

Monthly Status Briefing

April 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.



Pueblo Chemical Agent-
Destruction Pilot Plant

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:
1,205

- Pueblo County local hires: 343
- Colorado hires (outside Pueblo County): 112
- From other locations: 750

Employment Opportunities



Hotline

(719)549-4003

Website

<http://pueblo.bechtel.com>

- Lost-workday case rate and total recordable injury rate (TRIR) is **0.07**
- The current TRIR for the YTD is well below the general industry average of **3.5** and the Waste Management Industry rate of **4.7**

*A Lost Time Recordable Injury occurred on Jan. 22, 2015 (**21 months** without a lost time injury or illness and **5.9 million hours** worked).



Step 1



Removal of Energetics

Robotic equipment removes energetics (explosives) from the weapon. The energetics will be disposed of at a permitted facility offsite.

Step 2



Removal of Mustard Agent

The inside of the weapon is remotely accessed and mustard agent is washed out with high-pressure water.

Step 3



Neutralization of Mustard Agent

The mustard agent is neutralized with caustic solution and hot water. The byproduct is called hydrolysate.

Step 4



Biotreatment

Microbes treat the hydrolysate, breaking it down into brine. The brine is separated with water being recycled back to the plant and salt cakes shipped for disposal at a permitted facility.

Step 5



Thermal Treatment and Disposal of Metal Parts

Metal Parts are heated to 1,000 degrees Fahrenheit for 15 minutes and can then be recycled.

Neutralization followed by biotreatment will be used to destroy the Colorado chemical weapons stockpile.

Explosive Destruction System

As of 15 April 2015, EDS has destroyed 10 DOT bottles and 21 105mm projectiles



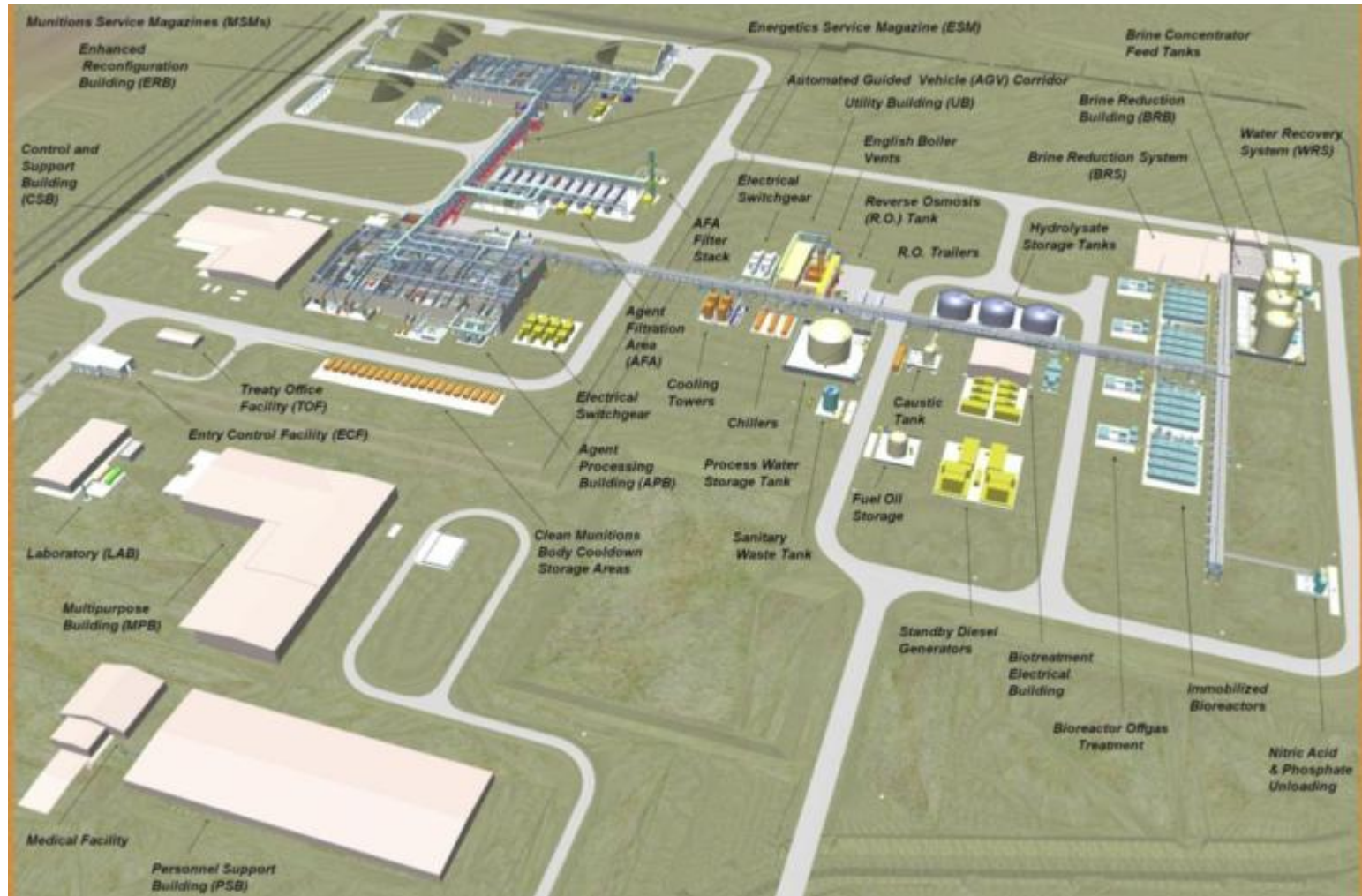
- EDS uses explosive “cutting” charges to access the chemical agent inside a munition; neutralization chemicals are then added to destroy the chemical agent

