

# Monthly Status Briefing

*June 2016*



Pueblo Chemical Agent-Destruction Pilot Plant



## 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 the PCAPP.



Pueblo Chemical Agent-Destruction Pilot Plant

# Staffing



Bechtel Pueblo Team:  
**1,351**

- Pueblo County local hires: 467
- Colorado hires (outside Pueblo County): 171
- From other locations: 713



# Employment Opportunities



## Positions Currently Available:

### **AECOM**

Process Supervisor (136453BR)  
Operations Superintendent (136406BR)  
Lockout/Tagout Coordinator (135672BR)  
Maintenance Technical Specialist (136400BR)  
Entry Support Area Tender (135809BR)  
Waste Operator (135809BR)

### **Battelle**

Research Scientist – GC/FPD/MSD Operator (37400)  
Research Scientist – Operations QC Inspector (35621)

### **Bechtel**

Cognizant Systems Engineer - I&C (173487)  
Control Systems Engineer (169899)  
Nurse Practitioner/Physician Assistant (114389)  
Senior Control Systems Engineer (167942)

## Hotline

(719)549-4003

## Website

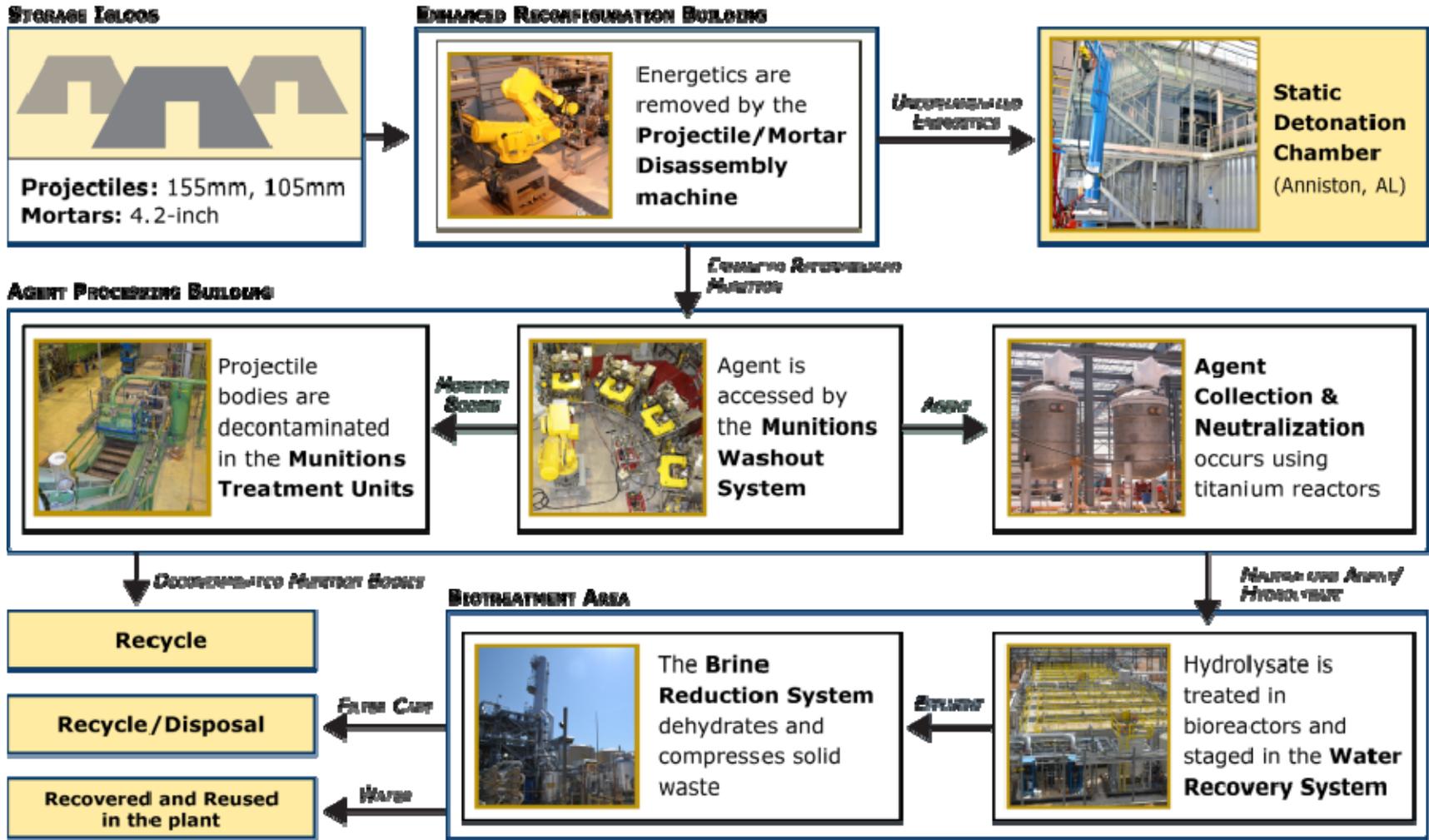
<http://pueblo.bechtel.com>



- *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 **.61**, 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

