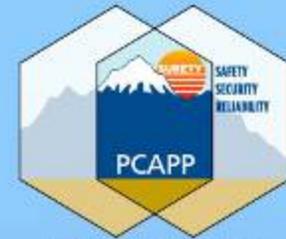


Monthly Status Briefing

November 2009



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 both Colorado and Kentucky.**
- **The Bechtel Pueblo Team, a partnership of Bechtel National, Inc.; Washington Demilitarization Company/URS; Parsons; and Battelle Memorial Institute, is the systems contractor selected to design, build, systemize, pilot test, operate and close 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: 303
 - Pueblo – 298 (92 local hires)
 - Other locations – 5
- Construction Workers:
 - Bechtel direct-hire – 215
 - Subcontractor personnel – 56



Safety



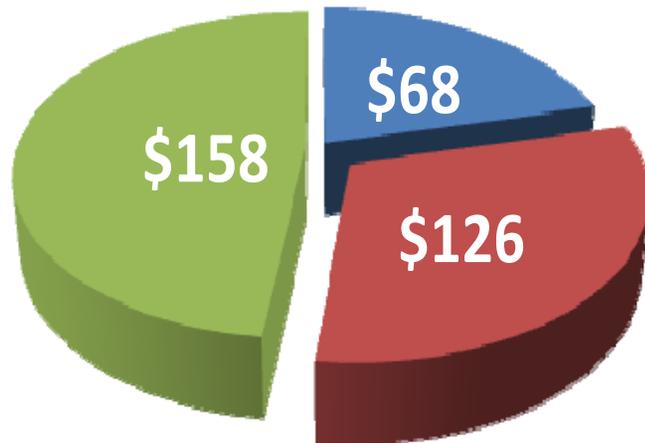
PCAPP employees have now worked more than **1.1 million** job hours without a lost-time injury or illness.

Subcontract Awards

Inception to date, as of Oct. 26

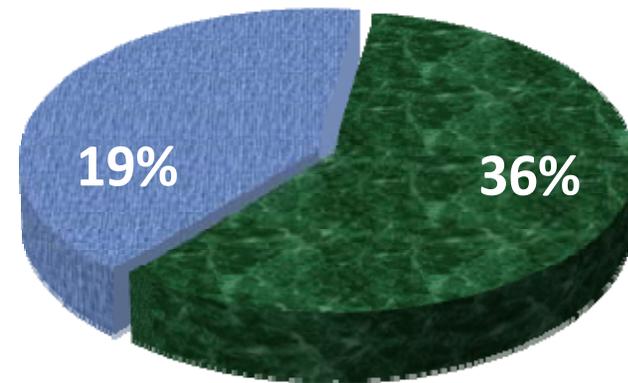
Total Awards by Bechtel Pueblo Team

- Pueblo County Businesses
- Colorado Businesses (outside Pueblo County)
- Businesses outside Colorado



\$ in millions

Awards to Pueblo County and Colorado Businesses



- Pueblo County
- Colorado



Acquisition Awards Status



FY 2010 Upcoming Request for Proposals

Materials

- Misc. Construction & Architectural Materials
- Gypsum Drywall
- Structural Steel
- Misc. Piping Items
- Brine Reduction Building

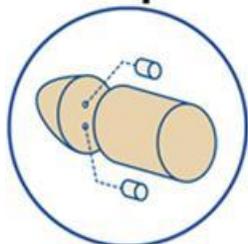
Subcontracts

- Piping Equipment and Heat Tracing
- General Painting
- Laboratory facility



Destruction Technology

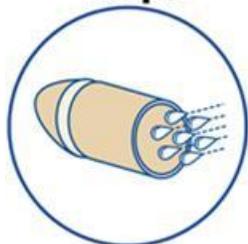
Step 1



REMOVAL OF ENERGETICS

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

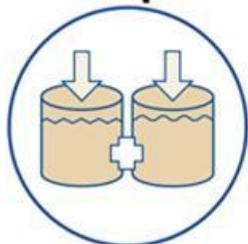
Step 2



REMOVAL OF MUSTARD AGENT

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

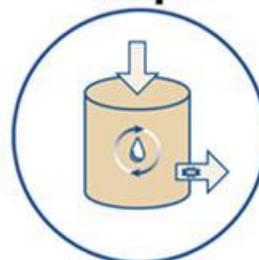
Step 3



NEUTRALIZATION OF MUSTARD AGENT

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

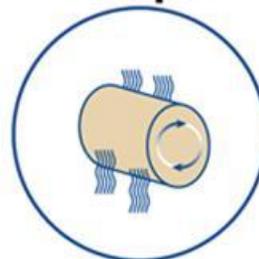
Step 4



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



PCAPP 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



Construction Status – Complete

- Munitions & Energetic service magazine corridor foundations
- Biotreatment electrical building foundation
- Enhanced Reconfiguration Building explosion containment room reinforced concrete structure
- Agent Filtration Area and laboratory building stacks



Construction Status – In Progress

- **Agent Processing Building** – misc. platform erection, siding, roofing, HVAC, cable tray, hi-bay lighting, process piping, electrical and mechanical equipment, interior masonry walls
- **Enhanced Reconfiguration Building** – structural & misc. steel, roof and siding, interior composite walls, HVAC
- **Control Support Building** – structural steel framing, siding & roofing
- **Utility Building** – HVAC, electrical tray/conduit
- **Entry Control Facility** – rebar, framework
- **Field erected tanks** – tank erections, coatings and insulation
- **Standby diesel generator** – rebar, formwork
- **Subcontractors** – HVAC, Fire Protection/detection, Masonry



Enhanced Reconfiguration Building



A Bechtel craftsman works on the Northwest corner of the Enhanced Reconfiguration Building.

Explosion Containment Rooms



Shown from the inside, the explosion containment room has rebar-reinforced concrete floors, walls and roof, varying from two to four feet in thickness.

Automated Guided Vehicle Corridor



The Automated Guided Vehicle corridor will eventually be enclosed and installed with closed-circuit television cameras for close monitoring of the munitions while in transport.

Agent Processing Building



Workers are busy installing various commodities in the Agent Processing Building.



Control Support Building



Structural steel is currently being placed for the Control Support Building, which is adjacent to the Agent Processing Building.



Air Filtration Area



The 86-foot Air Filtration Area filter stack is now in place at the plant.

Biotreatment Area



Insulation panels are being installed on the biotreatment area tanks.

Contact Information



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U.S. Army Element, Assembled
Chemical Weapons Alternatives

