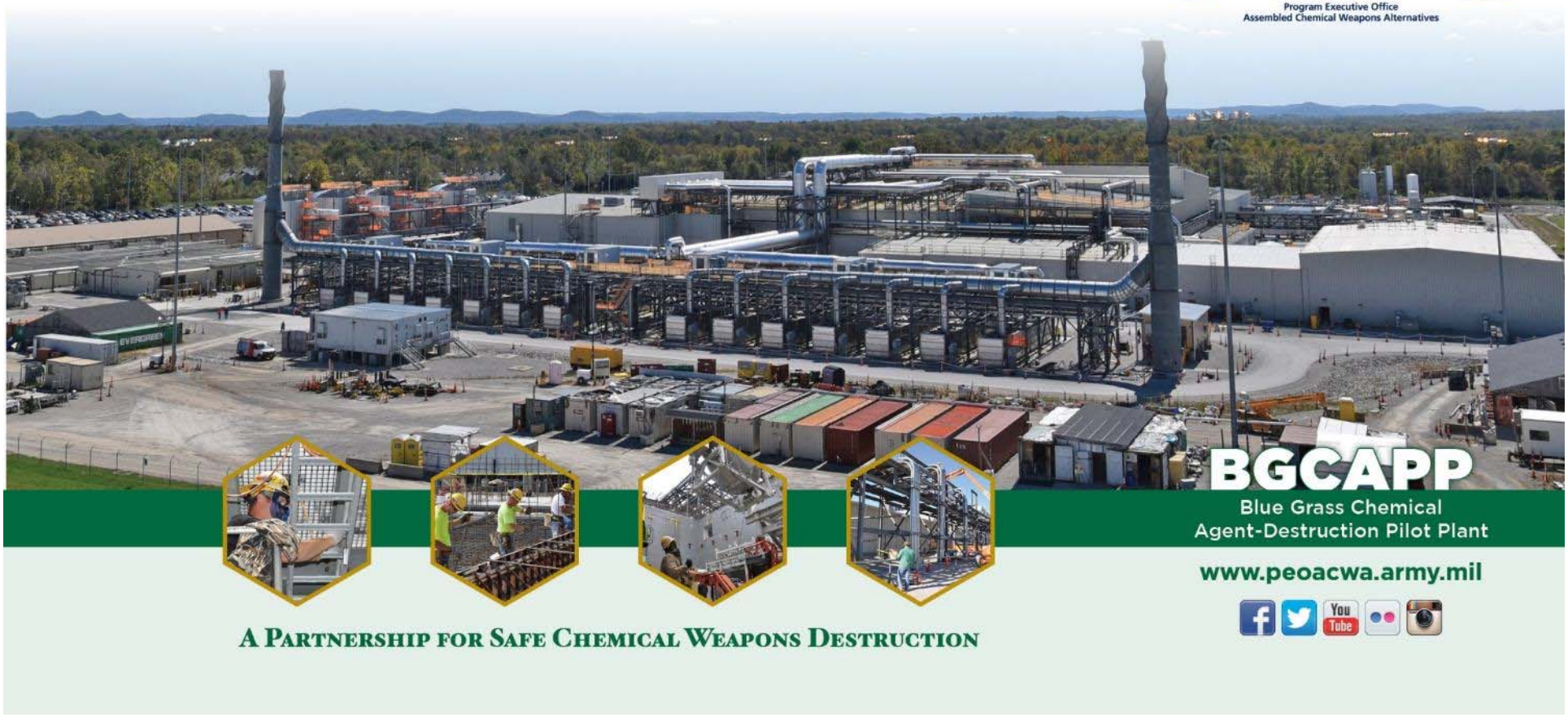
Monthly Status Briefing

January 2016

Blue Grass Chemical Agent-Destruction Pilot Plant

Program Executive Office
Assembled Chemical Weapons Alternatives

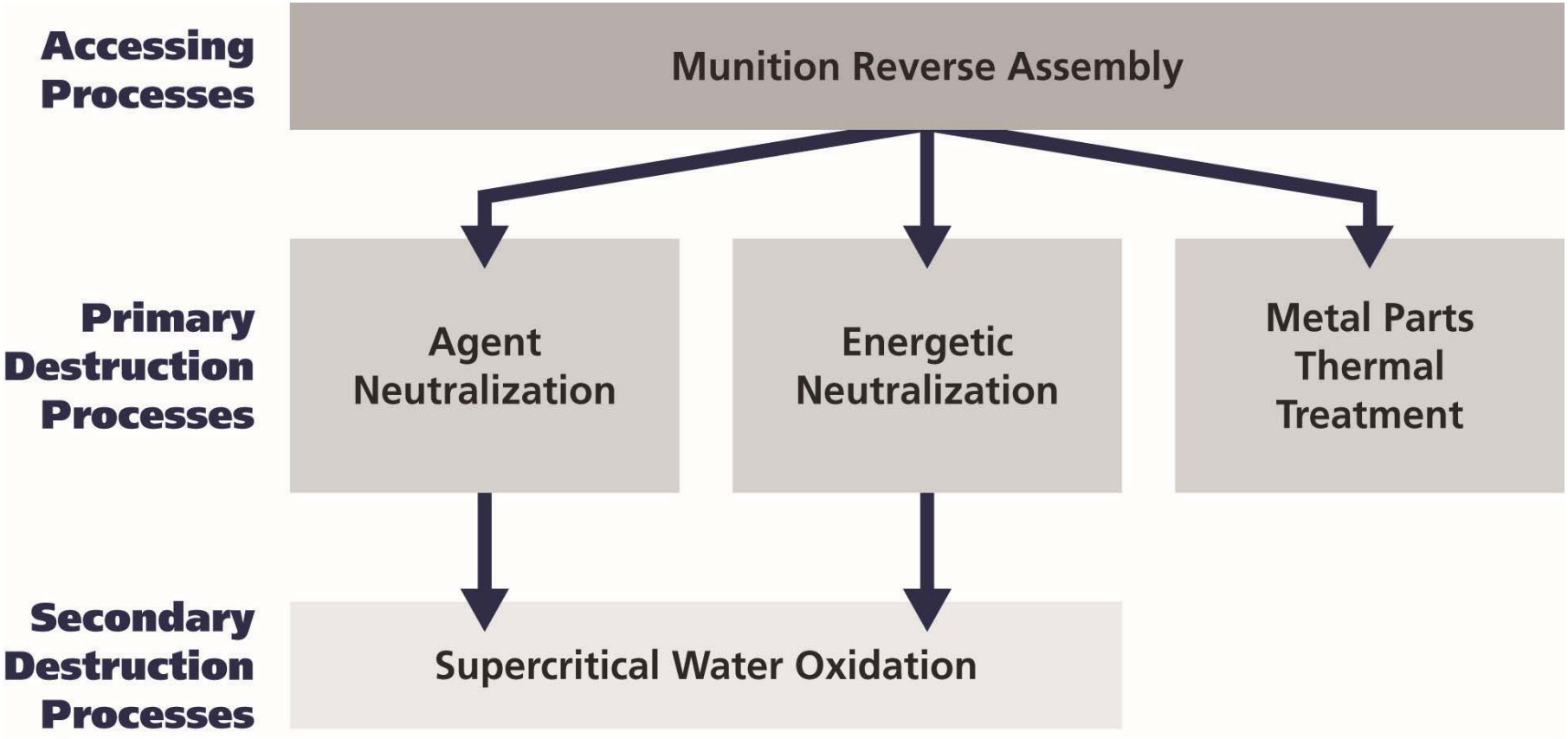


Project Background

- 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

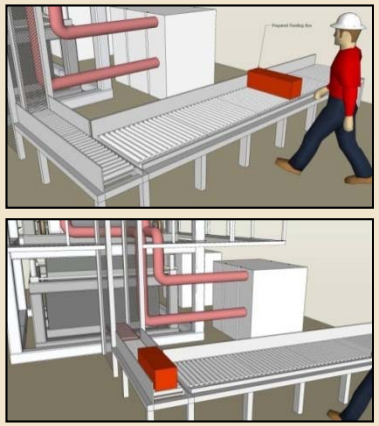
Neutralization followed by supercritical water oxidation will be used to destroy the nerve agent weapons stockpile.



