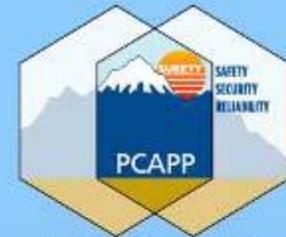


Monthly Status Briefing

January 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 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: 327
 - Pueblo – 322 (93 local hires)
 - Other locations – 5
- Construction Workers:
 - Bechtel direct-hire – 219
 - Subcontractor personnel – 79



Safety



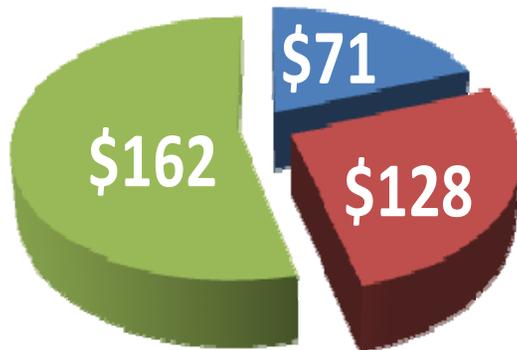
PCAPP employees have now worked more than **1.2 million** job hours without a lost-time injury or illness.

Subcontract Awards

Inception to date, as of Dec. 31

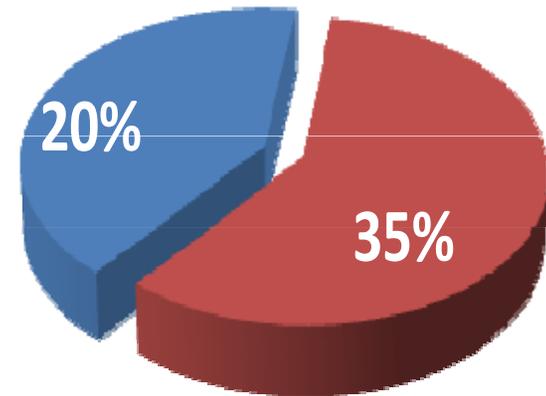
Total Awards by Bechtel Pueblo Team

- 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



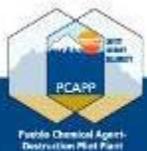
FY 2010 Upcoming Request for Proposals

Materials

- Misc. construction & architectural materials
- Structural trenches & sumps
- Process heater & cooler
- Centrifugal pumps
- Misc. piping items

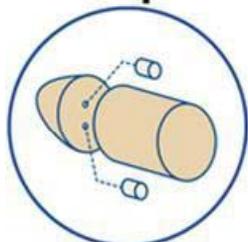
Subcontracts

- Piping equipment and heat tracing
- Enhanced Reconfiguration Building membrane roof liner
- Chemical Limited Area security fencing



