

# Monthly Status Briefing

*September 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.



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:  
**1,285**

- Pueblo County local hires: 403
- Colorado hires (outside Pueblo County): 141
- From other locations: 741

# Employment Opportunities



## Positions Currently Available:

### **AECOM**

Operations Manager (FS105576)  
Ordnance Technician (FS105786)  
Shift Safety Representative (FS105563)  
Waste Operator (FS105171)

### **Battelle**

Principal Research Scientist—ICP-MS Operator (27845)  
Manager—Operations Branch Shift Manager (27843)  
Demil Tech III – Monitoring Technician (27240)  
Demil Tech IV—Environmental Compliance Representative (26880)  
Researcher—Operations QC Inspector (26860)  
Researcher – Monitoring QC Inspector (26300)

### **Bechtel**

Senior Control Systems Engineer (109077)  
Control Systems Engineer (109175)  
Control Systems Technologist (117902)  
Senior Control Systems Engineer (109174)  
Part-time Nurse Practitioner/Physician Assistant (113744)  
Senior Control Systems Administrator (131819)  
Nurse Practitioner/Physician Assistant (114389)  
Part-time Nurse Practitioner/Physician Assistant (113745)  
Nurse Practitioner/Physician Assistant (114391)

## Hotline

(719)549-4003

## Website

<http://pueblo.bechtel.com>

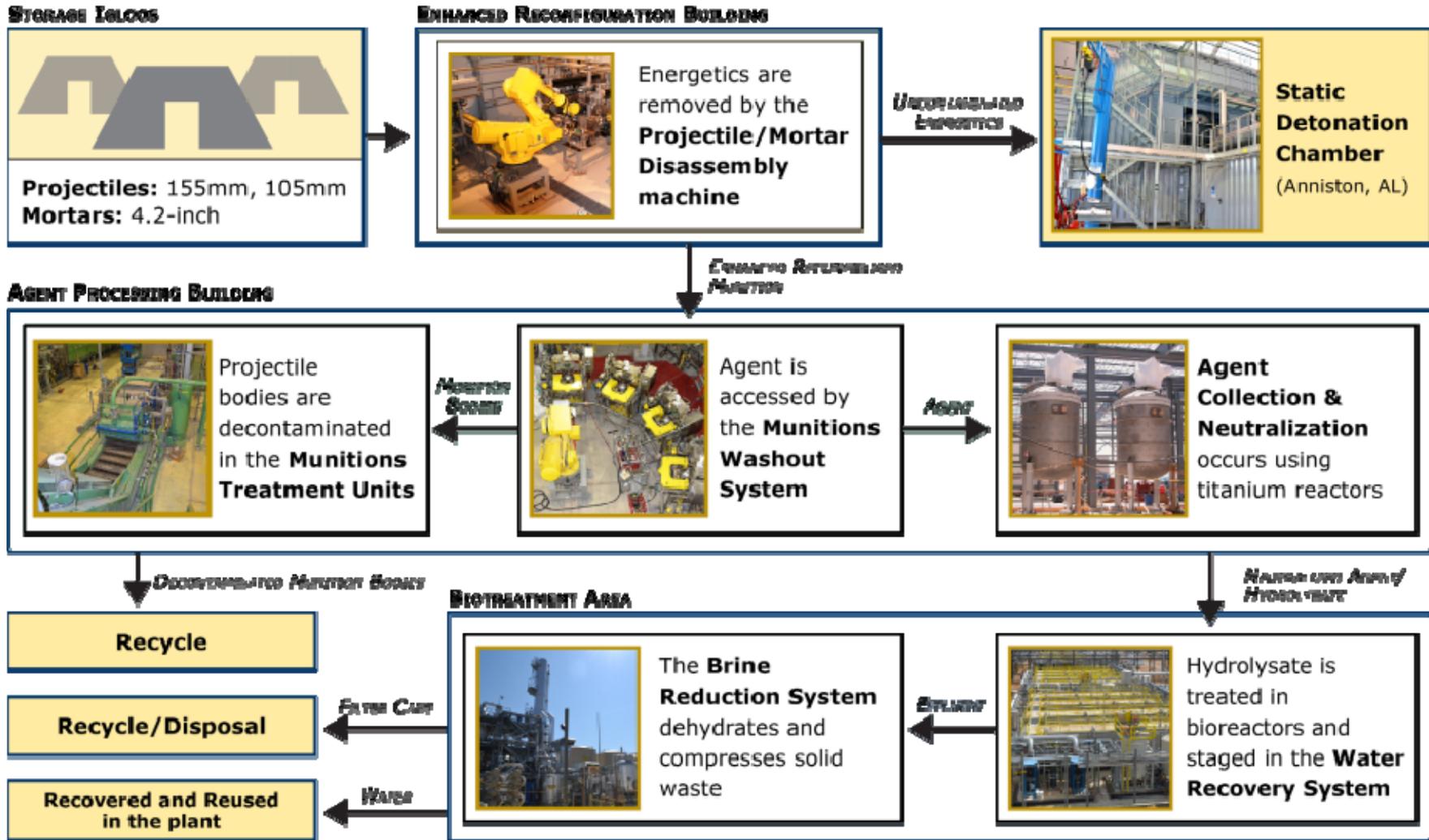


- *Star Status* granted in the Dept. of Labor's Occupational Health and Safety Administration's Voluntary Protection Plan
- Lost-workday case rate is **0.07**
- The current total recordable injury rate (TRIR) for the year to date (YTD) is **0.23**, which is well below the general industry average of **3.4** and the Waste Management Industry rate of **4.7**.



