

Monthly Status Briefing

December 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



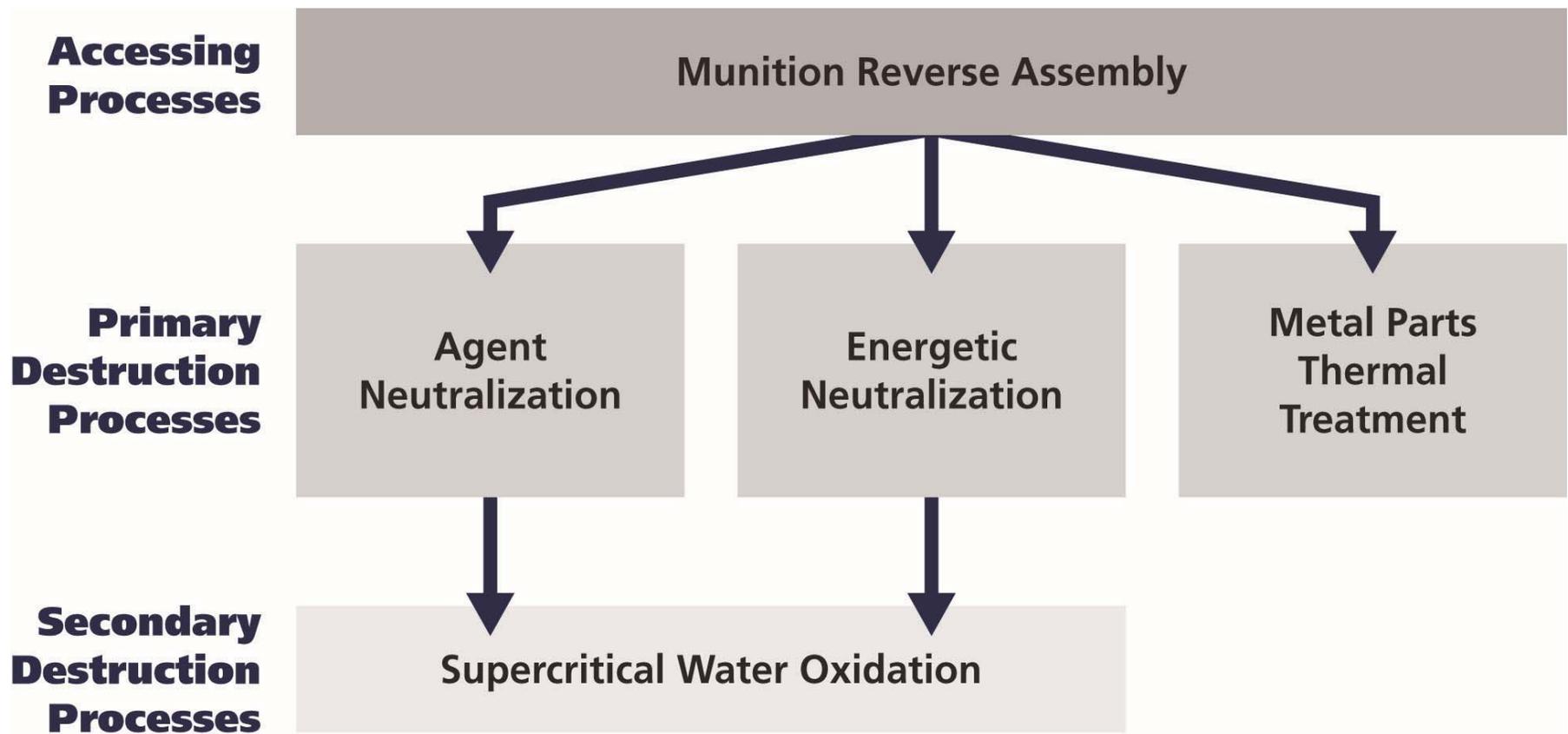
A PARTNERSHIP FOR SAFE CHEMICAL WEAPONS DESTRUCTION

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.

