

**Colorado Chemical Demilitarization Citizens' Advisory Commission Meeting**  
**Olde Towne Carriage House**  
**28 Jan. 2015**

Approximately 36 individuals representing the Colorado Chemical Demilitarization Citizens' Advisory Commission (CAC); Colorado Department of Public Health and Environment (CDPHE); Chemical Materials Activity (CMA), Recovered Chemical Materiel Directorate; Federal Emergency Management Agency Region VIII; Chemical Stockpile Emergency Preparedness Program; Pueblo City Council; Pueblo Chemical Agent-Destruction Pilot Plant (PCAPP); Pueblo County Planning and Development; Program Executive Office, Assembled Chemical Weapons Alternatives (PEO ACWA); U.S. Army Pueblo Chemical Depot (PCD); and U.S. Sen. Michael Bennet's Pueblo office attended this meeting held at the Olde Towne Carriage House in Pueblo. Five citizens were also in attendance.

Irene Kornelly, chair, CAC, called the meeting to order at 6 p.m.

Kornelly asked for and received approval of the minutes from the 10 December CAC meeting. Meeting calendar for 2015 was approved at the 10 December meeting. She had no project updates. She asked Dwight Gardner, regional director for U.S. Sen. Michael Bennet, for legislative updates. He had none.

Lt. Col. Michael Quinn, commander, PCD, provided a depot update. Quinn announced Don Barclay's last day with CMA will be 28 Feb. Barclay will become deputy program executive officer for ACWA. Quinn also announced 16 new employees have been hired since the last CAC meeting, bringing the total number of PCD employees to 375.

CAC member Ken Griffin asked about potential security threats in light of world events. Quinn said PCD's security force is in touch with local law enforcement. Safety of the stockpile and community are first and foremost.

Doug Knappe, unit leader, Hazardous Waste Permitting Unit, CDPHE, provided an environmental permitting update. The compliance permit for PCAPP Explosive Destruction System (EDS), including sampling and emissions, was discussed. This permit must be approved before EDS treatment activities can begin. The PCAPP Contingency Plan was approved, which includes procedures and capabilities in an emergency.

Bruce Huenefeld, site project manager (SPM) for EDS, introduced Greg Mohrman as the new PCAPP SPM. Mohrman said he is originally from Greeley, Colorado, so this is a good homecoming. He said that he worked for PEO ACWA before, noting this is an exciting time to be at PCAPP. Mohrman said he feels honored to work for the project and looks forward to working with the CAC and the public.

Rick Holmes, project manager, Bechtel Pueblo Team, provided a PCAPP update. Holmes said the plant launched *SafeHands* Awareness Month because 20 hand injuries occurred in 2014, with

17 percent of all injuries being to the hands, historically. He reported systemization is 75 percent, noting the ceiling and roof in the Enhanced Reconfiguration Building are almost complete and the Munitions Washout System demonstrate is complete.

Holmes discussed Baseline Reconfiguration at length. He said Baseline Reconfiguration activities would be held in parallel with plant operations, and reviewed the steps involved in the reconfiguration. CAC member Ross Vincent asked if the reconfiguration would be performed manually or robotically, to which Holmes responded, manually. Vincent also asked about the schedule for these activities. Holmes said they would occur late this year or early next year.

Holmes also discussed recent charity activities by PCAPP staff. He said a shift has occurred for tours, from the plant to the PCAPP Training Facility. He mentioned a tour held earlier this month for Heaton Middle School students.

Huenefeld provided a construction update on PCAPP EDS. He said the only thing lacking for construction to be complete at the EDS site is the security system. He said it is anticipated that the system will be completed this weekend, and after it is validated, munitions can be moved from storage for destruction. Huenefeld said approximately one year after breaking ground, the first munition will be processed, which is a noteworthy accomplishment.

Citizen Katherine Gibbs asked how many shells will go through EDS. Huenefeld said four separate campaigns are planned; the first campaign will be for 560 items currently in storage. It is estimated that a total of 1,360 rounds will be processed with the EDS. Gibbs asked how many EDS units will be used for processing, to which Huenefeld responded, "two, one will be used at a time." Gibbs asked when the second EDS is due to arrive on site. Huenefeld said 2017. Gibbs said, "It bothers me that the processing will be done by hand." Huenefeld said Gibbs was referring to Baseline Reconfiguration activities and asked Holmes to respond. Holmes said reconfiguration was never designed to be a robotic process operation, noting it has been done thousands of times, successfully.

Gibbs said that she wanted to tour the plant.

Kornelly provided a summary of the Permitting Working Group (PWG) meeting held earlier in the day. She said items addressed during the meeting were, what is in the approved PCAPP Contingency Plan; fire barrier permit modification approved, and the status of several outstanding permit modifications, due to be finalized this summer. She said the next PWG meeting will consist of presentations on the Preparedness and Prevention Plan and the Multipathway Health Risk Assessment. The next PWG meeting is scheduled for 25 Feb. at 2 p.m. The meeting will be held at the District Attorney's Conference Room. Kornelly said the National Research Council (NRC) letter of review should be completed by early March, so members of the NRC will be invited to share their findings. She said it is likely that a CAC meeting will be held in March.

Tom Schultz, public affairs specialist, said PCAPP will hold its first Media Day since 2011, tomorrow. A joint event with PCD, members of the Associated Press are scheduled to attend.

The next CAC meeting is scheduled for 25 Feb. at 6 p.m. at the Olde Towne Carriage House, in Pueblo.

The meeting adjourned at 6:45 p.m.

