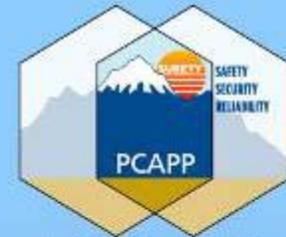


Monthly Status Briefing

September 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: 298

- Pueblo – 290 (92 local hires)
- Other locations – 8

Construction Workers:

- Bechtel direct hire – 223
- Subcontractor personnel – 29

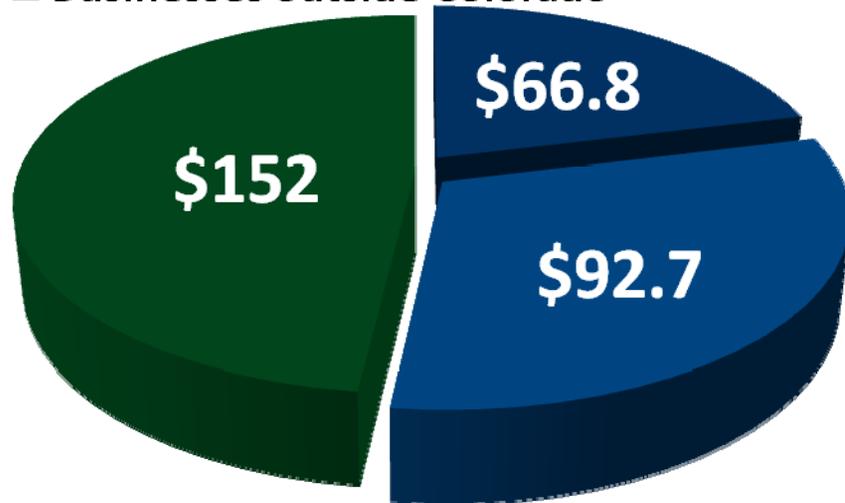


Subcontract Awards

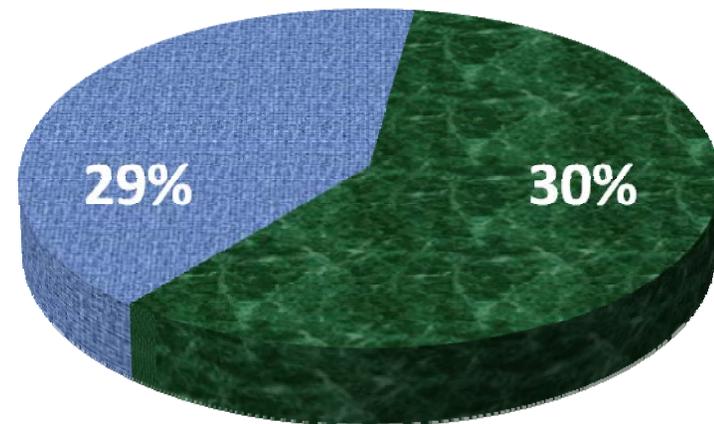
Inception to date, as of August 31

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

Subcontracts

- Piping Equipment and Heat Tracing
- General Painting
- Modular Medical Facility
- Control Support Building Architectural & Plumbing finish work

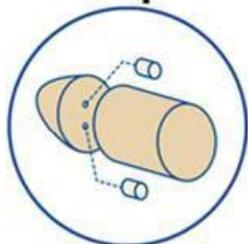
Materials

- Misc. Construction & Architectural Materials
- Gypsum Drywall
- Belt Conveyers
- Pumps
- Pipe Supports



Destruction Technology

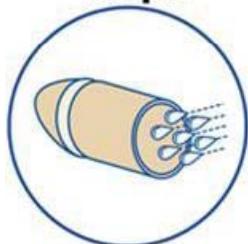
Step 1



REMOVAL OF ENERGETICS

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

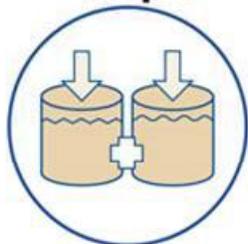
Step 2



REMOVAL OF MUSTARD AGENT

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

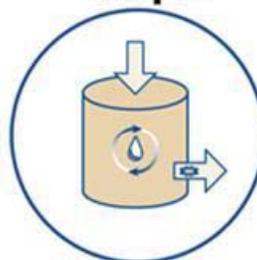
Step 3



NEUTRALIZATION OF MUSTARD AGENT

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

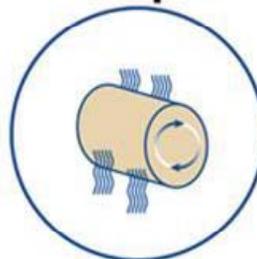
Step 4



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.

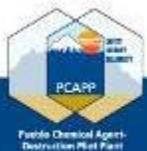
Construction Status - Complete

- **Multipurpose building**
- **Energetics service magazine corridor foundation**
- **Underground infrastructure (utilities)**
- **Switch gear foundation pads**
- **Utility building structure**
- **Agent filtration area, filtration stack and pipe rack foundations**
- **Automated guided vehicle corridor – foundation, curbs/piers, structural steel**
- **Tank foundations**



Construction Status – In Progress

- **Agent Processing Building** – misc. platform erection, siding, roofing, HVAC, cable tray, fire protection, process piping, electrical and mechanical equipment, interior masonry walls
- **Enhanced Reconfiguration Building** – structural, misc. steel, explosion containment room wall elevated slab rebar and formwork, munitions & energetic service magazine corridor structural steel
- **Utility building/boiler houses** – cable tray, HVAC, electrical equipment, piping and structural steel, stacks
- **Biotreatment electrical building** – excavation, underground conduit and rebar; foundation formwork
- **Control Support Building/Entry Control Facility** - excavation, rebar, formwork, and underground utilities
- **Field erected tanks** – tank erections, coatings and insulation
- **Pipe rack** – vertical construction, pipe and cable tray
- **Biotreatment area** – pipe rack and brine tank containment walls, electrical building



PCAPP Site Overview



Northwestern Corner - Observation Point

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



Agent Processing Building



Mustard agent will be destroyed in the recently enclosed neutralization bay.

Agent Processing Building



The munitions body storage room (tan building) is currently under construction.

Enhanced Reconfiguration Building



The munitions service magazine corridor leads the way to the Enhanced Reconfiguration Building.



Explosion Containment Rooms



Over 400 cubic yards of self-consolidating concrete has been placed for the walls of the explosion containment rooms.



Automated Guided Vehicle Corridor



Munitions will travel from the Enhanced Reconfiguration Building to the Agent Processing Building via this corridor.

Biotreatment Area



Work progresses on the utility building switchgear area, shown here in the foreground.



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 Officer

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

Public Affairs Specialist



U.S. Army Element, Assembled
Chemical Weapons Alternatives