Explosive Destruction Technology

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

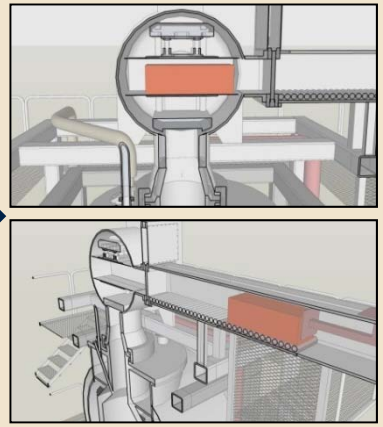
Step 1



Workers place mustard projectiles in feed tray with aid of material-handling equipment

System allows for minimal handling of projectiles by workers

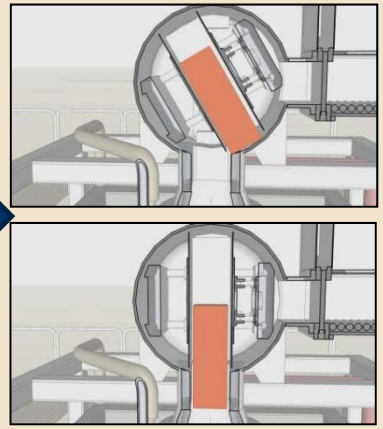
Step 2



Projectiles conveyed to top of vessel

For added safety, it is a fully automatic, double air-lock feeding conveyor system

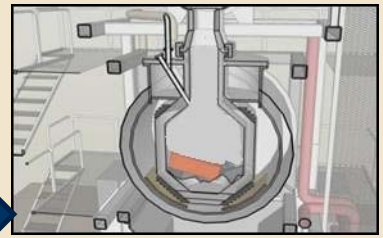
Step 3



Projectiles fed into electrically heated detonation chamber

Chamber temperature maintained above critical temperature of energetics inside the projectiles

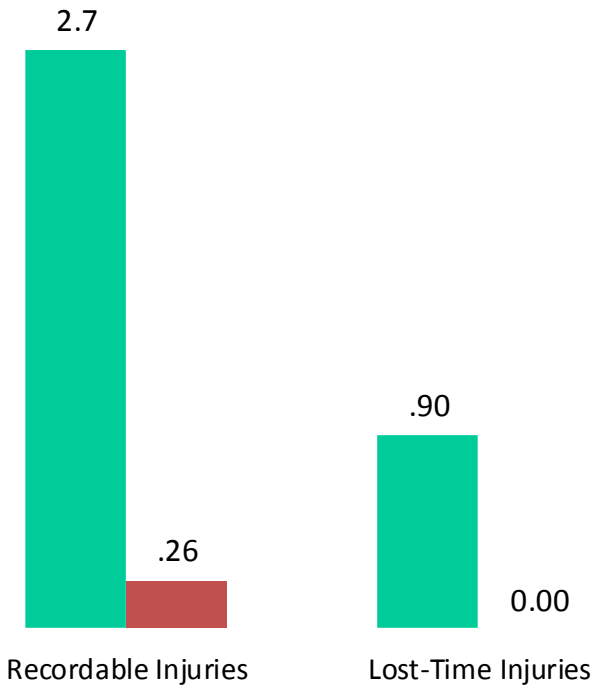
Step 4



High heat detonate/ deflagrate projectiles, mustard agent and energetics destroyed by explosion/thermal decomposition

Off-gases treated by air pollution control system

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 **90 percent lower** than industry average
- As of Dec. 31, 2015, the project has completed 5,607,424 hours and 610 days without a lost-time accident

DEDICATED TO SAFETY EXCELLENCE
ACCIDENTS

VPP
Voluntary Protection Programs
An OSHA Cooperative Program

Current Project Staffing

- **Total project employment—851**
- **Richmond, Kentucky—**
  - Nonmanual—**839**
  - Local hires— **23.7 percent**
- **Other locations—12**
  - Pasadena, California
  - San Francisco, California

A pre-cast utility box is unloaded at the site of the Outside Operations Support Facility. Foundation work continues on the site.