**Colorado Chemical Demilitarization Citizens' Advisory Commission Meeting**  
**Olde Towne Carriage House**  
**25 Feb. 2015**

Approximately 34 individuals representing the Colorado Chemical Demilitarization Citizens' Advisory Commission (CAC); Colorado Department of Public Health and Environment (CDPHE); Chemical Stockpile Emergency Preparedness Program; Pueblo Chemical Agent-Destruction Pilot Plant (PCAPP); Pueblo County Planning and Development; and U.S. Army Pueblo Chemical Depot (PCD) attended this meeting held at the Olde Towne Carriage House in Pueblo. Four citizens were also in attendance.

Irene Kornelly, chair, CAC, called the meeting to order at 6 p.m.

Kornelly asked for and received approval of the minutes from the 28 Jan. CAC meeting. She had no project updates.

Lt. Col. Michael Quinn, commander, PCD, provided a depot update. Lt. Col. Quinn said the depot has been working on support of Explosive Destruction System (EDS), moving toward successful operations. Quinn added that the depot is gearing up for the Organisation for the Prohibition of Chemical Weapons visit next month.

Doug Knappe, unit leader, Hazardous Waste Permitting Unit, CDPHE, provided an environmental permitting update. He said the state health department is incorporating minor modifications to the EDS permit. This permit will allow the Army to begin processing munitions. Another plan being reviewed by Knappe's team is the PCAPP operating plan, which includes baseline reconfiguration. This permit must be approved before operations at the main plant can begin.

Steve Cox, air monitoring branch manager, PCAPP, provided a presentation on agent monitoring. Cox explained the PCAPP air monitoring system provides early warning of potential chemical agent releases, ensuring the protection of the workforce, public and the environment. Cox said three types of monitoring will be employed: near real time, confirmation and historical. Each day over 39,000 samples will be collected and analyzed by the Miniature Continuous Air Monitoring System (MINICAMS). The Depot Area Air Monitoring System (DAAMS) will confirm or refute a positive measurement from the MINICAMS.

Terry Hart, vice-chair, CAC, asked how historical monitoring would be performed. Rick Holmes, project manager, Bechtel Pueblo Team, said DAAMS tubes provide historical monitoring.

Knappe asked Cox to explain how PCAPP staff will ensure that the sample taken is representative of the air. Cox said sample lines will be rechecked during testing, which will confirm the air being sampled is representative of the area. Holmes said, "Once we do the test and balance of the rooms, and the smoke test, we will know what success looks like. We will determine if additional sampling points are need through the smoke test."

Kornelly asked if all 39,000 samples will be analyzed. Holmes responded, “Yes, we will get an answer every five minutes. A team will look at the data even if an alarm is not triggered.” Kornelly asked how many MINICAMS have been installed. Cox said there are 136 MINICAMS, some of which are attached to more than one sample line.

Katherine Gibbs, citizen, asked if air monitoring will be performed in the EDS area. Bruce Huenefeld, site project manager (SPM), PCAPP EDS, said, “EDS has its own monitoring, which is fed back to its own control room.”

Holmes provided a PCAPP update. Holmes said the plant had one lost-time injury last month when someone slipped on a filter pad and the PCAPP doctor recommended three days of rest. Holmes said systemization is 75 percent complete.

Holmes said plant staff is practicing munitions hand-off with depot staff with both boxed and unboxed munitions. He said the practice will provide a clear understanding of procedures. John Norton, member, CAC, asked what will be done with the boxes and pallets after the destruction mission is complete. Holmes said the boxes will be used to ship propellants to Anniston, but currently there is no plan for the pallets. Norton also asked what will be done with the metal parts. Holmes said it is yet to be determined.

Holmes said emergency drills continue to be practiced every Friday and include both agent and industrial spill responses.

Huenefeld provided an update on PCAPP EDS. Huenefeld reported Komada has completed their work and has removed their trailer. He said PCAPP EDS site construction was completed without a single lost-time injury.

Huenefeld said the Media Day event held on 29 Jan. was well attended by local media, and included representation by the Associated Press. Greg Mohrman, PCAPP SPM, said the stories which resulted from Media Day generated interest worldwide, noting a reporter from CNN would be at the plant on Monday, 2 March. Hart commented, “We are right on the threshold of PCAPP operations. That is pretty exciting to me. In all likelihood EDS operations will be underway by the time we meet again. For someone who has been here since the beginning, I am pretty thrilled where we are. EDS is the most appropriate technology for the way it will be used. Great job!”

Kornelly provided a summary of the Permitting Working Group (PWG) meeting held earlier in the day. She said the Multi-pathway Health Risk Assessment protocol for both PCAPP and PCAPP EDS was discussed. She said the next PWG is scheduled for 29 April.

There will not be a CAC meeting on 18 March. The next meeting will be held on 29 April at McHarg Park Community Center, in Avondale.

The meeting adjourned at 6:52 p.m.

**Colorado Chemical Demilitarization Citizens' Advisory Commission Meeting**  
**McHarg Park Community Center**  
**29 April 2015**

Approximately 41 individuals representing the Colorado Chemical Demilitarization Citizens' Advisory Commission (CAC); Colorado Department of Public Health and Environment (CDPHE); Chemical Stockpile Emergency Preparedness Program (CSEPP); Pueblo Chemical Agent-Destruction Pilot Plant (PCAPP); Program Executive Office, Assembled Chemical Weapons Alternatives; U.S. Army Pueblo Chemical Depot (PCD); and U.S. Army Chemical Materials Activity (CMA), Recovered Chemical Materiel Directorate (RCMD) attended this meeting held at McHarg Park Community Center in Avondale. Five citizens were also in attendance.

