

Monthly Status Briefing

December 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



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:
1,346

- Pueblo County local hires: 449
- Colorado hires (outside Pueblo County): 155
- From other locations: 742

Employment Opportunities



Positions Currently Available:

AECOM

Control Room Operator (FS107538)
Shift Safety Representative (FS105563)

Battelle

Demil Tech II—Chemical Technician (31480)
Research Scientist—Operations QC Inspector
(30640)
Research Scientist—GC/FPD/MSD Operator
(29582)

Bechtel

Production Control Analyst (139248)
Work Control Clerk (146039)
Mechanical Engineer (136722)
Nurse Practitioner/Physician Assistant (114391)
Nurse Practitioner/Physician Assistant (114389)

Hotline

(719)549-4003

Website

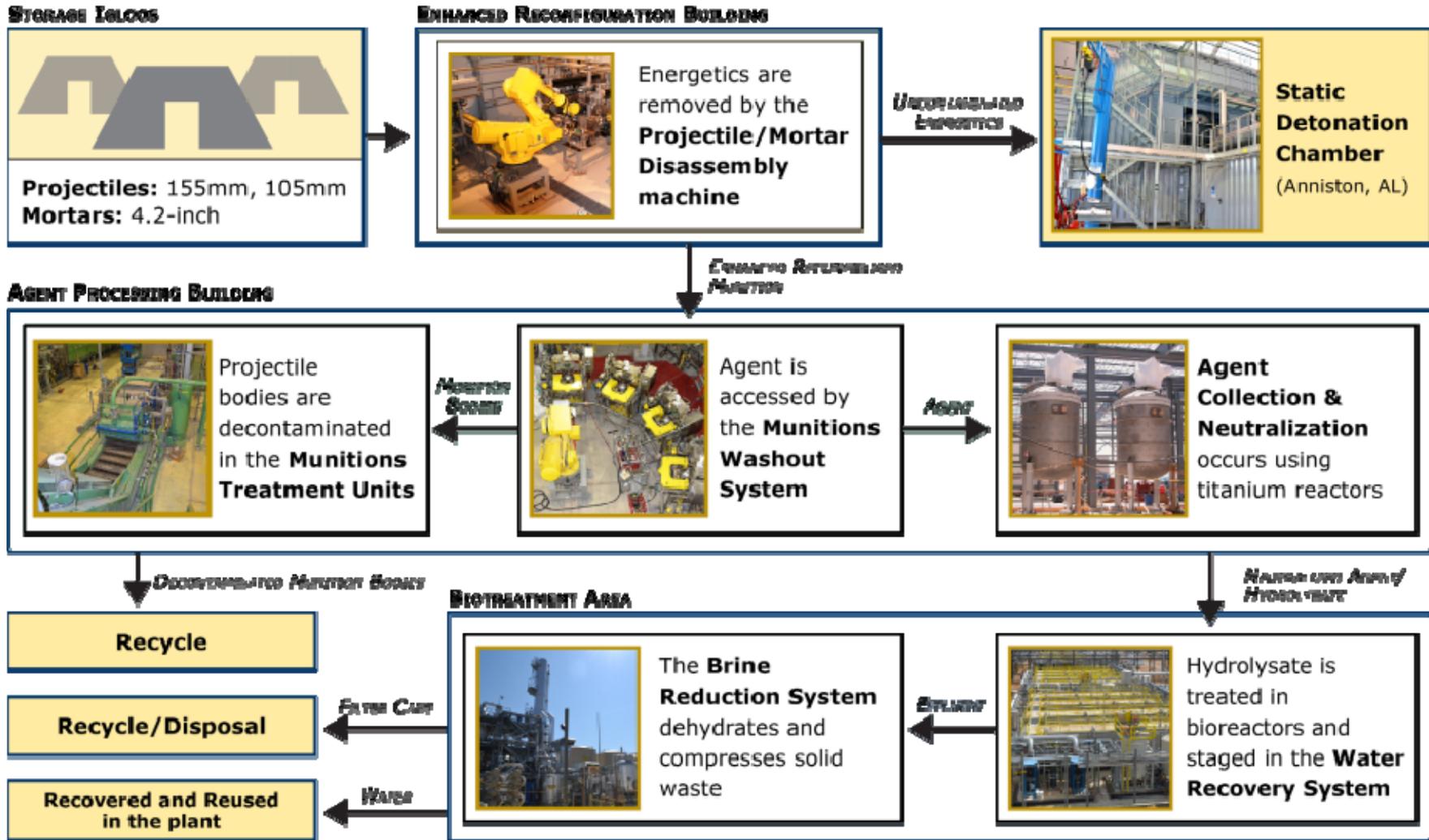
<http://pueblo.bechtel.com>

- *Star Status* granted in the Dept. of Labor's Occupational Health and Safety Administration's Voluntary Protection Plan
- Lost-workday case rate is **0.07**
- The current total recordable injury rate (TRIR) for the year to date (YTD) is **0.36**, 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 16 December 2015, EDS has destroyed 10 DOT bottles, 255 105mm projectiles, 170 155mm projectiles and 42 4.2-inch mortar rounds



