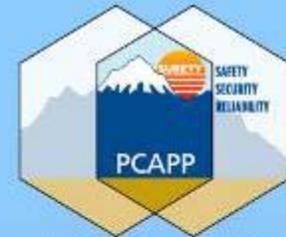


Monthly Status Briefing

August 2010



Pueblo Chemical Agent-Destruction Pilot Plant

PCAPP
Pueblo Chemical
Agent-Destruction Pilot Plant

A PARTNERSHIP FOR SAFE CHEMICAL WEAPONS DESTRUCTION

Project Background



- The Pueblo Chemical Agent-Destruction Pilot Plant (PCAPP) will safely destroy 2,611 tons of mustard agent in mortar rounds and artillery projectiles stored at the U.S. Army Pueblo Chemical Depot.
- Neutralization followed by biotreatment is the technology selected by the Department of Defense to destroy the Pueblo chemical weapons stockpile.
- 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 Colorado and Kentucky.
- The Bechtel Pueblo Team (BPT) is a partnership of Bechtel National, Inc., URS, Parsons, and Battelle Memorial Institute. The BPT functions as the systems contractor selected to design, build, systemize, pilot test, operate, and close the PCAPP.



Bechtel Pueblo Team



Systems Contractor

- Project management
- Business services
- Safety and quality



- Design/engineering
- Procurement/subcontracting
- Construction

Teaming Subcontractors



- Systemization
- Pilot testing
- Operations
- Closure



- Process design
- Process equipment fabrication
- Support to systemization and operations



- Environmental permitting and compliance
- Laboratory management
- Pilot testing



Staffing

- Bechtel Pueblo Team non-manual: **390**
 - Pueblo: 386 (122 local hires)
 - Other locations: 4
- Construction Workers:
 - Bechtel direct-hire craft workers: 401
 - Subcontractor personnel: 87



Pueblo Chemical Agent
Destruction Plant Fund

As of July 31, 2010,
PCAPP Project staff have accomplished:

- 647 Safe Work Days
- 2,375,870 Safe Work Hours



Subcontract Awards

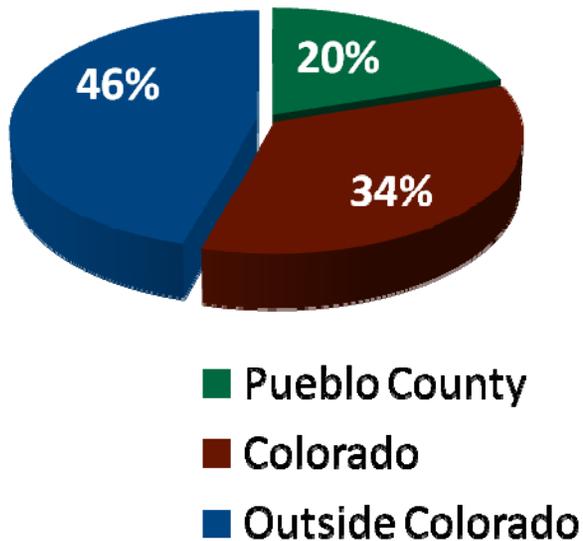
Inception to date, as of July 31

\$392.6 Million

\$78.2 Million to Pueblo County Businesses (20%)

\$135 Million to Colorado Businesses (Outside Pueblo County, 34%)

\$179.4 Million to Businesses Outside Colorado (46%)