Irene Kornelly, chair, CAC, called the meeting to order at 6:02 p.m.

Kornelly asked for and received approval of the minutes from the 25 Feb. CAC meeting. Minutes can be found on the CDPHE website.

Kornelly said four members of CAC met with representatives from the Organisation for the Prohibition of Chemical Weapons (OPCW) on 23 March.

Kornelly said the CAC was tasked with developing a resolution to respond to National Research Council (NRC) report on biotreatment. Their proposed resolution is the creation of a sub-committee entitled the Biotreatment Utilization Group, or BUG. The CAC membership approved creation of the sub-committee. The BUG will meet following Permitting Working Group (PWG) meetings, which will now be held at 1:30 p.m., rather than 2 p.m. The first meeting will be held on 27 May.

Col. Michael Quinn, commander, PCD, provided a depot update. Col. Quinn spoke about the OPCW visit. Quinn received a letter from Alvaro Marcel Morerzinger, chair of the executive council, expressing his gratitude to the community of Pueblo and the hospitality the OPCW was shown. He also received a letter from Dr. Christoph Israng, the representative from Germany, who thanked the depot for organizing of the visit.

Col. Quinn reported that depot staff continues to move munitions to the PCAPP Explosive Destruction (EDS) site, even on weekends.

Doug Knappe, unit leader, Hazardous Waste Permitting Unit, CDPHE, provided an environmental permitting update. The state health department is processing minor modifications to PCD, including PCAPP EDS, permits. He said members of his team were present when the first DOT bottle was processed by the PCAPP EDS. The Hazardous Waste Permitting Unit is reviewing major modifications to PCAPP operations permits, including its Pilot Test Demonstration Plan, which describes how the facility will be started up and establishes conditions for full operations.

Laurie Kilpatrick, public information officer, provided an update on CSEPP. She shared a video from last year's CSEPP exercise. Kilpatrick said this year's exercise will be held on Wednesday, 6 May. She recognized Kornelly and Jeannine Natterman, administrator, CAC, for participating in the exercises every year. She said CSEPP currently has two public campaigns, one of which is being advertised at the local movie theater.

Greg Mohrman, site project manager, introduced the *PCAPP 2014 Year in Review* video in order to bring meeting participants up-to-date on the project. Mohrman also spoke of the successful OPCW visit and the opportunity the international representatives had to see the PCAPP EDS.

Bruce Huenefeld, site project manager, provided an update on EDS. Huenefeld acknowledged Steve Bird, project lead, CMA RCMD, for managing the OPCW visit, while also managing activities at the EDS site. Huenefeld said there has been much interest in EDS by the media. Huenefeld introduced the *Explosive Destruction System Destroys First Mustard Agent in Colorado* video. He said the first shipment of solid waste fragments went off-site last Thursday (23 May). The waste management contract is with CB&I Federal Services, who conducts weekly inspections every Thursdays. Huenefeld reported as of 27 April, 61 items have been processed by EDS.

Terry Hart, vice chair, CAC, congratulated Huenefeld and his team, saying activities at the EDS are "so exciting." "It has been a smooth operation. I'm loving it."

Rick Holmes, Bechtel Pueblo Team project manager, provided a PCAPP update. He said safety continues to be very important, with staff having an injury rate at .5. He reported a ceremony for the project receiving Voluntary Protection Program Star Status award was held on 28 April, the anniversary of the creation of Occupational Safety and Health Administration. Holmes reported systemization is 77 percent complete, and crews are working to test and balance the process buildings. Provisional operations for the Enhanced Reconfiguration Building were completed on 28 April. Early Baseline Reconfiguration training, the unboxing of mortar rounds, continues.

Holmes shared a schedule forecast, with systemization activities continuing through the end of 2015. Ross Vincent, member, CAC, asked Holmes to explain the rationalization for processing 155mm projectiles first. Holmes said the 155mm rounds represent the highest level of agent.

Joe Schieffelin, member, CAC, asked about baseline reconfiguration activities. Holmes confirmed these activities will run concurrently with 155mm projectile campaign.

John Norton, member, CAC, asked what the standard for waste is. Huenefeld said less than one DSL. Knappe explained DSL is a static measurement. Norton also asked how liquid waste produced by the PCAPP EDS will be disposed of. Huenefeld said it will be incinerated in Texas.

Kornelly provided a summary of the Permitting Working Group (PWG) meeting held earlier in the day. She said parameters of Multi-pathway Health Risk Assessment for PCAPP and PCAPP EDS were discussed, as were remaining modifications to the pilot test demonstration plan. She said Bird talked about what has been destroyed by EDS and issues encountered with fragments. She said the pilot test demonstration plan will be discussed at the May PWG meeting, which will begin at 1:30 p.m.

The next CAC meeting will be held at 6 p.m. on 27 May at the Olde Towne Carriage House in Pueblo.

The meeting adjourned at 7:02 p.m.

**Colorado Chemical Demilitarization Citizens' Advisory Commission Meeting**  
**Olde Towne Carriage House**  
**27 May 2015**

Approximately 41 individuals representing the Colorado Chemical Demilitarization Citizens' Advisory Commission (CAC); Colorado Department of Public Health and Environment (CDPHE); Chemical Stockpile Emergency Preparedness Program; Federal Emergency Management Agency, Pueblo Chemical Agent-Destruction Pilot Plant (PCAPP); Program Executive Office, Assembled Chemical Weapons Alternatives; Pueblo County Planning and Development; PuebloPlex and U.S. Army Pueblo Chemical Depot (PCD) attended this meeting held at the Olde Towne Carriage House in Pueblo. Five citizens were also in attendance.

