

**Colorado Chemical Demilitarization Citizens' Advisory Commission's Meeting**  
**Olde Towne Carriage House**  
**02/26/2014**

Approximately 38 individuals representing the Colorado Chemical Demilitarization Citizens' Advisory Commission (CAC); Colorado Department of Public Health and Environment (CDPHE); Colorado Stockpile Emergency Preparedness Program; Federal Emergency Management Agency; Joint Project Manager-Elimination (Provisional) (JPM-E (P)); Program Executive Office, Assembled Chemical Weapons Alternatives (PEO ACWA); PuebloPlex; Pueblo Chemical Agent-Destruction Pilot Plant (PCAPP); Pueblo County Planning and Development; U.S. Army Pueblo Chemical Depot (PCD); and U.S. Environmental Protection Agency, Region 8 attended this meeting held at the Olde Towne Carriage House in Pueblo, Colo. Two citizens also attended.

Irene Kornelly, chair, CAC, called the meeting to order at 6:00 p.m.

Following approval of the Jan. 29 minutes, Lt. Col. Michael Quinn, commander, PCD, began the meeting with an announcement that his staff was conducting normal stockpile operations.

The next agenda item was permitting updates. Doug Knappe, unit leader, Hazardous Waste Permitting Unit, CDPHE, discussed the PCAPP Explosive Destruction System (EDS) Permit Modification request. Knappe said the state is reviewing additional information regarding the Temporary Authorization Request (TAR) to begin construction. At the Permitting Working Group (PWG) meeting held earlier in the day, Knappe said pending this review CDPHE could approve the TAR in the coming weeks.

Next, the discussion shifted to a review and update on the PCAPP Laboratory. Brian Ramdwar, operations branch manager, PCAPP, highlighted recent accomplishments including completion of the Operational Readiness Review (ORR), which he described as a robust testing process to determine readiness to safely, efficiently and compliantly handle and manage daily functions during chemical demilitarization operations.

Ramdwar explained the staff conducted seven demonstrations during Oct. 14 – 17, which included storage of Stock A standards or highly diluted chemical agent. Ramdwar also said there are projections to employ a total of 140 staff members by September 2015, which would represent an increase from the current 65 laboratory personnel. In response to a question raised by Kornelly about hours of operation, Ramdwar explained by the end of April the Laboratory is scheduled to be staffed and operated on a 24 hour basis, seven days a week.

Ross Vincent, member, CAC, asked Ramdwar to discuss the variety of jobs and specialty levels. Ramdwar said approximately half of the staff members will monitor, service and validate the Miniature Continuous Air Monitoring Systems (MINICAMS) throughout the plant. Ramdwar explained the staff will also include specialized chemists, quality control and assurance personnel and training specialists. Kornelly asked about the intern program Ramdwar discussed,

and inquired if there's a possibility of internships leading to future paid positions. Ramdwar said the Laboratory is hopeful its internship program will help students qualify for future positions.

Returning to the discussion of MINICAMS, Kornelly said she's heard that at past chemical demilitarization sites, some workers would ignore alerts because of a high number of false positive readings. Rick Holmes, project manager, Bechtel Pueblo Team (BPT), explained advancements in technology have significantly improved the reliability of these instruments and added that BPT trains its workforce to follow all proper alarm response procedures, including MINICAMS.

Next, Holmes provided a PCAPP program update. Holmes said PCAPP is finalizing its reapplication of the Voluntary Protection Program Star Status for the plant's operations phase. VPP status is one of the nation's highest awards for workplace safety, awarded by the U.S. Department of Labor's Occupational Health and Safety Administration. Holmes also highlighted several employee led teams, including the Quality Environmental Safety Toxic Area Excellence or QuEST and the Hazard School Board, which promote safe behavior through training and education activities. Holmes then discussed local hiring efforts and highlighted that BPT placed advertisements in *The Pueblo Chieftain* in January and February to promote a resume writing workshop and encourage locals to apply for jobs. On the topic of systemization, Holmes highlighted recent ORR milestones and added that robotic testing is underway with the Munitions Washout System in the Agent Processing Building.

Bruce Huenefeld, site project manager, PCAPP, provided the first of his pledged monthly PCAPP EDS updates. The presentation began with a photograph of the PCAPP EDS site in H block and included an artist's rendering of three concrete pads to support two EDS units and support structures. Next, Huenefeld provided an overview of PCAPP EDS safety and construction staffing levels, which currently are at unrecorded levels because the project remains in the design phase. Next, Huenefeld discussed the schedule, which showed the design began in December 2013, construction is slated to begin in March, and operations in October. In regard to permitting, the project is currently awaiting approval of the temporary authorization from Pueblo County and CDPHE to begin construction. Huenefeld noted that some physical progress has been made while the team waits for approval, including the installation of a carbon filter vent on the igloo that will serve as a container storage unit. Additionally, Komada Limited Liability Company, the contractor, deployed its construction trailer in February.

Next, the meeting shifted to a brief summary of the PWG meeting held earlier in the day. Kornelly said the group discussed the status of the TAR, noting the permit application is not complete and that the Pueblo Board of County Commissioners (BOCC) is holding a public meeting on this topic at 9 a.m. on Feb. 27. Terry Hart, vice-chair, CAC, and chair, BOCC, said the meeting would be strictly informational and no decisions would be made. Kornelly also said that the county would not approve temporary authorization until after the state has done so, and she was under the impression that the state was not ready to move forward.

