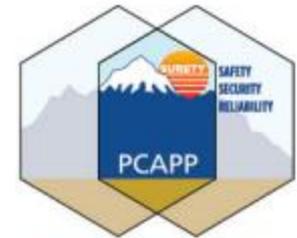


Monthly Status Briefing

November 2014



Pueblo Chemical Agent-Destruction Pilot Plant



Program Executive Office
Assembled Chemical Weapons Alternatives



PCAPP

Pueblo Chemical Agent-Destruction Pilot Plant

www.peoacwa.army.mil



A PARTNERSHIP FOR SAFE CHEMICAL WEAPONS DESTRUCTION

Project Background



The Program Executive Officer, 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.



Pueblo Chemical Agent-
Destruction Pilot Plant

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 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.



Staffing



Bechtel Pueblo Team:
1,139

- Pueblo County local hires: 320
- Colorado hires (outside Pueblo County): 82
- From other locations: 737

Employment Opportunities



Hotline

(719)549-4003

Website

<http://pueblo.bechtel.com>

As of October
31, 2014, PCAPP
staff
accomplished:

919

Safe Work Days*

5,438,040

Safe Work Hours



* Last Lost Time occurred on April 26, 2012

Step 1



Removal of Energetics

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

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

Microbes treat the hydrolysate, breaking it down into brine. The brine is separated with water being recycled back to the plant and salt cakes shipped for disposal at a permitted facility.

Step 5



Thermal Treatment and 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.