Irene Kornelly, chair, CAC, called the meeting to order at 6 p.m.

No minutes were available from the 29 April CAC meeting. Once transcribed, the minutes can be found on the CDPHE website.

Kornelly said the next order of business was the election of officers for the next two years, effective in July. Ross Vincent, member, CAC, nominated Kornelly and Terry Hart, vice chair, CAC, to the same positions. The CAC membership concurred.

Kornelly had no project updates.

Col. Michael Quinn, commander, PCD, provided a depot update. Col. Quinn spoke about the recent CSEPP Exercise and reported all benchmarks were met for the second consecutive year.

Col. Quinn also spoke about the recent delivery of 64 overpacks to the PCAPP Explosive Destruction System (EDS). This marked the fourth delivery, which are made on Saturdays, every six weeks. Quinn said there is a change to the date of the Change of Command ceremony. The new date is Monday, 29 June, at 11:30 a.m. The depot continues to hire security staff and toxic material handlers.

Kornelly asked what has the rain done to operations. Col. Quinn said the weather has not impacted delivery operations.

Doug Knappe, unit leader, Hazardous Waste Permitting Unit, CDPHE, provided an environmental permitting update. Knappe said his staff is processing minor modifications to the PCAPP EDS permit. The team is also processing the PCAPP Preparedness and Prevention Plan, which is one of the biggest modifications thus far. The plan addresses the prevention of accidents. Knappe said all PCAPP permit modification history is on the CDPHE website. Kornelly said the Pueblo County Commissioners will be updated on the permit modifications on the second Monday in July.

Ron Eccher, manager, Pueblo Chemical Stockpile Outreach Office, provided an outreach overview. Statistics were provided on networking opportunities, information tables, presentations

and tours. John Norton, member, CAC, asked the types of questions asked during public presentations. Eccher said questions center around employment, safety and the EDS. He said oftentimes citizens confuse Fort Carson maneuvers with plant activities. Kornelly asked Eccher to discuss media activity at the ORO. Eccher said the 29 January Media Day spawned the interest. *Al Jazeera*, *CNN*, and *USA Today* have visited the plant. The stories have brought increased public awareness. Two hundred media outlets have covered PCAPP with positive press, according to Tom Schultz, public affairs specialist, PCAPP. Hart asked which media outlet was easiest to work with. Schultz said all outlets were easy to work with. *CNN* provided extremely positive coverage. He said the *Associated Press* story reached over 200 media outlets around the world.

Eccher announced Education Outreach Specialist Carla Hendrickson's departure from the ORO and encouraged folks to visit the office to view displays and videos, etc.

Rick Holmes, project manager, Bechtel Pueblo Team (BPT), provided a PCAPP update. He said the current safety focus is on hand injuries and falling down. He said the Voluntary Protection Program award recognition event was held on 28 April, the anniversary of the founding of the Occupational Safety and Health Administration. Holmes said four flags and certificates were awarded to each company: AECOM, Bechtel, Battelle, and General Physics.

Gary McClosky, deputy project manager, BPT, has replaced Steve Warren. McClosky was the project manager at Johnston Atoll Chemical Agent Disposal System and the manager at Tooele Chemical Agent Disposal Facility. Two people replaced George Lecakes. Reza Karimi is the new Battelle site manager and Jim Earley is now the chief scientist.

Holmes said systemization is 80 percent complete. Cyber security is in place for the Automated Guided Vehicles to ensure that no one can hack into them. System turnovers continue—all agent and munition processing systems have been turned over to operations.

Bret Griebenow, deputy project manager, presented the Cascade Ventilation System. The system works by moving air from the least to most contaminated areas. Hart asked about the change of seasons and if cracks have occurred in the ventilation system. Griebenow said control room operators monitor differential pressure, which would indicate if there were cracks.

Bruce Huenefeld, site project manager, PCAPP EDS, shared a video of an EDS shot witnessed by members of the CAC. Kornelly said it was good to see because now CAC members can tell the public there is no sound associated with a shot.

Greg Mohrman, site project manager, PCAPP, recognized the partnership with PCD and reported 141 problematic 105 mm projectiles and 10 Department of Transportation bottles have been destroyed by PCAPP EDS.

Kornelly provided a summary of the Permitting Working Group (PWG) meeting held earlier in the day. She said most of the meeting was spent discussing the Pilot Test Demonstration Plan. She said the CAC has a good understanding of what can and cannot be expected from the plan. The next meeting is tentatively planned for 24 June at the District Attorney's conference room at 1:30 p.m.

Norton provided an overview of the Biotreatment Utilization Group (BUG) meeting. Norton said PuebloPlex is considering possibilities for reuse of the facility. Earley provided a presentation on the Biotreatment Area. The next BUG meeting will follow the PWG on 24 June.

The next CAC meeting will be held at 6 p.m. on 24 June at the Olde Towne Carriage House in Pueblo.

The meeting adjourned at 7:02 p.m.

**Colorado Chemical Demilitarization Citizens' Advisory Commission Meeting**  
**Olde Towne Carriage House**  
**29 July 2015**

Approximately 34 individuals representing the Bechtel Pueblo Team (BPT); Colorado Chemical Demilitarization Citizens' Advisory Commission (CAC); Colorado Department of Public Health and Environment (CDPHE); Chemical Stockpile Emergency Preparedness Program (CSEPP); Joint Project Manager for Elimination; Program Executive Office, Assembled Chemical Weapons Alternatives (PEO ACWA); Pueblo Chemical Agent-Destruction Pilot Plant (PCAPP); Pueblo County Planning and Development; PuebloPlex; U.S. Army Pueblo Chemical Depot (PCD); U.S. Sen. Michael Bennet's Pueblo office and U.S. Rep. Scott Tipton's Pueblo office attended this meeting held at the Olde Towne Carriage House in Pueblo. Two citizens were also in attendance.

