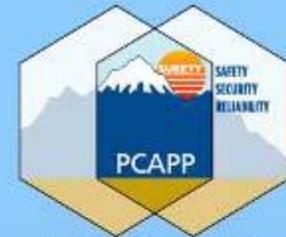


Monthly Status Briefing

May 2010



Pueblo Chemical Agent-Destruction Pilot Plant

PCAPP
Pueblo Chemical
Agent-Destruction Pilot Plant

A PARTNERSHIP FOR SAFE CHEMICAL WEAPONS DESTRUCTION

Project Background



- 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.
- Neutralization followed by biotreatment is the technology selected by the Department of Defense to destroy the Pueblo chemical weapons stockpile.
- The Program Manager, 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 Bechtel Pueblo Team (BPT) is a partnership of Bechtel National, Inc., the EG&G Division of URS Corporation, Parsons, and Battelle Memorial Institute. The BPT functions as the systems contractor selected to design, build, systemize, pilot test, operate, and close the PCAPP.



Bechtel Pueblo Team



Systems Contractor

- Project management
- Business services
- Safety and quality



- Design/engineering
- Procurement/subcontracting
- Construction

Teaming Subcontractors

- Systemization
- Pilot testing
- Operations
- Closure

- Process design
- Process equipment fabrication
- Support to systemization and operations

- Environmental permitting and compliance
- Laboratory management
- Pilot testing

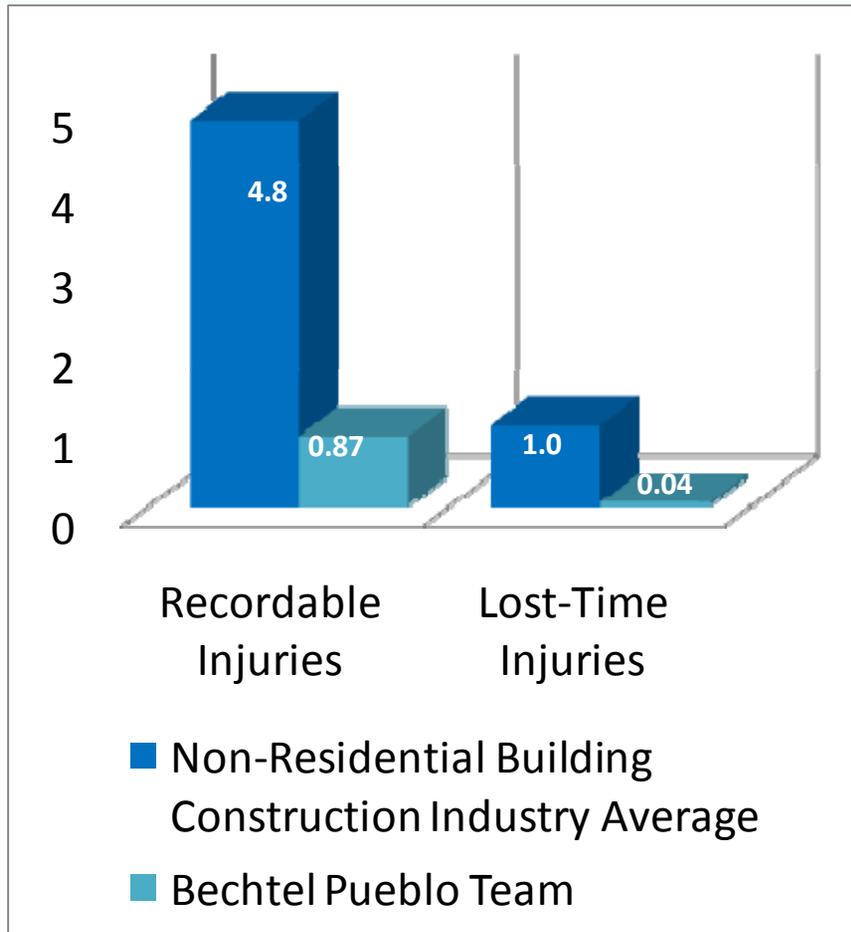


Staffing

- Bechtel Pueblo Team non-manual: **358**
 - Pueblo: 355 (105 local hires)
 - Other locations: 3
- Construction Workers:
 - Bechtel direct-hire: 302
 - Subcontractor personnel: 84



Safety



As of April 30, 2010, PCAPP Project staff have accomplished:

- 555 Safe Work Days
- 1,934,818 Safe Work Hours



The industry average , provided by the Bureau of Labor Statistics, is based on accidents per 200,000 job hours.