Knappe added that the status of the Notice of Deficiencies on a few Permit Modification requests: the Munitions Service Magazines, Energetic Service Magazines, and the corrosion monitoring system for tanks, pipes and pumps, was discussed at the PWG. PCAPP staff has

proposed additional plans and procedures for these items, which are currently under review by the state.

Kornelly briefly mentioned that the pilot test demonstration plan would be addressed at a future time, but for right now, the stage is set for a resolution on EDS funding.

Kornelly noted the next CAC meeting is scheduled for April 30, 2014, at McHarg Park Community Center in Avondale.

The meeting adjourned at 6:55 p.m.

**Colorado Chemical Demilitarization Citizens' Advisory Commission Meeting**  
**McHarg Park Community Center**  
**04/30/2014**

Approximately 37 individuals representing the Colorado Chemical Demilitarization Citizens' Advisory Commission (CAC); Colorado Department of Public Health and Environment (CDPHE); Chemical Stockpile Emergency Preparedness Program (CSEPP); Chemical Materials Activity, Recovered Chemical Materiel Directorate; Program Executive Office, Assembled Chemical Weapons Alternatives (PEO ACWA); Pueblo Chemical Agent-Destruction Pilot Plant (PCAPP); U.S. Army Pueblo Chemical Depot (PCD); and U.S. Rep. Scott Tipton's Pueblo office attended this meeting held McHarg Park Community Center in Avondale, Colorado. One citizen also attended.

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

Kornelly asked for and received approval of minutes from the Feb. 26 CAC meeting. She had no project updates.

Lt. Col. Michael Quinn, commander, PCD, reported the depot has completed its chemical surety inspection and is gearing up for the CSEPP annual exercise next week. No questions were asked by meeting attendees.

Doug Knappe, unit leader, Hazardous Waste Permitting Unit, CDPHE, provided a permitting update, noting several permitting efforts are underway, including PCAPP's operating plan, PCD's renewal permit and its recently submitted closure plan. The permit modification request for the PCAPP Explosive Destruction System (EDS) was also submitted. There were no questions from the group.

Carl Ballinger, coordinator, CSEPP, spoke about CSEPP. He said it is a federally-funded program for the purpose of providing emergency response activities for the community and communities surrounding the PCD stockpile. The program is evaluated by bench marks; its biggest test is the full-scale exercise which is scheduled for May 6. He said the new Emergency Services Center opened last month. Three new staff members, communication officers, were hired in October. The program began in 1988 and will continue as long as the stockpile exists. Ballinger responded to question posed by Ross Vincent, member, CAC, saying CSEPP will shut down six months after the last round is processed at PCAPP. Ballinger said that with the ending of CSEPP, some programs and funding will cease but the equipment will stay with the building. No additional questions were asked.

Kim Jackson, operations manager, PCAPP, presented *Provisional Operations*, including yard (utilities), the Enhanced Reconfiguration Building (ERB), the Agent Processing Building and the Biotreatment Area. Provisional operations; integrated facility testing and HVAC readiness; optimization; and integrated operation demonstrations are the four steps for agent readiness. Jackson said the Agent Filtration Area would undergo a full start up this evening whereby

differential pressures would be verified. She said the plant is four months away from the “yard” receiving official certification. ACWA test equipment is being tested daily in the ERB. Soon joint exercises will be held between PCD and PCAPP in the transfer of munitions. Earlier this year Toxic Area Training kicked off and simulator training for control room operators began in April. There were no questions from the group.

Rick Holmes, project manager, Bechtel Pueblo Team, provided a PCAPP update. He said that while the workforce has sustained injuries, they are “less hurt than any other plant.” He said that the application for the Voluntary Protection Program (VPP) was accepted and he expects the project to be evaluated for the award this fall. Vincent asked if the VPP award would include PCAPP EDS, to which Holmes responded negative. Holmes noted the increase in staffing. The project is currently at 1,002 employees, 211 of which are from Pueblo County. Holmes mentioned local recruitment efforts, including resume writing workshops and a series of advertisements which ran in *The Pueblo Chieftain*. Although 94 construction workers remain on the project, only a minor scope remains. The construction workforce is scheduled to demobilize by June 2014. Holmes also reviewed the systemization schedule.

Bruce Huenefeld, site project manager, PCAPP, provided his second briefing on PCAPP EDS. Huenefeld noted construction progress, including the parking lot and concrete pads for the environmental enclosures which will house the EDS units. Huenefeld discussed the EDS schedule; provided a site overview of current employment numbers; and noted efforts to educate the community on EDS. Vincent asked if the EDS operators would come from PCAPP. Huenefeld responded that EDS operators would come from Edgewood Chemical Biological Center and would return to Maryland between munition-destruction campaigns.

Kornelly provided a summary of the Permitting Working Group (PWG) meeting held earlier in the day. She said the meeting consisted of three public hearings including two permit modification requests from PCAPP and one from PCD. PCAPP EDS permitting was also discussed. The next PWG meeting will be held on May 28, when the Multi-Pathway Health Risk Assessment will be discussed.

Kornelly noted the next CAC meeting is scheduled for May 28, 2014, 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**  
**28 May 2014**

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 (CSEPP); Chemical Materials Activity, Recovered Chemical Materiel Directorate; Pueblo Chemical Agent-Destruction Pilot Plant (PCAPP); 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. Two citizens also attended.

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

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

Kornelly announced that long-time CAC member John Thatcher had resigned from the commission. With two vacancies, Kornelly encouraged meeting participants to consider applying for a seat on the CAC. Applications can be found at <https://www.tfaforms.com/290254> or at the Pueblo Chemical Stockpile Outreach Office (ORO) at 104 W. B St. in Pueblo.

