

Pueblo Chemical Agent-  
Destruction Pilot Plant

*May 2007*

**A Partnership for Safe Chemical Weapons Destruction**

# **Monthly Status Briefing**

**Pueblo Chemical Agent-Destruction Pilot Plant**



# Project Background

## A Partnership for Safe Chemical Weapons Destruction

- **The Pueblo Chemical Agent-Destruction Pilot Plant (PCAPP) will safely destroy 2,611 tons of mustard agent in mortar and artillery projectiles stored at the U.S. Army Pueblo Chemical Depot in Pueblo, Colorado.**
- **The technology selected by the Department of Defense to destroy the Pueblo chemical weapons stockpile is neutralization followed by biotreatment.**
- **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 both Colorado and Kentucky.**
- **The Bechtel Pueblo Team, a partnership of Bechtel National, Inc.; Washington Demilitarization Company; Parsons; and Battelle Memorial Institute, is the systems contractor selected to design, build, systemize, pilot test, operate and close the PCAPP.**

# Safety

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**PCAPP employees have  
worked more than  
2.45 million job hours  
without a lost-time injury**



**Safety Manager Terry Wells  
checks equipment that will be  
used to stretch fabric over Access  
Control Point structures.**



# Current Safety Emphasis

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## Managing Transition

- Relocation of Home Office Personnel to the Field Environment.
- Learning curve for new employees to the Project as well as culture change.
- Coordination of multiple Contractors and Direct Hire Personnel working in a concentrated area.



# Current Safety Emphasis

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## Tools to Aid the Transition

- PCAPP Safety Absolutes
- New Employee Safety Orientation
- Safety Leadership Workshops
- People Based Safety for all employees
- Life Critical Behavior Assessments being utilized to identify leading indicators
- Specialized Safety Training ( Confined Space Training, Fall Protection Training, Lockout/Tagout Training and other just-in-time training)

# Project Staffing

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- **Bechtel Pueblo Team employs 178 personnel located as follows:**
  - Pueblo: 110 (20 local hires)
  - San Francisco: 16
  - Frederick, MD: 32
  - Other: 20
- **Subcontractor construction workers on site: 50 - 75 each day**



# Acquisition Awards Status

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## **Total Awards - \$55.4 Million**

- \$22.6 Million to Businesses in Pueblo County
- \$15.7 Million to Colorado Businesses (Outside Pueblo County)
- \$17.1 Million to Businesses Outside Colorado

## **69% of Awards to Pueblo County & Colorado Businesses**

- 41% of Awards to Pueblo County
- 28% of Awards to Colorado Businesses (Outside Pueblo County)

As of 30 April, 2007



# Acquisition Awards Status

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## FY 2007 Upcoming Awards:

- Communication Cable Services
- Fencing
- Multi-purpose Building (multiple awards)
- Materials Testing Services
- Shop Fabricated Tanks
- Bulk Pipe, Valve, Fittings and Flanges
- Reinforcing Steel (rebar), Structural Steel
- Fabricated Pipe (Carbon steel, Stainless steel, Hastalloy)
- Miscellaneous Construction Services to Include:
  - Ice Services, Bottled Water Services, Fabrication Services, Welding Supplies, Construction Lumber, Bottled Gases, and Paint/Sandblasting, Bulk Structural Shapes



# Multi-Purpose Building

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## The Multi-Purpose Building:

- First “vertical construction” on the plant site
- Approximately 40,000 square feet
- Current awards:
  - Building shell: Industrial Constructors and Managers, Inc., Pueblo, CO, \$1.6 million
  - Architect/engineer services: AES Group, Parker, CO, \$200,000
- Future awards:
  - Civil/Foundation
  - Plumbing
  - Electrical
  - Mechanical
  - Finish



# Construction Update

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- **Stage 1A**
  - Road - 100% complete
  - Fence - 100% complete
  - Access Control Point – 83% complete
  
- **Stage 1B**
  - Site clearing - 80% complete
  - Duct banks - 75% complete
  - Underground Utilities - 11% complete
  - Temp Power/High Mast Lights – 5% complete
  
- **Stage 2**
  - Multi-Purpose Building – *Awarded in April, subcontractor mobilizing*
  - Gas Supply Line – *May award*
  - Utility Building – *June award*
  - Substation Upgrade
  - Control and Support Building
  - Planning to start direct-hire construction Sept '07

# Power and lights coming to site

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**These copper cables are being installed as part of the new electrical power and high-mast lighting for the construction site.**





# Northwest Passage Access Road

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**Road is complete and will open in the spring  
when the new Access Control Point is operational.**



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# Access Control Point

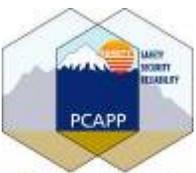
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## Vehicle Inspection Station



## Identification and Registration Building



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# Electrical Duct Banks

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**Concrete pump (foreground) is used to fill around electrical conduit; crane (background) lifts manholes into place**



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# Electrical Duct Banks

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**Workers from Gash Electric installing electrical duct banks**



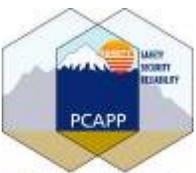
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# Electrical Duct Banks

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**Setting manhole in proper position. Worker at upper left is giving directions to crane operator.**



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# Electrical Duct Banks

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**Workers from Gash Electric place concrete  
around electrical conduits.**



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# Stormwater Control

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**The stormwater system will control runoff from the plant site**

# Stormwater Control

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**Workers from RBK Construction place culverts**



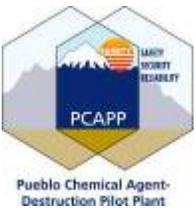
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# Stormwater Control

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**Global positioning system is used  
to place culverts at proper elevation**



# Springtime In The Rockies

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Heavy rains in April provided a good test of the construction storm water control system. The drainage system and detention basin worked as designed.





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# CAC Site Tour

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**Members of the Colorado Chemical Demilitarization Citizens' Advisory Commission, along with representatives of the Colorado Department of Public Health and Environment, toured the construction site April 23.**





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# Pueblo Chemical Agent- Destruction Pilot Plant

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PCAPP Final Design