

Monthly Status Briefing

September 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



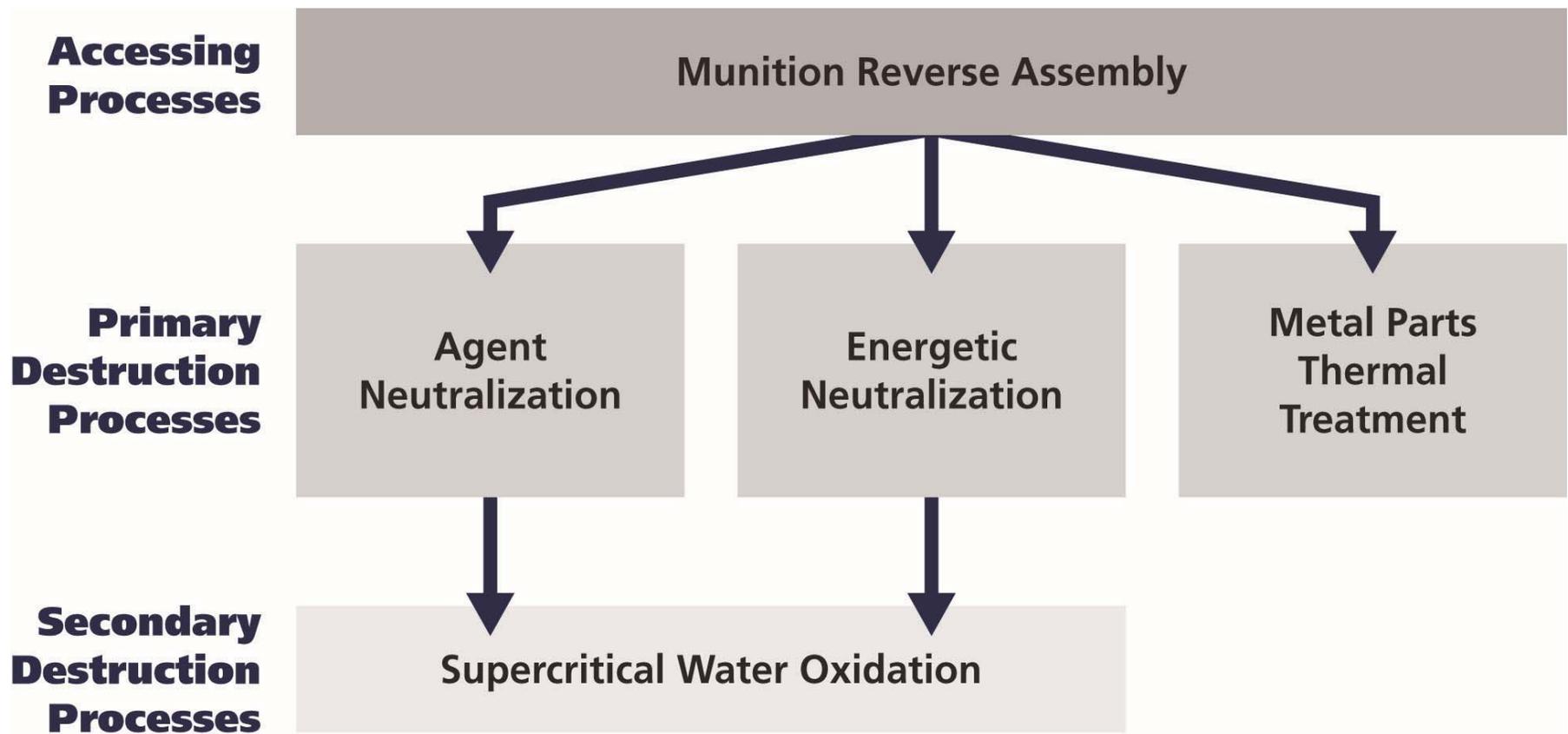
A PARTNERSHIP FOR SAFE CHEMICAL WEAPONS DESTRUCTION

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.