Irene Kornelly, chair, CAC, called the meeting to order at 6:02 p.m.

Kornelly asked for and received approval on the minutes from the 29 April and 27 May CAC meetings. She had no project updates.

Kornelly welcomed Col. Thomas Duncan, commander, PCD, to his first meeting. Col. Duncan said he met with a few members of the CAC on 28 July. Col. Duncan said he is committed to the depot's role to protect the community, workforce and environment. He said his key focus is to support the initiation of operations at PCAPP; the depot will play a key role. He is also in support of the transition of the depot to PuebloPlex upon the conclusion of the chemical demilitarization program. The commander congratulated Chris Pulskamp, environmental manager, PCD, and his team for the award of gold leader status awarded by CDPHE. Only nine companies in the state were awarded this status for environmental protection activities. Col. Duncan said he is committed to filling all allocated positions at the depot. Current staffing is at 399 of 442 employees. The depot is looking to hire guards, general engineers, firefighters and information technologists. Qualified individuals can apply at [USAjobs.com](http://USAjobs.com).

Doug Knappe, unit leader, Hazardous Waste Permitting Unit, CDPHE, provided an environmental permitting update. He and his team recently performed its annual inspection of PCD storage operations, as well as inspected activities with the PCAPP Explosive Destruction System (EDS). Knappe said he and his team are reviewing details for plant operations and have received a draft risk assessment report for both PCAPP and PCAPP EDS.

Rick Holmes, project manager, BPT, provided a PCAPP update. He said the workforce embraced the concept of "walking is working," which he borrowed from another project. Holmes said systemization is 85 percent complete. Provisional operations in the yard, Enhanced Reconfiguration Building (ERB) and Agent Processing Building (APB) are 100 percent complete, such activities are targeted for the Biotreatment Area (BTA) in September. Holmes said there are four steps to agent readiness: provisional operations, integrated facility testing, optimization and integrated operations demonstrations. Currently the plant is in the integrated facility testing phase and the focus in July was on testing power through the use of diesel

generators and power recovery procedures. Heating, ventilation and air conditioning systems were also tested and balanced. Plant staff is looking toward optimization activities.

Holmes also discussed optimization. Four crews will perform plant evolutions. He said Level 1 involves activities in the ERB; Level 2 in the APB and Level 3 prepares staff for Integrated Operations Demonstrations. During Level 1, every crew will demonstrate the ability to receive munitions from storage area. Practice exercises will be conducted with depot personnel. Level 2 involves Demilitarization Protective Ensemble entries, sampling and maintenance.

John Norton, member, CAC, asked about the Early Baseline Reconfiguration schedule. Holmes explained the difference between enhanced reconfiguration and baseline reconfiguration, which is the unboxing of 105mm projectiles. He said since the unboxing activities will occur in parallel with plant operations, the term should not include "Early."

Greg Mohrman, site project manager, PCAPP, discussed the PCAPP Roadmap. He said primary focus is to start operations, the Initiation of Plant Operations (IPO). He said the roadmap is not a schedule and is designed to convey complexity of plant activities. It is a living document and changes will be incorporated weekly. The roadmap shows a range of time operations can begin if all pieces come together.

Holmes discussed the BTA coming into operations first as a result of risk reduction testing. He said it's his responsibility to submit a declaration of readiness to PEO ACWA.

Greg Mohrman, site project manager, PCAPP, discussed cyber security and authorizations.

Col. Duncan said a surety inspection was held last week at the depot. He said it went very well. It is the responsibility of the depot commander to declare the depot's readiness to support PCAPP operations, after demonstrating proficiency. Until that time, depot staff will continue to conduct practice exercises.

Mohrman said the plant will not start until it's ready, that is our commitment to ACWA.

Kornelly asked if the governor has to approve the IPO, to which Holmes responded in the negative.

Bruce Huenefeld, site project manager, PCAPP EDS, applauded Pulskamp for permitting activities at EDS. The timeliness of EDS permits being completed allowed EDS activities to begin.

Huenefeld talked about all secondary waste streams for EDS and where they are sent. The first shipment was fragments, totes and pallets and went to a nonhazardous waste facility. Totes of rinsate went to a hazardous waste landfill. On 22 June, liquid rinsate was sent to an incinerator in Texas.

Norton inquired to who initiates the shipments and permitting requirements, to which Huenefeld responded, PCAPP does. A manifest goes with the shipment and follows Department of Transportation requirements.

Huenefeld said when 155mm projectiles were introduced into the campaign, three were processed at a time. On 30 July, five 155mm will be processed together. Huenefeld said EDS activities remain ahead of schedule.

Kornelly provided a summary of the Permitting Working Group (PWG) meeting held earlier in the day. Updates on permits and permit modifications were discussed. A public meeting on Permit 69, regarding modification request on Resource Conservation and Recovery Act tank volumes was held in conjunction with the PWG. The next meeting is scheduled for 30 Sept.

Norton provided an overview of the Biotreatment Utilization Group (BUG) meeting. Norton said the focus of the meeting was on EDS waste, as well as thermal and pH testing in the BTA. The next BUG meeting will be held in October.

The next CAC meeting will be held at 6 p.m. on 30 Sept. at the Boone Community Center.

The meeting adjourned at 7:07 p.m.

