

Monthly Status Briefing

February 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:
1,350

- Pueblo County local hires: 463
- Colorado hires (outside Pueblo County): 239
- From other locations: 648

Employment Opportunities



Positions Currently Available:

AECOM

Entry Support Area (ESA) Tender (FS108532)

Battelle

Research Scientist – GC/FPD/MSD Operator (33860)
Manager—Operations Branch Shift Manager (32581)
Developer III—LIMS Programmer (31720)
Developer V—LIMS (32702)
Research Scientist—Operations QC Inspector (30640)

Bechtel

Nurse Practitioner/Physician Assistant (114391)
Nurse Practitioner/Physician Assistant (114389)
Cognizant Systems Engineer (156200)
Plant Administration Lead (155321)

Hotline

(719)549-4003

Website

<http://pueblo.bechtel.com>

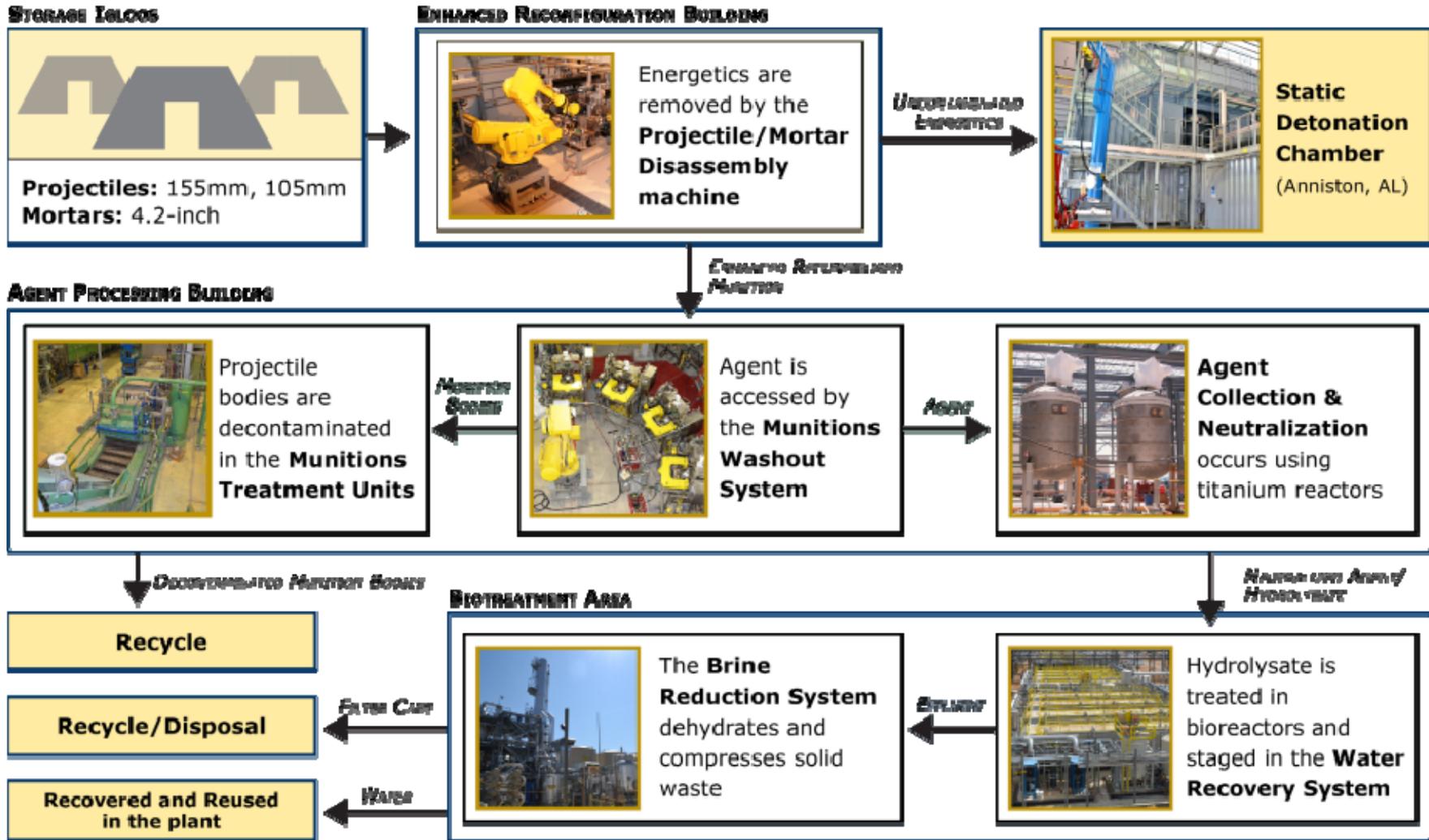


- *Star Status* granted in the Dept. of Labor's Occupational Health and Safety Administration's Voluntary Protection Plan
- Lost-workday case rate is **0.00**
- The current total recordable injury rate (TRIR) for the year to date (YTD) is **1.64**, which is well below the general industry average of **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