Subcontract Awards

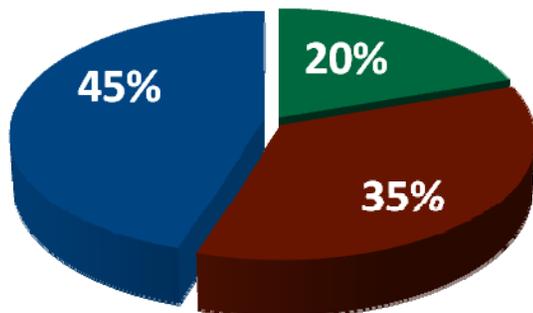
Inception to date, as of April 30

\$380.9 Million

\$ 75.6 Million to Pueblo County Businesses (**20%**)

\$131.9 Million to Colorado Businesses (Outside Pueblo County, **35%**)

\$173.4 Million to Businesses Outside Colorado (**45%**)



-  Pueblo County
-  Colorado
-  Outside Colorado



Acquisition Awards Status

FY 2010 Upcoming Request for Proposals

Materials

- Misc. construction and architectural materials
- Public address/general alarm system
- Tank agitators
- Treaty trailer facilities
- Misc. piping items

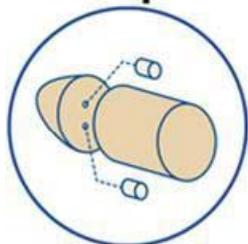
Subcontracts

- Piping equipment and heat tracing
- Enhanced Reconfiguration Building membrane roof liner
- Chemical limited area security fencing
- Asphaltting



Destruction Technology

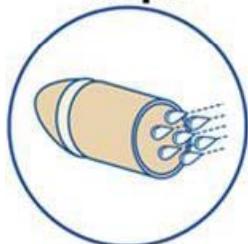
Step 1



REMOVAL OF ENERGETICS

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

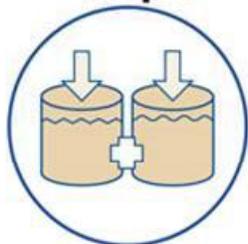
Step 2



REMOVAL OF MUSTARD AGENT

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

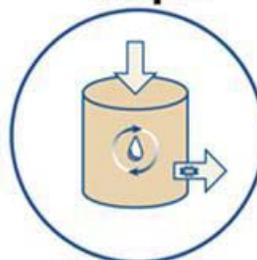
Step 3



NEUTRALIZATION OF MUSTARD AGENT

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

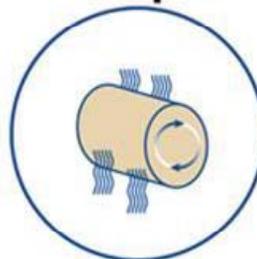
Step 4



BIOTREATMENT

The hydrolysate is treated with microbes that break down the solution into water and biosludge. Water is recycled in the plant, and biosludge is shipped for disposal at a permitted facility.

