

# Monthly Status Briefing



Pueblo Chemical Agent-Destruction Pilot Plant

*July 2016*



## 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.



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 PCAPP.



# Staffing



Bechtel Pueblo Team:  
**1,370**

- Pueblo County local hires: 471
- Colorado hires (outside Pueblo County): 177
- From other locations: 722



# Employment Opportunities



## Positions Currently Available:

### **AECOM**

Entry Control Coordinator (138393BR)

### **Battelle**

Monitoring Demil Tech III (36640)

Demil Tech IV—Environmental Compliance Representative (39961)

Research Scientist—Operations QC Inspector (35621)

### **Bechtel**

Cognizant Systems Engineer—I&C (173487)

Document Control Specialist/Operations Shift Clerk (176125)

Control Systems Engineer (169899)

Nurse Practitioner/Physician Assistant (114389)

Senior Control Systems Engineer (167942)

## Hotline

(719)549-4003

## Website

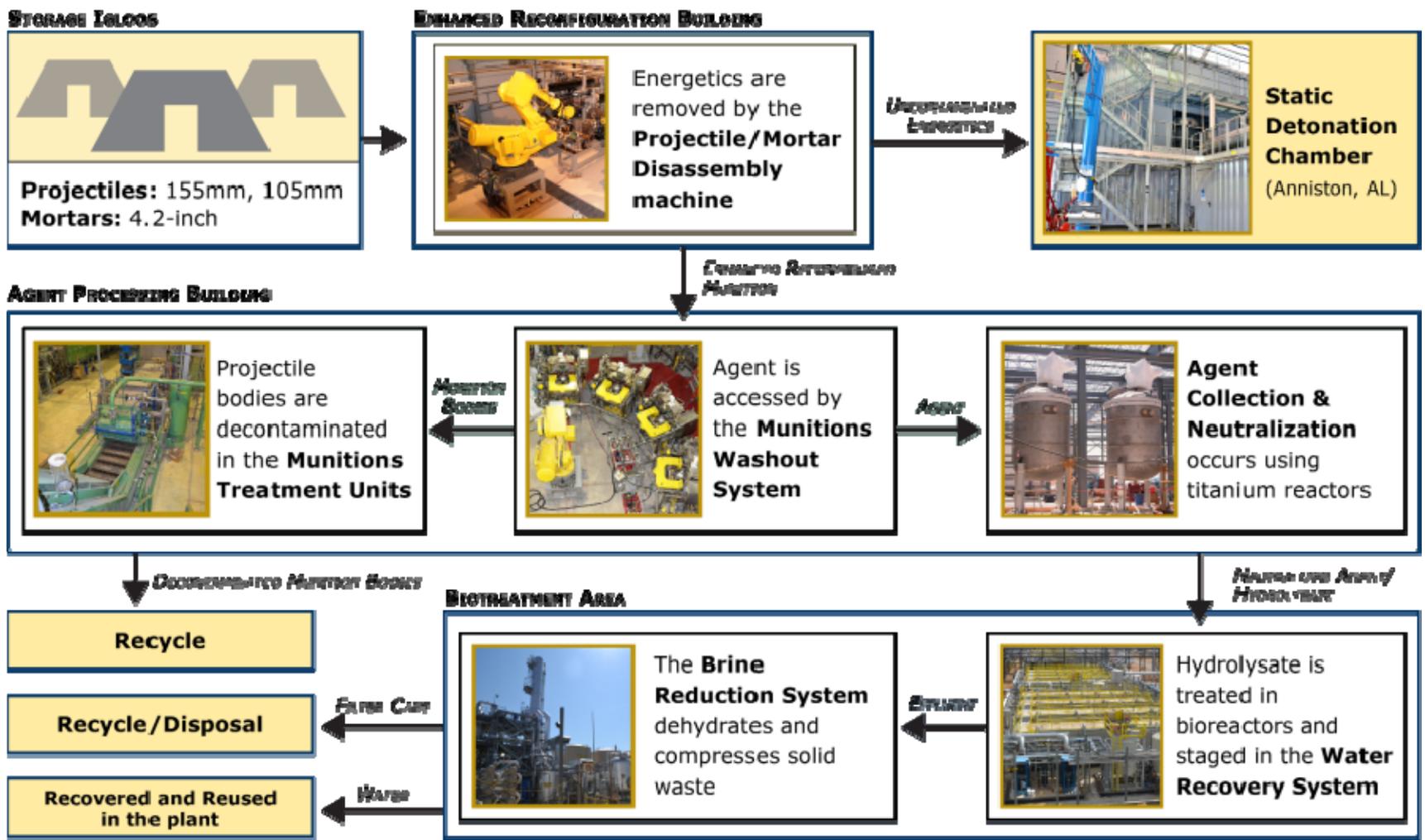
<http://pueblo.bechtel.com>



- *Star Status* granted in the Dept. of Labor's Occupational Health and Safety Administration's Voluntary Protection Plan
- Lost-workday case rate is **0.00**
- The current total recordable injury rate (TRIR) for the year to date (YTD) is **.63**, which is well below the general industry average of **3.4** and the Waste Management Industry rate of **4.7**.



# PCAPP Process



# Explosive Destruction System



As of 11 February 2016, EDS has destroyed ALL 560 problematic munitions in its first campaign