Explosive Destruction System

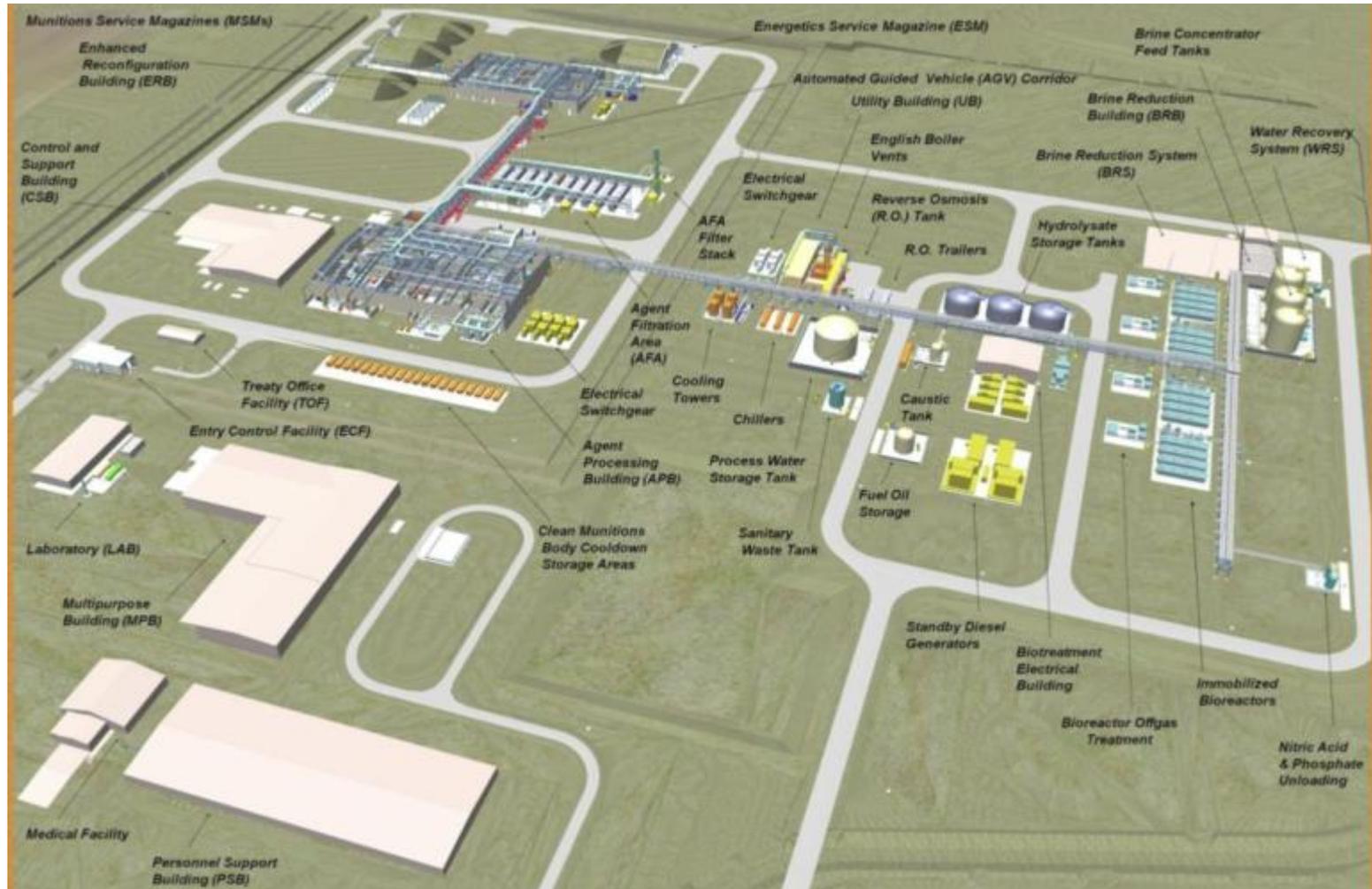


- The Army's Explosive Destruction System (EDS) will augment the Pueblo pilot plant's automated destruction technology
- EDS will be used to destroy problematic munitions that are unsuited for automated processing

- EDS uses explosive “cutting” charges to access the chemical agent inside a munition; neutralization chemicals are then added to destroy the chemical agent



Pueblo Chemical Agent-Destruction Pilot Plant—Site Plan



PCAPP Site Overview



Northwestern Corner - Observation Point

- | | | | |
|----------|--|----------|--|
| 1 | Enhanced Reconfiguration Building | 5 | Agent Filtration Area |
| 2 | Automated Guided Vehicle Corridor | 6 | Munitions Service Magazine |
| 3 | Agent Processing Building | 7 | Control and Support Building |
| 4 | Biotreatment Area | 8 | Munitions Service Magazine Corridor |

Turnover to Operations

As the project transitions from systemization to operations, the following systems and facilities have been turned over:

Systems

- Toxic Storage and Spent Decon
- Bulk Chemical Storage and Distribution
- Security Essential Power Supply
- Laboratory Ventilation System
- Site Water System
- Chilled Water System
- Reverse Osmosis System
- Process Water System
- Instrument Air and Plant Air
- Natural Gas
- Fuel Oil System
- Sanitary Waste
- Enhanced Reconfiguration Building/Agent Processing Building Material Handling Systems

Facilities

- Biotreatment Electrical Building
- Brine Reduction System Facility
- Analytical Laboratory
- Medical Facility
- Multipurpose Building
- Personnel Support Facility



To learn more about Systemization, watch the video at
http://www.peoacwa.army.mil/info/video/systemization_yt.html

Turnover to Operations (Cont.)

Systems

Munitions Unpacking and Projectile/Mortar Disassembly
Lighting System
Breathing Air System

Facilities

Utility Building
Brine Recovery Misc. Buildings

To learn more about Systemization, watch the video at http://www.peoacwa.army.mil/info/video/systemization_yt.html



Start-up Team Supervisor Charlie Hagan (right) hands the “key” to the Brine Reduction System Misc. Buildings to Operations Area Supervisor Floyd Curtis.

Voluntary Protection Program (VPP)

CONGRATULATIONS!!!
You are being
recommended for VPP
STAR!!!



Brad Baptiste (in orange vest), manager for the U.S. Dept. of Labor's Occupational Health and Safety Administration, was among several auditors who spent the week of Nov. 3 at PCAPP. The final result: Recommend PCAPP for VPP Star Status, the highest level of achievement for national safety programs.

Provisional Operations Underway



Oct. 16 marked the start of Provisional Operations, a period in which the plant undergoes extensive emergency response training. The photo on the left depicts employees who just demonstrated a leaker recovery. On the right, employees who just demonstrated a plant air recovery in the Yard.

Training Facility Tours



The Citizens' Advisory Commission held its monthly meeting at the Training Facility on Oct. 30. The event was attended by many local community members who got a glimpse of the extensive training employees undergo for agent operations.

Junior Achievement



PCAPP employees recently volunteered at Irving Elementary School to teach “Junior Achievement In A Day.” A signature Bechtel program, Junior Achievement introduces youth to the financial world, including business ownership and honing of financial skills.

Contact Information



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Program Executive Office
Assembled Chemical Weapons Alternatives