**Colorado Chemical Demilitarization Citizens' Advisory Commission Meeting**  
**Boone Community Center**  
**30 September 2015**

Approximately 34 individuals representing the Bechtel Pueblo Team (BPT); Colorado Chemical Demilitarization Citizens' Advisory Commission (CAC); Colorado Department of Public Health and Environment (CDPHE); Chemical Stockpile Emergency Preparedness Program; Pueblo Chemical Agent-Destruction Pilot Plant (PCAPP); PuebloPlex; and U.S. Army Pueblo Chemical Depot (PCD); attended this meeting held at the Boone Community Center in Boone, Colorado. Six citizens were also in attendance.

Irene Kornelly, chair, CAC, called the meeting to order at 5:58 p.m.

Kornelly asked for and received approval of the minutes from the July 29 CAC meeting. Kornelly reported she had "heard rumors" saying the defense authorization has passed.

Dan Hancock, deputy to the commander, PCD, provided an update on depot activities. He said the depot currently has 401 employees, which is their highest number since the mid-nineties. PCD will continue to fill positions this fall, capping out at 442 employees. Hancock said joint proficiency training with PCAPP is being conducted every Tuesday and Thursday. Upgrades are being made to the depot, including the water system and infrastructure. No questions were asked.

Doug Knappe, unit leader, Hazardous Waste Permitting Unit, CDPHE, discussed the transition from Research, Development and Demonstration (RD&D) to operations. He said PCAPP was built and is being tested under an RD&D permit, but will need to transition to a different type of permit for operations. RD&D permits are short-term for construction and testing of equipment. He said the operating permit process consists of the pre-application, public meeting, followed by the submission of the permit application, the draft Resource Conservation and Recovery Act (RCRA) permit, public comment period and final RCRA permit. He said the transition between the RD&D to operating permit will take one year to 18 months. Ross Vincent, member, CAC, inquired about "hybrid" permitting. Knappe said CDPHE does not know at what point the transition will be made, but said long-term operations cannot occur under RD&D permit. John Norton, member, CAC, asked about the public notification process of the meetings. Knappe said all public meetings are announced.

Kim Jackson, deputy plant manager, PCAPP, discussed why and how the plant's pilot test demonstration will be conducted. She said the testing provides the data for performance indicators to be defined; staff to demonstrate safe and efficient operations; and to validate environmental compliance. The testing is performed in blocks. Block 1 is Munitions Receipt and Enhanced Reconfiguration; Block 2 is Munitions Bodies Treatment, Block 3 is Agent Collection and Neutralization; Block 4 is Hydrolysate Treatment and Water Recovery; Block 5 is Supplemental Decontamination and Block 6 is Off-gas Treatment. The process provides information to confirm operating ranges are correct and for alarm set points to be determined.

Jackson said the mock up testing is designed to prepare the workforce for the start of operations. Kornelly stressed once pilot testing begins, real agent-filled munitions will be used. Jackson confirmed Kornelly's statement.

A Boone resident asked if ground water testing will be conducted. Rick Holmes, project manager, BPT, said the way the facility is designed there are no liquid emissions from the plant. Hancock said the depot regularly monitors its ground water, noting dump and treat systems are routinely tested for constituents. Acknowledging the resident was referencing ground water contamination at the Rocky Mountain Arsenal near Denver, Bruce Huenefeld, site project manager (SPM) for the PCAPP Explosive Destruction System (EDS), said the waste there was discharged into unlined basins, no secondary containment system was used.

Holmes reported on PCAPP progress, noting no recordable injury has occurred since his report at the July CAC meeting. He said systemization is 89 percent complete. He reported electrical distribution testing is complete and all four crews have practiced making sure the ventilation system comes back on in the proper sequence, after an outage. Holmes said the Munitions Treatment Unit is broken and its manufacturer is repairing it. He said that although he regrets it being broken, it is much easier to fix now than during operations.

Greg Mohrman, SPM, PCAPP, discussed the PCAPP Roadmap, saying it is used to explain how we go from where we are today to operations. It helps the workforce and stakeholders to get into "an operational mindset." He said the Roadmap is updated every week on Wednesdays. It is not a schedule, rather it shows how "all players will come together to make the plant operational."

Mohrman said the focus of the last two weeks has been on cyber security, with 30 specialists performing cyber security pieces. He said a surety inspection was performed by Army Materiel Command in July, noting the inspectors were surprised by the maturity of the plant.

Huenefeld said on Aug. 6 the seal surface was damaged on the EDS door. Using a metal ring, Huenefeld explained concentric compression on a seal ring and how a blast wave provides a tighter seal. He said during the Aug. 6 operation, a compression divot was created. He explained in order to repair the divot, the entire seal surface had to be machined out and built back up with two layers of welding. He said during welding operations, the temperature was constantly monitored. A dye test was conducted to ensure no leaks and then the weld was machined down. A pressure and helium leak test was conducted by a certified inspector who gave the repair an "R" stamp. The repair documentation was provided to CDPHE and was approved just prior to close of business on Sept. 30. Huenefeld said EDS activities could resume as early as Friday, Oct. 2.

Kornelly provided a summary of the Permitting Working Group (PWG) meeting held earlier in the day. She said outstanding permits and notices of deficiency, and what CDPHE is looking for to get those completed, were discussed. The next PWG meeting is scheduled for Oct. 28 at the District Attorney's Conference Room in Pueblo. Norton said he expects to hold a Biotreatment Utilization Group meeting at that time.

The next CAC meeting will be held at 6 p.m. on Oct. 26 at the Olde Towne Carriage House in Pueblo.

The meeting adjourned at 7:31 p.m.

