

Monthly Status Briefing

August 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:
1,292

- Pueblo County local hires: 395
- Colorado hires (outside Pueblo County): 133
- From other locations: 764

Employment Opportunities



Positions Currently Available:

AECOM

- Control Room Operator (FS105091)
- Entry Support Area Tender (FS105170)
- M&TE Technician (FS105111)
- Munitions Transporter (FS105169)
- Personnel Protective Equipment Technician (FS105118)

Battelle

- Demil Tech IV—Environmental Compliance Representative (26880)
- Researcher—Operations QC Inspector (26860)
- Researcher – Monitoring QC Inspector (26300)
- Demil Tech III – Monitoring Technician (22621)

Bechtel

- Senior Control Systems Engineer (109077)
- Janitor (131485)
- Control Systems Technologist (117902)
- Control Systems Engineer (109175)
- Senior Control Systems Engineer (109174)
- Part-time Nurse Practitioner/Physician Assistant (113744)
- Nurse Practitioner/Physician Assistant (108350)
- Nurse Practitioner/Physician Assistant (114391)
- Part-time Nurse Practitioner/Physician Assistant (113745)
- Nurse Practitioner/Physician Assistant (114389)

Hotline

(719)549-4003

Website

<http://pueblo.bechtel.com>

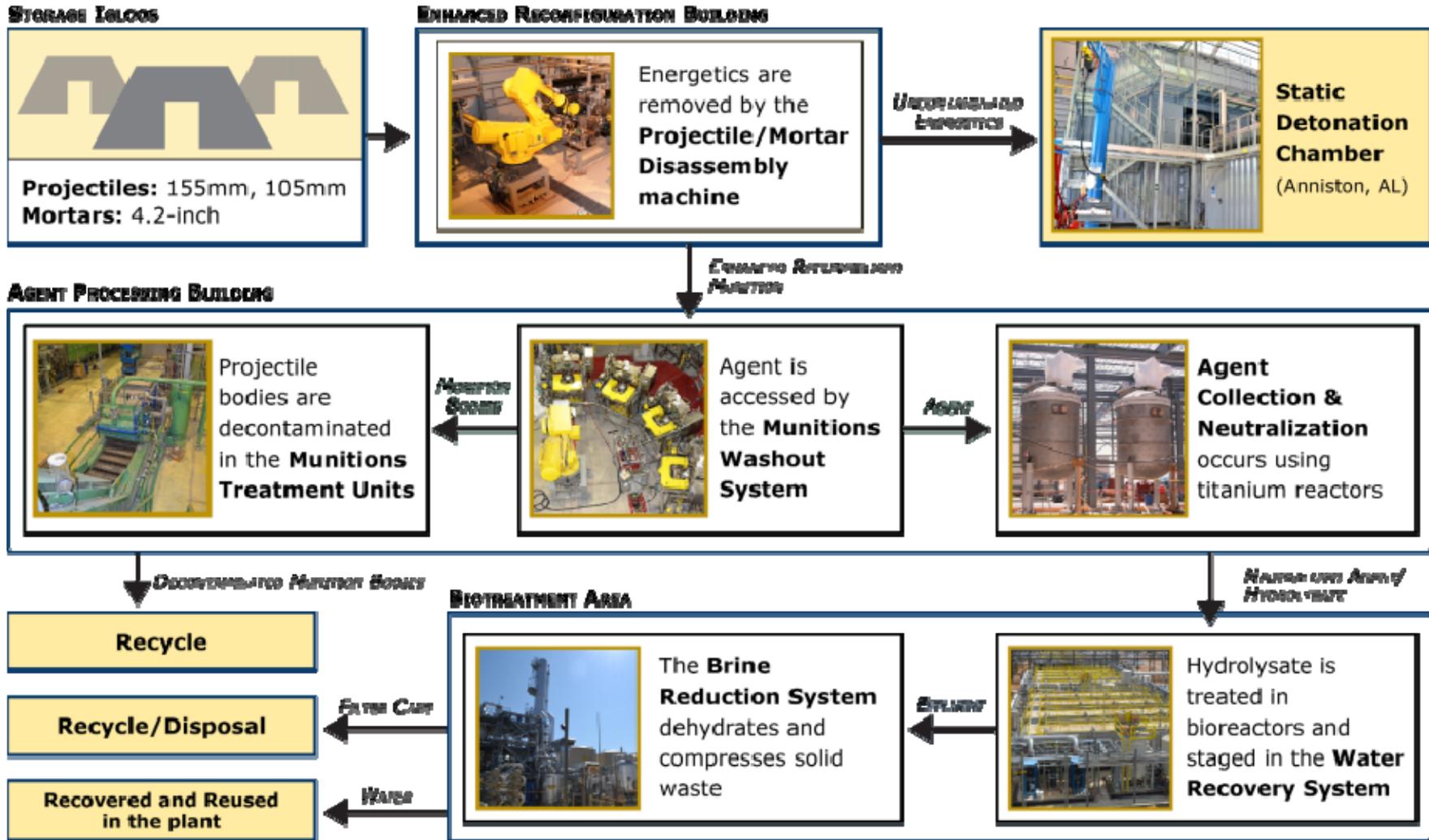


- *Star Status* granted in the Dept. of Labor's Occupational Health and Safety Administration's Voluntary Protection Plan
- Lost-workday case rate is **0.07**
- The current total recordable injury rate (TRIR) for the year to date (YTD) is **0.23**, which is well below the general industry average of **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 10 August 2015, EDS has destroyed 10 DOT bottles, 255 105mm projectiles, 40 155mm projectiles and 42 4.2-inch mortar rounds