Lt. Col. Michael Quinn, commander, PCD, reported the depot participated in the CSEPP annual exercise last month and performed extremely well. The exercise validates internal and external emergency response capabilities. The depot had no deficiencies. Lisa Shorter, public information officer, CSEPP, said the exercise report is in draft form. She said it was exciting to hold the exercise in their new facility and that community volunteers enjoyed the experience.

Doug Knappe, unit leader, Hazardous Waste Permitting Unit, CDPHE, provided a permitting update, mentioning that the two Multipathway Health Risk Assessments, one for PCAPP and one for PCD, will be combined into one. Knappe also said that while Notices of Deficiencies (NOD) were issued to PCAPP, he was complimentary of the information provided by PCAPP and said that there is nothing serious in the NODs.

Renee Martinez, public outreach specialist, ORO, provided a six-month overview of the outreach activities performed by the PCAPP public affairs team. Martinez provided the number of people reached through information booths, public meetings, presentations, videos and site tours. The education outreach program was highlighted, noting the partnership with the PCAPP Speakers Bureau and Rocky Mountain Public Broadcast System's Homework Hotline program. Martinez also mentioned the greater reach the project has through social media platforms.

Paul Dent, Operational Readiness Review (ORR) manager, PCAPP, provided an overview, explaining that ORR is conducted to verify the readiness of the plant to safely begin operations involving chemical agents, explosives or other highly hazardous materials. ORR is used to validate that PCAPP "plant, paper and people" meet the required criteria to allow operations to

begin. The process is led by the system contractor (SC) to support a declaration of readiness; Program Executive Office, Assembled Chemical Weapons Alternatives (PEO ACWA) provides oversight. Independent validation is used to support the SC's declaration of readiness and stakeholders are invited to observe the process. Dent reported that Chris Midgett is the chair of the executive board, to which Ross Vincent, member, CAC, asked what the executive board was, to which Rick Holmes, project manager, Bechtel Pueblo Team, responded it is a board that will lead the criteria review and is responsible to Holmes.

Bruce Huenefeld, site project manager, PCAPP, said that Program Executive Officer Conrad Whyne sent his regrets for his inability to attend the CAC meeting. Huenefeld introduced the ORO-produced video *U.S. Chemical Weapons Destruction: Partnership in Motion*. Huenefeld also provided a construction update on PCAPP Explosive Destruction System, noting the current number of employees and safe work hours.

Holmes provided a PCAPP update, beginning with an update on the project's application for the Voluntary Protection Program (VPP). He said because of budgetary constraints being experienced by the Occupational Safety and Health Administration (OSHA), it is not known when OSHA staff may be able to visit the site to evaluate it. Holmes provided a staffing update, noting the number of local applicants and hires. He also mentioned that 75 percent of the workforce lives in Pueblo County. Holmes also reported that systemization is 55 percent complete: with the Enhanced Reconfiguration Building being 66 percent; Agent Processing Building being 67 percent; and the Biotreatment Area (BTA) being 59 percent complete. Holmes spent a good portion of time discussing BTA Risk Reduction, outlining migration actions including enhanced water testing, respirometry study, Brine Reduction System (BRS) saltwater test and Biotreatment Treatment System/BRS surrogate hydrolysate test. Vincent asked what would be done with the water, to which Holmes responded, "It will be recycled." Terry Hart, vice chair, CAC, asked what the U.S. sources of thiodiglycol were. Holmes said there are no U.S. manufacturers so the thiodiglycol will come from Germany.

Kornelly provided a summary of the Permitting Working Group meeting held earlier in the day. She said the next PWG meeting will be held on June 26 at the District Attorney's Conference Room.

The next CAC meeting is scheduled for June 26 at 6 p.m. at the Olde Towne Carriage House.

The meeting adjourned at 7:11 p.m.

**Colorado Chemical Demilitarization Citizens' Advisory Commission Meeting**  
**Olde Towne Carriage House**  
**25 June 2014**

Approximately 33 individuals representing the Colorado Chemical Demilitarization Citizens' Advisory Commission (CAC); Colorado Department of Public Health and Environment (CDPHE); Chemical Stockpile Emergency Preparedness Program; Chemical Materials Activity (CMA), Recovered Chemical Materiel Directorate; Pueblo Chemical Agent-Destruction Pilot Plant (PCAPP); U.S. Army Pueblo Chemical Depot (PCD); Federal Emergency Management Agency Region VIII; Pueblo County Planning and Development; and U.S. Sen. Michael Bennet's Pueblo office attended this meeting held at the Olde Towne Carriage House in Pueblo. No citizens were in attendance.

Irene Kornelly, chair, CAC, called the meeting to order at 6:01 p.m.

Kornelly asked for and received approval of the minutes from the May 28 CAC meeting.

Kornelly said that one person has applied for a vacancy on the CAC. The CAC is looking to fill an additional vacancy and interested parties can apply at <https://www.tfaforms.com/290254> or by contacting Jeannine Natterman at [jeannine.natterman@state.co.us](mailto:jeannine.natterman@state.co.us)

Daniel Hancock, deputy commander, PCD, provided a depot update on behalf of Lt. Col. Michael Quinn who is in Kentucky attending the Change of Command ceremony. Hancock reported the depot is preparing for PCAPP Explosive Destruction System (EDS) operations. He said that PCD is competing with PCAPP for applicants as the depot will need to fill approximately 100 positions to support PCAPP operations. He said that security guards and toxic material handlers are needed, and interested parties can find the job announcements at <https://www.usajobs.gov/>. Hancock said that the depot anticipates hiring approximately 20 staff per month before the start of operations.