**Colorado Chemical Demilitarization Citizens' Advisory Commission Meeting**  
**Olde Towne Carriage House**  
**28 October 2015**

Approximately 41 individuals representing the Bechtel Pueblo Team (BPT); Colorado Chemical Demilitarization Citizens' Advisory Commission (CAC); Colorado Department of Public Health and Environment (CDPHE); Chemical Stockpile Emergency Preparedness Program; Matrix Design Group; Program Executive Office, Assembled Chemical Weapons Alternatives (PEO ACWA); Pueblo Chemical Agent-Destruction Pilot Plant (PCAPP); Pueblo County Planning and Development; PuebloPlex; U.S. Army Pueblo Chemical Depot (PCD); and U.S. Sen. Michael Bennet attended this meeting held at the Olde Towne Carriage House in Pueblo, Colorado. Six citizens were also in attendance.

Irene Kornelly, chair, CAC, called the meeting to order at 6:03 p.m.

Kornelly asked for and received approval of the minutes from the Sept. 30 CAC meeting.

Col. Thomas Duncan, commander, PCD, provided an update on depot activities. Col. Duncan said it has been a successful month at the depot. He said PCD had a treaty inspection by the Organisation for the Prohibition of Chemical Weapons; Chris Pulskamp, environmental manager, and his team received the Gold Leader Status award from CDPHE; depot staff are working with PuebloPlex on environmental remediation efforts; and exercises have been conducted with PEO ACWA and BPT partners in preparation for the Initiation of Plant Operations (IPO).

John Norton, member, CAC, asked about hiring efforts. The depot commander said he currently has a staff of 390 employees and is authorized to hire 60 more for a total workforce of 450. Terry Hart, vice chair, CAC, thanked the commander for “reinvigorating” the Restoration Advisory Board.

Conrad Whyne, program executive officer, PEO ACWA, presented the *Baseline Chem Demil Success Model*. Whyne said when he managed the baseline program, his team managed to cut years off the operation schedule by working with regulators, communities and systems contractor operators. By reducing risk early, money was saved. Whyne said he's challenged the ACWA program to capture some of those key lessons from baseline sites in order to achieve the fastest and safest elimination of the stockpile; therefore, reducing risk to the workforce and public. He outlined the key points to the safe acceleration of the baseline program: permit modifications for individual pieces of equipment, processes and equipment; and “tweaking”—Whyne said the first time personnel operate equipment they are going to find things that need to be improved. He said PEO ACWA needs to work with state regulators to come up with a solution, fix the problem, complete the proper paperwork and get the equipment back into operations.

Hart thanked Whyne for being at the meeting and for the presentation.

Doug Knappe, unit leader, Hazardous Waste Permitting Unit, CDPHE, gave a permitting update. He said the state health department is continuing work on PCAPP's operation plan and inspection plan and anticipates approval by the end of the year. He said his team has conducted inspections on the Agent Processing Building (APB) roof.

Rick Holmes, project manager, BPT, said there have been no injuries since the last time he reported to the CAC. The plant is 90 percent complete with systemization, with “good progress” being made in the Biotreatment Area (BTA) He said a fourth tank of thiodiglycol is scheduled to arrive at the plant on Nov. 9. It will be diluted and stored in a 30-day holding tank. He spoke about waste contracts, noting public interest. Holmes said five types of wastes will be generated: subtitle D landfill, munitions body recycling, metal, energetics transportation, and Resource Conservation and Recovery Act-regulated. He said there will be industrial wastewater that cannot go into the PCD lagoon and sanitary waster. Contracts will be based upon PCAPP’s waste analysis plan. He expects contracts to be awarded in January. Holmes discussed repairs to the APB roof, saying the roof was built up between batten caps and covered with ethylene propylene diene terpolymer membrane. He said the roof repairs will be complete within a few days.

Greg Mohrman, SPM, PCAPP, discussed the PCAPP Roadmap and related acronyms. He emphasized the roadmap is a sequence of events, not a schedule. Holmes said the current focus is on “people readiness”; Optimization Level 1 began on Oct. 28. He said hard lockdown will be initiated on Monday, Nov. 2.

No questions regarding the roadmap were asked.

Bruce Huenefeld, SPM, PCAPP Explosive Destruction System (EDS), provided an update on the EDS. He explained the P2A, the system with a three-piece clamping mechanism, will be sent to Aberdeen, Maryland, from Sandia National Laboratories in Albuquerque, New Mexico, in November. Testing of the P2A will be conducted in January 2016 and is scheduled to arrive in Pueblo the summer of 2017. The P2A will handle reject munitions and will serve as the primary system, with the P2R serving as a backup.

Huenefeld said after the door seal on the P2R was repaired, operations resumed on Oct. 5 with a 4-pack configuration of 155mms. Since the resumption of operations, 32 items have been destroyed. He said on Oct. 21, operators discovered two 155mm bursters with lifting plugs had survived the detonation sequence. They were eliminated with the next round of munitions destroyed by EDS.

Huenefeld also discussed the shipment of secondary waste. Norton asked if the Colorado Department of Transportation (CDOT) is notified of shipments. Huenefeld said the waste contractors notify CDOT.

Kornelly provided a summary of the Permitting Working Group (PWG) meeting held earlier in the day. She said Permit No. 74, regarding six igloos proposed for storage of waste generated by PCAPP, was discussed. She said the Closure Permit Modification will be discussed at the Dec. 9 PWG meeting.

Norton said laboratory testing on hydrolysate was discussed at the Biotreatment Utilization Group (BUG) meeting held in conjunction with the PWG. He said an update on the hydrolysate testing will be provided during a special meeting on Nov. 19 at 3 p.m. at 1 Jetway Ct.