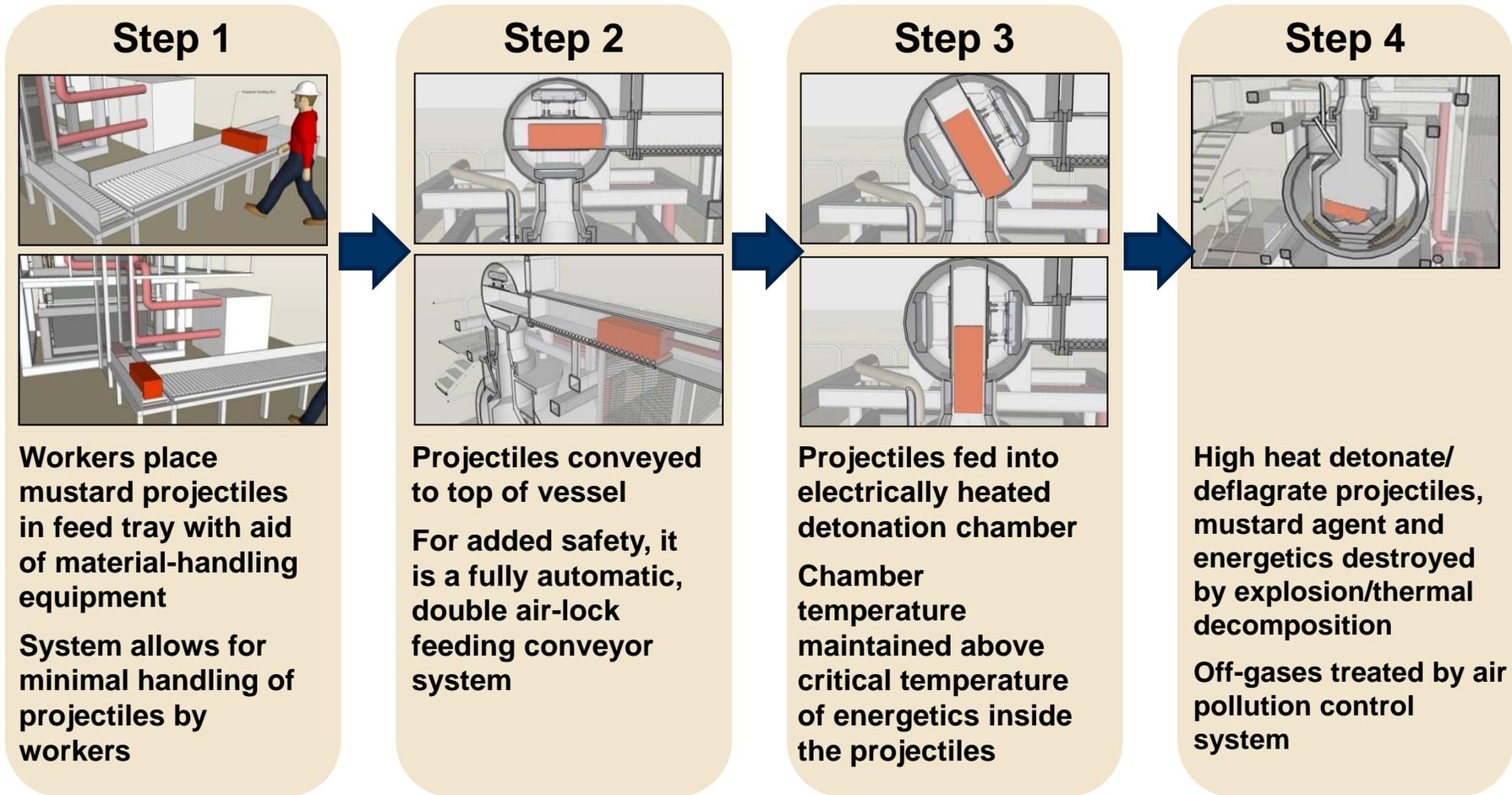
Main Plant Destruction Technology

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

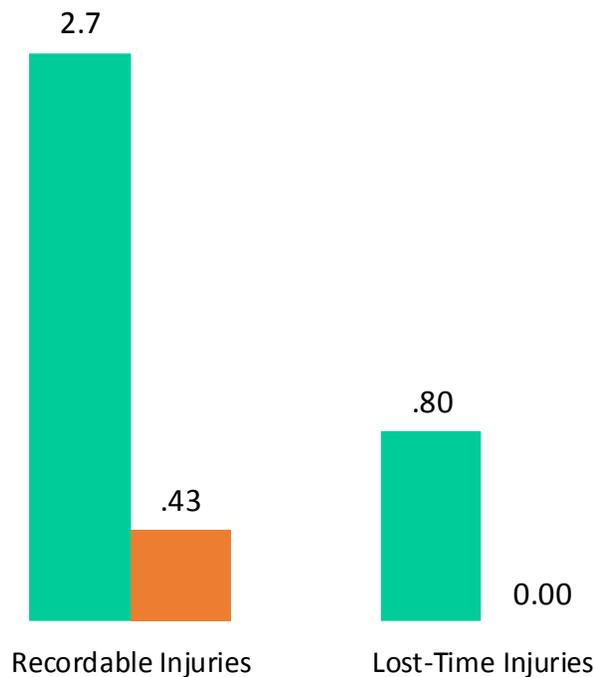


Explosive Destruction Technology

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 **83 percent lower** than industry average
- As of Aug. 31, 2016, the project has completed 7,009,501 hours and 854 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 – 964**
- **Richmond, Kentucky –**
 - Local hires – **25.6 percent**
- **Other locations – 7**
 - Pasadena, California
 - San Francisco, California



Human Resources staff share information concerning potential job opportunities at a September job symposium conducted at Eastern Kentucky University.

Economic Impact

- **Acquisitions to date**
 - \$168.2 million spent with Kentucky companies
 - \$100.4 million spent in Madison and surrounding counties
- **Payroll to date**
(includes nonmanual and craft)