Doug Knappe, unit leader, Hazardous Waste Permitting Unit, CDPHE, provided a permitting update. He said he is in the process of receiving information on deficiencies from PCAPP staff. CDPHE staff is conducting weekly walk downs of the PCAPP site to observe plant systems. The state health department is working on the process certification for PCAPP and the renewal and EDS permits for PCD. He anticipates the PCD draft permit being completed in late July, followed by a 45-day comment period.

Steve Bird, project lead, CMA, provided a presentation on the PCAPP EDS. Bird described daily operations, including monitoring, safety briefings, pre-operational inspections, operation procedures, the neutralization process and air sampling. Bird introduced his partners, Sarah Jordan, Peggy Hallisey, Connie Lee and Derek Romitti, who will serve as site managers for PCAPP EDS. Bird also provided a list of other partnering organizations. Ross Vincent, member, CAC, asked Bird to explain what "challenge the MINICAMS" means. Bird explained that collaboration standards will be tested by the Real Time Analytical Platform. Knappe inquired

about the relationship between Bird's staff and PCD, to which Bird explained Standard Operating Procedures are in place consisting of checkpoints, the list of activities that need to be reported to the Operation Center and other routine reports. Kornelly asked if the PCAPP EDS project would employ their own security or if security would be provided by PCAPP or PCD. Bird explained that PCD security would staff the Entry Control Facility and provide security for EDS. Kornelly also asked about waste produced by overpacked munitions. Bird said if "clean," the waste would be containerized, monitored and disposed of with other hazardous waste. If the waste is "not clean," it will be placed in a drum with bleach. He said that uncontaminated pallets would be treated as solid waste.

Rick Holmes, project manager, Bechtel Pueblo Team, provided a PCAPP update. Currently, the project has 1,034 employees on staff, 61 of which are construction workers. He said that the remaining construction workers should transition off the project by July. Holmes reviewed local employment statistics and mentioned that of the 24 interns working on the project this summer, four are local. The project manager said that systemization is 55 percent complete and reported on the status of the Operational Readiness Review. Holmes concluded his presentation by recognizing the workforce for their continued community service efforts. Kornelly asked about the attrition rate. Holmes said that the project has established a Worker Enhancement Program in order to retain employees, and that it "over hires," especially entry-level positions, due to promotion opportunities, etc. Bruce Huenefeld, site project manager, PCAPP, praised the systems contractor (SC) for the efforts made to hire locally. He also commended the SC for its "one team, one mission" approach.

Huenefeld provided a construction update on PCAPP EDS. The EDS project currently employs 41 people. He noted site progress, including the completion of the command post, change house and treaty trailer. He reported that environmental enclosures (EE) arrived on site on June 19 and EE1 was put into place on June 23. Huenefeld shared the PCAPP EDS construction video and recognized the outreach office team for a "great" video. No questions were asked of Huenefeld.

Kornelly provided a summary of the Permitting Working Group (PWG) meeting held earlier in the day, including PCAPP permit reviews of the test and operations plans. She said that once the operations plan was approved, it will be reviewed in detail at a future PWG meeting. The test plan will follow suit. Kornelly said the EDS draft permit was also discussed and details on the permit will be shared during the July 30 meeting at the District Attorney's Conference Room.

Vincent asked Kornelly about the possibility of the CAC touring the EDS site. Kornelly said that perhaps the commission could tour in mid-October.\*

The next CAC meeting is scheduled for July 30 at 6 p.m. at the Olde Towne Carriage House.

The meeting adjourned at 6:55 p.m.

\*After the meeting, Bird suggested the CAC tour the EDS site following the PCAPP EDS Start of Agent Operations ceremony scheduled for Sept. 4. Kornelly and Huenefeld are in favor of the idea which is being explored by the public affairs team.

**Colorado Chemical Demilitarization Citizens' Advisory Commission Meeting**  
**Olde Towne Carriage House**  
**30 July 2014**

Approximately 53 individuals representing the Colorado Chemical Demilitarization Citizens' Advisory Commission (CAC); Colorado Department of Public Health and Environment (CDPHE); Chemical Stockpile Emergency Preparedness Program; Chemical Materials Activity, Recovered Chemical Materiel Directorate; National Research Council (NRC), Pueblo Chemical Agent-Destruction Pilot Plant (PCAPP); U.S. Army Pueblo Chemical Depot (PCD); Federal Emergency Management Agency Region VIII; Pueblo County Planning and Development; and U.S. Sen. Michael Bennet's Pueblo office 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 6:02 p.m.

Kornelly asked for and received approval of the minutes from the 25 June CAC meeting. She had no project updates.

Lt. Col. Michael Quinn, commander, PCD, provided an overview of the transport of munitions from PCD igloos to the Explosive Destruction System (EDS) site. Movement will be from three permitted storage igloos, using current, approved standard operating procedures. A total of 560 items, including 549 overpacked munitions, two overpacked Department of Transportation (DOT) bottles and nine DOT bottles will be moved. The first items slated for disposal are the DOT bottles with the EDS team identifying the order of delivery of the remaining items, based on lot number and the condition of the overpacked munitions. The operational sequence is: site set up, monitoring, loading, delivery, monitoring and storage. This will be the same sequence for delivery to PCAPP. Terry Hart, vice-chair, CAC, asked if transport operations would be suspended if a mustard agent leak is detected in a Modified Ammunition Vehicle (MAV). Lt. Col. Quinn confirmed that health, safety and environment are paramount and movement would stop when a leak is detected. Lt. Col. Quinn explained the path the vehicles will take from the Chemical Limited Area to the EDS site, noting the MAVs will never cross paths. Movement will begin no earlier than 9 Oct., only after the storage igloo at the PCAPP EDS site is authorized to store surety material. Lt. Col. Quinn concluded his presentation by outlining PCD's support of PCAPP operations, which includes munitions movement, entry control facility operations and emergency response.