- 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



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 |

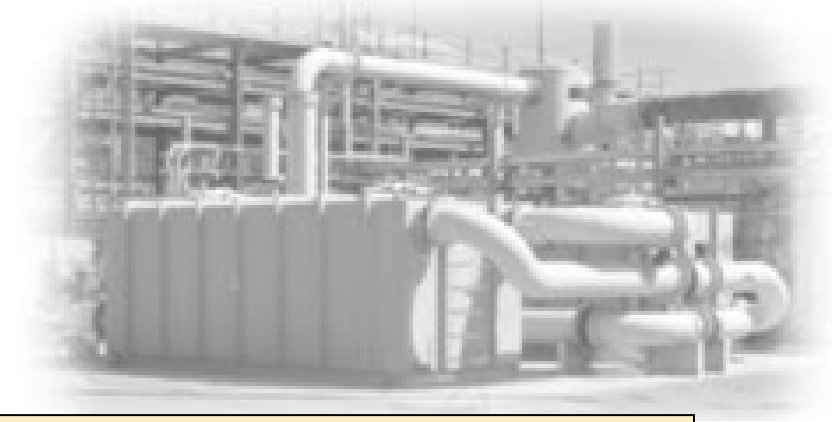
Turnover to Operations

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



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*



*Newly added

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Agent Drill in APB



Ordnance technicians working in the Agent Processing Building practice what to do if someone gets hurt. During the drill, the techs were also monitored for agent contamination.

Fireproofing Continues



Subcontractors have been very busy fireproofing steel members in the Agent Processing Building. The fireproofing will provide additional protection to the area in the event of an incident.

MSM Turnover to Operations



Startup Specialist Josh Phillips, Electrical Technicians Damon Trumps and Justin Powers and Work Control Coordinator Gerald Ure turn over the Munitions Service Magazine and Energetics Service Magazine to Ordnance Technicians Lance Morrison and David Sinclair.

Walk A Mile in Her Shoes



PCAPP employees participated in Pueblo Rape Crisis Services' (PRCS) 2nd Annual Walk A Mile in Her Shoes event. With a combined corporate contribution and employee donations, PCAPP raised more than \$10,000.

Contact Information



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