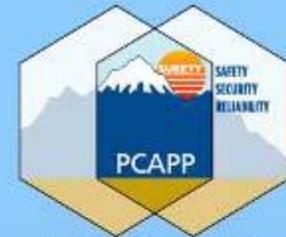


Monthly Status Briefing

December 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.; the EG&G Division of URS Corporation; 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: 320
 - Pueblo – 315 (91 local hires)
 - Other locations – 5
- Construction Workers:
 - Bechtel direct-hire – 218
 - Subcontractor personnel – 64



Safety



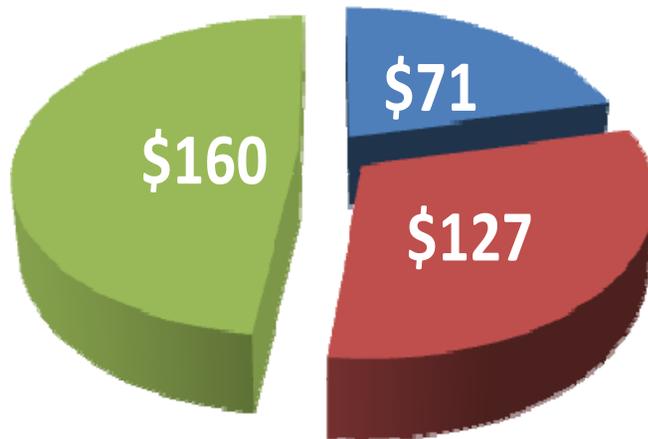
PCAPP employees have now worked more than **1.1 million** job hours without a lost-time injury or illness.

Subcontract Awards

Inception to date, as of Nov. 30

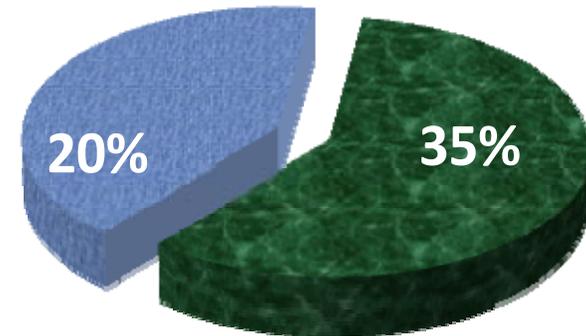
Total Awards by Bechtel Pueblo Team

- 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

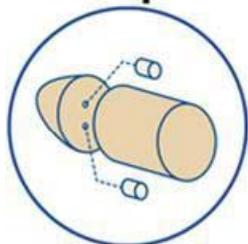
Subcontracts

- Piping Equipment and Heat Tracing
- General Painting



Destruction Technology

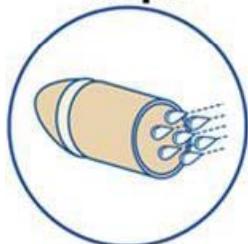
Step 1



REMOVAL OF ENERGETICS

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

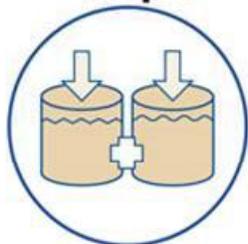
Step 2



REMOVAL OF MUSTARD AGENT

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

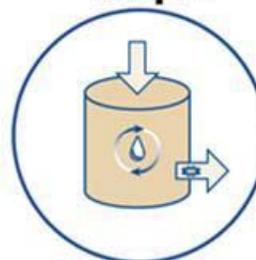
Step 3



NEUTRALIZATION OF MUSTARD AGENT

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

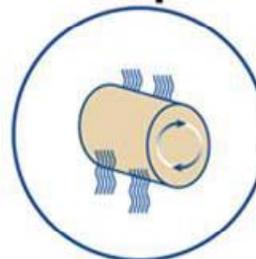
Step 4



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



- 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
- Standby Diesel Generator 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, HVAC, cable tray, hi-bay lighting, process piping, electrical and mechanical equipment, interior masonry walls
- **Enhanced Reconfiguration Building** – misc. steel, siding, interior composite walls, HVAC
- **Biotreatment Electrical Building** – structural steel, siding
- **Entry Control Facility** – rebar, framework, concrete foundation and slabs
- **Field erected tanks** – tank erections, coatings and insulation
- **Immobilized Cell Bioreactors & Offgas Pads** – excavation, filter stone, rebar, formwork
- **Subcontractors** – HVAC, Fire Protection/detection, Masonry, Architectural
- **Energetics Service Magazine and Munitions Service Magazines** – rebar, formwork, concrete foundations, precast panels erection
- **Control Support Building** – HVAC, fire protection, interior wall framing



Enhanced Reconfiguration Building



Munitions will be received inside the traveling and receiving area of the Enhanced Reconfiguration Building.

Explosion Containment Rooms



The Explosion Containment Rooms will house the Projectile/Mortar Disassembly System, which is undergoing testing at Anniston, Alabama.



Automated Guided Vehicle Corridor



Citizens' Advisory Commission members Terry Hart (left) and Irene Kornelly (center) tour the site with Bechtel Construction Manager Ed Snatchko (right).

Agent Processing Building



The agent/water separators are surrounded by cable trays that will carry power and other utilities to the Agent Processing Building and its many processing tanks.



Control Support Building



Workers install siding and roofing on the Control and Support Building. Employees will operate robotic equipment in this building.

Biotreatment Area



Installation of all 12 Biotreatment Area tanks, including the 800,000 gallon Process Water Tank, is targeted for completion by the end of the year.



Contact Information



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U.S. Army Element, Assembled
Chemical Weapons Alternatives

