

# Monthly Status Briefing

*June 2015*



Pueblo Chemical Agent-Destruction Pilot Plant



Program Executive Office  
Assembled Chemical Weapons Alternatives



# PCAPP

Pueblo Chemical  
Agent-Destruction Pilot Plant

[www.peoacwa.army.mil](http://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., AECOM, 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:  
**1,244**

- Pueblo County local hires: 371
- Colorado hires (outside Pueblo County): 116
- From other locations: 751

# Employment Opportunities



## Hotline

(719)549-4003

## Website

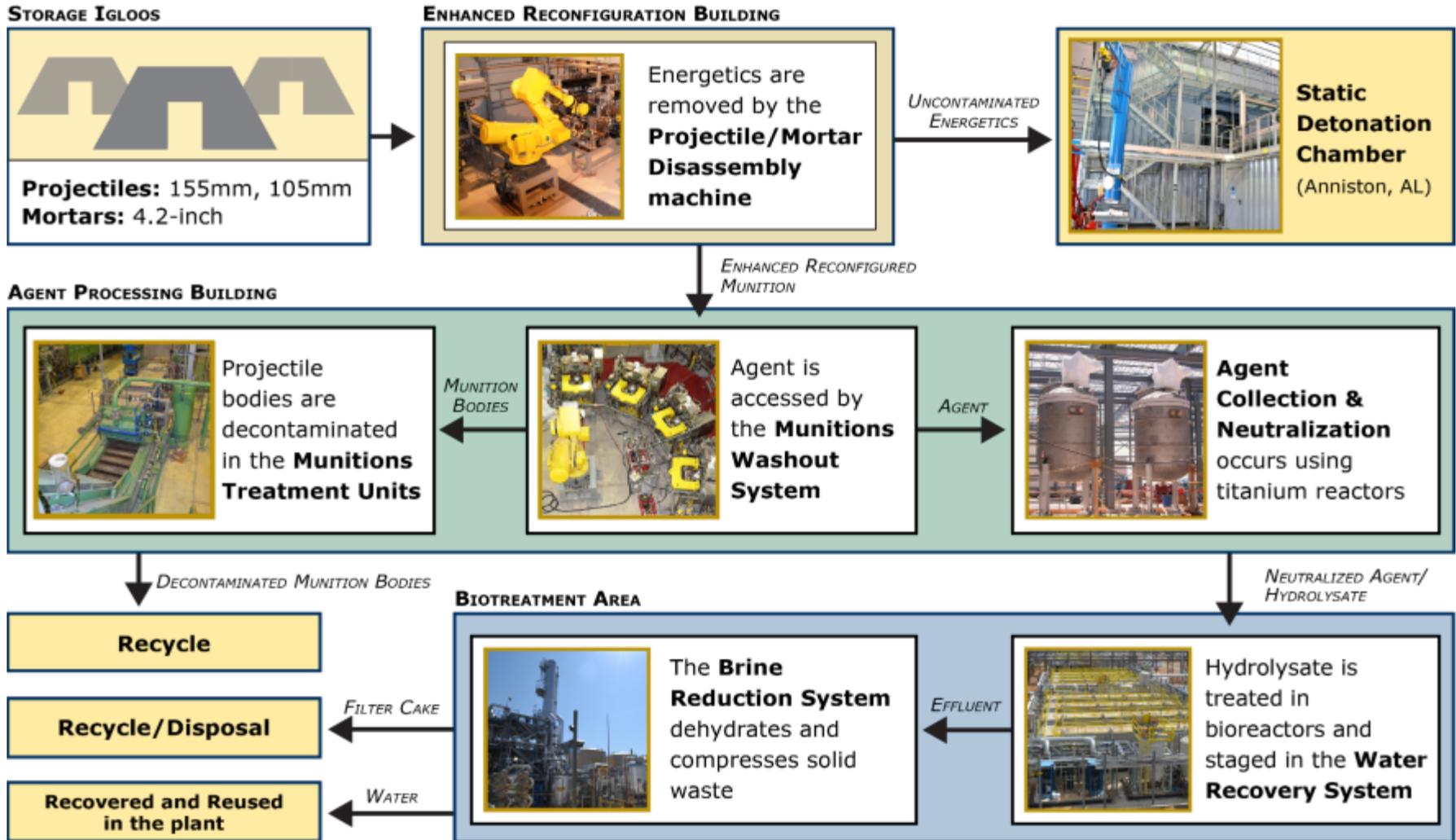
<http://pueblo.bechtel.com>

- *Star Status* granted in the Dept. of Labor's Occupational Health and Safety Administration's Voluntary Protection Plan
- Lost-workday case rate and total recordable injury rate (TRIR) is **0.07**
- The current TRIR for the YTD is well below the general industry average of **3.5** and the Waste Management Industry rate of **4.7**