Acquisition Awards Status

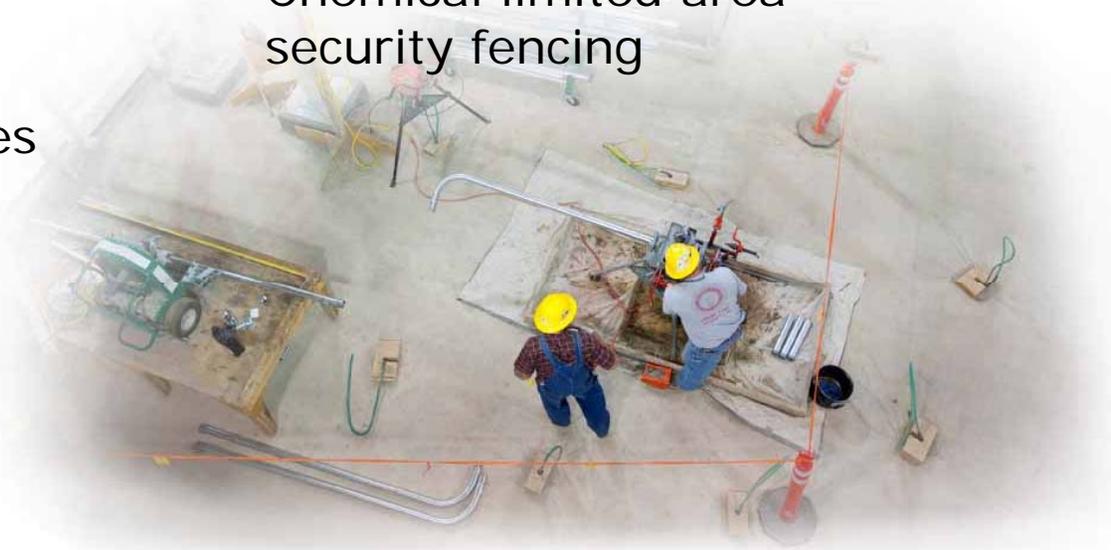
FY 2010 Upcoming Request for Proposals

Materials

- Misc. construction and architectural materials
- Public address/general alarm system
- Tank agitators
- Treaty trailer facilities
- Misc. piping items

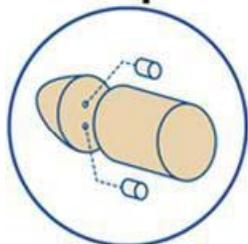
Subcontracts

- Piping equipment and heat tracing
- Enhanced Reconfiguration Building membrane roof liner
- Chemical limited area security fencing



Destruction Technology

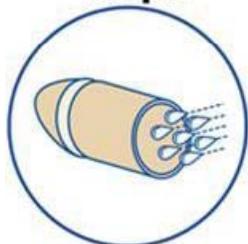
Step 1



REMOVAL OF ENERGETICS

Robotic equipment removes energetics (explosives) from the weapon. The energetics will be disposed of at a permitted facility off site.

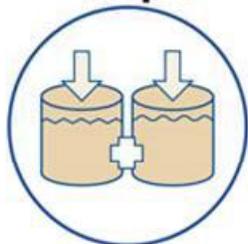
Step 2



REMOVAL OF MUSTARD AGENT

The inside of the weapon is remotely accessed, and mustard agent is washed out with high-pressure water.

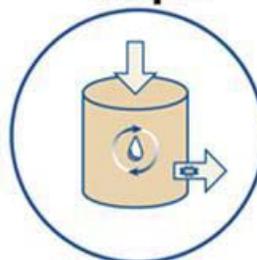
Step 3



NEUTRALIZATION OF MUSTARD AGENT

The mustard agent is neutralized with caustic solution and hot water. The byproduct is called hydrolysate.

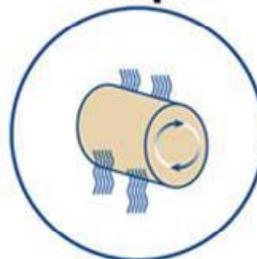
Step 4



BIOTREATMENT

The hydrolysate is treated with microbes that break down the solution into water and biosludge. Water is recycled in the plant, and biosludge is shipped for disposal at a permitted facility.