Doug Knappe, unit leader, Hazardous Waste Permitting Unit, CDPHE, provided a permitting update. Knappe said the construction certification process continues to make progress; the Bechtel Pueblo Team (BPT) has sent Knappe's staff the last 15 packages. Knappe said the draft permit for PCAPP EDS includes two EDS units, two igloos and one storage pad. The comment period for the EDS permit ends on 8 Sept. Knappe said the permit could be approved, approved with changes or denied. EDS operations can begin 30 days after approval.

Dr. Robert Beaudet, chair, NRC, and Dr. Judith Bradbury, committee member, NRC, spoke about the NRC's hydrolysate study. Dr. Beaudet said the mission of the NRC is to develop criteria to determine if PCAPP's biotreatment process has failed. The council will define what failure is and if the process can be fixed without shipping hydrolysate off site. Kornelly stressed the off-site shipment of hydrolysate should be a last resort. Dr. Beaudet cautioned the NRC does not want to delay the destruction process. Dr. Bradbury discussed public involvement, saying the NRC determined three ways with which the public can provide feedback: comments provided to the NRC during their meetings in Pueblo; a dedicated email address, [Comments\\_for\\_NRC\\_Hydrolysate\\_Committee@nas.edu](mailto:Comments_for_NRC_Hydrolysate_Committee@nas.edu) (cards with the email address are available at the Pueblo Chemical Stockpile Outreach Office); and a webinar to be scheduled in late September or early October. Hart indicated the CAC would like to be involved in discussions with the NRC, saying "We are transparent and have a good relationship with PCAPP and PCD staff, but we won't give our trust away." Kornelly suggested that a matrix be created identifying items that could go wrong in the BTA and outlining items that could be fixed and those that cannot be fixed. The matrix would be completed prior to the webinar. Dr. Bradbury concluded the presentation by saying the NRC must write their report by mid-October.

Rick Holmes, project manager, BPT, provided a PCAPP update. Currently, the project has 1,042 employees on staff, 25 of which are construction workers. He said this will be the last time construction workers are included in his report to the CAC. Holmes reviewed local employment statistics and mentioned 70 percent of the staff lives in Pueblo or Pueblo West. The project manager said systemization is 60 percent complete and provided an overview of the systemization schedule. Bruce Huenefeld, site project manager (SPM), PCAPP, provided a construction update on PCAPP EDS. Ross Vincent, member, CAC, asked about the EDS permit being issued in October. Huenefeld said that operations cannot begin until 30 days after the permit is issued, but the Temporary Authorization allows for the system to be set up and systemized. Huenefeld said with the complexity of the EDS and the "big push" for the start of operations in the main plant, two SPM positions will be needed. Huenefeld said he volunteered to serve as the SPM for EDS but will continue to wear two hats until the PCAPP SPM position is filled.

Kornelly provided a summary of the Permitting Working Group (PWG) meeting held earlier in the day, indicating the focus of the meeting was the PCAPP EDS draft permit. The PWG will not meet in August.

The next CAC meeting is scheduled for 24 Sept. at 6 p.m. at the Boone Community Center.

The meeting adjourned at 7:15 p.m.

**Colorado Chemical Demilitarization Citizens' Advisory Commission Meeting**  
**Boone Community Center**  
**24 Sept. 2014**

Approximately 46 individuals representing the Boone Town Council; 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 Chemical Materials Activity, Recovered Chemical Materiel Directorate; and U.S. Army Pueblo Chemical Depot (PCD) attended this meeting held at the Boone Community Center in Boone, Colorado. Seven citizens were also in attendance.

Irene Kornelly, chair, CAC, called the meeting to order at 5:59 p.m.

Kornelly welcomed new CAC member John Norton who was recently appointed to the CAC by Colorado Gov. John Hickenlooper. All eight CAC members were in attendance.

Kornelly asked for and received approval of the minutes from the 30 July CAC meeting. She mentioned the continuing resolution went through smoothly, adding no appropriation or authorizations have been made.

Kornelly presented retired CAC member John Thatcher with a plaque, saying Thatcher had served on the CAC since 1 April 1993, giving 21 years of service to the community. She said Thatcher had been a good friend and good colleague and will be missed. Bruce Huenefeld, site project manager (SPM), PCAPP, presented Thatcher with an Assembled Chemical Weapons Alternatives commemorative coin.

Lt. Col. Michael Quinn, commander, PCD, had a few announcements, reporting the Organisation for the Prohibition of Chemical Weapons (OPCW) recently conducted an inspection; PCD passed. This week, a second OPCW team will conduct an engineering inspection. Inspections will become more frequent as PCAPP operations get closer. Quinn also reported 15 new employees have been hired and PCD has an additional 120 positions to fill.