PCAPP was certified as a VPP Worksite on April 28, 2015

# PCAPP Process



# Explosive Destruction System

As of 19 June 2015, EDS has destroyed 10 DOT bottles, 216 105mm projectiles and 3 4.2 in. mortar rounds.



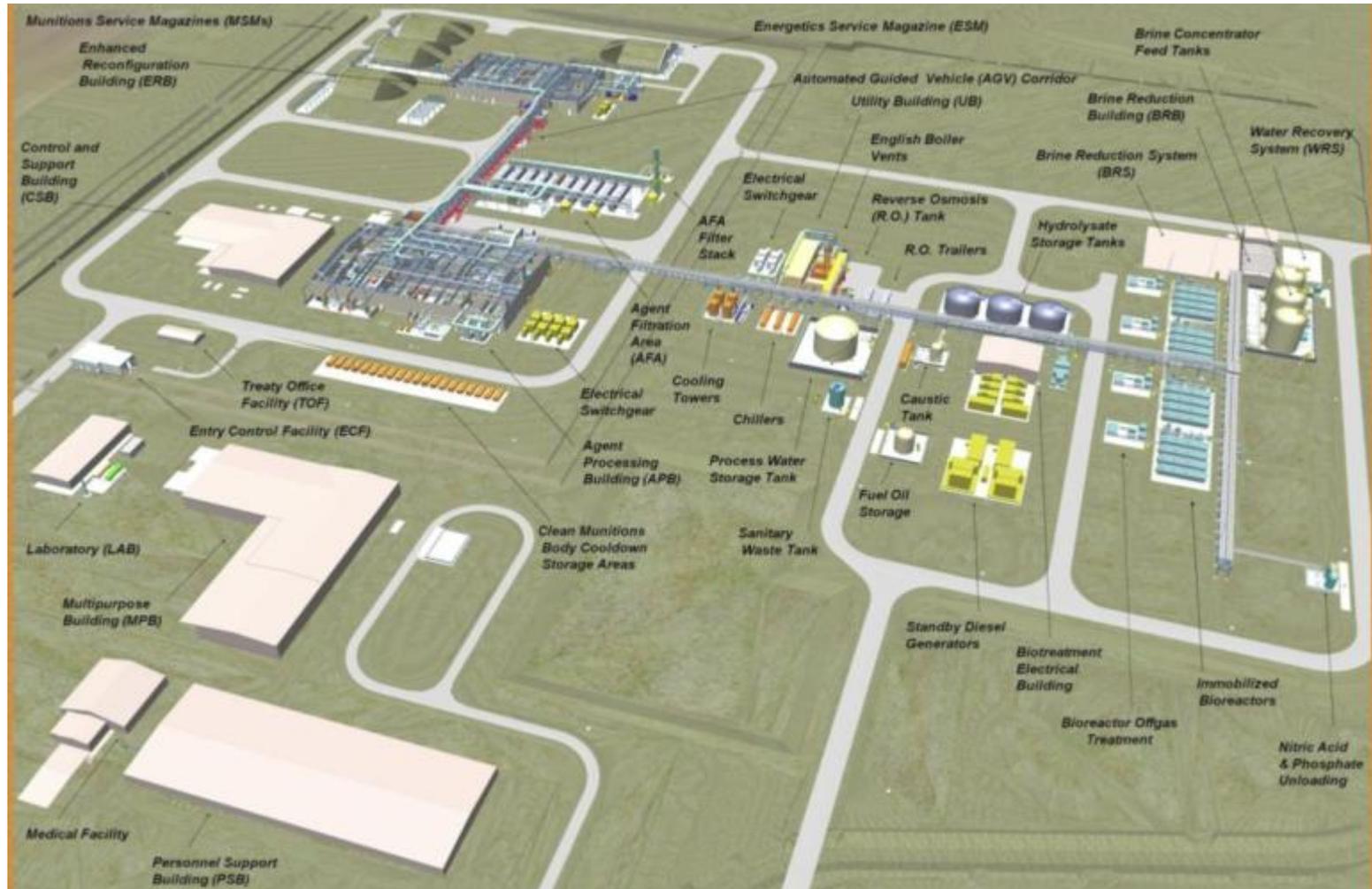
- EDS uses explosive “cutting” charges to access the chemical agent inside a munition; neutralization chemicals are then added to destroy the chemical agent



March 18, 2015 – The first mustard agent from the Pueblo stockpile to be destroyed is loaded into the EDS.

