



Blue Grass Chemical Agent-
Destruction Pilot Plant

Monthly Status Briefing

August 2011



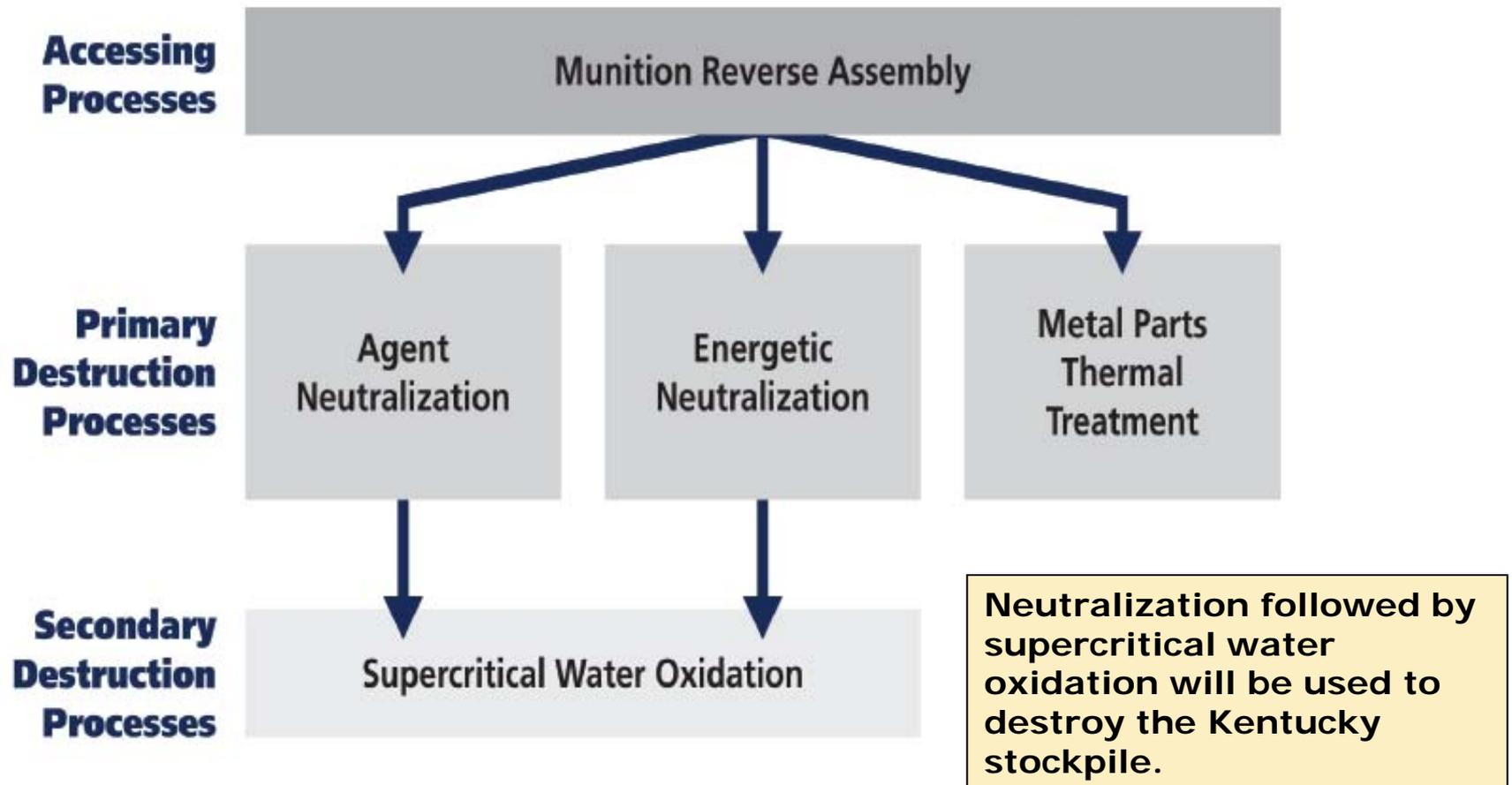
BGCAPP

Project Background

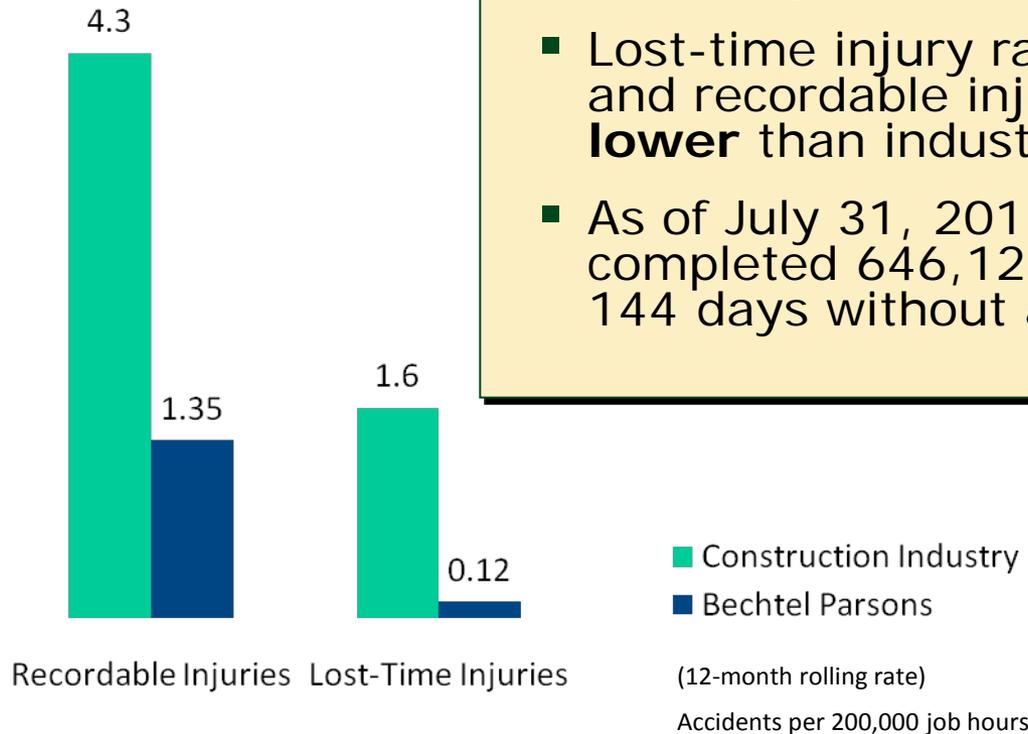
- The Blue Grass Chemical Agent-Destruction Pilot Plant (BGCAPP) will safely destroy 523 tons of chemical agent in rockets and artillery projectiles stored at the Blue Grass Army Depot in Richmond, Ky.
- The technology selected by the Department of Defense to destroy the Blue Grass chemical weapons stockpile is neutralization followed by supercritical water oxidation (SCWO).
- The Assembled Chemical Weapons Alternatives (ACWA) Program, 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 Infrastructure and Technology Group, along with teaming partners URS Corporation, Battelle Memorial Institute, General Atomics and General Physics, is the systems contractor selected to design, build, systemize, pilot test, operate and close the BGCAPP.



Destruction Technology



Safety



- Continued progress toward OSHA Voluntary Protection Program Star Status
- Lost-time injury rate **93 percent lower** and recordable injury rate **69 percent lower** than industry average
- As of July 31, 2011, the project has completed 646,128 hours and 144 days without a lost-time accident.



Current Project Staffing

- **Total project employment—878**
- **Richmond, Ky.—729**
 - Nonmanual—381
 - Craft—348
 - Local hires—52 percent
- **Other locations—149**
 - Pasco, WA
 - San Diego, CA
 - Columbus, OH
 - Frederick, MD



Nearly 350 skilled craft workers, representing 10 building trades, are safely working at the BGCAPP construction site.