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

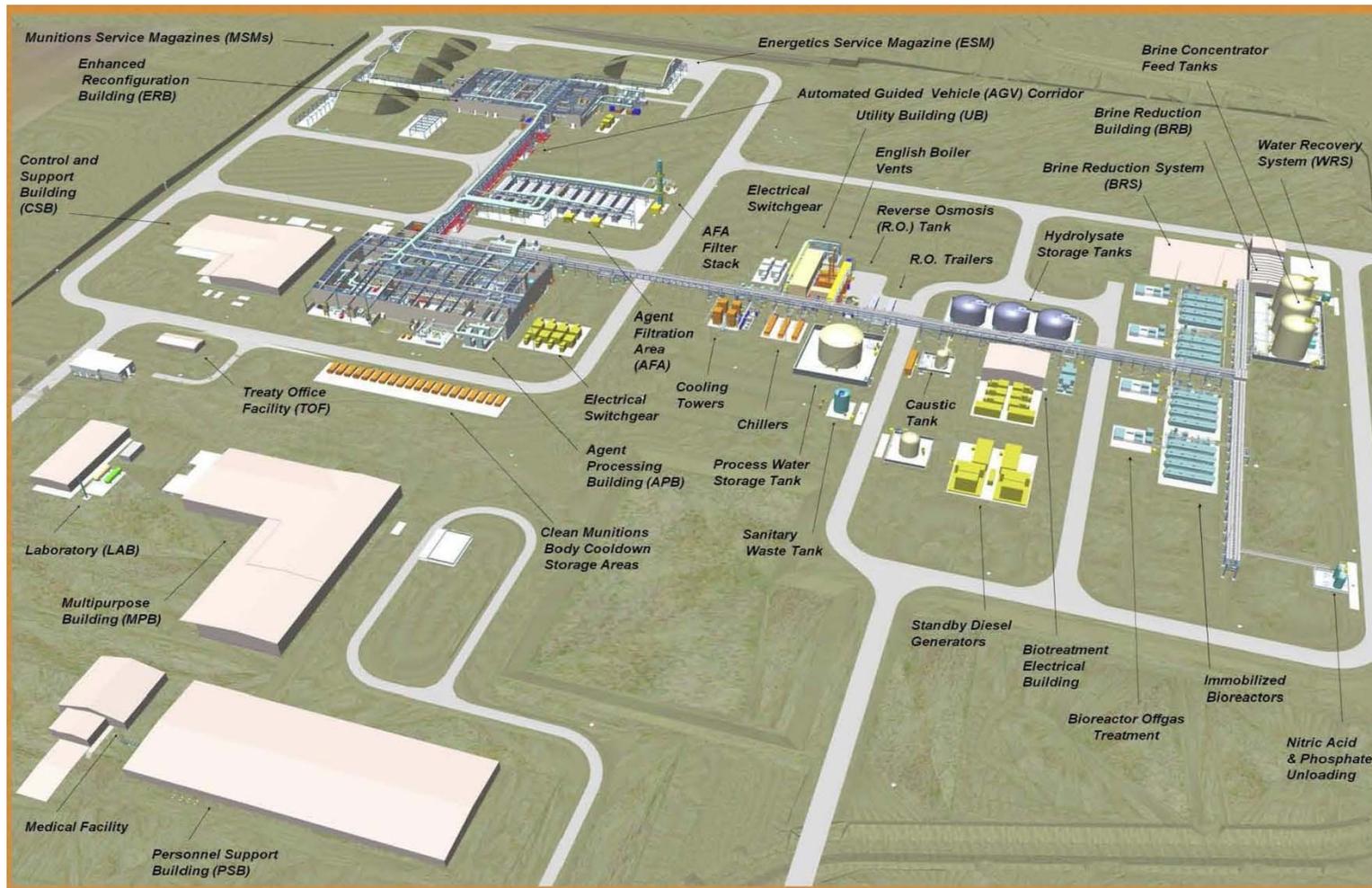


- The Army’s Explosive Destruction System (EDS) is augmenting the Pueblo pilot plant’s automated destruction technology
- EDS is being used to destroy problematic munitions that are unsuited for automated processing

February 11, 2016 – Metal fragments from these 105mm projectiles is all that remains of the last mustard agent from the Pueblo stockpile to be destroyed in the EDS.



# 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 Agent Filtration Area
- 6 Munitions Service Magazine
- 7 Control and Support Building
- 8 Munitions Service Magazine Corridor



# Turnover to Operations



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

- |   |                                   |   |
|---|-----------------------------------|---|
| Toxic Storage and Spent Decon   | Communications System/CCTV        | APB Ventilation System                        |
| Bulk Chemical Storage and Distribution  | Residue Handling                  | Bioreactor Off-Gas Treatment System           |
| Security Essential Power Supply   | Munitions Washout System          | Process Data Acquisition and Recording System |
| Laboratory Ventilation System   | Automated Guided Vehicles         | Firewater Protection System                   |
| Site Water System   | Supplemental Decontamination Unit | Facility Control System                       |
| Chilled Water System  | Power/Power Distribution          | Munitions Monitoring Area                     |
| Reverse Osmosis System  | Standby Diesel Generators         | Immobilized Cell Bioreactors (modules 3 & 4)* |
| Process Water System  | Secondary Waste Treatment         | Bioreactor Off-gas Treatment System*          |
| Instrument Air and Plant Air  | Agent Filtration Area             |   |
| Natural Gas   | No-Essential (Utility)            |   |
| Fuel Oil System   | Essential Power                   |   |
| Sanitary Waste  | Plumbing and Drains               |   |
| Enhanced Reconfiguration Building/Agent Processing Building Material Handling Systems | Brine Reduction System            |   |
| Munitions Unpacking and Projectile Disassembly  | Water Recovery System             |   |