 - \$838 million of local payroll paid



A subcontractor installs insulation around piping in the Off-gas Treatment 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



Left: A member of the Neutralization Team commissions vibration sensors for the spent contamination system, which is part of the Agent Neutralization System, inside the Munitions Demilitarization Building (MDB). Right: Workers from the Maintenance Department calibrate pressure-indicating transmitters on the Rocket Cutting machine in the MDB. Systemization at the main plant now stands at 57 percent complete.

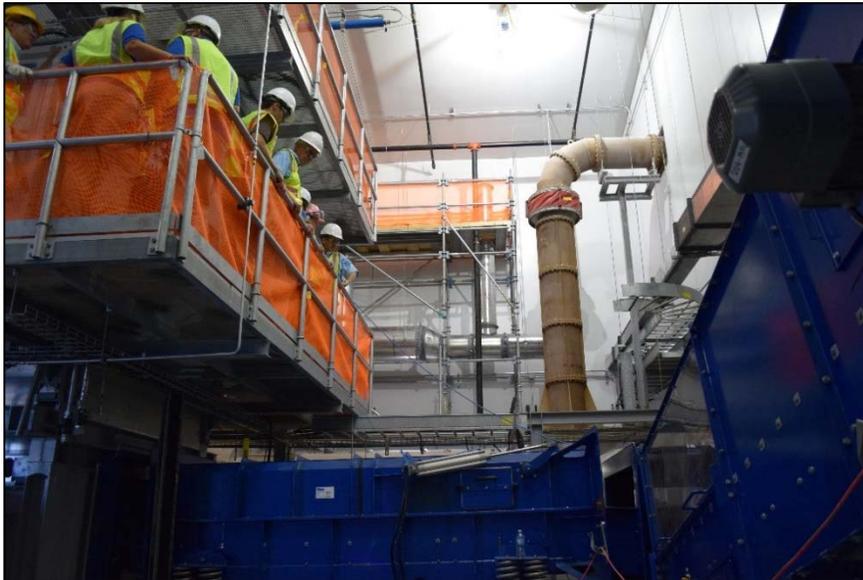
EDT Facility Site Progress



Left: Contractors install the elevator for the Static Detonation Chamber inside the Explosive Destruction Technology (EDT) Enclosure Building.

Above: Workers deliver a pallet of ACWA Test Equipment to the Service Magazine. EDT construction stands at 85 percent complete.