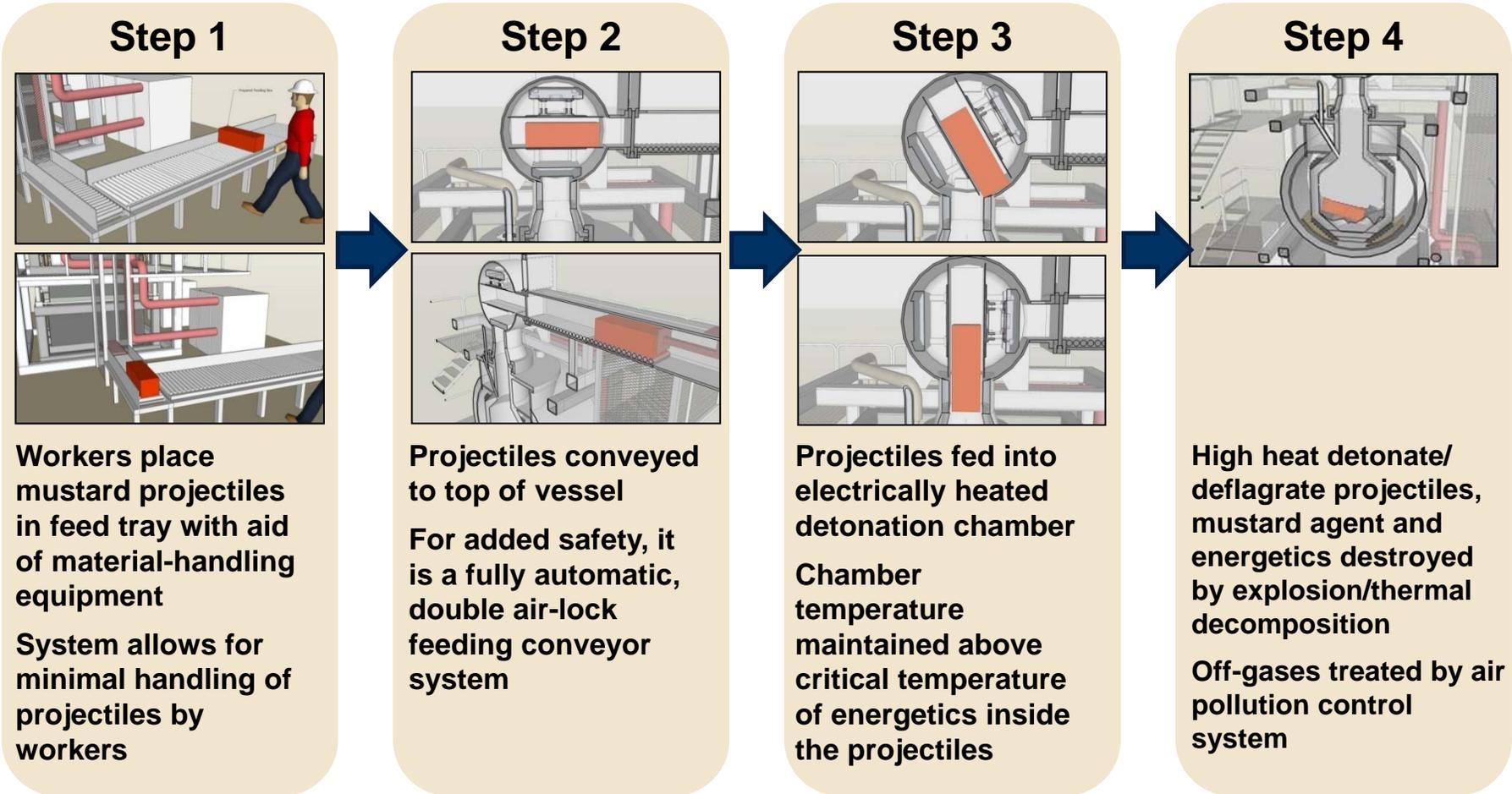
Main Plant Destruction Technology

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

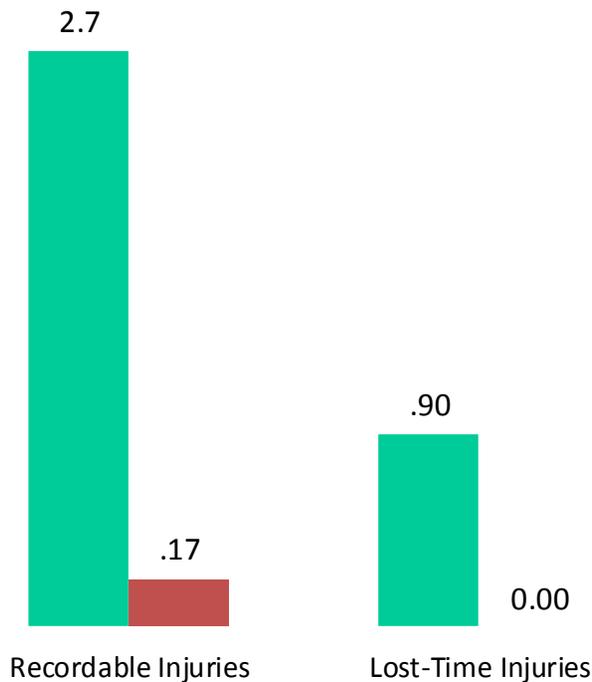


Explosive Destruction Technology

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 **93 percent lower** than industry average
- As of Nov. 30, 2015, the project has completed 5,464,385 hours and 579 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—861**
- **Richmond, Kentucky—**
 - Nonmanual—**848**
 - Local hires—**22.1 percent**
- **Other locations—13**
 - Pasadena, California
 - San Francisco, California



A member of the concrete team installs ties on reinforcing steel mesh in preparation of a concrete placement at the Explosive Destruction Technology site.

Economic Impact

- **Acquisitions to date**