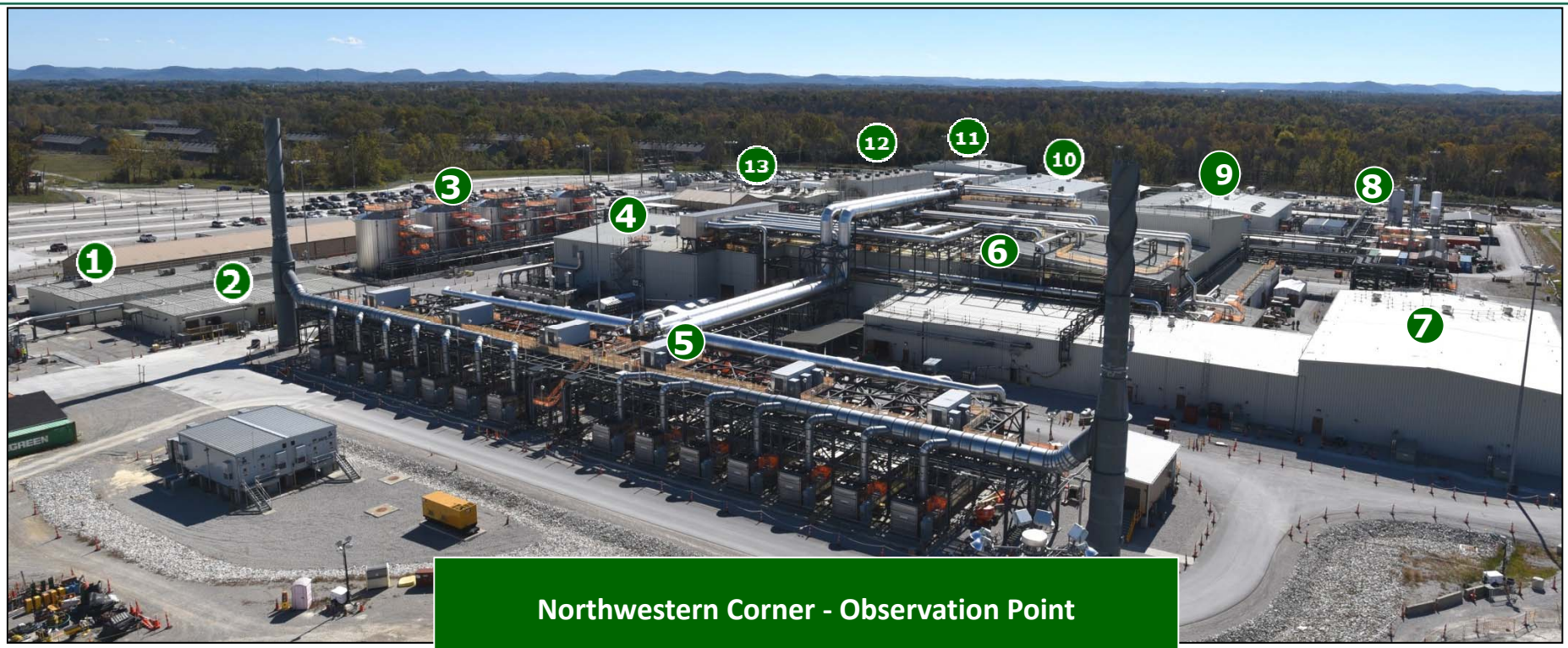
Economic Impact

- **Acquisitions to date**
  - $153.6 million spent with Kentucky companies
  - $90.3 million spent in Madison and surrounding counties
- **Payroll to date**
  (includes nonmanual and craft)
  - $798 million of local payroll paid

A Systemization team member adjusts controls for an assist-powered door inside the Munitions Demilitarization Building.

