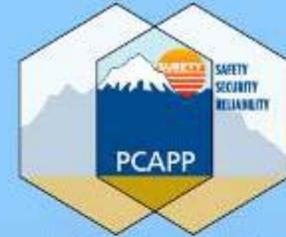


Monthly Status Briefing

June 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



Pueblo Chemical Agent
Destruction Plant Feed

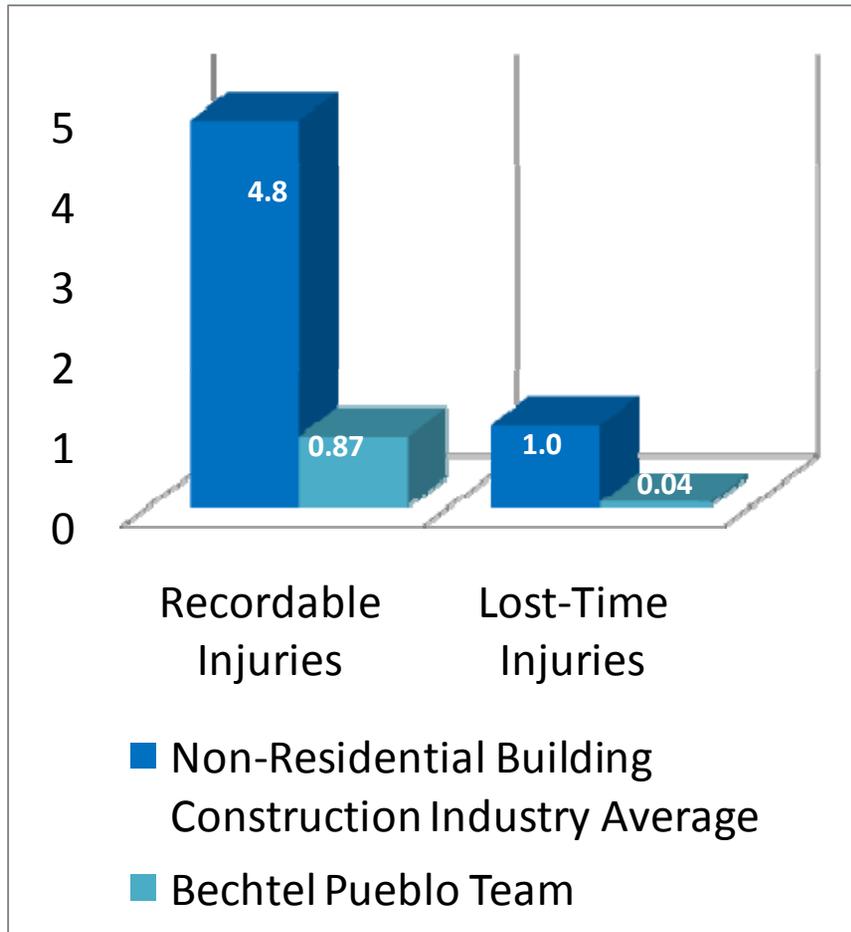
OPSEC Complete 07 June 2010

Staffing

- Bechtel Pueblo Team non-manual: **371**
 - Pueblo: 368 (117 local hires)
 - Other locations: 3
- Construction Workers:
 - Bechtel direct-hire: 310
 - Subcontractor personnel: 93



Safety



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

- 586 Safe Work Days
- 2,064,885 Safe Work Hours



The industry average , provided by the Bureau of Labor Statistics, is based on accidents per 200,000 job hours.

Subcontract Awards

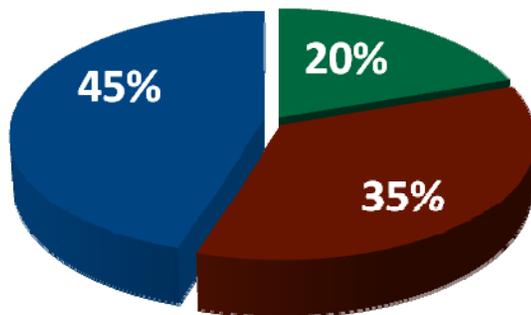
Inception to date, as of May 27

\$386.7 Million

\$ 77.5 Million to Pueblo County Businesses (**20%**)

\$133.4 Million to Colorado Businesses (Outside Pueblo County, **35%**)