 - \$152 million spent with Kentucky companies
 - \$89.7 million spent in Madison and surrounding counties

- **Payroll to date**
(includes nonmanual and craft)
 - \$793 million of local payroll paid



An electrician installs a fire alarm antennae on the exterior of the Entry Control Facility.

BGCAPP Progress



Northwestern Corner - Observation Point

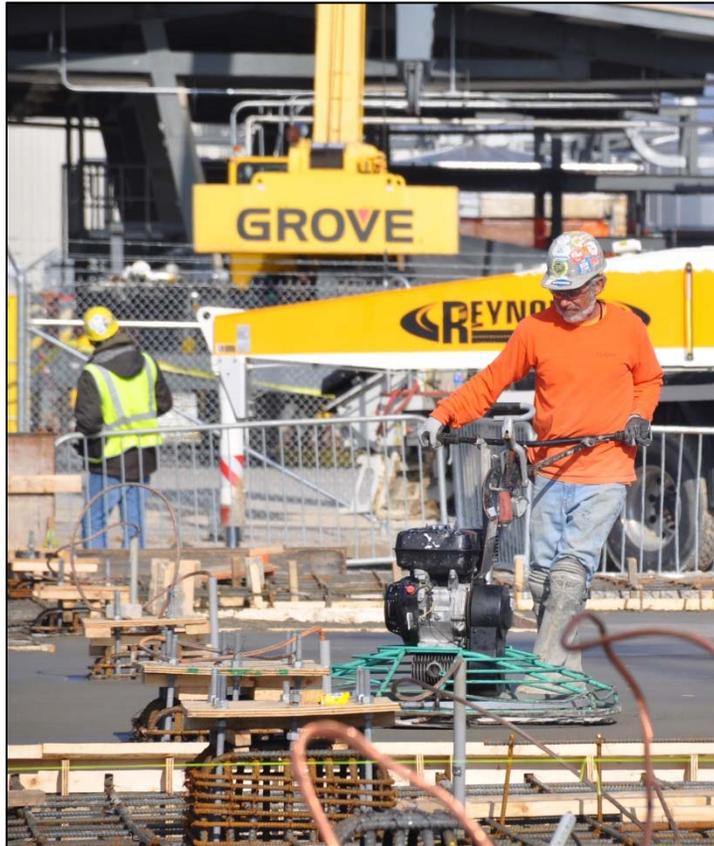
- 1 Personnel Maintenance Building
- 2 Medical Facility
- 3 Hydrolysate Storage Area
- 4 Control and Support Building
- 5 Munitions Demilitarization Building (MDB) Filter Banks
- 6 MDB
- 7 Container Handling Building
- 8 EDT Facility Site (not visible in photo)
- 9 Utility Building
- 10 Supercritical Water Oxidation Building (not visible in photo)
- 11 Laboratory Building (not visible in photo)