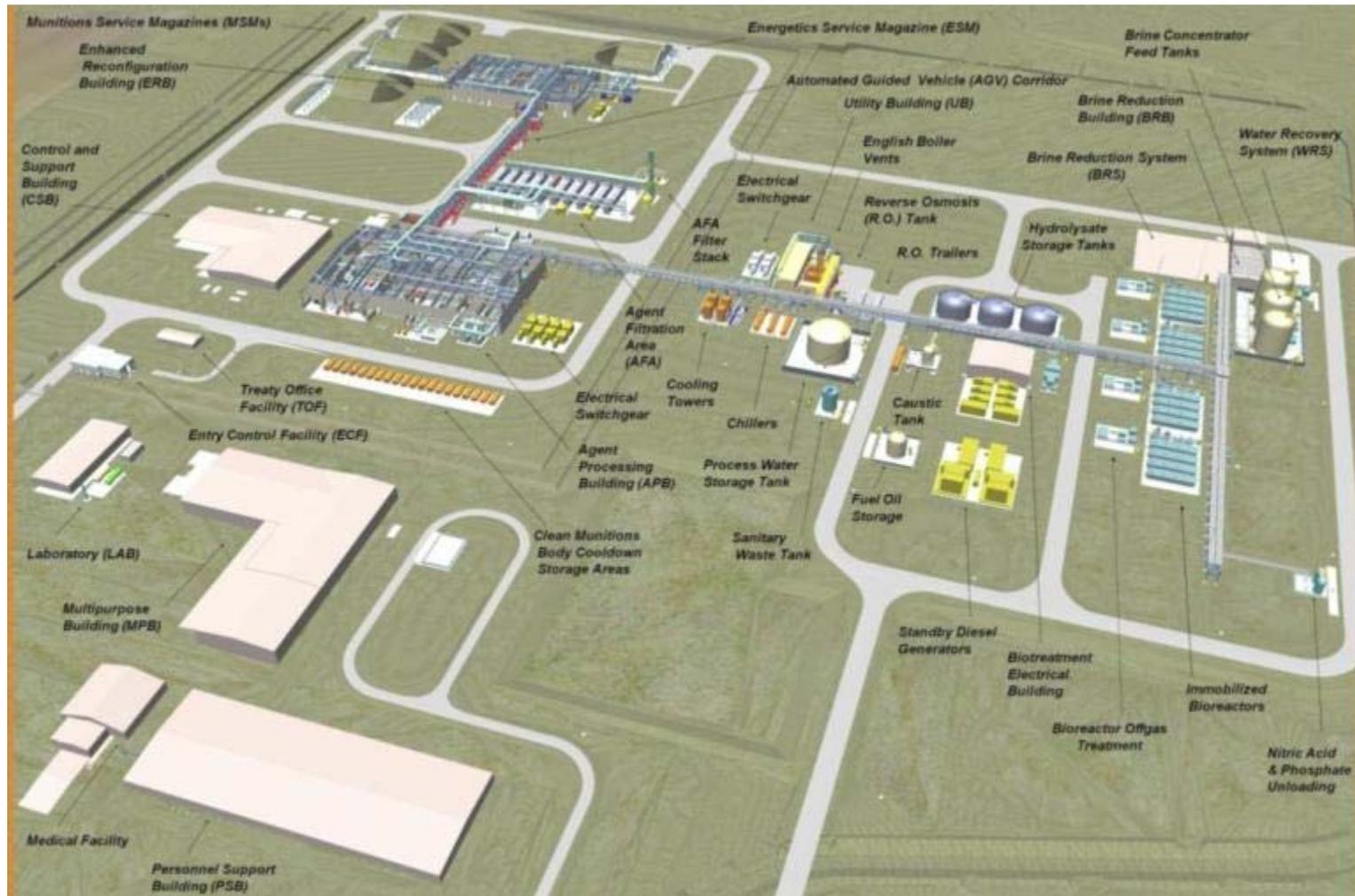
- The Army's Explosive Destruction System (EDS) is augmenting the Pueblo pilot plant's automated destruction technology
- EDS is being used to destroy problematic munitions that are unsuited for automated processing

- 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

- | | | | |
|----------|--|----------|--|
| 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



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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Suit Sealers on Site



Five tanks of thiodiglycol (TDG) were transferred recently into the 30-Day Storage Tanks, left. Testing of the biotreatment process will begin soon now that this first step has been completed.

Contingency Drills Test Readiness



A drill scenario where an employee is possibly contaminated with mustard agent gets a full decontamination treatment by the emergency response team. Drills are being ramped up in preparation for final Integrated Operations Demonstrations.

Practicing for Agent Operations



Baseline Reconfiguration is being conducted on boxed ACWA Test Equipment (ATE). During Baseline Reconfiguration, munitions and their packing material are removed from boxes and sent to the Vapor Containment Room for further processing before making their way to the Explosion Containment Room for energetics removal.

Biotreatment Area Activity



Workers build containment around the Immobilized Cell Bioreactors to complete coatings repairs needed prior to starting surrogate testing. The containment area will likely be used during Biotreatment Area risk reduction operations.

Contact Information



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Program Executive Office
Associated Chemical Storage Alternatives

