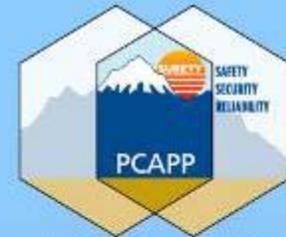


Monthly Status Briefing

September 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 (PCD).
- 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 Colorado and Kentucky.
- The Bechtel Pueblo Team (BPT) is a partnership of Bechtel National, Inc., URS, Parsons, and Battelle Memorial Institute. The BPT functions as the systems contractor selected to design, build, systemize, pilot test, operate, and close the 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

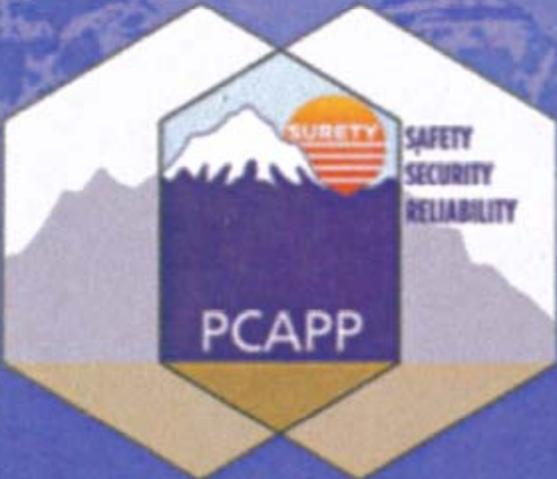


Staffing

- Bechtel Pueblo Team non-manual: **388**
 - Pueblo: 383 (123 local hires)
 - Other locations: 5
- Construction Workers:
 - Bechtel direct-hire craft workers: 366
 - Subcontractor personnel: 99



Employment Opportunities



Pueblo Chemical Agent-Destruction Pilot Plant

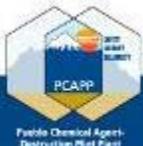
Employment Opportunities

Hotline
(719) 549-4003

Website
<http://pueblo.bechtel.com>

Pueblo Chemical Agent
Destruction Pilot Plant

"A Partnership for Safe Chemical Weapons Destruction."



As of August 31, 2010,
PCAPP Project staff have accomplished:

- 678 Safe Work Days
- 2,518,925 Safe Work Hours



Subcontract Awards

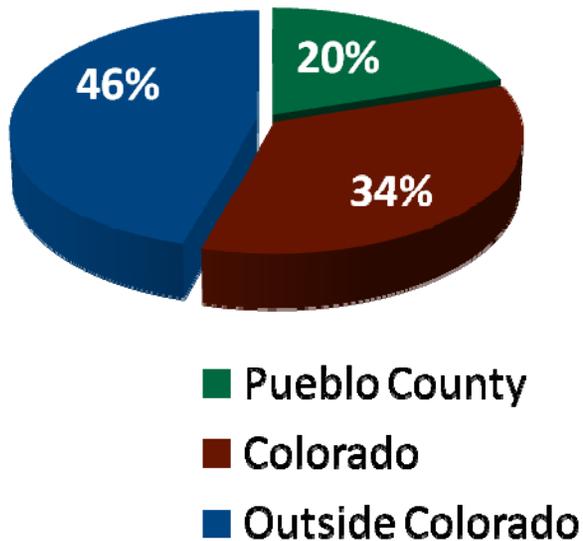
Inception to date, as of August 31

\$401.9 Million

\$78.4 Million to Pueblo County Businesses (20%)

\$136.3 Million to Colorado Businesses (Outside Pueblo County, 34%)

\$187.2 Million to Businesses Outside Colorado (46%)



Acquisition Awards Status

FY 2010 Upcoming Request for Proposals

Materials

- Misc. construction and architectural materials
- Public address/general alarm system
- Tank agitators
- Treaty trailer facilities
- Misc. piping items

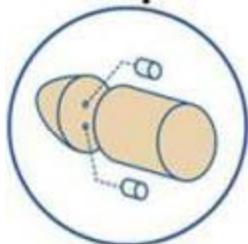
Subcontracts

- Piping equipment and heat tracing
- Enhanced Reconfiguration Building membrane roof liner
- Chemical limited area security fencing