Step 5

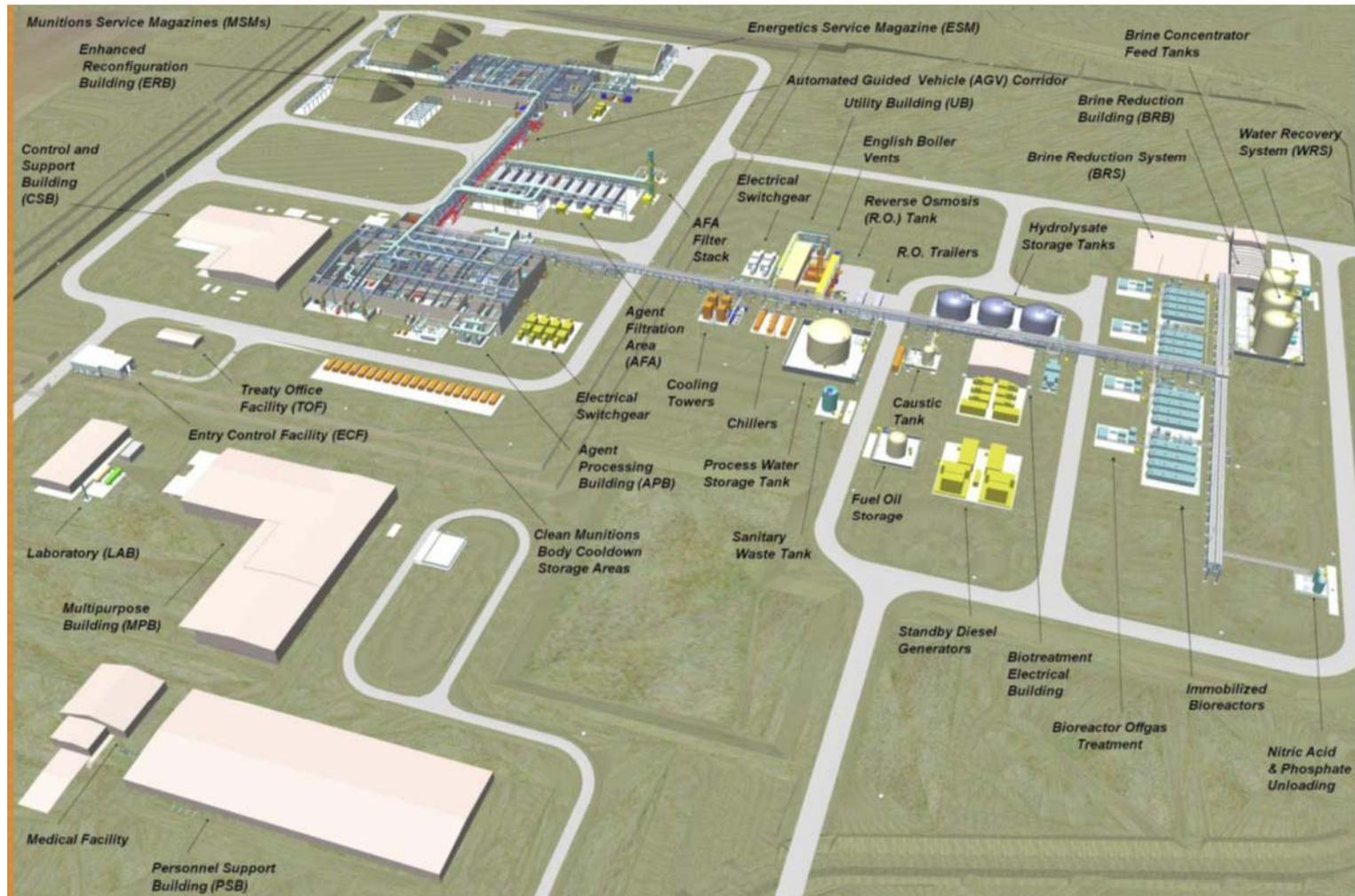


DISPOSAL OF METAL PARTS

Metal parts are heated to 1,000 degrees Fahrenheit for 15 minutes and can then be recycled.

Neutralization followed by biotreatment will be used to destroy the Colorado chemical weapons stockpile.

Pueblo Chemical Agent-Destruction Pilot Plant—Site Plan



PCAPP Site Overview



Northwestern Corner - Observation Point

- 1 Enhanced Reconfiguration Building
- 2 Automated Guided Vehicle Corridor
- 3 Agent Processing Building
- 4 Biotreatment Area
- 5 Air Filtration Area
- 6 Munitions Service Magazine
- 7 Control and Support Building
- 8 Energetics Service Magazine corridor



Construction Status – Complete

- Pre-cast concrete arches for the munitions and energetic service magazines
- Concrete masonry unit walls in the Agent Processing Building
- Entry Control Facility exterior concrete masonry unit walls
- Standby diesel generator foundation
- Immobilized Cell Bioreactor concrete foundation, pads and curbs
- Brine Tank containment walls



Construction Status – In Progress



- **Energetic Service Magazine & Munitions Service Magazines**—backfilling, siding and roofing of corridors
- **Enhanced Reconfiguration Building**—interior composite HVAC (interior and exterior), walls/roof, electrical tray/conduits & equipment set, process piping, mechanical equipment
- **Agent Processing Building**—Misc. platform erection, HVAC, cable tray, process piping, electrical and mechanical equipment, wall/floor coatings & composite walls
- **Balance of Facilities**—cable tray, underground duct banks and supports, pipe rack piping, various mechanical equipment set, misc. concrete equipment foundations, diesel generator assembly, G-block entrance (roads and gates)
- **Subcontractors**—HVAC, fire protection, architectural, coatings, insulation, Chemical Limited Area fencing, membrane roofing
- **Control Support Building**—HVAC, fire protection, interior wall framing, architectural finishes, electrical systems/equipment & fire protection
- **System turnover**—Electrical power distribution system



Agent Processing Building



Empty munitions shells will eventually come out the back of the APB in the cool down storage area.



