

Monthly Status Briefing

April 2016



Pueblo Chemical Agent-Destruction Pilot Plant



Program Executive Office
Assembled Chemical Weapons Alternatives



PCAPP

Pueblo Chemical Agent-Destruction Pilot Plant

www.peoacwa.army.mil

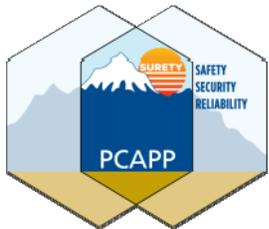


A PARTNERSHIP FOR SAFE CHEMICAL WEAPONS DESTRUCTION

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.



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:
1,343

- Pueblo County local hires: 463
- Colorado hires (outside Pueblo County): 168
- From other locations: 712

Employment Opportunities



Positions Currently Available:

AECOM

Control Room Operator
Process Supervisor
Assistant Operations Manager
Plant Support Specialist—Closure
Plant Support Specialist—Operations
Shift Safety Representative
Plant Operator
Plant Shift Manager
Waste Operator
Entry Support Area Tender
Shift Safety Representative

Battelle

Environmental Compliance Representative (32941)
Monitoring Tech – Demil Tech III (36640)
Developer II – Jr. Programmer (35960)
Research Scientist – Operations QC Inspector (35621)
Laboratory QA/QC Inter – Summer 2016 (35740)

Bechtel

Cognizant Systems Engineers (165961)
Control Systems Engineer (169899)
ES&H Medical Intern (169159)
Nurse Practitioner/Physician Assistant (114389)
Senior Control Systems Engineer (167942)

Hotline

(719)549-4003

Website

<http://pueblo.bechtel.com>





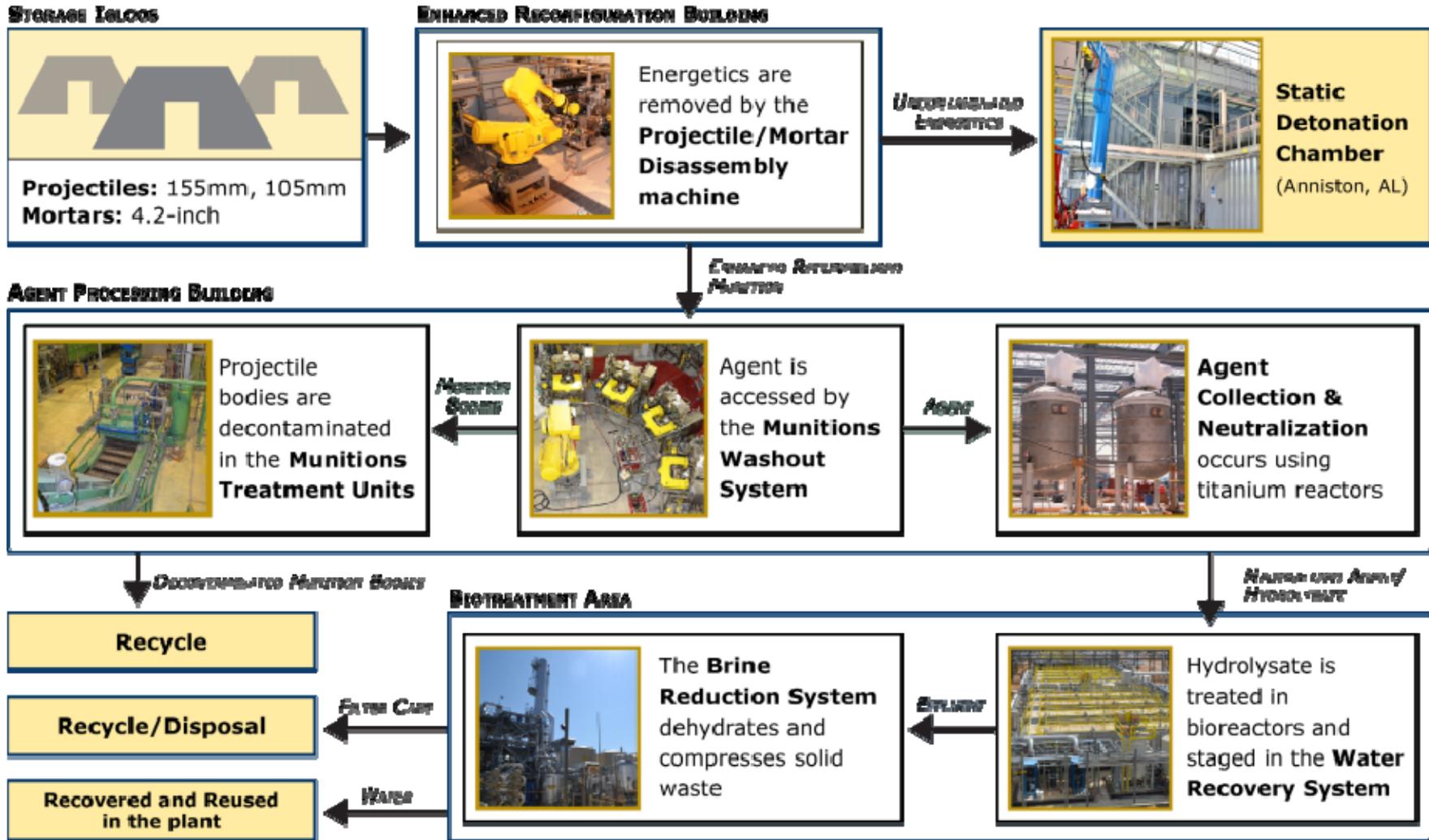
- *Star Status* granted in the Dept. of Labor's Occupational Health and Safety Administration's Voluntary Protection Plan
- Lost-workday case rate is **0.00**
- The current total recordable injury rate (TRIR) for the year to date (YTD) is **1.02**, which is well below the general industry average of **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 11 February 2016, EDS has destroyed ALL 560 problematic munitions in its first campaign