Destruction Technology

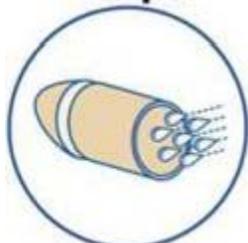
Step 1



REMOVAL OF ENERGETICS

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

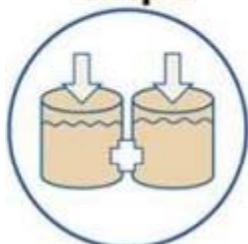
Step 2



REMOVAL OF MUSTARD AGENT

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

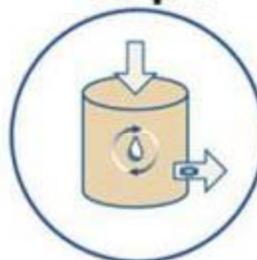
Step 3



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

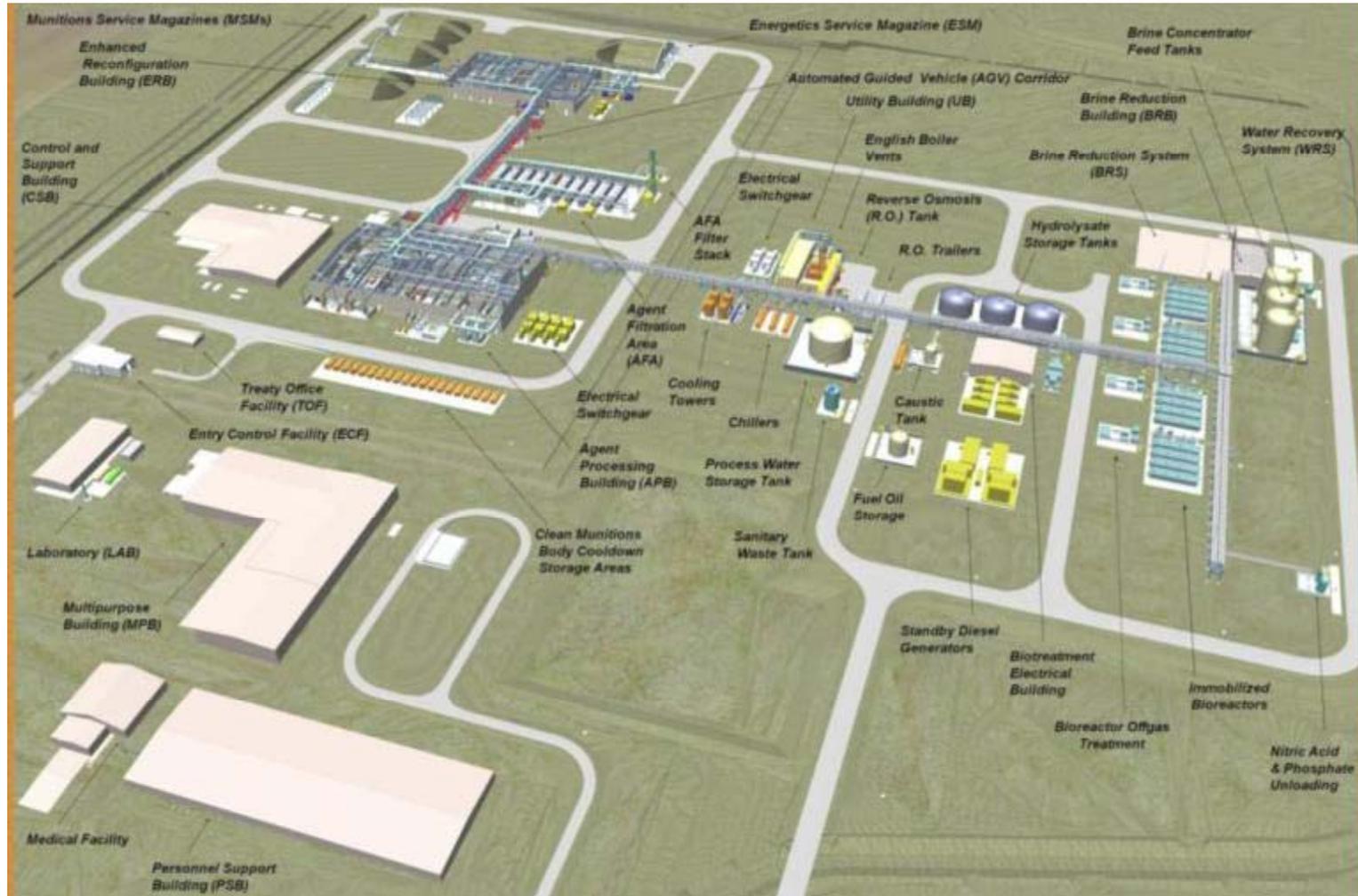


DISPOSAL OF METAL PARTS

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 Munitions Service Magazine
- 7 Control and Support Building
- 8 Energetics Service Magazine corridor



Construction Status – Complete

- Earth cover on munitions service magazines
- G-block fence/gates modification
- Agent Filtration Area filter houses/vestibules and duct work
- Concrete masonry unit walls in the Agent Processing Building
- Entry control Facility exterior concrete masonry unit walls and concrete roof
- Standby diesel generator assembly
- Immobilized Cell Bioreactor concrete foundation, pads and curbs



Construction Status – In Progress



- **Energetic Service Magazine & Munitions Service Magazines**—backfilling, siding and roofing of corridors
- **Enhanced Reconfiguration Building**—interior composite HVAC (interior and exterior), walls/roof, electrical tray/conduits & equipment set, process piping, mechanical equipment
- **Agent Processing Building**—Misc. platform erection, HVAC, cable tray, process piping, electrical and mechanical equipment, wall/floor coatings & composite walls
- **Balance of Facilities**—cable tray, underground duct banks and supports, pipe rack piping, various mechanical equipment set, misc. concrete equipment foundations, diesel generator assembly
- **Subcontractors**—HVAC, fire protection, architectural, coatings, insulation, Chemical Limited Area fencing, membrane roofing



Construction Status—In Progress (cont.)