BGCAPP Stakeholder Involvement: Environmental Oversight



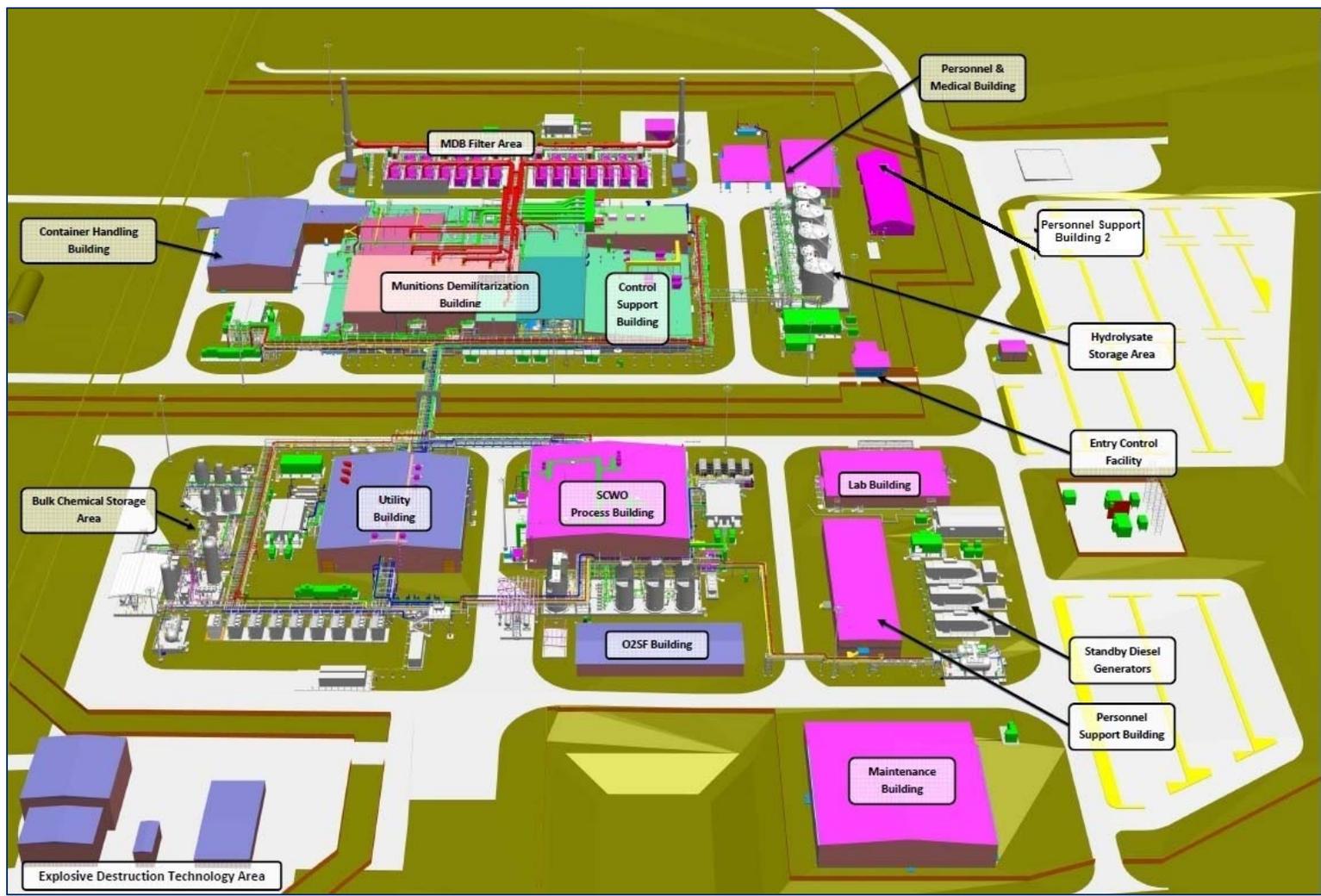
Left: Staff from the Kentucky Department for Environmental Protection (KDEP) and U.S. Environmental Protection Agency (EPA) view the scrap and belt conveyors inside the Explosive Destruction Technology Enclosure Building. The units transport the thermally-treated munitions scrap metal from the Static Detonation Chamber to a waste bin. Right: KDEP and EPA staff provide information on three draft environmental permits at a public meeting at Eastern Kentucky University. The permits are expected to be issued by the agencies in October.

Community Involvement



Left: Volunteers distribute items to walkers and runners at the annual Tracks for Packs 5K race to benefit the Madison County school backpack program. Right: Members of the BGCAPP workforce raise a wall for a Habitat for Humanity home in Madison County.

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Program Implementation
Approved Contract Response Alternatives