Doug Knappe, unit leader, Hazardous Waste Permitting Unit, CDPHE, provided a formal presentation on CDPHE's Hazardous Waste Permitting Unit. He said that the unit writes permits and oversees design, construction, operation and closure of hazardous waste treatment, storage and disposal facilities. Knappe explained the purpose of hazardous waste permits, saying PCAPP will be Colorado's largest permitted hazardous waste treatment and storage facility. Knappe also reported the Explosive Destruction System (EDS) permit was issued and will become effective on 16 Oct. allowing for EDS operations. No questions were asked of Knappe.

Joe Majestic, deputy site project manager, and Ken Ankrom, systemization manager, provided a systemization update for PCAPP. Ankrom said utility systems are being tested and he anticipates they will be turned over to Kim Jackson, operations manager, and her team in two to three weeks. The systemization manager added that equipment level system testing of the Munitions

Washout System and agent collection and neutralization equipment level testing is complete. Thermal testing of the Immobilize Cell Bioreactor was performed in August. Testing of the plant's ventilation system and Near Real Time Monitoring equipment, and roof inspections of the Enhanced Reconfiguration Building (ERB) and Agent Processing Building (APB) are underway. The operability, maintainability and accessibility of process systems are being verified. It is anticipated that final balancing and equipment checks will be performed in late spring through the beginning of operations. Depot Area Air Monitoring System will be the last equipment installed. Ankrom stressed that operations will not proceed until PCAPP staff have full confidence that all safety systems are working, even if it impacts the schedule.

Bret Griebenow, deputy project manager, Bechtel Pueblo Team (BPT), provided a PCAPP update. Griebenow reported that plant management conducted a Safety Stand Down on 18 Sept. as a result of eight injuries to the workforce within a 48-hour period. He said the injuries are an indication that workers have lost their focus on safety. The stand down served as an opportunity for supervisors to meet with their staff, create a written plan that ensures workers have the right tools for the job, and refocus on the plant's commitment to safety, compliance, and Conduct of Operations.

Citizen Velma Campbell asked, "Do you have a direct route from employees to manager?" Griebenow explained the protocol for condition reporting. He added Rick Holmes has meetings with employees once a month; All Hands meetings are held once a month; and that he and Holmes maintain an open door policy. Campbell also asked, "What determines an OSHA reportable event?" Griebenow said there are standard guidelines by OSHA which the PCAPP Safety Team implements. John Norton, member, CAC, asked if the injuries to PCAPP staff required off-site treatment. Griebenow said that it was found that the individual who had a heat stress injury was found to have an unrelated heart problem so sought off-site treatment. The other injuries did not require off-site treatment.

Griebenow reported that hiring continues and a PCAPP Job Symposium will be held on 30 Sept. Positions to be filled are: instrument and control, monitoring, mechanical, ordnance and electrical. The deputy project manager said systemization is 62 percent complete, with 11 out of 57 major systems having been turned over to operations so far.

Griebenow reported three issues with the plant that may impact the schedule. First, there is the issue of air leakage in the APB which prevents the air balance necessary for the Cascading Ventilation System. The roof of the APB is being sealed. Second, there is a problem with heated transfer lines that will need to be replaced. Finally, there is an issue with the APB fire barrier. Griebenow said these issues will impact the schedule and testing is being re-sequenced for least impact. Ross Vincent, member, CAC, asked for specifics on how the schedule would be impacted. Griebenow said, "We don't have the answer yet, but we know it will have multi-months of impact."

George LeCakes, chief scientist, talked as a Battelle employee, announcing Battelle's award of \$200,000 of equipment and cash to Pueblo Centennial High School in order to promote careers in science.

PCAPP SPM Bruce Huenefeld commended the PCAPP staff's commitment to the Pueblo community. He continued with an update on PCAPP EDS which included current number of employees and safe work hours. Huenefeld shared photographs of each of the buildings on the EDS site and the arrival of the EDS unit. He mentioned the EDS Start of Agent Operations (SAO) event held on 4 Sept. and shared a video of the EDS public outreach event held at the Pueblo Weisbrod Aircraft Museum on 6 Sept. Huenefeld concluded his presentation by presenting Steve Bird, project lead for PCAPP EDS, with an EDS banner, used at the SAO events, to be displayed at the EDS Command Post.

Kornelly provided a summary of the Permitting Working Group (PWG) meeting held earlier in the day, saying there were three discussion items, including final EDS permit modification requests to the PCD Hazardous Waste Storage Permit; current schedule to commence EDS operations; and the current schedule for Notice of Deficiency (NOD) responses. Kornelly said there are four compliance issues to be worked out before EDS operations can begin.

The next PWG meeting is scheduled for 29 Oct. at 2 p.m. The meeting will be held at the District Attorney's Conference Room.

The next CAC meeting is scheduled for 29 Oct. at 6 p.m. at the PCAPP Training Facility at 4 Jetway Ct. Kornelly said that there will be demonstrations prior to the meeting. The BPT communication manager said tours of the facility will be held prior to the start of the meeting.

The meeting adjourned at 7:24 p.m.

**Colorado Chemical Demilitarization Citizens' Advisory Commission Meeting  
Pueblo Chemical Agent-Destruction Pilot Plant Training Facility  
29 Oct. 2014**

Approximately 41 individuals representing the Chemical Stockpile Emergency Preparedness Program, Colorado Chemical Demilitarization Citizens' Advisory Commission (CAC); Colorado Department of Public Health and Environment (CDPHE); Federal Emergency Management Agency Region VIII; Pueblo Chemical Agent-Destruction Pilot Plant (PCAPP); PuebloPlex; U.S. Army Chemical Materials Activity, Recovered Chemical Materiel Directorate; and U.S. Army Pueblo Chemical Depot (PCD) attended this meeting held at the PCAPP Training Facility. Eleven 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 24 Sept. CAC meeting. She said Congress is not in session so had no update. Kornelly commented PCAPP is operating under the continuing resolution.