Step 5

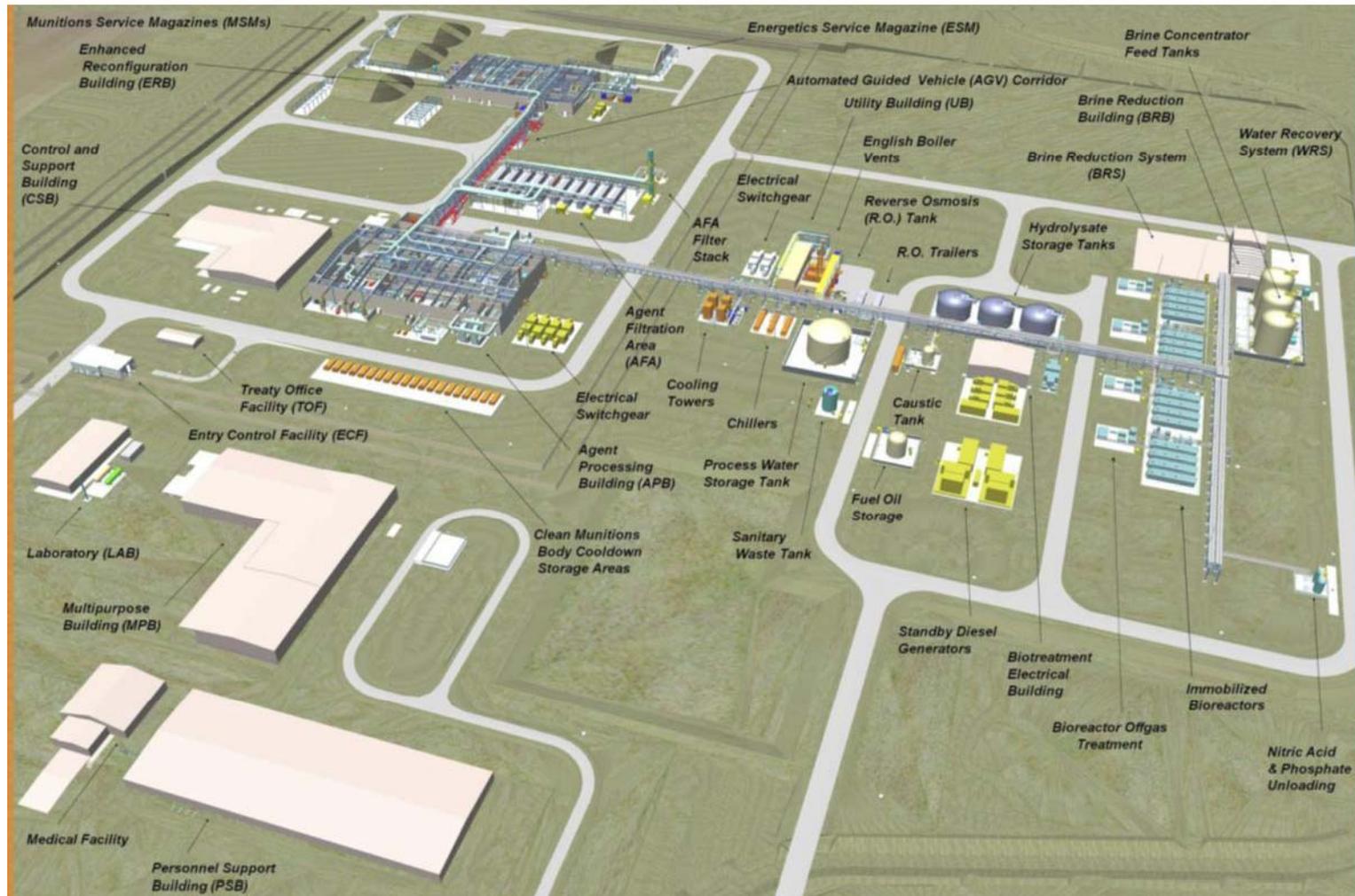


DISPOSAL OF METAL PARTS

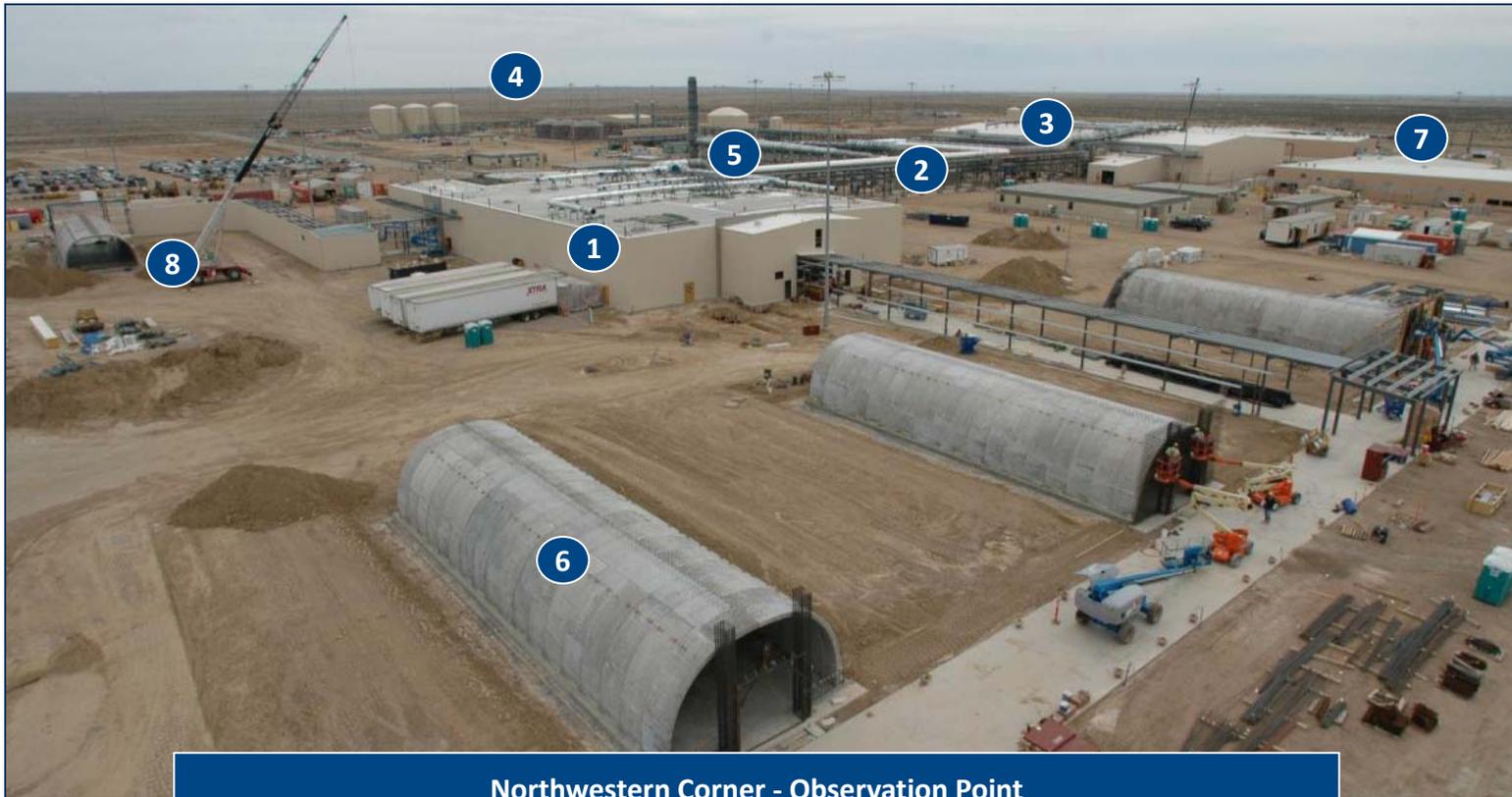
Metal parts are heated to 1,000 degrees Fahrenheit for 15 minutes and can then be recycled.

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

Pueblo Chemical Agent-Destruction Pilot Plant—Site Plan



PCAPP Site Overview



Northwestern Corner - Observation Point

- 1 Enhanced Reconfiguration Building
- 2 Automated Guided Vehicle Corridor
- 3 Agent Processing Building
- 4 Biotreatment Area
- 5 Air Filtration Area
- 6 Munitions Service Magazine
- 7 Control and Support Building
- 8 Energetics Service Magazine