| Lighting System   | Filtration System                 |   |
| Steam and Condensate System   | Heat Trace System                 |   |
| Breathing Air System  | ERB Ventilation 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)

\*Newly added



# Turnover to Operations



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

- 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
- Laundry Facility
- MINICAMS Maintenance Facility



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# System Turn Overs Complete



The last of PCAPP systems have been turned over to Operations, signifying people, paper and plant are coming together to start getting ready for pilot testing, the phase before operations. Here, plant managers certify the system turn overs.



# Man-Down Emergency Drill



**Entry Support Area (ESA) tenders remove demilitarization protective gear after finishing a practice drill where they assist other ESA tenders as backups in the event of an emergency.**

# VIP Tour of PCAPP



**Under Secretary of Defense for Acquisition, Technology and Logistics, Mr. Frank Kendall, toured the PCAPP facility on July 8, along with several other Air Force and Army officials. Here, Plant Manager Kim Jackson shows Kendall the Projectile/Mortar Disassembly system in the Explosion Containment Room of the Enhanced Reconfiguration Building.**



# Helping Pueblo's Homeless Community



**On June 25, seven PCAPP employees volunteered 30 hours at Posada's Take Care Fair at Grome Park to benefit Pueblo's homeless community. More than 1,500 people attended the event that featured free services, food, family fun and games.**



# Contact Information



## **Pueblo Chemical Stockpile Outreach Office**

104 West B Street  
719-546-0400

### **Ron Eccher**

Public Outreach Manager

### **Tom Schultz**

PCAPP

Public Affairs Specialist

### **Sandy Romero**

Bechtel Pueblo Team  
Communications Manager

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

45825 Highway 96 East  
719-549-4135

### **Lori Waters**

Public Affairs Officer

### **Aaron Clementi**

Public Affairs Specialist



Program Executive Office  
Associated Chemical Weapons Alternatives



Pueblo Chemical Agent  
Destruction Pilot Plant