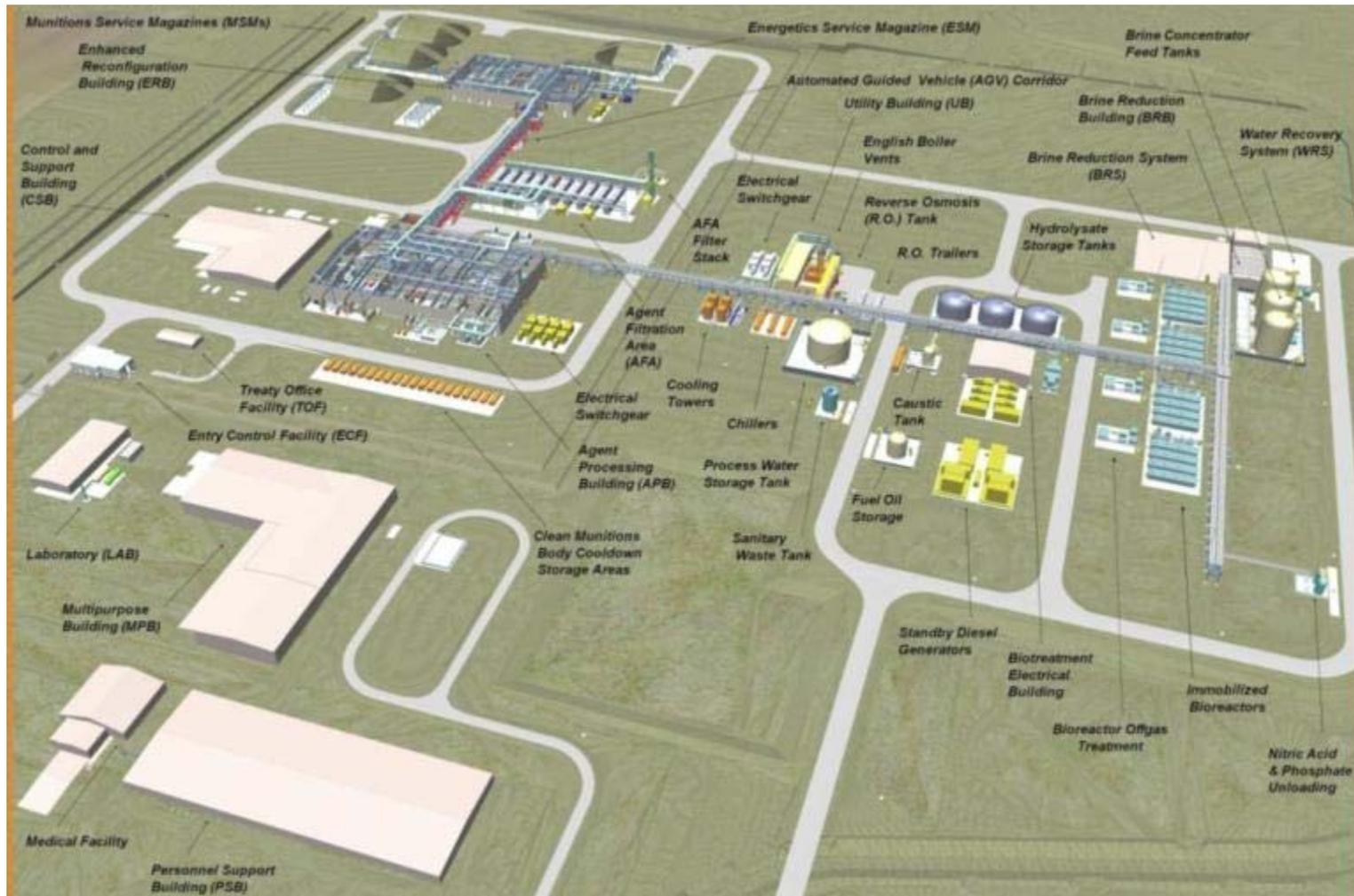
- The Army's Explosive Destruction System (EDS) is augmenting the Pueblo pilot plant's automated destruction technology
- EDS is being used to destroy problematic munitions that are unsuited for automated processing

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



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 | 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 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*

* Newly added



To learn more about Systemization, watch the video at
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:

- 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



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

Enhanced Reconfiguration Building



Ordnance technicians practice with ACWA Test Equipment inside the Enhanced Reconfiguration Building. Munitions will be transported via forklift to various locations as they work their way through the destruction process.

Baseline Reconfiguration



In the reconfiguration room of the Enhanced Reconfiguration Building, a PCAPP ordnance technician carries a fiber tube container filled with “propellant” from an inert 105mm projectile. Workers are practicing with ACWA Test Equipment to get ready for operations.

Emergency Response Training



Advanced medical training was given to PCAPP's Emergency Response Team (ERT). The training included splinting, equipment review, ambulance content, defibrillation and transport. The outcome of any incident is heavily dependent on the ERT and Medical teams working together, and how the ERT responds to incidents before Medical arrives.

Shaving Heads for Cancer Research



PCAPP employees shaved their heads for cancer research, raising \$2,615 through employee donations and a matching grant by the Bechtel Pueblo Team, for a total of more than \$5,000 for St. Baldrick's Foundation, an organization that raises money for childhood cancer research.

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