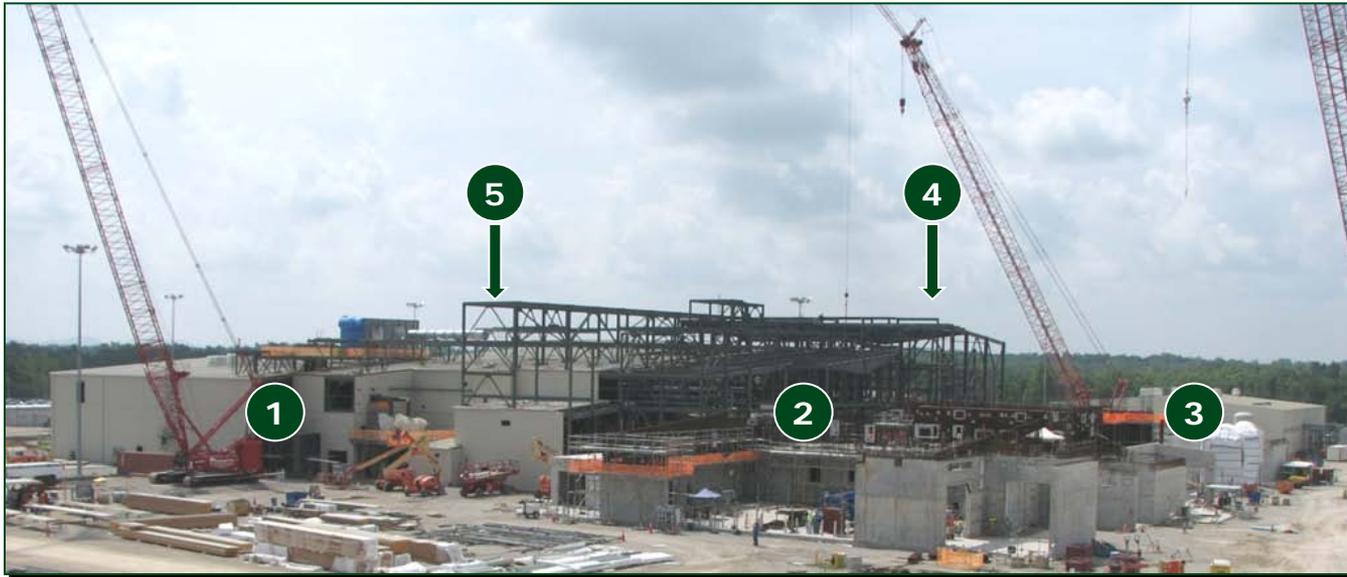
■ Acquisitions to date

- \$73.8 million spent with Kentucky companies
- \$44.4 million spent in Madison and surrounding counties

■ Payroll to date

- \$199 million of local payroll paid
- \$428 million more to be paid remainder of project

Construction Work in Progress



1 Control and Support Building (CSB)

- Metal wall studs and sheet rock
- Electrical, piping and fire detection systems
- Heating, ventilation and air conditioning (HVAC)

3 Utility Building

- Electrical, piping and HVAC systems

2 Munitions Demilitarization Building (MDB)

- First and second lift concrete placements
- Structural steel and wall paneling
- Electrical and piping systems
- Vessels and tanks

