

Monthly Status Briefing

May 2016



Pueblo Chemical Agent-Destruction Pilot Plant



Program Executive Office
Assembled Chemical Weapons Alternatives



PCAPP

Pueblo Chemical
Agent-Destruction Pilot Plant

www.peocwa.army.mil

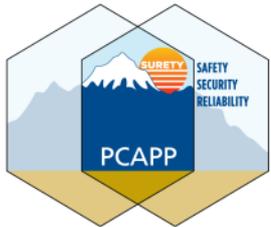


A PARTNERSHIP FOR SAFE CHEMICAL WEAPONS DESTRUCTION

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:
1,340

- Pueblo County local hires: 467
- Colorado hires (outside Pueblo County): 167
- From other locations: 706

Employment Opportunities

Positions Currently Available:

AECOM

Personnel Protective Equipment (PPE)
Technician

Battelle

Research Scientist – GC/MSD/P&T Operator
(37861)
Research Scientist – GC/FPD/MSD Operator
(37400)
Research Scientist – Operations QC Inspector
(35621)
Laboratory QA/QC Inter – Summer 2016
(35740)

Bechtel

Hazardous Waste Shipper Lead (173320)
Work Control Clerk (146039)
Control Systems Engineer (169899)
Nurse Practitioner/Physician Assistant (114389)
Senior Control Systems Engineer (167942)

Hotline

(719)549-4003

Website

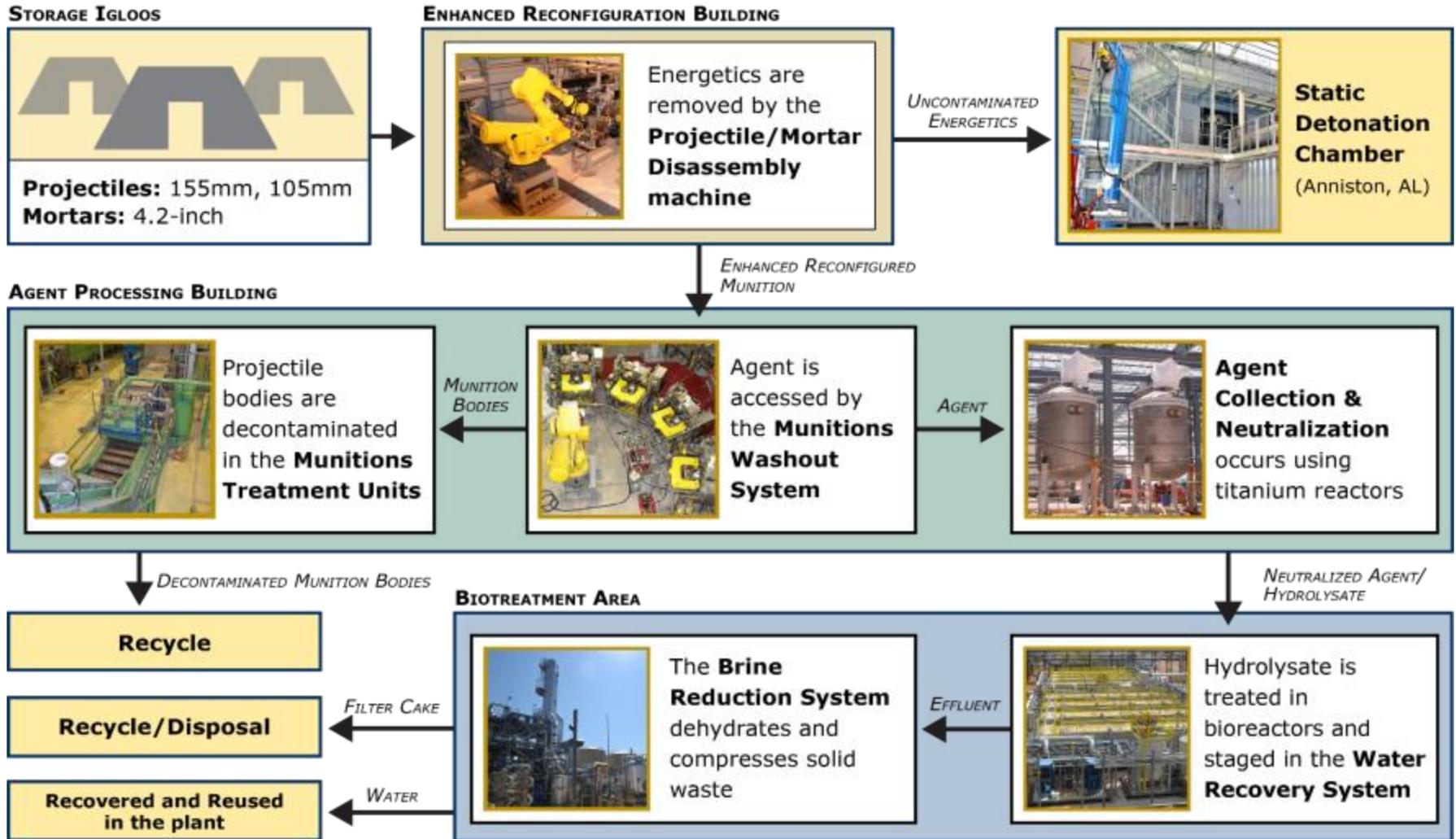
<http://pueblo.bechtel.com>

- *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 **.75**, 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



