

Monthly Status Briefing

March 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:
1,377

- Pueblo County local hires: 472
- Colorado hires (outside Pueblo County): 169
- From other locations: 736

Employment Opportunities



Positions Currently Available:

Battelle

Research Scientist – Operations QC Inspector (35621)
Demil Tech II – Chemical Technician (35620)
Laboratory QA/QC Inter – Summer 2016 (35740)
Laboratory Intern – Summer 2016 (35600)
Environmental Compliance Representative (32941)
Research Scientist – GC/FPD/MSD Operator (35220)
Demil Technician III – Monitoring Tech (31980)
Chemical Researcher (34760)
Developer III – LIMS Programmer (31720)

Bechtel

Nurse Practitioner/Physician Assistant (114389)

Hotline

(719)549-4003

Website

<http://pueblo.bechtel.com>



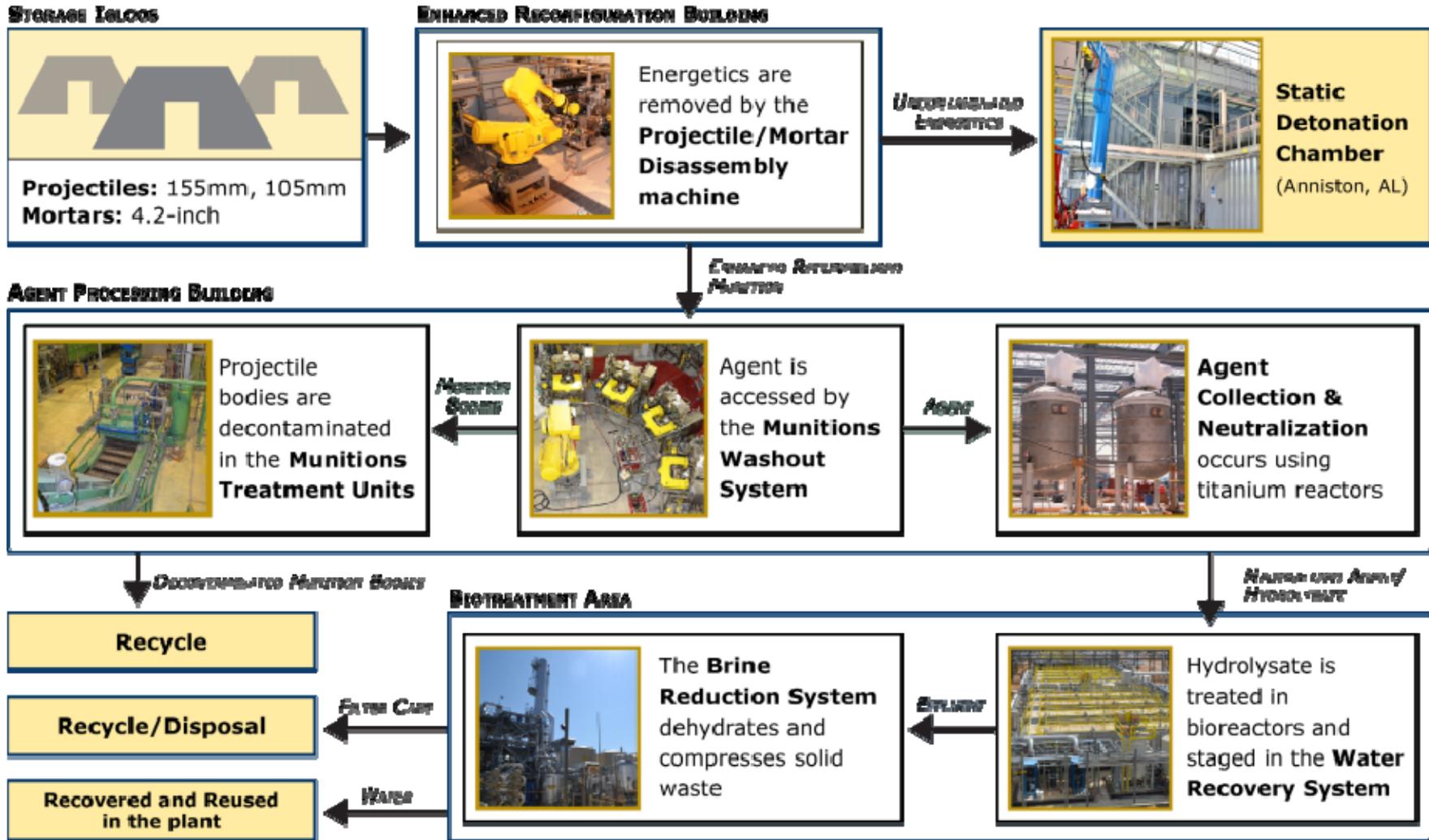
- *Star Status* granted in the Dept. of Labor's Occupational Health and Safety Administration's Voluntary Protection Plan
- Lost-workday case rate is **0.00**
- The current total recordable injury rate (TRIR) for the year to date (YTD) is **1.23**, which is well below the general industry average of **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 11 February 2016, EDS has destroyed ALL 560 problematic munitions in its first campaign