Lt. Col. Michael Quinn, commander, PCD, introduced his new Non-Commissioned Officer in Charge Jason Hyche. Lt. Col. Quinn said the depot has recently hired four employees and will continue to hire additional employees to support PCAPP operations. On 29 Oct., PCD conducted a Chemical Accident Incident Response and Assistance (CAIRA) exercise at the PCAPP Explosive Destruction Site (EDS) site with the EDS crew. Lt. Col Quinn reported that this was the depot's first full-scale exercise, noting the exercise went well.

Doug Knappe, unit leader, Hazardous Waste Permitting Unit, CDPHE, provided a permitting update. Knappe said PCAPP is 98 percent complete with construction certification. He said the weekly systemization demonstrations provided to CDPHE by PCAPP have wrapped up.

Kornelly thanked PCAPP employees for the use of the training facility for the CAC meeting and for the tours. She said, "It's great to see the equipment in action. It's good to see things moving and coming together. We've been working toward this for a long time." She conveyed her appreciation to the training facility staff.

Kim Jackson, operations manager, PCAPP, presented the *Path to Operations*, saying that provisional operations have started for the Enhanced Reconfiguration Building (ERB) and yard. As of today 62 percent in the yard and 31 percent in the ERB is complete. The plant is in a certification period for operations and maintenance (O&M) staff with 50 percent of the plant now turned over to O&M staff. Activities to prepare for operations include the Emergency Response Team standup, which is complete, and the Rope Rescue Training, which is in progress. Provisional Operation activities include Toxic Area Training, which is in progress with 100 staff already trained; Projectile/Mortar Disassembly in progress with 16 control room operators who have completed the training; Munitions Washout System training will soon be launched; and Control Room Simulator Training, 25 staff members trained.

Jackson explained the process of performing plant evolutions. Kornelly said, “You can see that it is a very complex operation.” CAC member Ross Vincent asked, “How does this training compare to the plant being live?” Jackson said, “The training mimics agent operations and we will continue to train up to operations.” Vincent asked, “How do you deal with turnover; how will new employees be trained once operations start?” Jackson said, “We will see new employees after the start of operations that will be trained and then paired with a mentor for certification.” Project manager Rick Holmes added, “Kim and her team are doing an excellent job. They have the training broken down into crawl, walk and run, and will provide training throughout operations.”

Holmes provided a PCAPP update, saying that more than 5 million hours without a lost-time injury have been achieved. There is a continued emphasis on safety at the plant and representatives from the Occupational Safety and Health Organization (OSHA) will be on site next week to perform an audit. PCAPP has applied for OSHA’s Voluntary Protection Program award for systemization and operations. Currently there are 1,075 employees on site. Holmes said there are opportunities for professional growth at PCAPP, noting he has seen employees come on board in an entry level positions and move up to advanced positions. He said the last of the series of job symposiums ended in September with one new employee resulted from it. Employment advertisements have stopped but the plant will continue to recruit from Fort Carson.

Holmes provided an overview of PCAPP’s economic impact to date, reporting \$830.4 million has gone toward payroll, \$256.6 million to Colorado companies and \$85 million was spent in Pueblo County.

Holmes said PCAPP systemization is 65 percent complete. He reminded meeting participants that systemization consists of people, paper and plant. An example of “people” is crew training and certification; and plant evolution reporting involves “paper”.

Holmes said crews are working to seal the ceiling of Agent Processing Building and will make sure the building ventilation will work as designed. Crews are also replacing agent sample lines so that system will work properly. Vincent asked if a different material for the sample lines is being used. Holmes said before the new lines are installed, every lot is tested and the sample can be injected just once per day. CAC vice-chair Terry Hart asked, “Once operations begin, will lines be tested?” Holmes said the lines will be validated all of the time. Before anything that is brought into the site, it is tested to make sure that it won’t cause interference potential. The instruments are continually tested for performance.

Holmes said work continues on Biotreatment Area risk reduction. Testing is being performed to ensure the system is functioning properly. Four tests have been performed involving thermal loading in an Immobilized Cell Bioreactor (ICB) to determine the heat load, solar load, air gap and temperatures both outside and inside of the ICB. If the temperature is too high the bugs slow down; therefore, hydrolysate may need to be cooled.

Site project manager Bruce Huenefeld provided an update on the PCAPP EDS. Huenefeld said construction is 100 percent complete. Currently there are 41 employees working on the EDS project.

Dean Grinstead, business manager, International Brotherhood of Electrical Workers (IBEW) provided a presentation on the IBEW. Grinstead described many of the jobs and volunteer efforts the union has performed, including the electrical work at PCAPP. He said the IBEW has existed for 115 years in the Pueblo community, helping those who don't have the benefit of collective bargaining. CAC Ken Griffin said he is a proud member of the IBEW. Kornelly said, "We appreciate what you've done for PCAPP and for the community."

Kornelly provided a summary of the Permitting Working Group (PWG) meeting held earlier in the day. She said the meeting was short and involved a conversation on outstanding permits. She said project lead Steve Bird provided an update on EDS. Bird said the start of operations for PCAPP EDS is January 2015.

Kornelly said no meetings will be held in November.

