PIMA COUNTY WIRELESS INTEGRATED NETWORK (PCWIN)
EXECUTIVE MANAGEMENT COMMITTEE

Pima Emergency Communications Operations Center
3434 E. 22nd Street
Thursday, May 23, 2013
9:00 a.m.

SUMMARY OF MEETING

Note: The following is a summary of what transpired at the May 23, 2013 EMC meeting. Recording and materials provided are available upon request.

I. Call to Order: Chief Daniel Sharp, Chair, 9:00 a.m.

Roll Call: Catherine Hanna, Pima County Sheriff’s Department

Members Present

Chief Daniel Sharp, Oro Valley Police Department
Chief Doug Chappell, Drexel Heights Fire District
Chief Anthony Daykin, University of Arizona Police Department
Assistant Chief Charles Hangartner, Tohono O’odham Police Department (Alternate)
Assistant Chief Dave Ridings, Tucson Fire Department (Alternate)
Captain Paul Wilson, Pima County Sheriff’s Department (Alternate)
Mr. Tony Aeilts, Tucson Police Department (Alternate)
Mr. Paul Wright, Jr., Northwest Fire District (Alternate)
Mr. Mike Hein, Office of Emergency Management & Homeland Security

Members Absent

Sheriff Clarence Dupnik, Pima County Sheriff’s Department
Chief Roberto Villaseñor, Tucson Police Department
Chief Mike Brandt, Northwest Fire District
Chief Jim Critchley, Tucson Fire Department
Chief Joseph Delgado, Tohono O’odham Police Department

Others Present

Lionel Bittner, Pima County ITD
Frank Brady, RACES
Keith Brittain, UAPD
Tony Casella, Pima County ITD
Todd Cupell, Corona de Tucson Fire
Doug Emans, Northwest Fire
Mike Garcia, Tucson Fire Department
Chuck Gilchrist, Motorola
Scott Hamblen, Northwest Fire
Joe Jakoby, COT IT
Randy Karrer, Golder Ranch Fire District
Jayne Kahle, Rincon Valley Fire District
Geoff Kuhn, Tucson Fire Department
Jim Long, Northwest Fire
Andre Matus, Pascua Pueblo Fire
Charles Mendonca, Drexel Heights Fire
Robert Padilla, PC Finance & Risk Mgmt
Kathleen Robinson, Tucson Police Department
Mike Sacco, PCWIN/PECOC
Andy Smith, Golder Ranch Fire District
Angela Spencer, Tucson Police Department
Larry Stevens, Oro Valley Police Department
James Stoltenberg, Rural/Metro Fire
John Voorhees, Pima County
John Williams, Three Points Fire District
II. Approval of Minutes  
Chief Daniel Sharp, Oro Valley Police Department

Chief Sharp proposes approval of the minutes for the April 25, 2013, Executive Management Committee (EMC) meeting. Mr. Hein moves to approve the minutes and Chief Chappell seconds the motion. Motion unanimously carries.


III. Repurposing Use of Space at the Pima Emergency Communications & Operations Center (PECOC)  
Captain Paul Wilson, PCWIN Sponsor  
Mr. Gary Campbell, Pima County Facilities Management

The dispatch portion of the facility contains the main dispatch floor and two (2) separate areas for Tucson Police back up and Tucson Fire back up. Both spaces were also to be used as training environments for the tenants of the building.

The proposed plan is to relocate the back up consoles from the Tucson Fire back up onto the main dispatch operations floor. We would then remodel the area into office spaces, relocating dispatch administration/supervisor areas and reutilizing the vacated spaces into offices for Pima County ITD. Mr. Gary Campbell, with Pima County Facilities Management has been responsible for putting the floor plan together and is present if the Committee has questions.

Mr. Campbell explains that the design changes will not impact the regular operations schedule or cutover plans.

Chief Daykin was not a part of the Committee during the design of the building and asks for the pros and cons of the recommended changes and possible affects the changes may have on the back up design for the building.

Captain Wilson explains that during the programming process, the design of the building changed several times. The repurposing of the space will not impact the capabilities of the back up environment (same number of workstations, equipment, etc). During the programming discussions and when all agencies were to be under one communications center, there was a lot of discussion surrounding how the City operations would be segregated from the other agencies. With the current recommended changes, the Tucson Fire back up will be relocated to the main dispatch floor, no longer segregating away from the County Fire and Sheriff’s Department.