- **Control Support Building**—HVAC, architectural finishes, electrical systems/equipment & fire protection
- **Entry Control Facility**—Bullet-resistant doors and windows
- **Medical & Lab Facilities**—Set modular units, underground utilities, grading and roadways
- **Biotreatment Electrical Building**—HVAC, electrical equipment/tray/conduit
- **Biotreatment Area**—Setting of equipment (Immobilized Cell Bioreactors, tank skids, Brine Reduction System excavation/foundations)
- **System turnover**—Electrical power distribution system



Immobilized Cell Bioreactors



The first of 16 Immobilized Cell Bioreactors made its way to the PCAPP site's Biotreatment Area on Aug. 24.

VIP Visit



Dr. A. Tom Hopkins (right), deputy assistant to the Secretary of Defense (Threat Reduction and Arms Control), visited the PCAPP site in August. He is shown here with Ed Snatchko (left), BPT construction manager. Pictured in the background, from left : Carmen Spencer, deputy assistant Secretary of the Army (Elimination of Chemical Weapons); Joe Novad, ACWA deputy program manager; Scott Susman, PCAPP acting site project manager; and Lt. Col. Rob Wittig, PCD commander.



Utility Area



The Munitions Service Magazine corridors are now almost fully enclosed.

Agent Processing Building



Workers continue to work in the Agent Processing Building. The large tank shown is the Breathing Air Receiver.

Control and Support Building



Chemical Limited Area Fencing surrounds the Entry Control Facility (ECF). The ECF will be the main entrance in to the Chemical Limited Area.

Enhanced Reconfiguration Building



Interior HVAC and process piping is being installed in the Enhanced Reconfiguration Building.

Contact Information



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Ken Roque

Deputy Public Affairs Officer



U.S. Army Element, Accredited
Chemical Weapons Activities