Construction Status – Complete

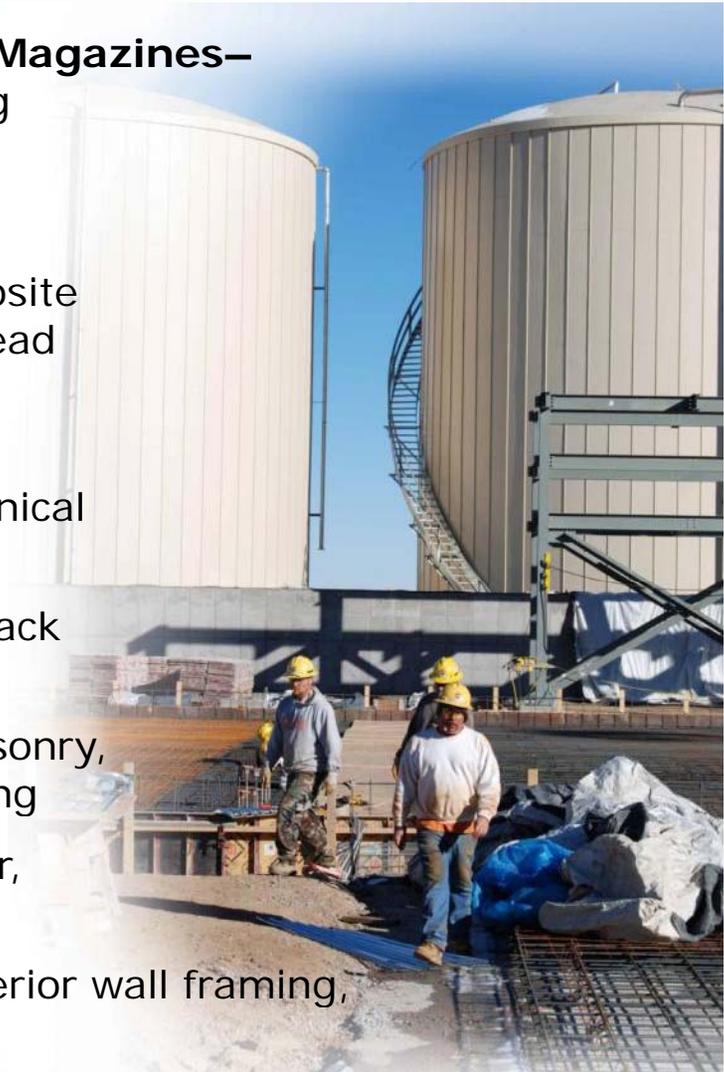
- Pre-cast concrete arches for the munitions and energetic service magazines
- Siding and roofing for the Control and Support Building and the Biotreatment Electrical Building
- Concrete foundation pads for off-gas and immobilized cell bioreactors
- Concrete foundation walls and slab for the entry control facility
- Concrete foundation pads for off- gas and immobilized bioreactors
- Standby diesel generator foundation
- Initial fire proofing of structural steel in the Enhanced Reconfiguration Building



Construction Status – In Progress



- **Energetic Service Magazine & Munitions Service Magazines**—rebar and formwork/structural steel, siding and roofing
- **Entry Control Facility**—installation of exterior concrete masonry unit walls
- **Enhanced Reconfiguration Building**—interior composite walls/roof, HVAC, explosion containment rooms overhead crane and rails, electrical
- **Agent Processing Building**—Misc. platform erection, HVAC, cable tray, process piping, electrical and mechanical equipment, composite walls, coatings
- **Balance of Facilities**—cable tray and supports, pipe rack piping, misc. foundations
- **Subcontractors**—HVAC, fire protection/detection, masonry, architectural, coatings, insulation HVAC, fencing, roofing
- **Immobilized Cell Bioreactor & Off-Gas Pads**—rebar, formwork equipment pads/curbs
- **Control Support Building**—HVAC, fire protection, interior wall framing, electrical