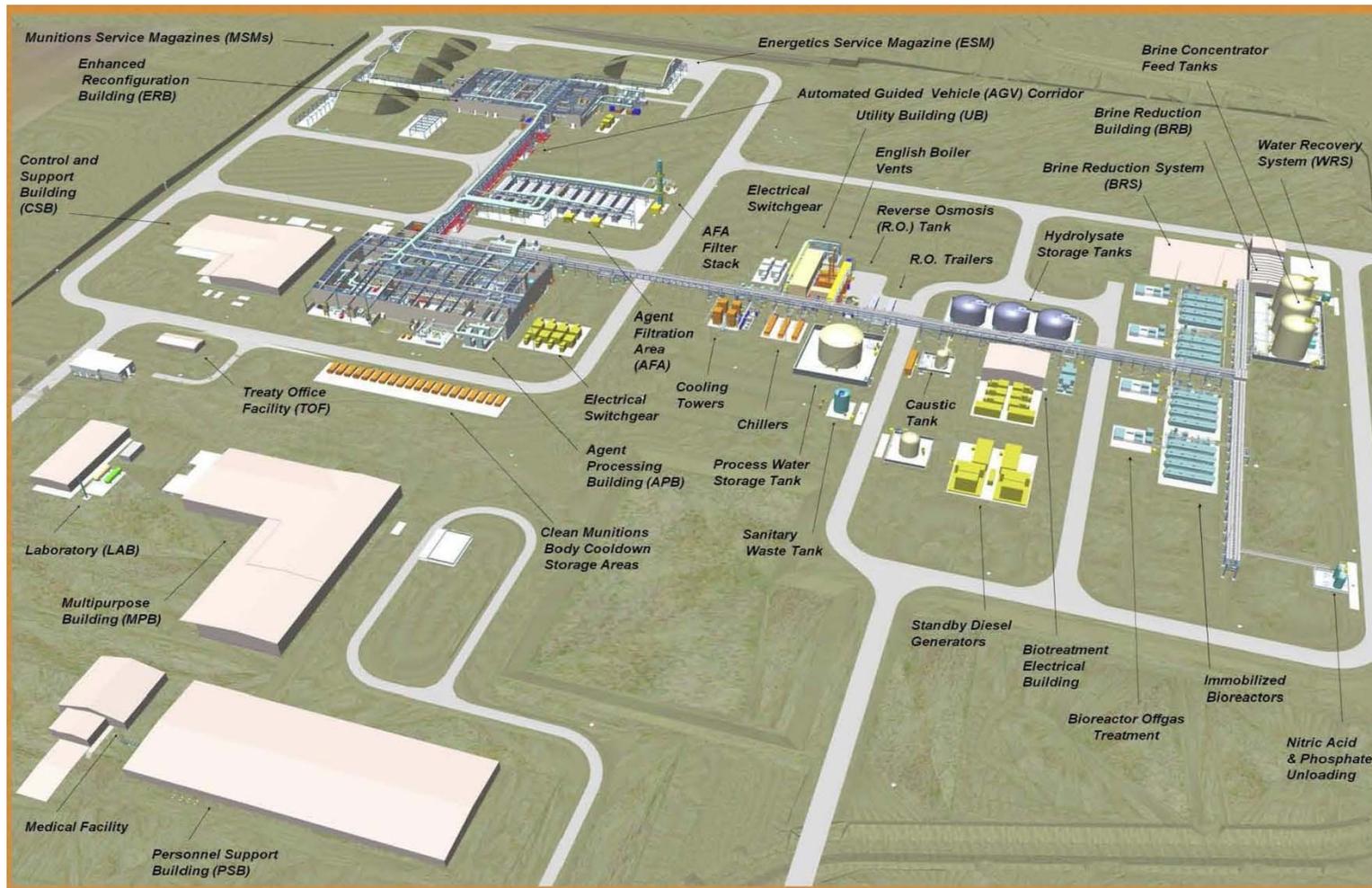
- The Army’s Explosive Destruction System (EDS) is augmenting the Pueblo pilot plant’s automated destruction technology
- EDS is being used to destroy problematic munitions that are unsuited for automated processing



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

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

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

Automated Guided Vehicles

Supplemental Decontamination Unit

Power/Power Distribution

Standby Diesel Generators

Secondary Waste Treatment

Agent Filtration Area

No-Essential (Utility)

Essential Power

Plumbing and Drains

Brine Reduction System

Water Recovery System

Filtration System

Heat Trace System

ERB Ventilation System

APB Ventilation System

Bioreactor Off-Gas Treatment System

Process Data Acquisition and Recording System

Firewater Protection System\*

Facility Control System\*

Munitions Monitoring Area\*



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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[http://www.peocwa.army.mil/info/video/systemization\\_yt.html](http://www.peocwa.army.mil/info/video/systemization_yt.html)



# Biomass Delivered to Site



**A delivery of biomass from the Pueblo Wastewater Reclamation Facility arrives at the PCAPP site on June 1. The biomass is used to seed the biotreatment process for destruction of thiodiglycol, the main ingredient of mustard agent hydrolysate.**

# Testing for Odors



**A senior monitoring technician uses a field olfactometer to gauge the strength of an odor. Odor monitoring ensures plant activities don't disturb the surrounding community.**

# Initiation of Plant Operations



**Pueblo Chemical Agent-Destruction Pilot Plant Leadership and other dignitaries were on hand to cut the ribbon for the plant, signifying the upcoming start of agent operations. The event was held on Tuesday, June 14 on the grounds of the U.S. Army Pueblo Chemical Depot, in conjunction with an Open House and the Army's 241<sup>st</sup> Birthday.**



# United Way Honors Bechtel Pueblo Team



**Last month, Bechtel Pueblo Team received the Corporate Leadership 2016 Award of Excellence for contributions made to the United Way of Pueblo County campaign. Employee/corporate pledges total more than \$60,000 for the 2016 campaign.**



# 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