The next CAC meeting will be held at 6 p.m. on Dec. 9 at the Olde Towne Carriage House in Pueblo.

The meeting adjourned at 7:18 p.m.

**Colorado Chemical Demilitarization Citizens' Advisory Commission Meeting**  
**Olde Towne Carriage House**  
**9 December 2015**

Approximately 32 individuals representing the Bechtel Pueblo Team (BPT); Colorado Chemical Demilitarization Citizens' Advisory Commission (CAC); Colorado Department of Public Health and Environment (CDPHE); Chemical Stockpile Emergency Preparedness Program; Federal Emergency Management Agency Region VIII; Pueblo Chemical Agent-Destruction Pilot Plant (PCAPP); PuebloPlex; U.S. Army Pueblo Chemical Depot (PCD); and U.S. Sen. Michael Bennet's Pueblo office attended this meeting held at the Olde Towne Carriage House in Pueblo, Colorado. Three citizens were also in attendance.

Irene Kornelly, chair, CAC, called the meeting to order at 6:05 p.m.

Kornelly asked for and received approval of the minutes from the Oct. 28 CAC meeting. She said Dwight Gardner, regional director, Sen. Bennet, said Congress plans to approve the Continuing Resolution before they go on recess for the holidays.

Kornelly said she returned from the 20<sup>th</sup> Conference of State Parties, Organisation for the Prohibition of Chemical Weapons (OPCW), on Monday night. She said the three topics discussed at the meeting held in The Hague, Netherlands, were Syria, Libya and the destruction of weapons left in China by the Japanese after WWII.

Daniel Hancock, deputy commander, PCD, provided a Year in Review (YIR) presentation. He said highlights of the year included launching the first campaign of the Explosive Destruction System (EDS); its annual Resources Conservation and Recovery Act inspection performed by CDPHE, in which no findings were found; a treaty inspection by the OPCW; and the receipt of Gold Leader Status awarded by CDPHE. No questions were asked.

Doug Knappe, unit leader, Hazardous Waste Permitting Unit, CDPHE, gave a permitting update. He said no plans have been approved recently. He reported minor modifications have been made to PCD Standard Operating Procedures. He said plant emissions were discussed at the Permitting Working Group (PWG) meeting held earlier in the day. No questions were asked.

Ron Eccher, outreach communications manager, provided a YIR presentation, highlighting outreach activities conducted between Oct. 1, 2014 and Sept. 30, 2015. Eccher showed the *Pueblo Plant Year in Review 2015: Systemization and EDS Operations* video. No questions were asked.

Rick Holmes, project manager, BPT, said there have been two recordable injuries since the last CAC meeting. He said one injury was a twisted knee and the other occurred during a pulmonary test where one employee passed out. Although not hurt, it is an Occupational Safety and Health Administration recordable event. Holmes said there were five recordable injuries for the year. The plant is 92.7 percent complete with systemization. Holmes said a fifth tank of thiodiglycol arrived, was diluted and stored in a 30-day holding tank. Salt water testing will be performed to test the quality of water for recycling. He said the repairs to the Agent Processing Building roof are complete and a water test to document the roof doesn't leak will be performed. Holmes said recent

focus has been on security/surety readiness, with hard lockdown becoming effective on Nov. 2. No questions were asked.

Greg Mohrman, site project manager (SPM), PCAPP, led a discussion on the PCAPP Roadmap, noting the document is prepared by Mike Strong, deputy SPM, PCAPP. Strong makes updates to the roadmap every week. Mohrman noted Strong will assume responsibility for the EDS upon Bruce Huenefeld's, SPM, EDS, retirement. Holmes said Operational Readiness Review demonstrations have been performed in the Enhanced Reconfiguration Building for external stakeholders. Hancock noted the depot continues to fill positions. No questions were asked.

Huenefeld provided a PCAPP EDS update. He said the P2A, the system with a three-piece clamping mechanism, will be sent to Aberdeen, Maryland, from Sandia National Laboratories in Albuquerque, New Mexico, this summer (2016), rather than this month as reported at last month's CAC meeting. Testing of the P2A will be conducted in summer 2016 and is scheduled to arrive in Pueblo the summer of 2017. The P2A will handle reject munitions and will serve as the primary system, with the P2R serving as a backup.

Huenefeld said the last movement of munitions for the first campaign was conducted on Dec. 5. This being his last CAC meeting (prior to retirement), Huenefeld reflected upon his time at PCAPP. He said the highlights of his time at PCAPP were: 1. *EDS*. He said working on the EDS project was the most enjoyable aspect of his entire career; 2. *Speaking engagements*. He said he greatly enjoyed interacting with members of the community; 3. *Coworkers*. He said he has great respect for the PCAPP teams.

John Norton, member, CAC, asked why one Department of Transportation bottle was held back. Huenefeld said it is suspected to have mercury. Norton asked if this first campaign consisted of only overpacks and if the overpacked munitions were "clean." Huenefeld said the operators did find liquid in some of the overpacked containers.

Kornelly provided a summary of the PWG meeting held earlier in the day. She said a public meeting for Permit No. 77, regarding the waste laydown yard and dunnage storage, was held. Revisions to the PCAPP Closure Plan were also discussed. She said the next PWG meeting will be held on Jan. 27 at the District Attorney's conference room. Norton said a Biotreatment Utilization Group meeting will be held in conjunction with the PWG meeting.

The next CAC meeting will be held at 6 p.m. on Jan. 27 at the Olde Towne Carriage House in Pueblo.

The meeting adjourned at 7:04 p.m.