BGCAPP Progress

BGCAPP MONTHLY STATUS BRIEFING



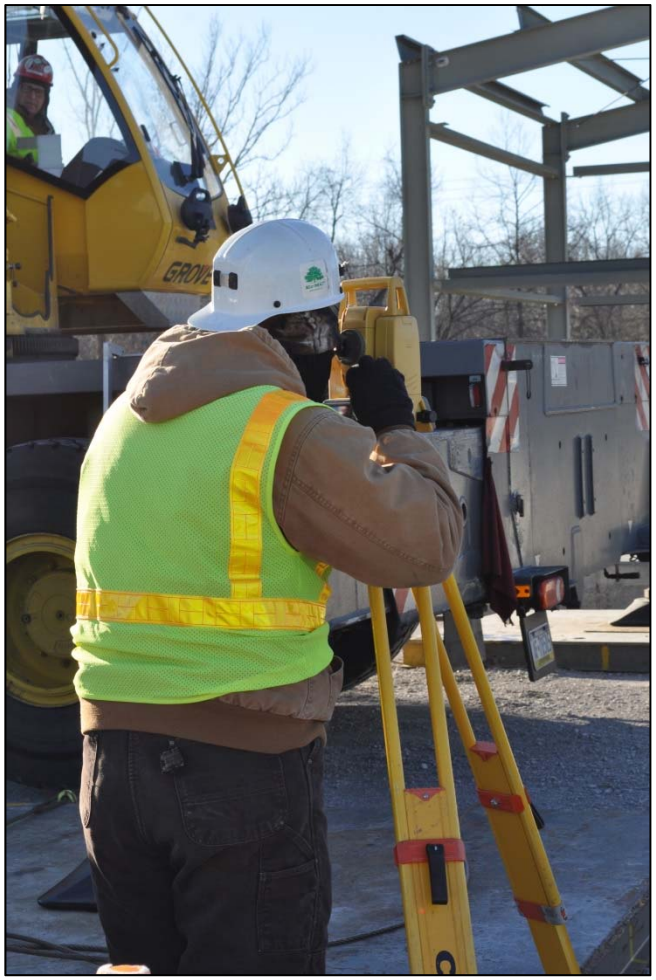
Northwestern Corner - Observation Point

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
11. Maintenance Building
12. Personnel Support Building
13. Laboratory Building

Main Plant Progress: Systemization

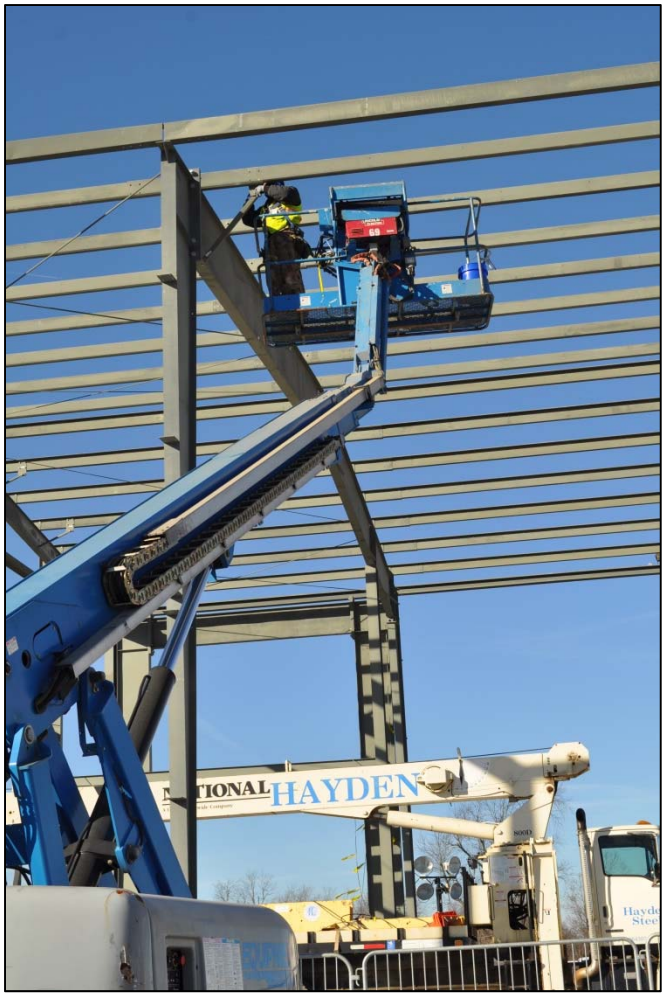
Systemization efforts continue throughout the main plant. Left: A Systemization team conducts a test of a door inside the Munitions Demilitarization Building (MDB). Right: A special projects team confirms Lock Out-Tag Out procedures on equipment outside of the Metal Parts Treater in the MDB.

EDT Facility Site Progress



Left: A contractor peers through a transit to confirm the placement of supports for the Explosive Destruction Technology Enclosure Building.

Right: Ironworkers connect support braces to the steel frame of the Enclosure Building.



Stakeholder Outreach: Assistant Secretary of the Army Tours BGCAPP

Assistant Secretary of the Army for Installations, Energy and Environment Katherine Hammack visited the Blue Grass Chemical Agent-Destruction Pilot Plant to learn more about progress toward chemical weapons destruction in Kentucky. Left: Jeff Brubaker, site project manager, provides information on the equipment inside the Explosive Containment Room. Center: Hammack listens as Brubaker points out the Hydrolysate Storage Area tanks across from the Control and Support Building. Right: Hammack asks a question of Control Room Operator Rogelio Turqueza regarding information on the monitor.