The next PWG meeting is scheduled for 10 Dec. at 2 p.m. The meeting will be held at the District Attorney's Conference Room. Four permit modifications will be discussed.

The next CAC meeting is scheduled for 10 Dec. at 6 p.m. at the Olde Towne Carriage House in Pueblo.

The meeting adjourned at 7:14 p.m.

\*Approximately 55 individuals toured the PCAPP Training Facility prior to the meeting. Kelsey Kennedy, reporter, KOAA-TV, provided coverage of the tours.

**Colorado Chemical Demilitarization Citizens' Advisory Commission Meeting**  
**Olde Towne Carriage House**  
**10 Dec. 2014**

Approximately 39 individuals representing the Chemical Stockpile Emergency Preparedness Program, Colorado Chemical Demilitarization Citizens' Advisory Commission (CAC), Colorado Department of Public Health and Environment (CDPHE), Federal Emergency Management Agency Region VIII, Pueblo Chemical Agent-Destruction Pilot Plant (PCAPP), 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.

Kornelly asked for and received approval of the minutes from the 29 Oct. CAC meeting. There was one correction, spelling of Jason Hyche. Hyche is the non-commissioned officer in charge at PCD. She reviewed dates for 2015 CAC meetings, and asked for and received approval of those dates.

Kornelly said she represented the CAC at the 19<sup>th</sup> annual meeting for the Organisation for the Prohibition of Chemical Weapons in The Hague. She was one of four speakers from the United States. She explained the main topic of discussion at the meeting was the use and destruction of chemical weapons in Syria—how and when production facilities would be destroyed and who would pay for the destruction. She said the use of chlorine gas in Syria was also discussed. A Russian ambassador discussed when their weapons would be destroyed, saying their stockpile would be completed in December 2020. Kornelly said the U.S. did not deviate from its schedule, saying the Blue Grass Chemical Agent-Destruction Pilot Plant would complete operations in 2023. Kornelly speculated the U.S. will be complete before Russia. She said discussions regarding environmental problems with chemical weapons dumped into the ocean and the use of chemical for riot control also occurred.

Lt. Col. Michael Quinn, commander, PCD, said the depot has hired 10 new employees, bringing the post to the highest number of employees in seven to 10 years. He said the depot is aggressively advertising to fill an additional 100 positions. Quinn said training is being planned with PCAPP and PCAPP Explosive Destruction System (EDS) teams in anticipation of operations. CAC vice-chair Terry Hart asked for the number of total employees. Quinn responded PCD currently employs 358 individuals. CAC member John Norton asked, "What type of positions are you hiring?" Quinn responded, security law enforcement—entry level, and toxic material handlers.

Doug Knappe, unit leader, Hazardous Waste Permitting Unit, CDPHE, provided a permitting update. Knappe said the state health department is processing permit modifications for the EDS test plan, comparing data against the Multi-Pathway Health Risk Assessment. Minor modifications will need to be made to the plan in order for PCAPP EDS to start operations. CDPHE staff is also processing operations plans and discussing the schedule for PCAPP.

Rick Holmes, project manager, Bechtel Pueblo Team, provided a *Year in Review* presentation. Holmes explained that he has changed the schedule on his key results slide, saying that PCAPP will begin operations as soon as it is practical, noting the current forecast is January 2016, which aligns with the Program Executive Office, Assembled Chemical Weapons Alternatives 50/50 schedule. He said the plant is in a mission readiness phase with about half of the systems having been turned over. To recognize these turnovers, the plant has adopted the practice of turning over a symbolic key.

Holmes reported systemization is 67 percent complete, with the Enhanced Reconfiguration Building (ERB) being 96 percent complete, the Agent Processing Building (APB) 82 percent complete and the Biotreatment Area 68 percent complete. He said provisional operations have been completed in the ERB and the yard.

Currently, PCAPP has 1,150 employees and human resources staff continues to track local hires. Holmes said Occupational Safety and Health Organization (OSHA) staff conducted an audit in November and has recommended star status in its Voluntary Protection Program. There are plans for a recognition ceremony to be held in early 2015.

Holmes spoke about compliance excellence, saying 26,000 data points have been inspected, surveyed or audited. He also acknowledged his staff's continued community involvement, noting 2,258 volunteer hours were performed last year.

Kornelly inquired about future plans for the PCAPP Training Facility. Holmes said there will be advanced training for control room operators and continued training for new employees due to turn over. Holmes acknowledged the plan to provide Toxic Area Training to Blue Grass employees; however, those plans have not been finalized. He also said PCAPP will lease a building near the training facility for office and warehouse space.

Site Project Manager Bruce Huenefeld provided an update on the PCAPP EDS, discussing staffing, number of safe work hours, anticipated schedule and progress on permits. CAC member Ross Vincent asked about the total number of EDS employees. Bruce said that Komada currently has eight employees; however, a dedicated crew of approximately 20 employees will be on site for EDS operations.

The Pueblo Chemical Stockpile Outreach Office staff shared their newly completed *PCAPP 2014 Year in Review* video.

Kornelly provided a summary of the Permitting Working Group (PWG) meeting held earlier in the day. She said two topics were discussed, the permit modification for APB fire walls and changes to the Pilot Test Demonstration Plan, noting neither have been approved by CDPHE.

The next PWG meeting is scheduled for 28 Jan. at 2 p.m. at the District Attorney's Conference Room. The next CAC meeting is scheduled for 28 Jan. at 6 p.m. at the Olde Towne Carriage House in Pueblo.

The meeting adjourned at 6:56 p.m.