Another issue noted involved the dispatch floor designation as a control terminal access area for purposes of ACJIS. There were concerns raised about pre-employment background screenings on employees with the Tucson Fire Department. Through policy and procedure, Staff believes there will be direction as to where Tucson Fire employees will be restricted while in the building during a back up deployment to satisfy the ACJIS requirements. The County Systems Security Officer believes the plan will satisfy the requirements, as well.
Additionally, while there is no defined budget or schedule for these changes, Staff expects the remodeling will be paid for out of the County Bond Funds. It does not appear that the cutover schedule will be impacted.

This topic will be kept as a standing agenda item. Quotes are anticipated soon from Gary Campbell.

Materials provided: Memorandum to Pima County Administrator Chuck Huckelberry from Mr. Reid Spaulding, Director of Pima County Facilities Management, reference Repurposing Space at PECOC, dated May 15, 2013.

IV. Site Development
Mr. Tony Casella, Pima County Information Technology Department

Mr. Casella, refers the Committee to his handout with Site Development, Microwave, and Voice Radio Cold Install updates.

Site Development Highlights

- Swan Road – New tower replacement is complete; minor punchlist items are being finalized
  - Wall was painted on May 22nd
  - Razor wire will soon be placed on top of the wall
- TOPSC – Fire Suppression System scaffolding is being remediated
  - Email received from the COT who approved the Method of Procedure for the work
  - Pima County will coordinate with the COT facilities to complete the work
- TOPSC
  - Monopole failed the structural analysis and the antennas are already mounted on the towers
  - Goal is to keep the antennas on the monopole, but grouting the tower is being discussed as an option to strengthen the tower
    - If the recommendation is to replace the monopole, Mr. Casella will recommend that replacement occur after system cutover and not worth affecting the schedule
- OVPD Generator – PCWIN and OVPD approved the plans; electrical requirements are being finalized and will be forwarded to permitting
- Tumamoc Hill – Phase I site development work is almost complete
  - Next step is City/FBI/County antenna migration
  - Antenna Migration Plan is almost finalized
  - Once the engineers have reviewed and agreed with the antenna locations, the document will be circulated for signatures
  - Phase II of the project will be complete in July and include the demolition of the surrounding City and County buildings and towers
- Bigelow – Some television stations didn’t want to turn down power during ratings season
  - This delayed work on removing the 3-ton antenna by two (2) weeks
  - Work on the site began May 22nd
  - Fire season is anticipated and restrictions were given to Pima County ITD
  - Spotted owl season is also anticipated
Site Specific Agreements

- Tumamoc Sub-Tenant Agreements – Amendments by the City of Tucson await approval
  - FBI amendments have been approved
- The amendment for the OVPD SSA has been approved by their Town Council for replacement of their generator; SSA goes to the Board of Supervisors June 18th
- County awaits the City’s approval of the SONET Networking agreements
- County has reached out to the U of A to further amend the SSA for use of Tumamoc for the permanent generator location

Captain Wilson expresses his appreciation to Mr. Casella and his staff regarding the site development work in support of the project. Site development is nearing completion and equipment is being installed which takes cooperation and effort from his staff.

Materials provided: PCWIN Site Development, Radio and Microwave Systems Installation, handout as of May 15, 2013, by Mr. Casella, Pima County Information Technology Department.

V. Arivaca Communications Site

Mr. Lionel Bittner, CIO, Pima County Information Technology Department

The completion date for Arivaca is mid-July and in working with Motorola, it was determined that mid-July is the latest timeframe for completion without affecting the schedule, coverage testing, and cutover of the system.

GovNet met with the federal environmental consultant who stated that GovNet had the right to build a temporary site, but because GovNet is part of a federal project, work could not begin without obtaining the necessary environmental assessments.

The federal government agreed that they would extract Arivaca out of a packet of the submitted environmental assessments and fast track the documentation as soon as the initial assessments were complete. The next phase would be to conduct the assessment of the new utility easement which crosses a private rancher’s land. The rancher has given approval to assess the land. The report will be given to NTIA, pull out the assessment (Arivaca specifically) and asked for two (2) weeks to accomplish the work. That two (2) week period would end around June 7th.