\$175.8 Million to Businesses Outside Colorado (**45%**)



-  Pueblo County
-  Colorado
-  Outside Colorado



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

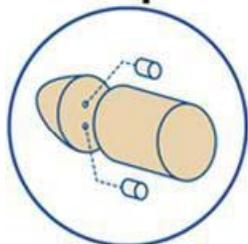
Subcontracts

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



Destruction Technology

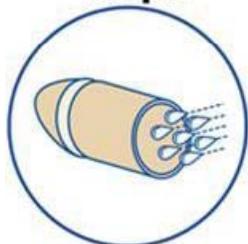
Step 1



REMOVAL OF ENERGETICS

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

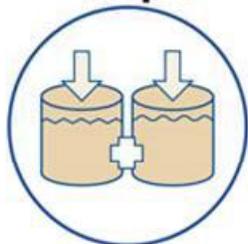
Step 2



REMOVAL OF MUSTARD AGENT

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

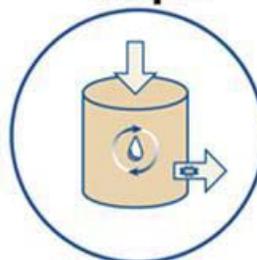
Step 3



NEUTRALIZATION OF MUSTARD AGENT

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

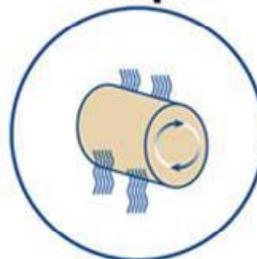
Step 4



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

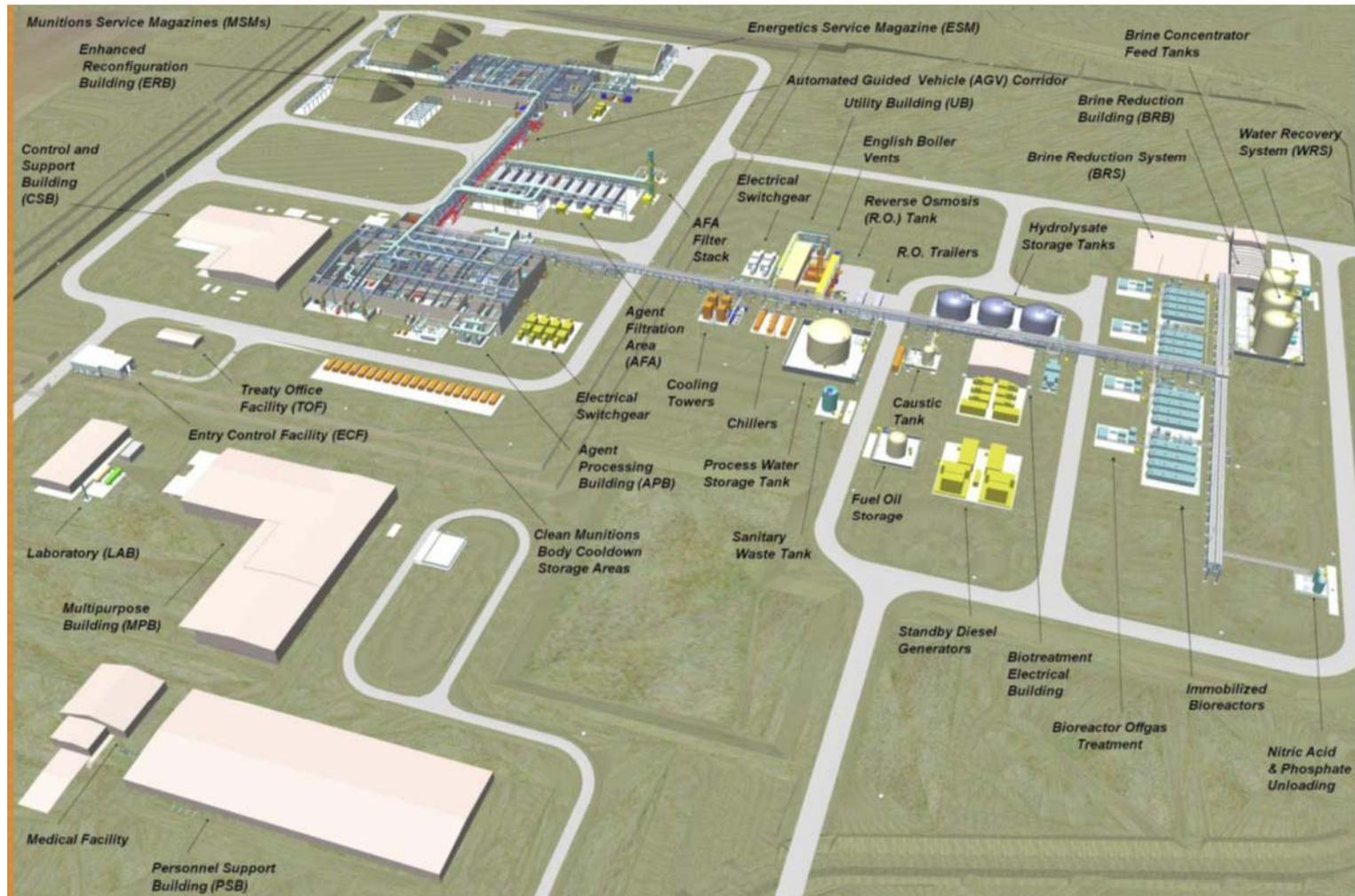


DISPOSAL OF METAL PARTS

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

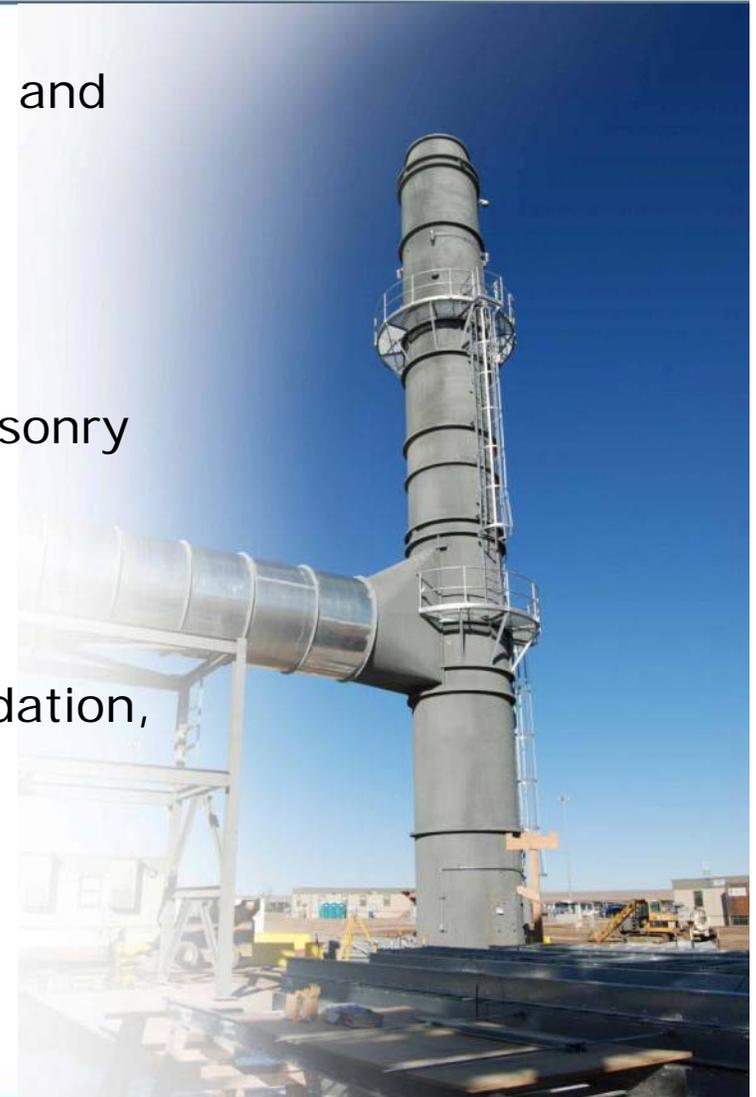


- 1 Enhanced Reconfiguration Building
- 2 Automated Guided Vehicle Corridor
- 3 Agent Processing Building
- 4 Biotreatment Area
- 5 Air Filtration Area
- 6 Munitions Service Magazine
- 7 Control and Support Building
- 8 Energetics Service Magazine