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

# PCAPP Process



# Explosive Destruction System

As of 09 September 2015, EDS has destroyed 10 DOT bottles, 255 105mm projectiles, 40 155mm projectiles and 42 4.2-inch mortar rounds



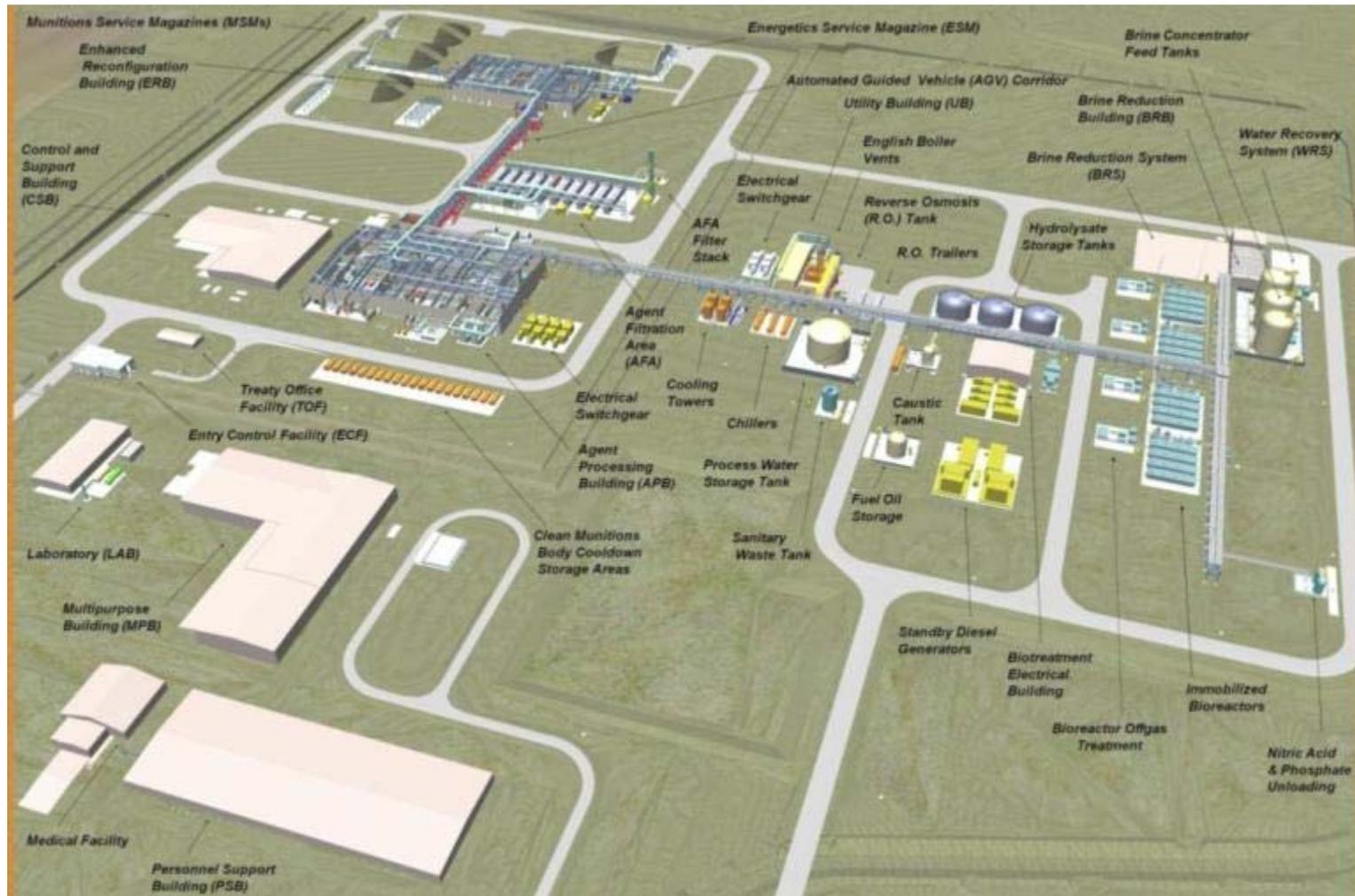
- The Army's Explosive Destruction System (EDS) is augmenting the Pueblo pilot plant's automated destruction technology
- EDS is being used to destroy problematic munitions that are unsuited for automated processing

- 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.

# 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

Automated Guided Vehicles

Supplemental Decontamination Unit



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
- Laundry



\*Newly added

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# Airtight Seal for APB



Employees with subcontractor API Construction erect scaffolding around the Agent Processing Building, the largest project to date for the company at PCAPP. The scaffolding supports employees who are working on the roof to ensure it is airtight.

# TDG Delivered to PCAPP



Thiodiglycol (TDG) arrived at PCAPP last month. TDG is the primary byproduct that will be created during agent hydrolysis. It will be used to test the efficacy of processes in the Biotreatment Area.

# Training for Entries



One monitoring technician and two waste operators perform a Level A Entry during training at the PCAPP Training Facility. Level A entries require the use of demilitarization protection ensemble (DPE). DPE is connected to tethered breathing air hoses that must be connected at various hose change stations throughout an entry while work is performed.

# Emergency Drills Going Strong



The Emergency Response Team (ERT) is evaluated during a exercise drill featuring a container of acid that has leaked. The ERT contain the spill and don appropriate personal protective equipment as part of their training.

# 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

