



Pueblo Chemical Agent-  
Destruction Pilot Plant

*August 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.**

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



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

# Staffing

## A Partnership for Safe Chemical Weapons Destruction

- Total Bechtel Pueblo Team: 132
  - Pueblo – 108 (26 local hires)
  - Other locations – 24
- Construction subcontractor employees: 75 – 100 daily



# Project Management Team

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**Top Pueblo managers review drawings from recently completed design package. From left – Bechtel Pueblo design-build manager, Doug Omichinski; Bechtel Pueblo deputy project manager, Valerie McCain; US Army Corps of Engineers senior resident engineer, Fawzy Makar; ACWA site project manager, Gary Anderson; and Bechtel Pueblo project manager, Paul Henry**



# Acquisition Awards Status

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## **Total Awards - \$65.5 Million**

- \$28.7 Million to Businesses in Pueblo County
- \$17.6 Million to Colorado Businesses (Outside Pueblo County)
- \$19.2 Million to Businesses Outside Colorado

## **71% of Awards to Pueblo County & Colorado Businesses**

- 44% of Awards to Pueblo County
- 27% of Awards to Colorado Businesses (Outside Pueblo County)

As of 31 July 2007



# Acquisition Awards Status

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## FY 2007 Upcoming Awards:

- Multi-purpose Building (Civil)
  - Finishing & Plumbing
  - Mechanical
  - Electrical
- Large Equipment Rental
- Pest Control Services
- Reinforcing Steel (rebar), Structural Steel
- Fabricated Pipe (Carbon steel, Stainless steel, Hastalloy)
- Unarmed Guard Services
- Miscellaneous Construction Services to Include:
  - Fabrication Services, Welding Supplies, Construction Lumber, Bottled Gases, and Paint/Sandblasting



# 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



# Construction Status

## A Partnership for Safe Chemical Weapons Destruction

- Access road and fence complete
- Electric duct bank complete
- Access Control Point to open shortly
- Stormwater control system 88%
- Temporary power and high-mast lights 74%
- Underground utilities 62%



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# Access Control Point

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**Pueblo project managers go over final details in preparation for the opening of the Access Control Point through which all vehicles entering the project site must pass**

# High-Mast Lighting

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**Powerful high-mast lighting will illuminate the construction site. These photos show how the earth is mechanically bored to place the foundation for each mast.**



# Aberdeen Property Transfer

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## Significant Cost Savings

**Transfer of Excess Government Property  
From Aberdeen to Pueblo**



# Opportunity and Challenges

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### OPPORTUNITY

- Significant inventory available from the now-closed Aberdeen Chemical Agent Disposal Facility
- Potential savings of ~ \$10 million for PCAPP (and \$450,000 for Blue Grass)

### CHALLENGES

- Working within accelerated Aberdeen closure schedule
- Evaluating condition, suitability, and potential use of equipment
- Obtaining warehouse space at Pueblo
- Dealing with large volume of property lists



# Types of Equipment/Material

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- **Process equipment**
  - IONEX filter
  - Autoclave units
- **Laboratory and analytical equipment**
- **Medical supplies**
- **Safety and environmental supplies**
- **Office equipment**
- **Construction tools and consumables**
- **PCAPP received approximately 40 shipments from Aberdeen between October 2005 and April 2007**



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# Materials transferred to PCAPP

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<b>MATERIAL</b>	<b>TRANSFER VALUE</b>
Miscellaneous Tools	\$17,240.90
Job Boxes	\$9,065.00
Spreader Bar	\$7,100.00
Servers & Storage Works Enclosure & Ultrium Tapes	\$9,233.00
Digital Recording Thermometers & Fire Retardant Plastic	\$2,152.54
Sea-van & Microwave Ovens	\$2,099.97
Titanium Parts & Misc. Tools	\$71,958.56
Handheld Radios	\$42,541.97
Scaffolding	\$28,820.90
Drum Liners, PH Meters, Pumps, Absorbent Pads	\$15,339.00
Clocks, Switches & Boom Lift	\$67,178.00
Computers, Printers, Monitors	\$71,198.72
Safety & Environmental Equipment	\$12,324.88
Handheld Radios & Miscellaneous Tools	\$89,724.06
Office Equipment (Desk & Cabinets)	\$11,407.60
Gauges	\$705.00
Construction Tools & Consumables	\$61,288.47
Glovebox/Glovebox Panel	\$675,936.00
Sea-vans, AC's, Flatbed Trailers, Farm Wagon	\$83,414.68
Autoclaves (accessories, forklift, powerpusher)	\$393,542.00
Environmental Supplies for Spill Containment (Drain Cover, Absorbent Pads, Absorbent Pillows)	\$986.00
Cabinet, Minicam Agent Detection System & Interface, Process Control	\$14,640.00
CCTV Equipment	\$30,191.75
Medical Supplies	\$50,710.53
Rack, Instrument, XSD Double Cabinet	\$27,900.00
Minicams Components, Analytical Instrumentation and Components, DAAMS Components, Lab Accessories	\$4,630,287.80
Titanium Parts & Scrap	\$123,785.80
IONEX Filters (2 = 1 set)	\$3,547,747.63
<b>TOTAL</b>	<b>\$10,098,520.76</b>



# Benefits

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- **Value of PCAPP transferred equipment exceeds \$10 million, compared to packaging and transportation incurred costs of \$120,000**
- **Significant cost avoidance in procurement of new materials and equipment**
- **Transferred equipment will be used during construction, systemization and operations**
- **PCAPP staff obtained onsite warehouse from Pueblo Depot Activity Development Authority, which now receives revenue from leasing to PCAPP**



# PCAPP 90-day look ahead

## A Partnership for Safe Chemical Weapons Destruction

- **Access Control Point staffed and operating**
- **Direct-hire construction**
- **Multipurpose building**
- **Natural gas pipeline**



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# Pueblo Chemical Agent- Destruction Pilot Plant

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PCAPP Final Design