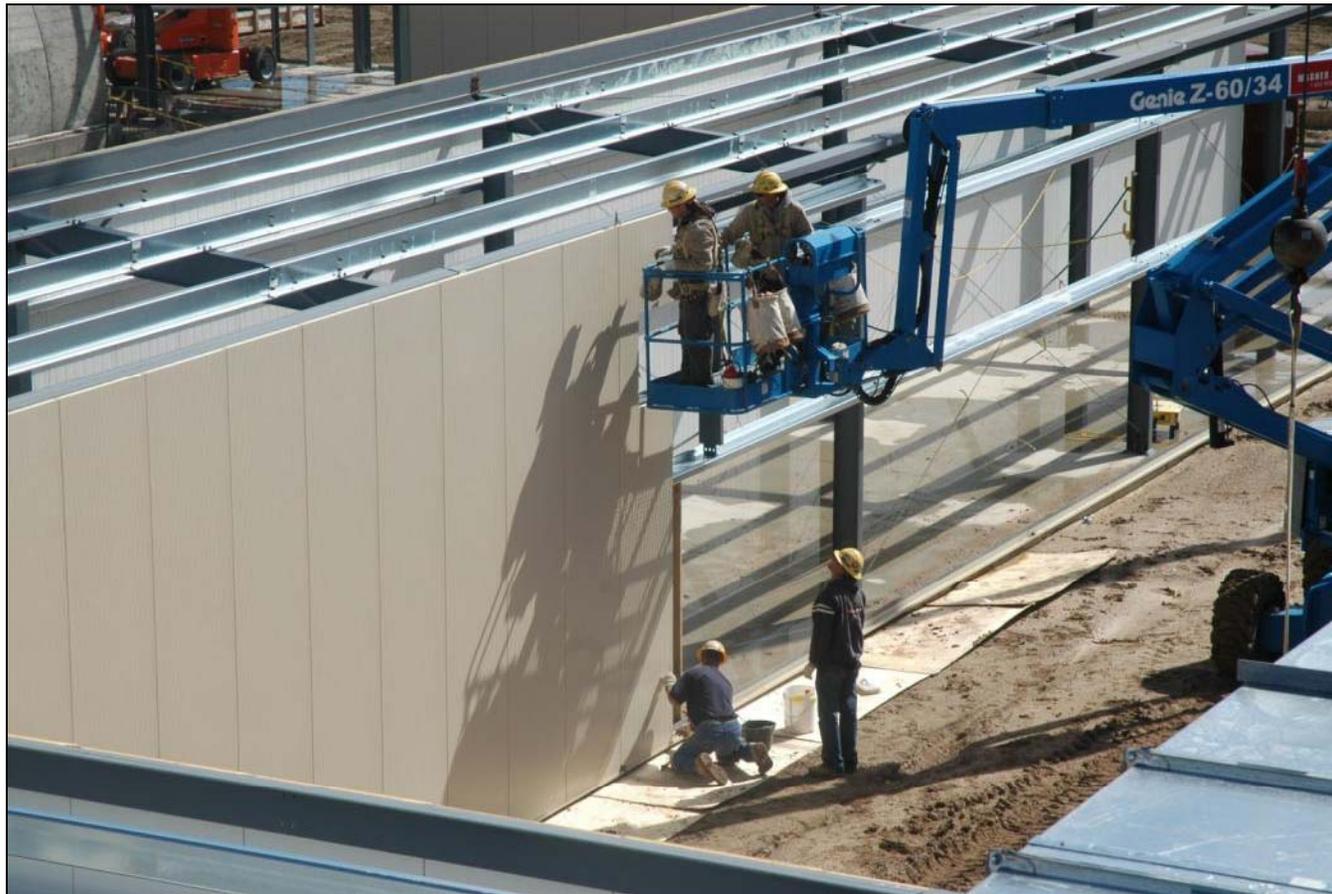


Munitions Service Magazines



Progress continues on the Munitions Service Magazines with installation of rebar, formwork, structural steel, siding and roofing.

Energetics Service Magazine



Workers install siding on the Energetics Service Magazine (ESM) corridor. The ESM corridor connects the ESM to the Enhanced Reconfiguration Building.

Entry Control Facility



Masons install concrete masonry unit exterior walls for the Entry Control Facility.

Agent Processing Building



Inside the APB, workers continue to install HVAC, cable tray, process piping and electrical and mechanical equipment.



Agent Processing Building



Two munition treatment units (MTU) are in place and await systemization. The MTUs will thermally treat any residual agent left in the drained munitions.



Contact Information



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U.S. Army Element, Assembled
Chemical Weapons Alternatives