Main Plant Progress: Systemization



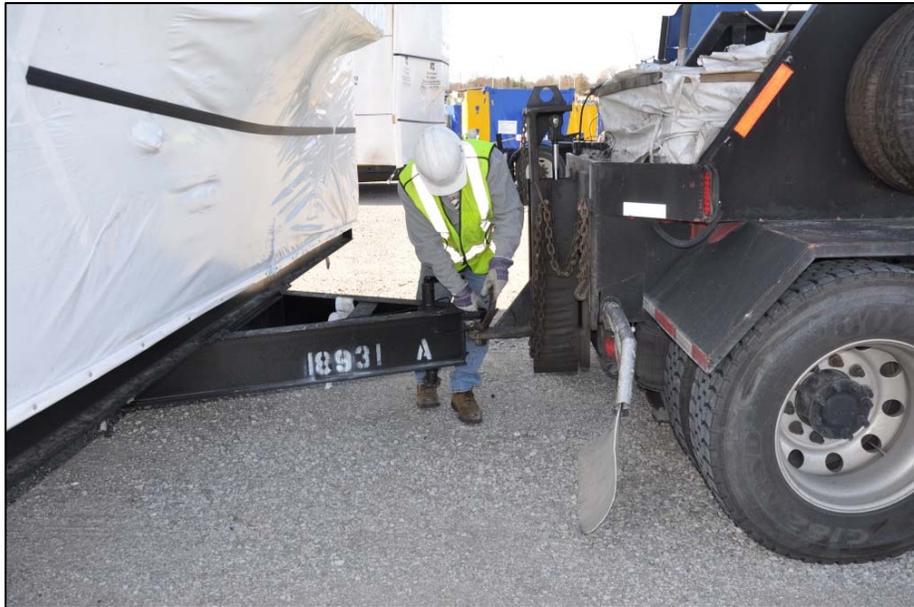
Systemization efforts continue throughout the main plant. Left: A Systemization team member connects a hydraulic hose to a module inside the Munitions Demilitarization Building (MDB). Right: Pipe bracing is installed for the sprinkler system inside the MDB.

EDT Facility Site Progress



Left: A concrete finisher works the floor of the Explosive Destruction Technology Enclosure Building following a concrete placement. Right: A pre-cast concrete slab is lowered into place on the EDT Service Magazine.

EDT Facility Progress



Modular units for the EDT Support Building were transported from Florida and arrived at the site in late November and early December. As of December, the EDT facility was 62 percent complete, which includes subcontracts and materials, technology equipment and construction activities.

Stakeholder Outreach: Kentucky Department for Environmental Protection Tour



Field office staff, inspectors and permit writers from the Kentucky Department for Environmental Protection (KDEP) toured the BGCAPP site in November. Left: KDEP staff listen to process information in the Tray Transfer room inside the Munitions Demilitarization Building (MDB). Right: Engineering design changes regarding the munition washout process are reviewed in the Metal Parts Treater room, also located in the MDB.

