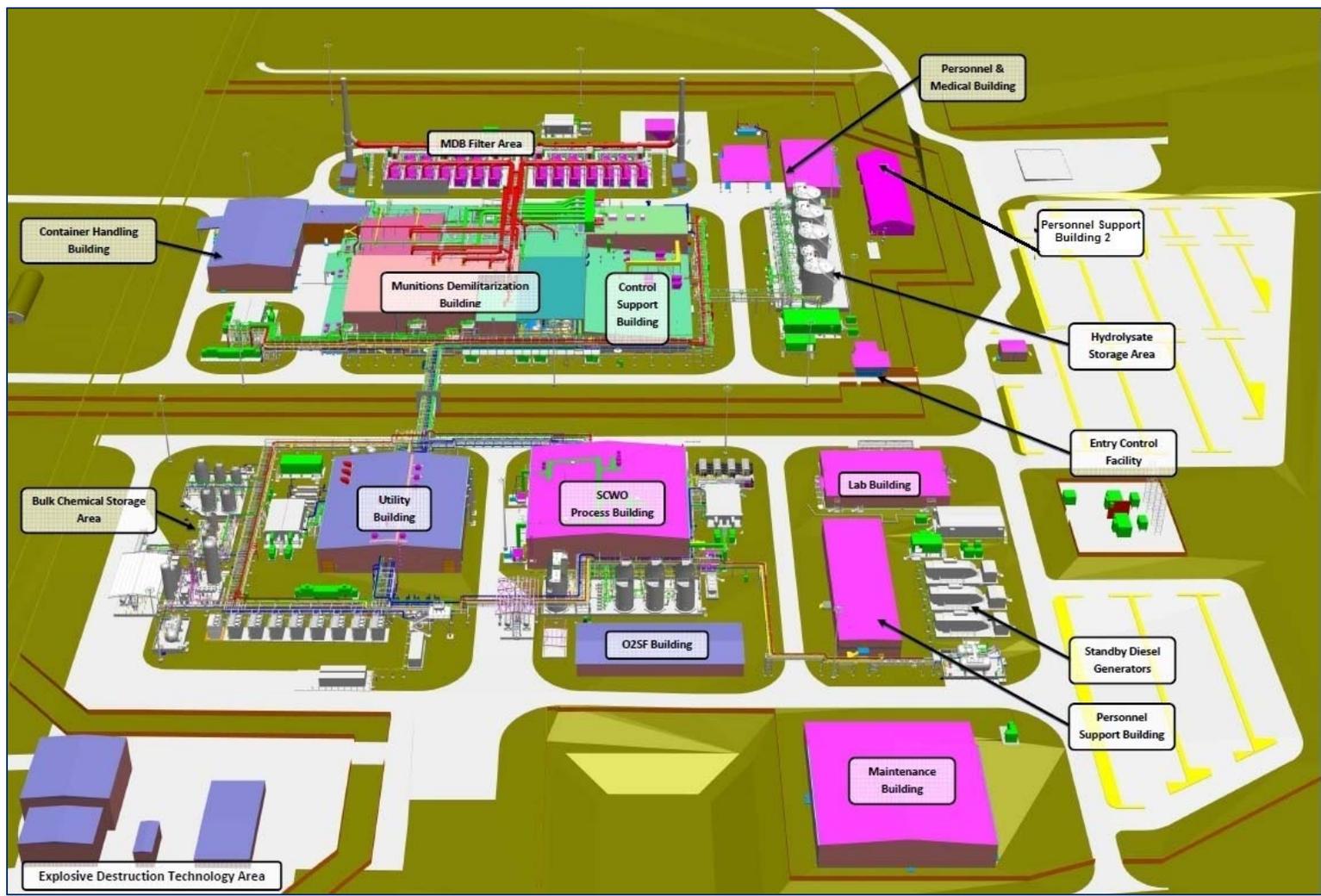
**Left: The Bechtel Parsons acquisition manager briefs attendees at a Vendor Forum. Right: Potential vendors for the project ask questions to staff representing various areas of the project. More than 80 representatives from various local and national vendors participated in the forum.**

# Community Involvement



**Left: Dr. Marek Greer, medical director, discusses career opportunities to students attending the annual Madison County Business and Education Partnership Career Day for high school juniors in Madison County. Bechtel Parsons Blue Grass is the sponsor of the career fair, held at Eastern Kentucky University. Right: A volunteer assists scouts with a project at the annual Girls in Engineering, Math and Science event. The event was held at the University of Kentucky.**

# Blue Grass Chemical Agent-Destruction Pilot Plant



# Contact Information



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Program Implementation  
Approved Contract Response Alternatives