Community Involvement

Beth Brock, chair of the Madison County, Kentucky, School Board, thanks Rick Goetz, Bechtel Parsons Blue Grass (BPBG) deputy project manager, for a donation to the local school district. The donation provides grants to teachers to fund innovative classroom activities focused on science, technology, engineering and math. The donation also provides for scholarships for Madison County students to attend one of two local universities.

Firefighters from the Richmond, Kentucky, fire department load toys donated by Bechtel Parsons employees for the annual Toys for Kids drive.

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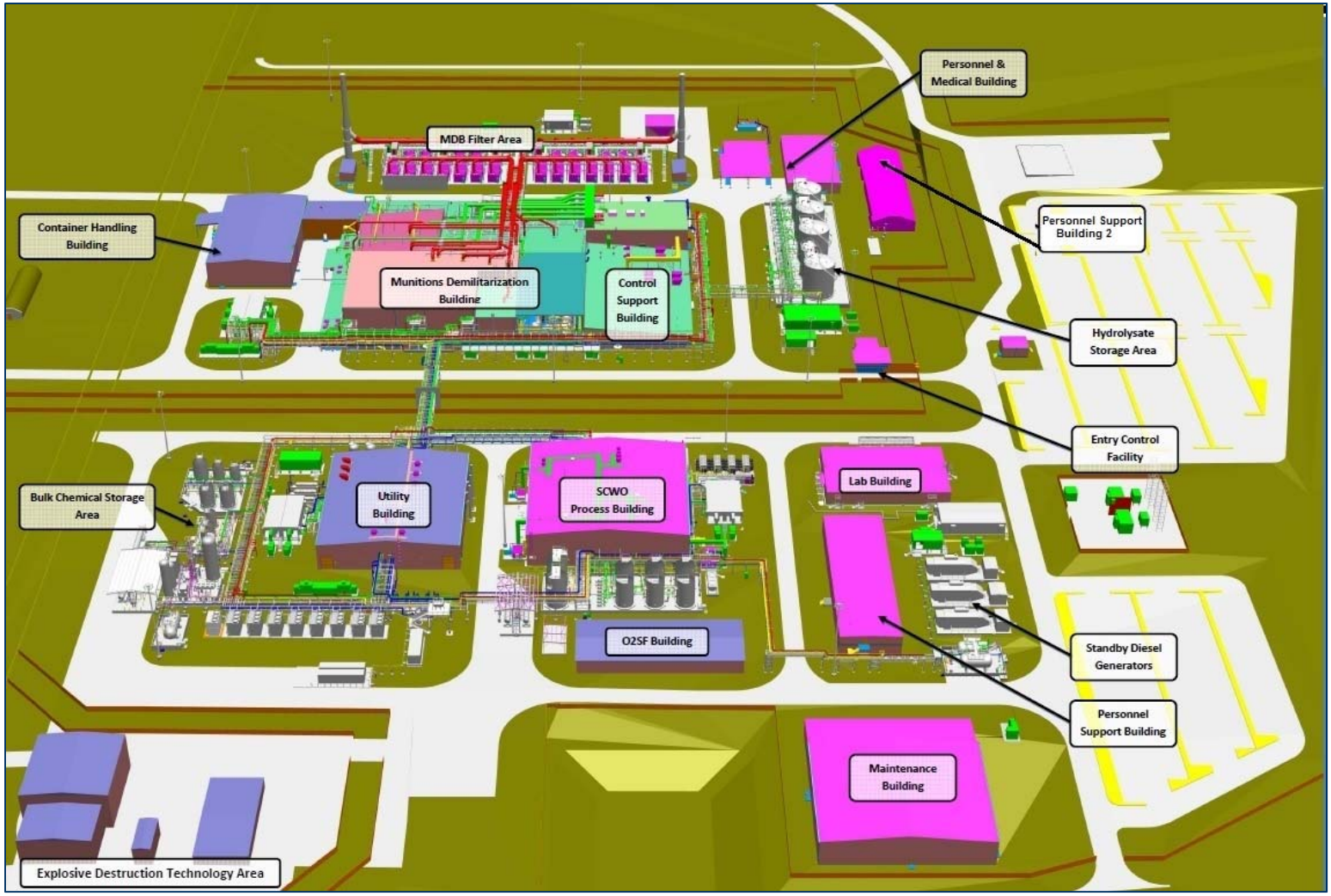

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