- The Army’s Explosive Destruction System (EDS) is augmenting the Pueblo pilot plant’s automated destruction technology
- EDS is being used to destroy problematic munitions that are unsuited for automated processing

# Pueblo Chemical Agent-Destruction Pilot Plant—Site Plan



# PCAPP Site Overview



Northwestern Corner - Observation Point

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

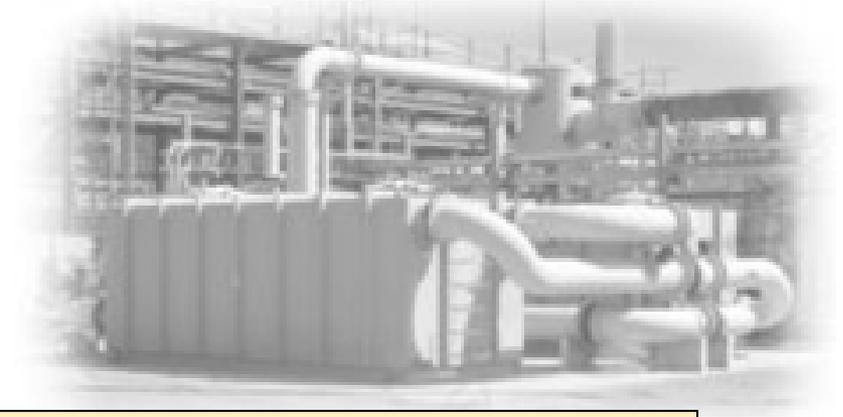
# Turnover to Operations

**As the project transitions from systemization to operations, the following systems 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

Munitions Unpacking and Projectile Disassembly  
Lighting System  
Steam and Condensate System  
Breathing Air System  
Communications System/CCTV  
Residue Handling  
Munitions Washout System



To learn more about Systemization, watch the video at  
[http://www.peoacwa.army.mil/info/video/systemization\\_yt.html](http://www.peoacwa.army.mil/info/video/systemization_yt.html)

# Turnover to Operations

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

## **Facilities**

Biotreatment Electrical Building  
Brine Reduction System Facility  
Analytical Laboratory  
Medical Facility  
Multipurpose Building  
Personnel Support Facility  
Utility Building  
Control and Support Building  
Entry Control Facility  
Munitions & Energetics Service Magazines  
Treaty Office

\*Newly added



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# Automated Guided Vehicle



The Automated Guided Vehicles, which will transport munitions from the Enhanced Reconfiguration Building to the Agent Processing Building, went through a series of demonstrations last month to test their capabilities.

# System Turnover



**As of the end of May, all agent and munition processing systems have been turned over to operations. Here, the Agent Collection and Neutralization System is turned over.**

# Contingency Drill



**During a contingency drill, workers practice masking and assembling for an agent incident. All shift workers practice emergency procedures to ensure emergency preparedness.**

# Chemical Weapons Convention Treaty Office Facility



Treaty officials from the Organisation for the Prohibition of Chemical Weapons will be housed here during agent operations. They will verify that Pueblo's mustard agent stockpile has been destroyed according to treaty standards.



Clockwise, from top left:

1. Work stations and monitors
2. Escort Office
3. Conference Room
4. Building Exterior

# United Way Honors PCAPP



United Way of Pueblo County, at their annual awards luncheon on May 20, recognized PCAPP employees for their generous contributions, volunteerism and community representation. Accepting the awards were (left to right) Gary McCloskey, PCAPP deputy project manager; Reza Karimi, Battelle project manager; and Rick Holmes, PCAPP/BPT project manager.

# Contact Information



## **Pueblo Chemical Stockpile Outreach Office**

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### **Ron Eccher**

Public Outreach Manager

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PCAPP

Public Affairs Specialist

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Bechtel Pueblo Team  
Communications Manager

## **U.S. Army Pueblo Chemical Depot**

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719-549-4135

### **Lori Waters**

Public Affairs Officer



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