

# Monthly Status Briefing

*September 2008*



Blue Grass Chemical Agent-  
Destruction Pilot Plant



**BGCAPP**  
Blue Grass Chemical  
Agent-Destruction Pilot Plant

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 technology selected by the Department of Defense to destroy the Blue Grass chemical weapons stockpile is neutralization followed by Super Critical Water Oxidation (SCWO).
- The Program Manager, Assembled Chemical Weapons Alternatives (ACWA), 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 Washington Demilitarization Company, Battelle Memorial Institute, General Atomics and General Physics, is the systems contractor selected to design, build, systemize, pilot test, operate and close the BGCAPP.



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# Significant Safety Milestone



As of 31 August 2008,  
Bechtel Parsons Blue Grass  
employees have worked more than  
**3.2 million job hours**  
without a lost-time injury



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# Current Project Staffing

- **Bechtel Parsons Blue Grass Team currently employs 287 non-manual personnel located as follows:**
  - **Richmond, KY: 219**
  - **Other Locations: 68**
- **Subcontractor and Direct Hire construction workers on site: 146**



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# Acquisitions

- **Subcontracts Awarded by Bechtel Parsons Blue Grass**
- **Total Awards - \$59,735,453**
  - **\$28,902,647 to Local Businesses**
  - **\$4,246,693 to Kentucky Businesses Outside Local Area**
  - **\$26,586,111 to Businesses Outside Kentucky**
- **55% of Awards to Kentucky Businesses**
  - **48% of Awards to Local Businesses**
  - **7% of Awards to Kentucky Businesses Outside Local Area**

As of 31 August 2008



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# Status of Design Packages

## Complete (87%)

- ✓ Munitions Demilitarization Building (MDB)\*
- ✓ Control and Support Building
- ✓ Super Critical Water Oxidation Process Building
- ✓ Laboratory
- ✓ Underground Utilities
- ✓ Access Control Building
- ✓ Gas Mask Storage Building
- ✓ Specifications for subcontracted Maintenance Building and Personnel Support Building

## To go (13%)

- Site Utility Systems (Above ground)
- Hydrolysate Storage Area
- Container Handling Building specification
- MDB Filter Area
- Integrated Control Systems
- Utility Block
- Entry Control Facility
- Standby Diesel Generators

\* Portions of the MDB explosive containment area are being redesigned. The current design approach was selected to remedy constructability challenges associated with placing concrete in heavily reinforced walls. Explosive designs require acceptance by the Department of Defense Explosive Safety Board and the US Army Corps of Engineers. Based on the time needed for collecting additional data to validate the current design, the team will revert to a more traditional design in order to recover schedule.



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# Construction

## Work completed

- **Roadway Concrete/Access Control Building potable water & sewer**
- **Perimeter Fencing and Access Road**
- **Active Security Vehicle Barrier**
- **Access Control Building and Associated Utilities**
- **Temporary electrical substation**
- **Craft Change House**
- **Badging Facility**
- **Canopies for Vehicle Inspection Area at Access Control Building**



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# Construction

## Work in progress or starting soon

- Installation of 138kV electrical substation
- Placing concrete for Control Support Building foundation
- Installing underground utilities
- Personnel Support Building (Futron, Inc.)
- Maintenance Building (WG&T Builders)
- Layout and excavation for Munitions Demilitarization Building non-blast concrete
- Fabrication of Blue Grass-specific equipment



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# Site Overview



**Northwestern Corner - Observation Point**

- 1 Craft Change House
- 2 Personnel Support Building
- 3 Maintenance Building
- 4 Future Control & Support Building
- 5 Future Munitions Demilitarization Building



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# Current Construction



**Workers from WG&T Builders install side and roof panels on the Maintenance Building.**



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# Current Construction



**Modules for the Personnel Support Building are lifted into place by workers from Futron, Inc. The building will initially provide office space for the construction team, and later for the plant operations staff as construction is completed.**



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# Current Construction



A crane (above) lifts a 65-ton component of the 138kV electric substation into place on its concrete pad and workers (right) begin the installation process. The substation will be the main electric power supply to the chemical agent destruction pilot plant.