Destruction Technology

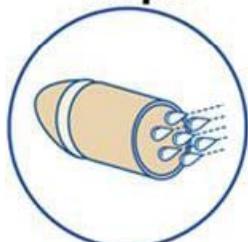
Step 1



REMOVAL OF ENERGETICS

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

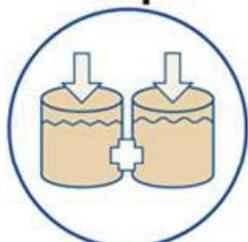
Step 2



REMOVAL OF MUSTARD AGENT

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

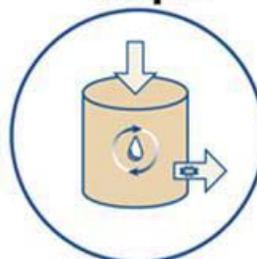
Step 3



NEUTRALIZATION OF MUSTARD AGENT

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

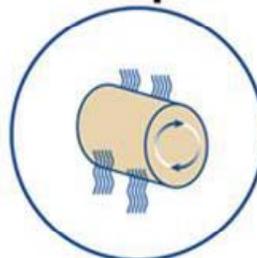
Step 4



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

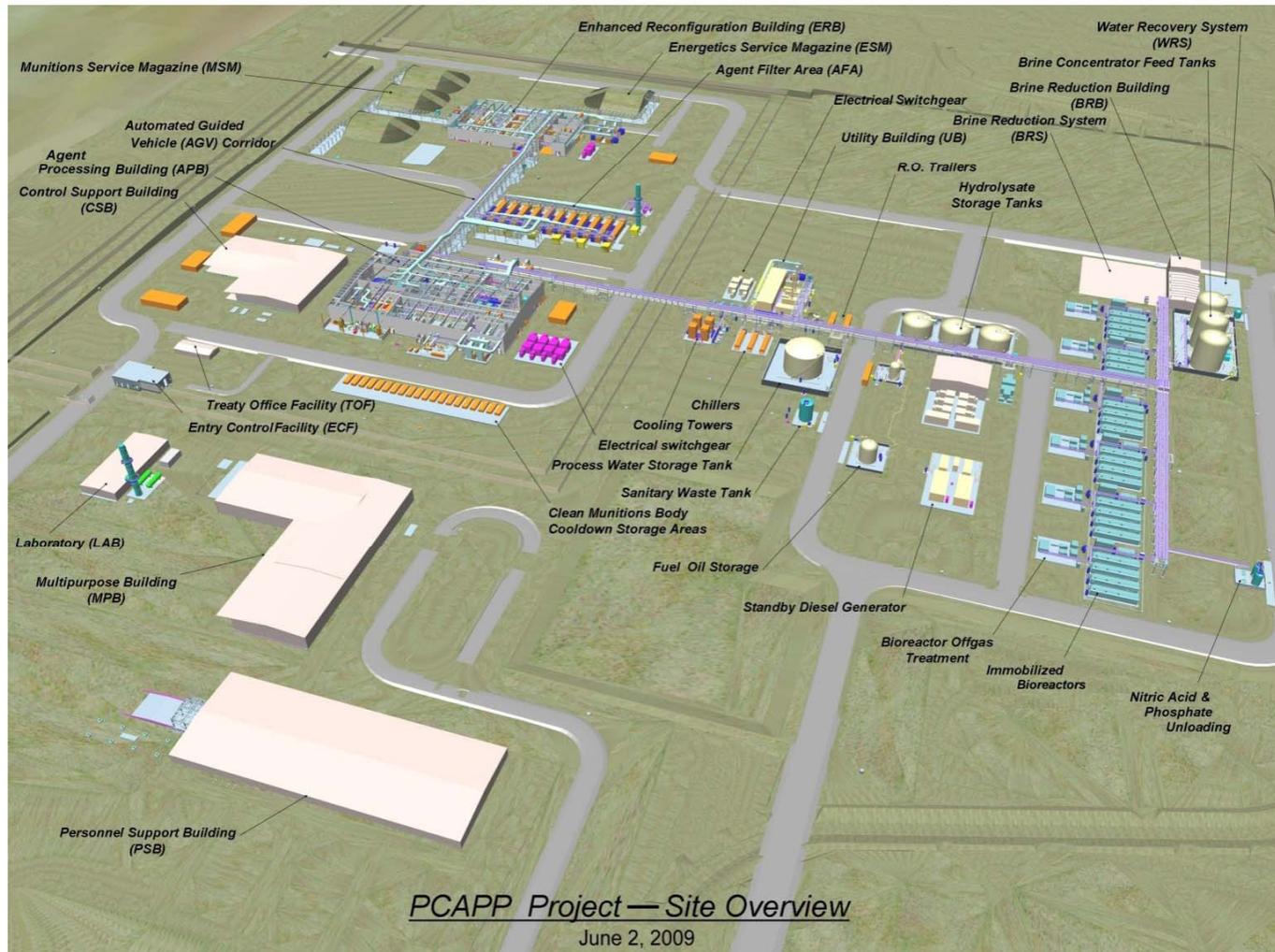


DISPOSAL OF METAL PARTS

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



Northwestern Corner - Observation Point

- 1 Enhanced Reconfiguration Building
- 2 Automated Guided Vehicle Corridor
- 3 Agent Processing Building
- 4 Biotreatment Area
- 5 Air Filtration Area
- 6 Multi-purpose Building
- 7 Control and Support Building



Construction Status – Complete

- Munitions & Energetic service magazine and corridor foundations
- Biotreatment electrical building foundation
- Standby Diesel Generator foundation
- Enhanced Reconfiguration Building explosion containment room reinforced concrete structure
- Control and Support Building siding and roof



Construction Status – In Progress

- **Agent Processing Building** – misc. platform erection, HVAC, cable tray, process piping, electrical and mechanical equipment, interior masonry & composite walls
- **Enhanced Reconfiguration Building** – misc. steel, siding, interior composite walls, HVAC
- **Control Support Building** – HVAC, fire protection, interior wall framing
- **BEB Building** – structural steel, siding
- **Entry Control Facility** – concrete slabs
- **Field Erected Tanks** – coatings and insulation
- **Immobilized Cell Bioreactor & Offgas Pads** – excavation, rebar, formwork
- **Subcontractors** – HVAC, Fire Protection/detection, Masonry, Architectural
- **ESM & MSM Magazines** – precast panels erection



Enhanced Reconfiguration Building



Work continues in the Enhanced Reconfiguration Building with installation of HVAC and interior composite walls.

Agent Filtration Area



All 10 filter units (two are back up), are in place in the Agent Filtration Area.



Purple Chemical Agent
Destruction Plant Feed



OPSEC Complete 06 January 2010

Biotreatment Area



Workers install foundation mats for the Immobilized Cell Bioreactors. The Brine Concentrator Feed Tanks are pictured in the background.



Biotreatment Area



Three hydrolysate storage tanks await primer. The tanks can hold over 285,000 gallons each.

Agent Processing Building



Two 90-foot Munitions Treatment Units are in place in the now fully enclosed Agent Processing Building.



Control and Support Building



Siding is up on the Control and Support Building, allowing workers to install HVAC, fire protection and frame the interior walls.



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