4 Supercritical Water Oxidation (SCWO) Building (not visible from photo viewpoint)

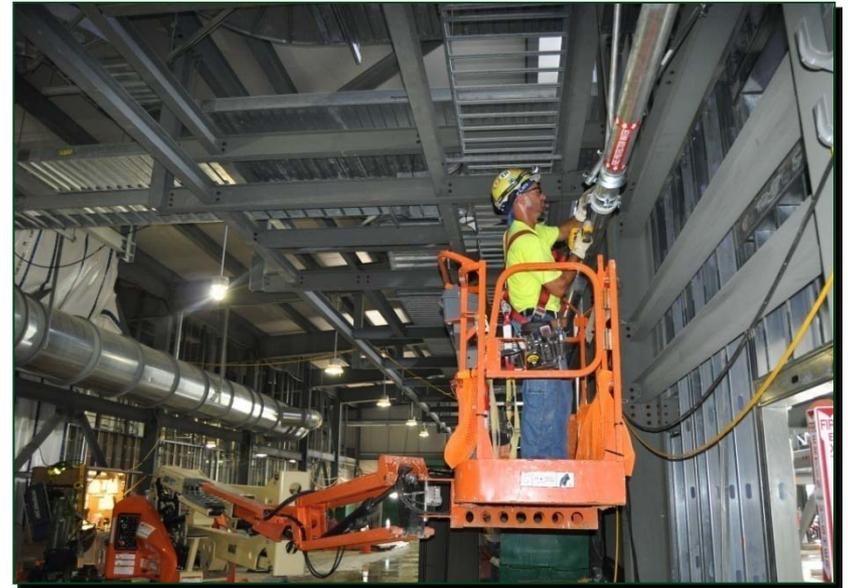
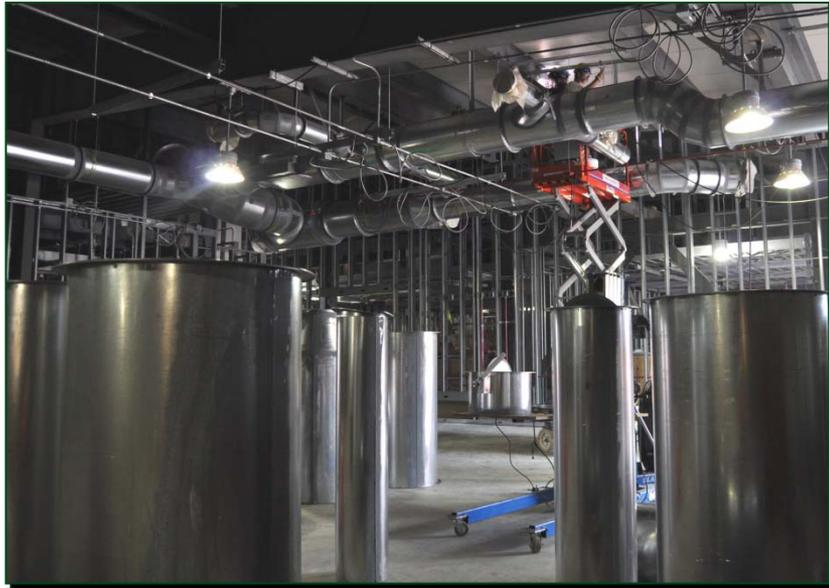
- Structural steel

5 Laboratory Building

(not visible from photo viewpoint)

- Concrete foundation placements

Control and Support Building (CSB)



BGCAPP craft workers (above left) install heating, ventilation and air conditioning (HVAC) ductwork inside the CSB. Meanwhile, elsewhere inside the CSB, craft workers (above right) install fire-protection water piping. Once complete, the CSB will house the control room and integrated control system used to operate BGCAPP.

Munitions Demilitarization Building (MDB)



A BGCAPP construction craft worker (above left) peers inside the corridor of a Metal Parts Treater unit, a piece of Blue Grass Specific Equipment that will thermally decontaminate metal pieces and projectile bodies by heating them to about 1,000 degrees Fahrenheit. The BGCAPP team (above right) recently installed one agent holding tank, one agent surge tank and three spent decontaminant fluid tanks. The MDB is where the chemical weapons will be disassembled, explosives removed and the agent neutralized.

Supercritical Water Oxidation (SCWO) Building



BGCAPP craft workers (above) continued erecting SCWO Building structural steel. The SCWO Building will house the reactors where agent and energetic hydrolysates, byproducts of the neutralization process, will be subjected to very high temperatures and pressures to destroy the hydrolysates' organic content.

Laboratory Building and Utility Building (UB)



At the Laboratory Building, the BGCAPP team (at left) completed the building's first concrete foundation placement. The Laboratory will handle and analyze low concentrations of chemical agent when BGCAPP operations begin.

Recent additions inside the fully-enclosed UB include large water chillers (above). Once complete, the UB will house equipment to produce steam, compressed air, chilled water and hot water for operations.

Blue Grass Chemical Agent-Destruction Pilot Plant