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# Current Construction



**Placing, leveling and finishing a large concrete pour, as was done here for the Control Support Building, is a dawn-to-dusk process.**

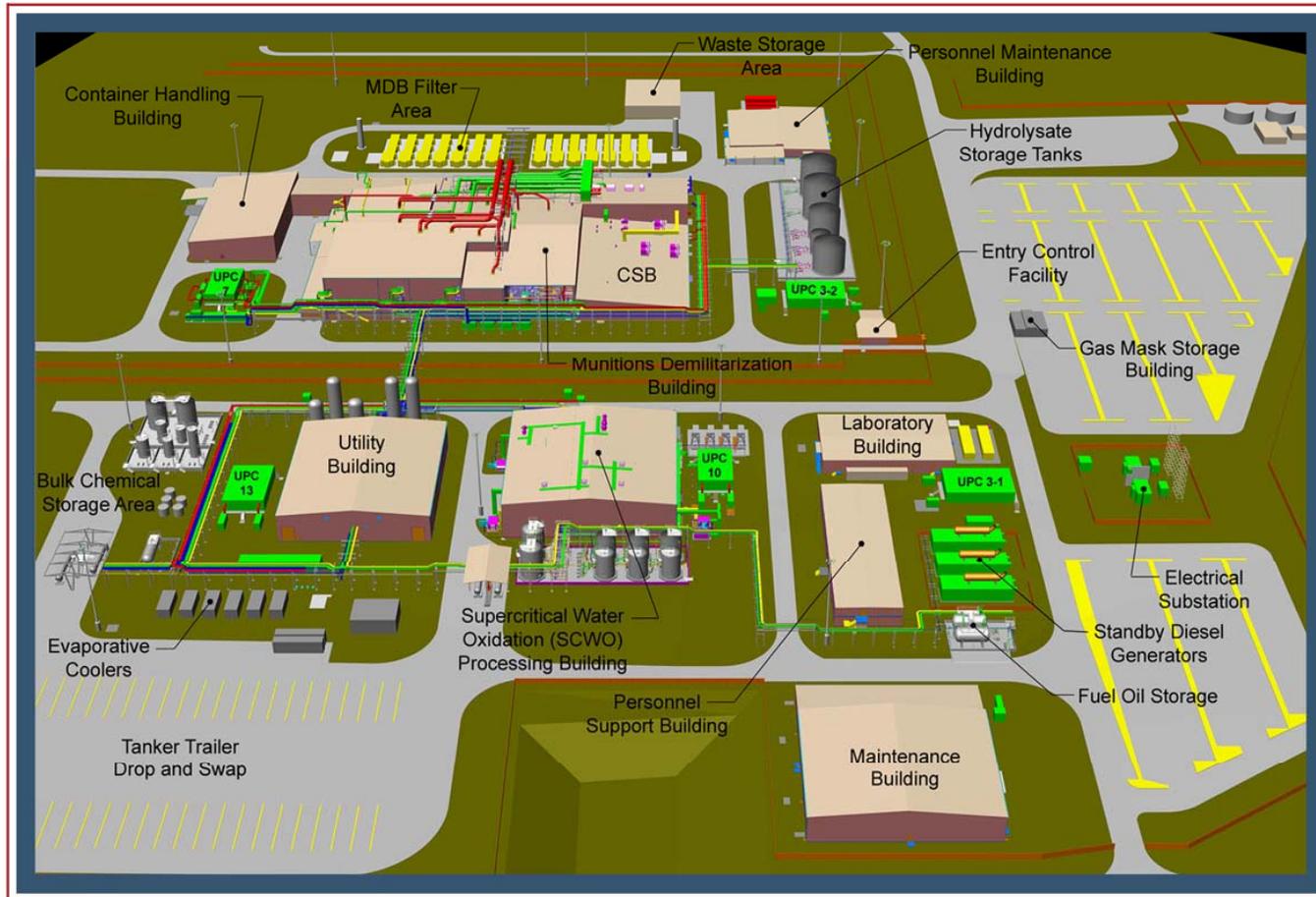


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# Blue Grass Chemical Agent-Destruction Pilot Plant



BGCAPP Site Plan  
January 11, 2008



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