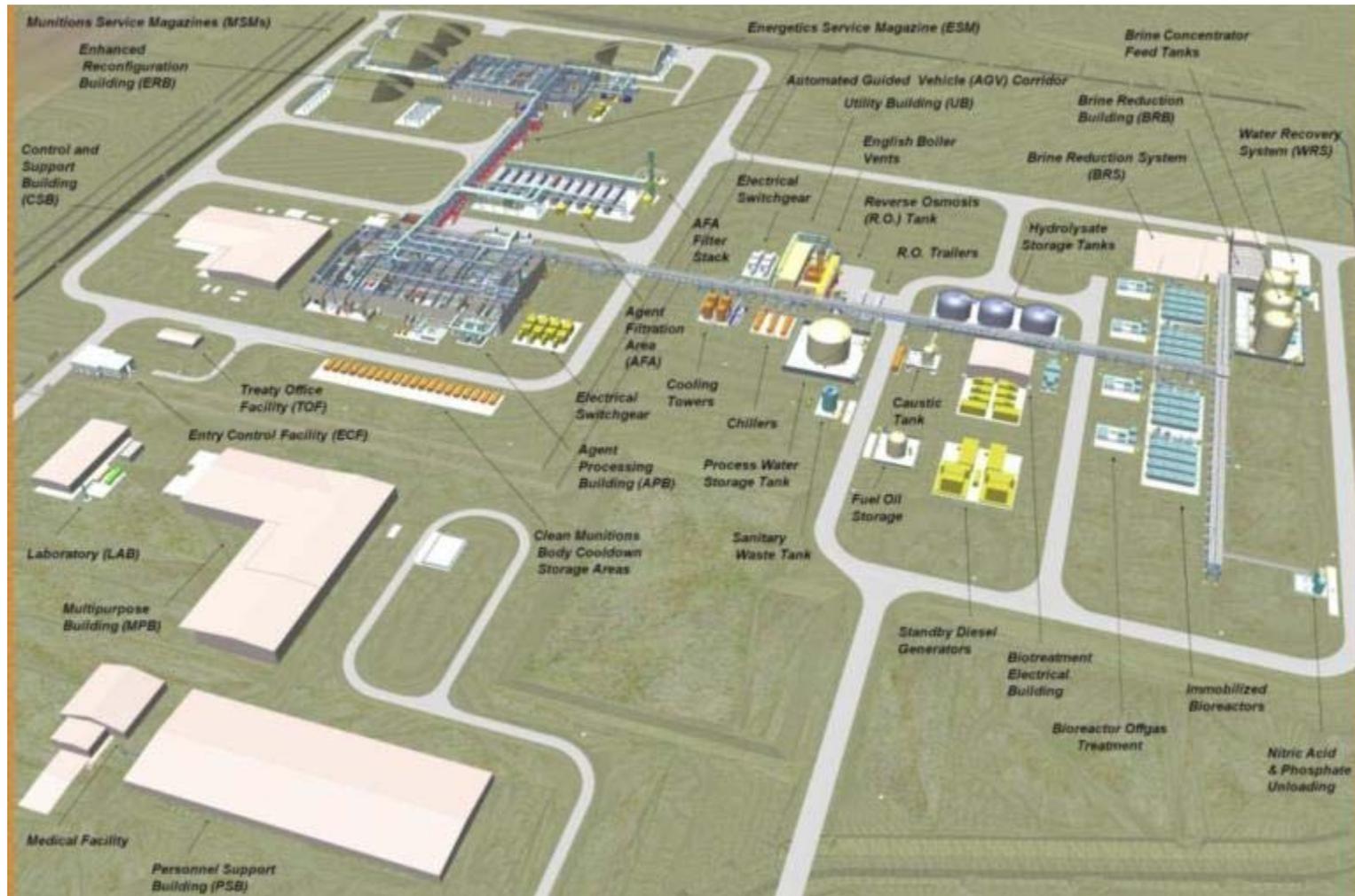
- The Army's Explosive Destruction System (EDS) is augmenting the Pueblo pilot plant's automated destruction technology
- EDS is being used to destroy problematic munitions that are unsuited for automated processing

- 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
Static Detonation Unit



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



*Newly added

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Masks—A PCAPP Requirement



As of July 20, all personnel who work in the PCAPP masking zone are required to wear slung masks, as shown here by three waste operators. Personnel are busy scheduling mask fit appointments for those who have completed the required training.

Agent Standards Arrive



The annual shipment of Stock A mustard agent standards arrive from the Edgewood Chemical Biological Center in July via Tech Escort, the Army carrier for chemical agent standards. The agent standards are used to calibrate laboratory monitoring equipment.

AGVs Turned Over to OPS



Operations staff get the “key” to the Automated Guided Vehicles from start-up personnel. Each system or facility turnover indicates that the unit has been tested and is functioning the way it is intended. Operations personnel can now start training staff with turned over systems.

PCAPP Interns



PCAPP interns closed out their summer internships recently. A total of 27 interns from 20 colleges and universities across the country worked at PCAPP in the engineering, safety, emergency response, project controls and other departments to gain valuable experience in their field.

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