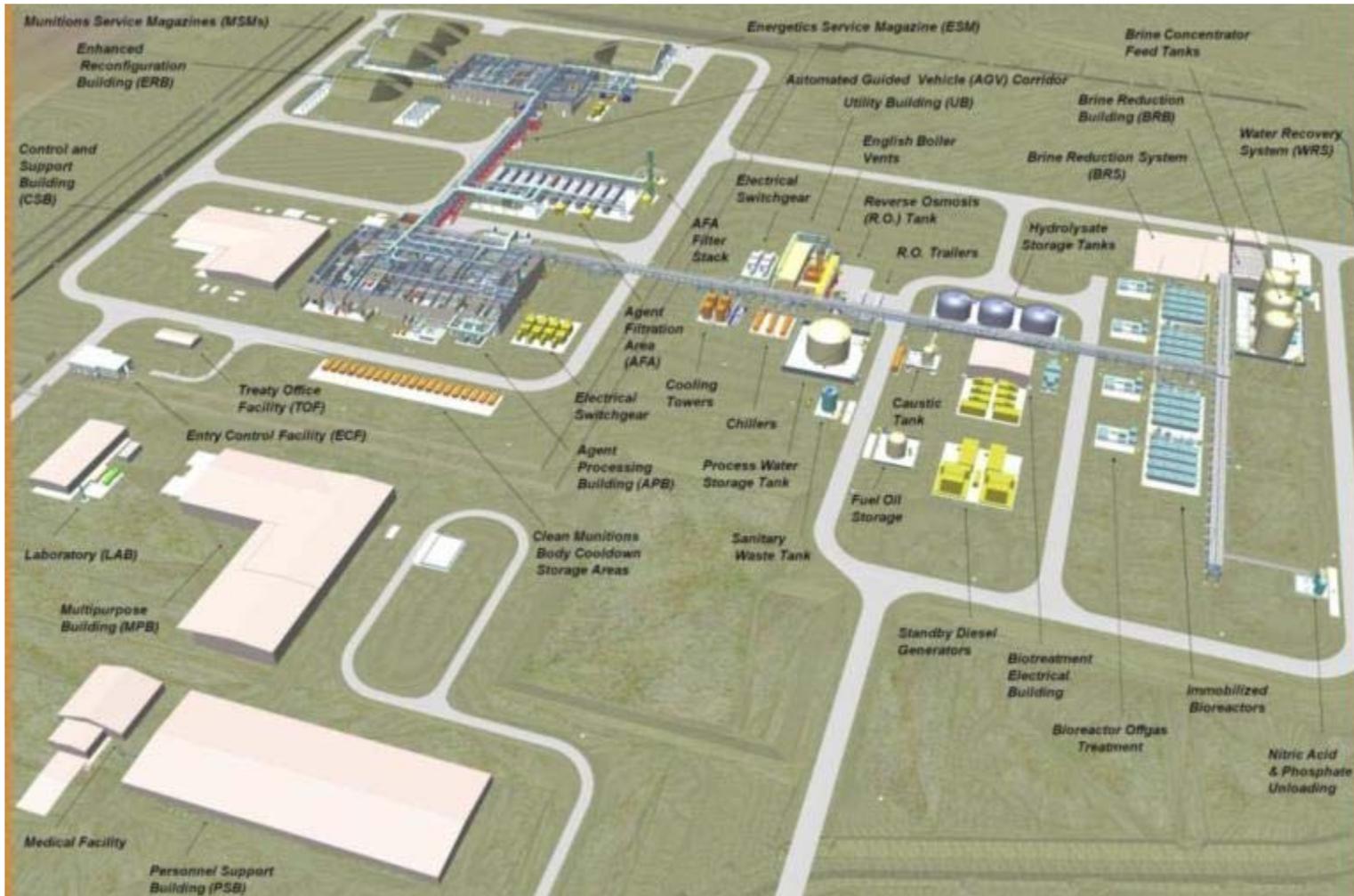
- The Army's Explosive Destruction System (EDS) is augmenting the Pueblo pilot plant's automated destruction technology
- EDS is being used to destroy problematic munitions that are unsuited for automated processing

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



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

- | | | | |
|----------|--|----------|--|
| 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:

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

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*



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:

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 Facility



*Newly added

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Biotreatment Area



Testing will occur over the next several weeks in the Biotreatment Area (BTA). When fully operational, hydrolysate will be pumped into Immobilized Cell Bioreactors where bacteria will consume organic materials. Eventually, this biosludge will make its way to the Brine Reduction System where salt cakes will be produced for later disposal in a permitted treatment, storage and disposal facility.

DPE Entries



PCAPP Entry Support Area (ESA) tenders practice a demilitarization protective ensemble (DPE) entry in the Agent Processing Building. Extensive training is undergone by ESA tenders who perform maintenance activities in toxic areas.

PMD Testing



In the Agent Processing Building, a control systems engineer is “teaching” homing positions to the Munitions Washout System’s robot and troubleshooting its functionality from the teach pendant.

VIP Tours



Maj. Gen. Edward Daly (second from left), listens to Plant Shift Manager Heather McCrory as she explains the process for storing munitions in the Munitions Service Magazine. Col. Thomas Duncan (left) and PCAPP Site Project Manager Greg Mohrman (right) also participated in the tour for Daly, who was in town for meetings with the Inspector General Audit Team.

Contact Information



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Program Executive Office
Associated Chemical Weapons Alternatives