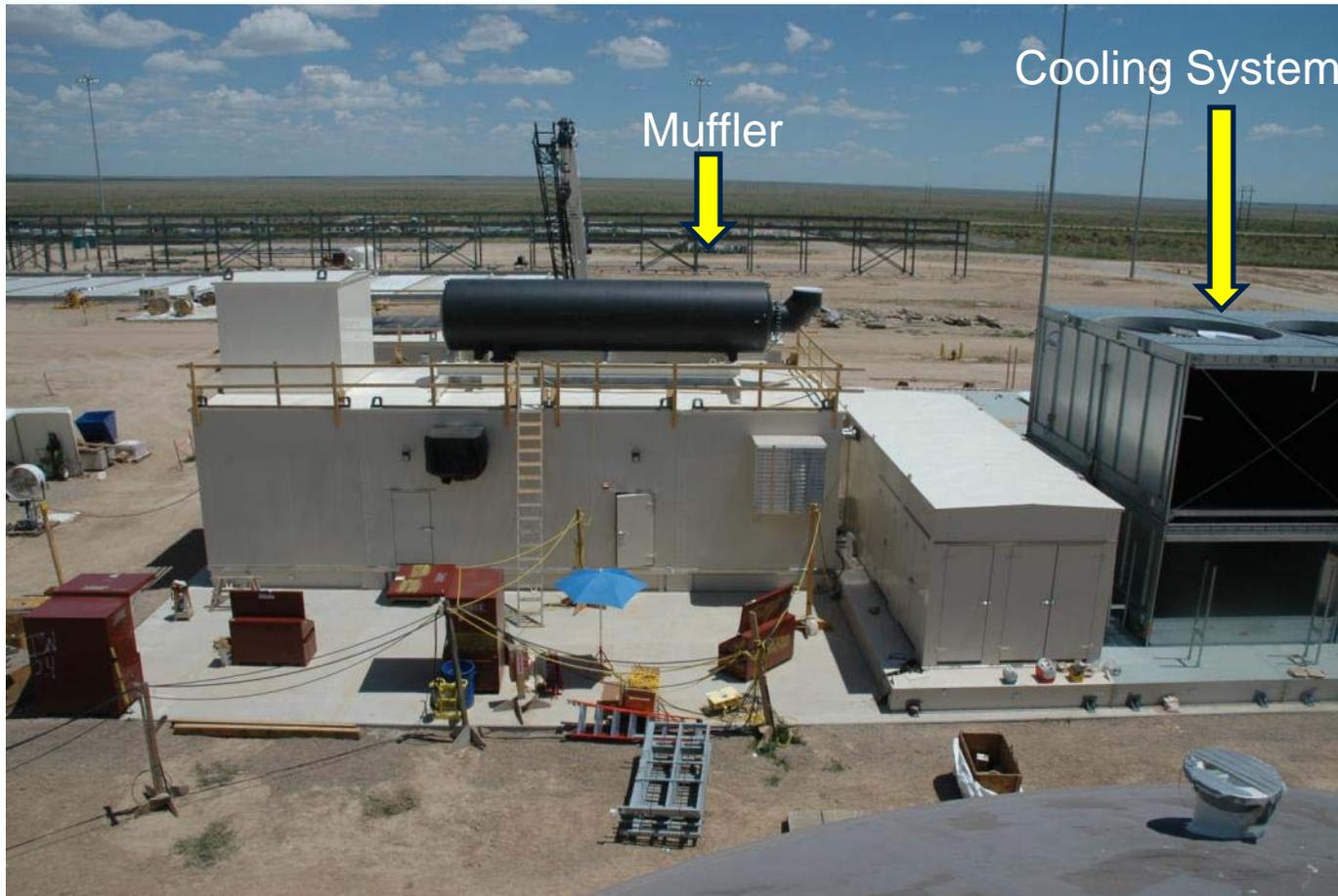
Earthen covered munitions service magazines will provide buffer storage for continuous operations.

Utility Area



Workers unload the standby diesel generator which will provide backup power to PCAPP.

Utility Area



One of two standby diesel generators will be housed inside this structure.

Equipment



Miles of electrical cable await installation in the storage yard.

Contact Information



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U.S. Army Element, Assembled
Chemical Weapons Alternatives