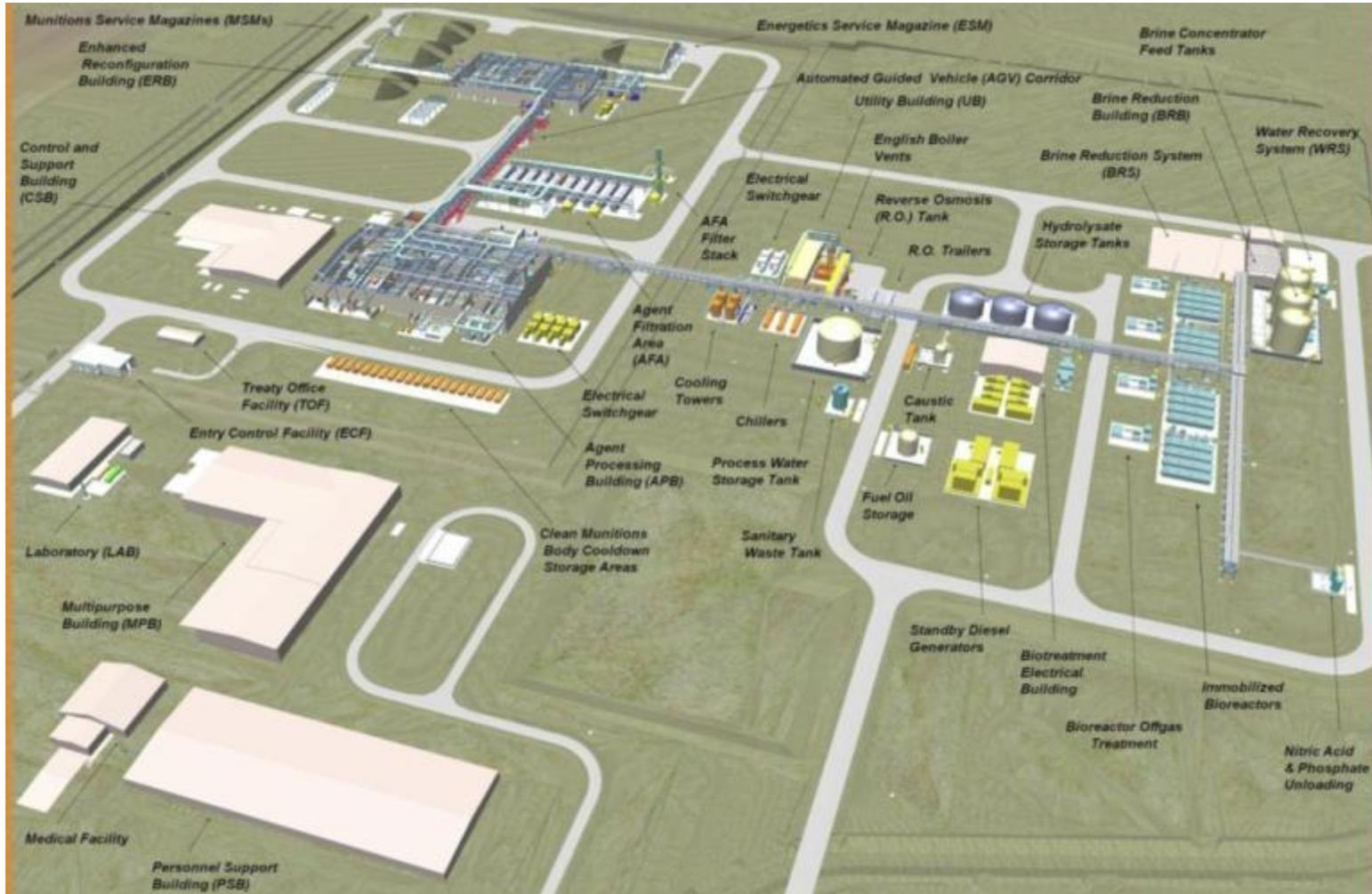
- The Army's Explosive Destruction System (EDS) is augmenting the Pueblo pilot plant's automated destruction technology
- EDS is being used to destroy problematic munitions that are unsuited for automated processing

- 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
Process Data Acquisition and Recording 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
- MINICAMS Maintenance Facility*



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Emergency Response Training



PCAPP's Emergency Response Team (ERT) performs rope rescue training on a man down exercise. Responders practice working together to secure a patient at a high vantage point with a set of ropes to bring them to a waiting ambulance.

Robotic Systems Ready to Roll



The Munitions Washout System in the Agent Processing Building will gravity drain mustard agent from the munitions before going through the neutralization process.

Operations Crew Takes on Systems



The operations team accepts the Bioreactor Off-Gas Treatment System from the start up team, the last step in the systemization process. Once turned over, the operations staff starts running the system as it would during agent operations.

Employees Don Heels for Good Cause



PCAPP employees Walk A Mile In Her Shoes to raise more than \$5,000 for Pueblo Rape Crisis Services on April 9. The annual event was the brainchild of two PCAPP employees who brought the event to Pueblo in 2014.

Contact Information



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