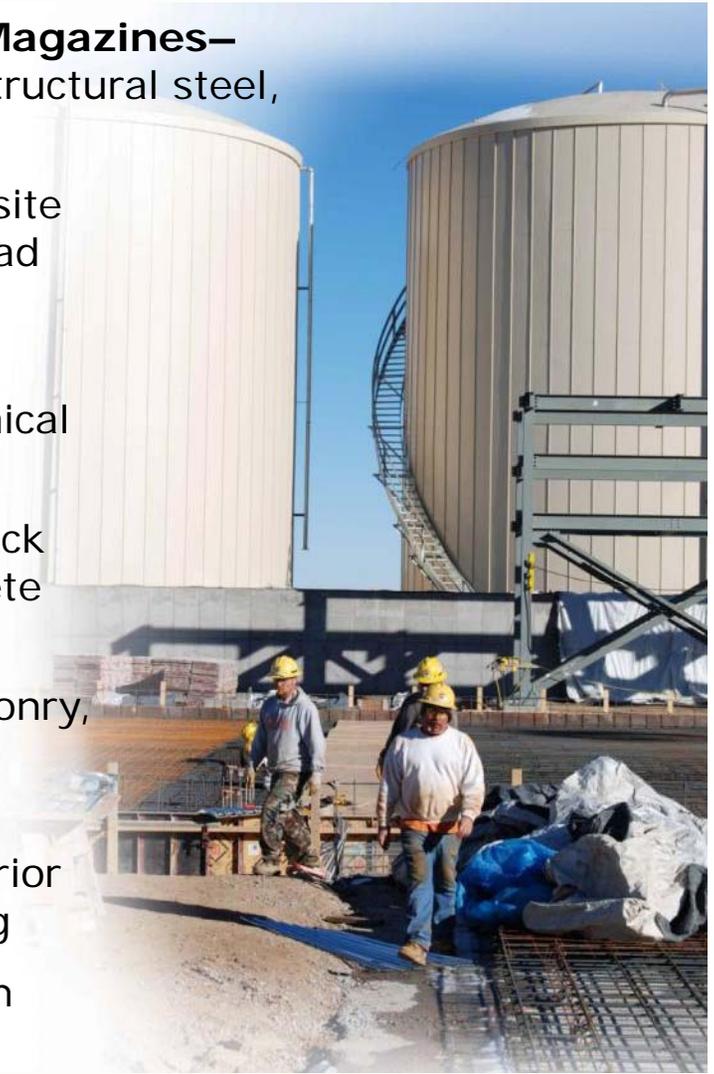
Construction Status – Complete

- 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**—rebar and formwork, backfilling magazine structures, structural steel, siding and roofing
- **Enhanced Reconfiguration Building**—interior composite walls/roof, HVAC, explosion containment rooms overhead crane and rails
- **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 and supports, pipe rack piping, various mechanical equipment set, misc. concrete equipment foundations
- **Subcontractors**—HVAC, fire protection/detection, masonry, architectural, coatings, fire proofing, insulation HVAC, Chemical Limited Area fencing
- **Control Support Building**—HVAC, fire protection, interior wall framing, architectural finishes, interior wall framing
- **System turnover**—Electrical power distribution system



Agent Processing Building



Hydrolysate holding tanks are now surrounded by cable tray, conduit and other support structures.

Enhanced Reconfiguration Building



Fire proofing has been completed in the munitions receiving area and vapor containment rooms. Now, work activity centers around HVAC, electrical tray/conduit, concrete masonry units and piping.

Munitions Service Magazines



Installation of headwall and waterproofing takes place in preparation for earthen cover on the magazine structures.

Automated Guided Vehicle Corridor



The AGV corridor sits between the now enclosed Enhanced Reconfiguration Building and the Agent Processing Building.

Control Support Building



Workers install HVAC in the Control and Support Building. This enclosed structure will house control operators.



Entry Control Facility



Exterior brick work is now complete on the Entry Control Facility.

Agent Filtration Area



Installation of duct work, electrical equipment and tray/conduit continues in the Air Filtration Area.

Contact Information



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U.S. Army Element, Assembled
Chemical Weapons Alternatives