Stewardship Activities

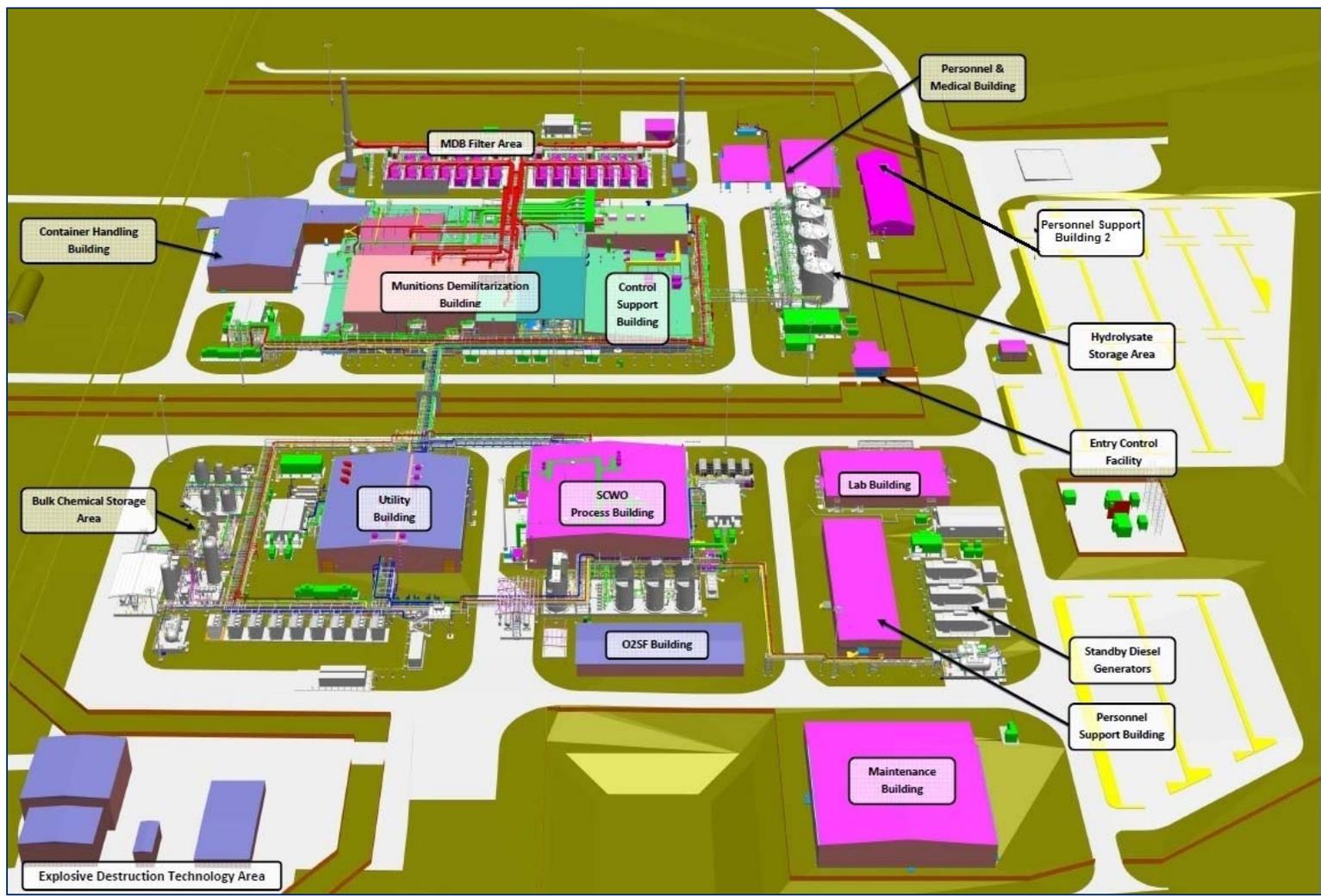


Left: Bechtel Parsons Blue Grass (BPBG) has been a proud supporter of Eastern Kentucky University's (EKU) programs for veterans through recruiting veterans for employment, participating in job fairs, sponsoring an annual luncheon to recognize women veterans, providing classroom presentations and in direct financial support. Ron Hink, BPBG project manager, right, presents a check to Brian Cole, director of EKU's Department of Veterans Affairs.

Right: BPBG staff attended a Lunch & Learn event on men's health with presentations by Dr. Marek Greer, BPBG medical director, and Dr. Justin Johnson, Baptist Health Hospital. BPBG staff supported Movember, a men's health program, through a chili cook-off fundraiser.



Blue Grass Chemical Agent-Destruction Pilot Plant



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Program Implementation
Approved Contract Response Alternatives