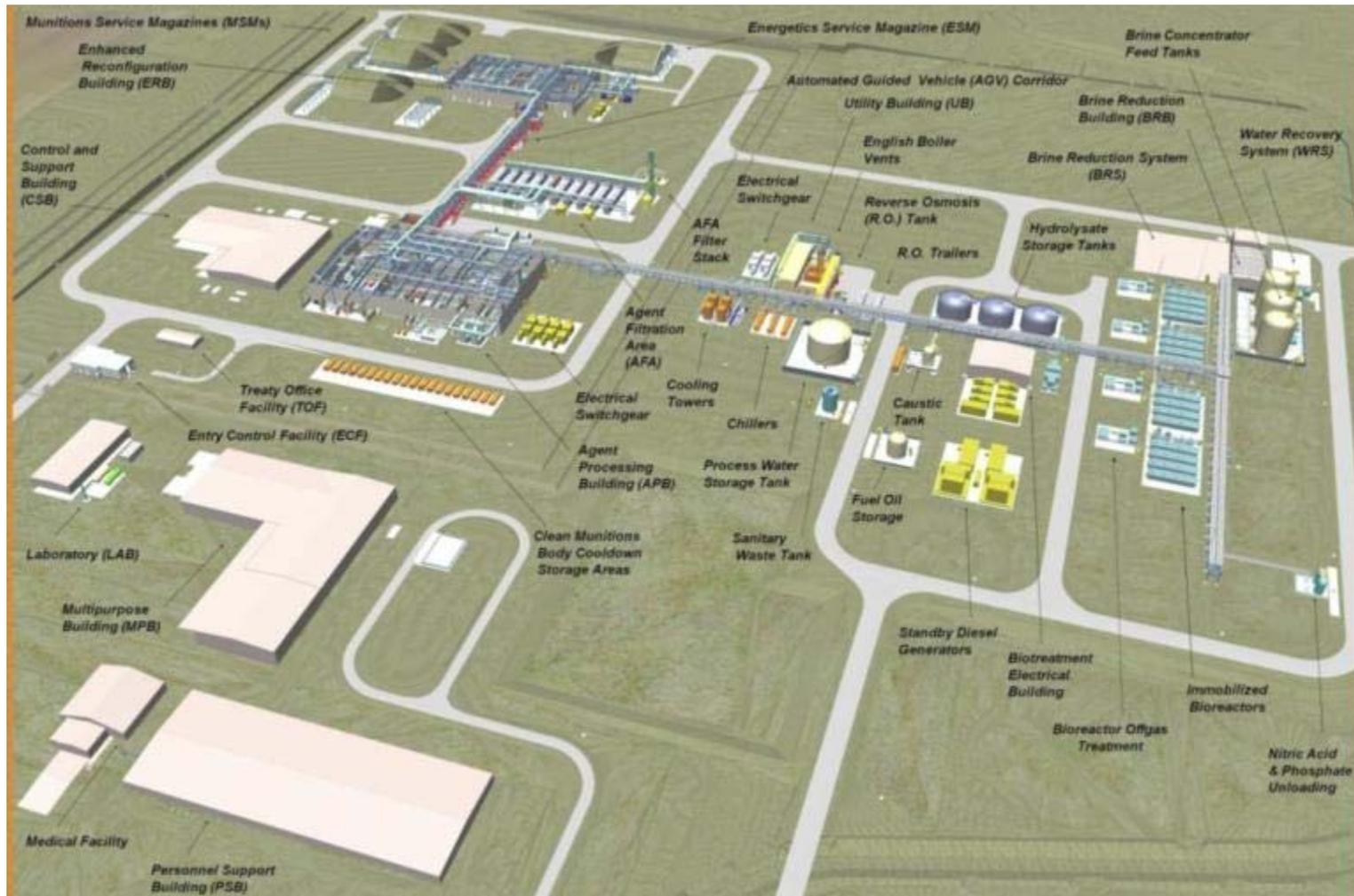
- The Army's Explosive Destruction System (EDS) is augmenting the Pueblo pilot plant's automated destruction technology
- EDS is being used to destroy problematic munitions that are unsuited for automated processing

- 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*

* 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



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Buffer Storage



ACWA Test Equipment, or ATE, is stored in a Munitions Service Magazine, which is adjacent to the Enhanced Reconfiguration Building. Employees practice for operations using ATE, which have the same look and feel as real munitions.

Enhanced Reconfiguration Building



An ordnance technician poses by extra personal protective equipment inside the ERB. Workers keep extra aprons and rubber boots nearby for ease of changing in and out.

Biotreatment Area



Immobilized Cell Bioreactors, modules 1 and 2, are covered with tents for temperature control as required by RCRA containment coating repair work. Tents will be left in place for surrogate testing since temperatures are still somewhat cold, especially during the night and early morning.

PCAPP Heroes



Eight PCAPP and one Pueblo Chemical Depot employee were honored by the American Red Cross on Feb. 17 at the Hometown Heroes event. The nine employees were credited with saving a fellow employee's life one year ago by performing CPR.

Contact Information



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Program Executive Office
Associated Chemical Weapons Alternatives

