

Monthly Status Briefing

October 2009



Pueblo Chemical Agent-Destruction Pilot Plant

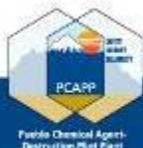
PCAPP
Pueblo Chemical
Agent-Destruction Pilot Plant

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.**



Staffing

Bechtel Pueblo Team non-manual: 305

- Pueblo – 297 (95 local hires)
- Other locations – 8

Construction Workers:

- Bechtel direct hire – 209
- Subcontractor personnel – 47



Safety



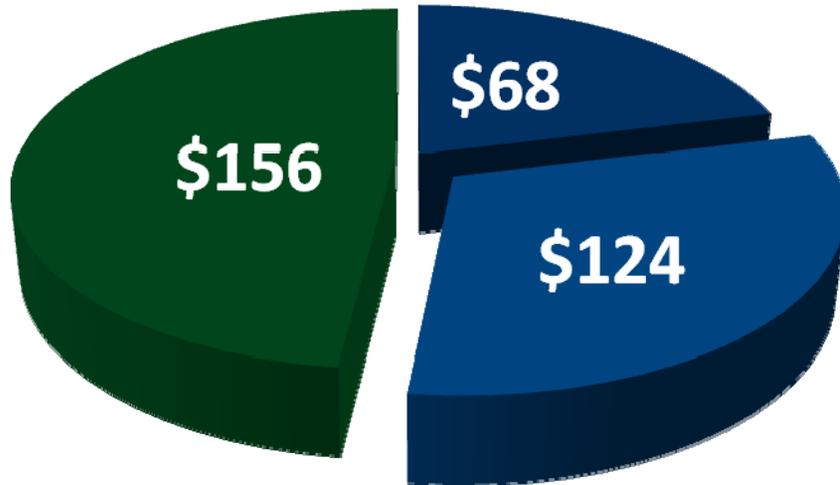
PCAPP employees have now worked more than **1.1 million** job hours without a lost-time injury or illness.

Subcontract Awards

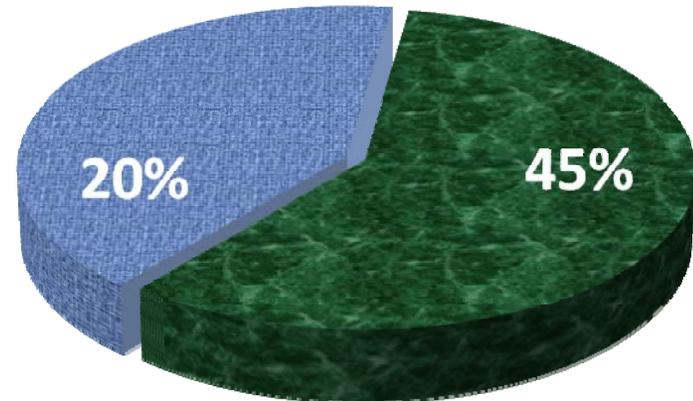
Inception to date, as of Sept. 3

Total Awards by Bechtel Pueblo Team

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



Awards to Pueblo County and Colorado Businesses



■ Pueblo County

■ Colorado



Pueblo Chemical Agent
Destruction Plant Fund

Acquisition Awards Status



FY 2009 Upcoming Request for Proposals

Materials

- Misc. Construction & Architectural Materials
- Gypsum Drywall
- Shop Fabricated Tanks
- Misc. Piping Items
- Brine Reduction Building

Subcontracts

- Piping Equipment and Heat Tracing
- General Painting
- Medical Facility
- Laboratory Facility

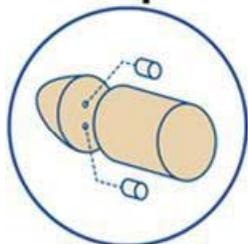


Puget Chemical Agent
Destruction Plant Plant

OPSEC Complete 01 October 2009

Destruction Technology

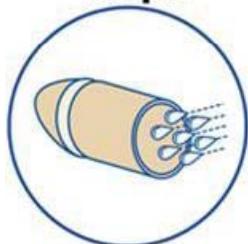
Step 1



REMOVAL OF ENERGETICS

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

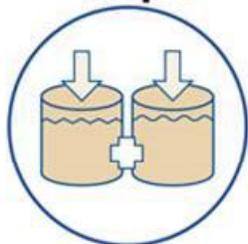
Step 2



REMOVAL OF MUSTARD AGENT

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

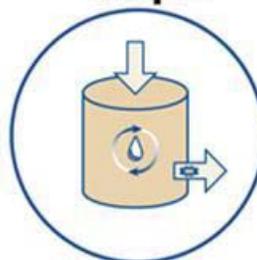
Step 3



NEUTRALIZATION OF MUSTARD AGENT

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

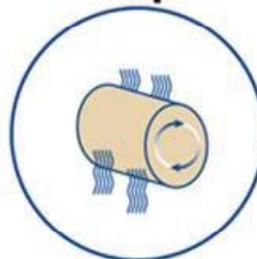
Step 4



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.

Construction Status - Complete

- **Munitions & Energetic service magazine corridor foundations**
- **Enhanced Reconfiguration Building explosion containment room reinforced concrete structure**
- **Automated Guided Vehicle corridor structural steel**
- **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
- **Biotreatment electrical building** – rebar, formwork
- **Control Support Building** – structural steel framing
- **Entry Control Facility** – rebar, formwork
- **Field erected tanks** – tank erections, coatings and insulation
- **Standby diesel generator** – underground duct bank, excavation of foundation



PCAPP Site Overview



Northwestern Corner - Observation Point

- 1 Enhanced Reconfiguration Building
- 2 Automated Guided Vehicle Corridor
- 3 Agent Processing Building
- 4 Biotreatment Area



Enhanced Reconfiguration Building – Topping off ceremony, Sept. 30



Ironworkers (above) and Neal Hall (right), business agent for the Colorado Building and Construction Trades Council, had the honor of signing the last girder before it was placed into position.

Agent Processing Building



The second munition treatment unit was placed in the Agent Processing Building on Sept. 28.



Explosion Containment Rooms



The explosion containment room is constructed of 1,370 cubic yards of concrete and 188 tons of rebar.

Explosion Containment Rooms



Shown from the inside, the explosion containment room has two-foot-thick concrete floors, walls and roof.



Purple Chemical Agent
Destruction Plant



OPSEC Complete 01 October 2009

Automated Guided Vehicle corridor



Bechtel Construction Manager Ed Snatchko, Program Manager Assembled Chemical Weapons Alternatives Kevin Flamm and PCAPP Site Project Manager Gary Anderson stand inside the Automated Guided Vehicle corridor.

Air Filtration Area



At 80 feet high, the Air Filtration Area filter stack changes the landscape of the Pueblo Chemical Agent-Destruction Pilot Plant.



Pueblo Chemical Agent-Destruction Pilot Plant



PCAPP Site Plan



Contact Information



Pueblo Chemical Stockpile Outreach Office

104 West B Street
719-546-0400

Tom Schultz

PCAPP

Public Affairs Specialist

Bob Kennemer

Community Outreach
Manager

Sandy Romero

Bechtel Communications
Manager

U.S. Army Pueblo Chemical Depot

45825 Highway 96 East
719-549-4135

Chuck Sprague

Public Affairs Officer

Ken Roque

Deputy Public Affairs Officer



U.S. Army Element, Assembled
Chemical Weapons Alternatives



Pueblo Chemical Agent
Destruction Plant East