While this work was being conducted, Staff was going to send draft letter to NTIA, requesting their assistance in expediting this work.

GovNet is ahead of schedule on equipment delivery, but the environmental assessment and obtaining a contractor is where the potential delays come from.
VI. Radio & Microwave Systems Installation Status Report
Mr. Rick Brown, Pima County Information Technology Department

Voice Radio Site Activity

- Cold installs performed at the solar sites
- Antenna installation is complete at FS12, Swan, and Tumamoc Hill
- Site optimization continues on Beacon and Confidence
- Site walks continue; several sites identified to revisit

User Training Upgrade

- Motorola has visited several sites anticipated for training which will be evaluated
- Training dates are anticipated soon

Vehicle Install Preparation

- Potential locations are being evaluated
- Staff is working with Motorola to establish mobile teams from the fire agencies to assist with vehicle installations

Cutover Planning

- Staff is working with public safety and non public safety agencies on how best to conduct cutover
- Training will include the dispatch managers and determine what frequencies will be needed

VII. Northwest Consortium Conceptual Design Update
Captain Paul Wilson, PCWIN Sponsor

The City of Tucson provided a Conceptual Design for a dispatch solution to service the Northwest Consortium. Captain Wilson prepared a powerpoint presentation with several proposals for EMC discussion and consideration.

In short, the items will utilize the PCWIN conventional channel gateways to interconnect the PCWIN system with legacy station alerting system at the fire departments.

The second item for discussion includes the hospital communications, in particular with out-of-area and air ambulance providers. The Northwest Consortium offered a solution to include interconnecting with PCWIN via conventional channel gateways.

The third item for discussion includes the interconnection between PCWIN and the Northwest Consortium’s legacy standalone VHF radio system, making use of PCWIN conventional channel gateways as well as the new MCC7500 dispatch consoles, located at Tucson Fire dispatch.
Through other inputs, additional interoperability issues were found which need to be addressed.

**Northwest Consortium Dispatch & Fire Meds Communications Proposals – Captain Paul Wilson**

- Proposed Uses
- PCWIN Network
  - Proposal #1: Station Alerting Tucson Fire, Drexel Heights Fire, Green Valley Fire, Mount Lemmon Fire, Rincon Valley Fire, Tohono O’odham Fire (not recommended for Northwest Consortium)
  - Proposal #2: VMED28
  - Proposal #3: Interconnection of Northwest Consortium standalone VHF system with PCWIN network for dispatch support from Tucson Fire
  - Shared Channel Interoperability: Marana Police and Tucson Airport Authority

- Recommended Motions

**Discussion – Proposal #1**

Fire agencies dispatch in two (2) ways; two-way audio which goes from dispatch operations to vehicles via portable radios; have one-way audio which goes through either microwave, fiber, or other back haul communications to get the audio to a fire station where it interacts with systems at those facilities that automate facility operations.

It’s proposed that PCWIN is interconnected with the purpose of sending audio out of the system to the station alerting systems so fire agencies could continue to receive their radio traffic in their facilities via the station alerting systems.

This proposal will send one-way audio from PCWIN to the station alerting packages of all of the agencies using the regional radio system for dispatch. It’s not recommended for the Northwest Consortium, as the information being passed is done so by the VHF standalone radio system and supporting the agencies continued use of that, in competition with the regional radio system. More information will be discussed in Proposal #3.

Mr. Paul Wright, with the Northwest Consortium, does not support Captain Wilson’s recommendation. Northwest Fire, Green Valley Fire, and City of Tucson use the same station alerting package. The City of Tucson and the Northwest Consortium are moving toward a common contact controller, so it becomes technically and operationally problematic once fire stations become incompatible. He adds that in regards to station alerting, the idea to exclude the Northwest Consortium should be dropped. There are two routes to station alerting; one is directly from the CAD computer when a fire station is recommended. The only component which goes over the Northwest Consortium radio system is the tone to open the station, which would not only impact Northwest Fire, but the other members of the Consortium, as they do not have contact systems in their stations and would cut off their means of being alerted.
Mr. Wright recommends approving the use of station alerting, recognizing it will go out with a common gateway with a common purpose.

Captain Wilson inquires on what radio system would be used to support the dispatch communications. Mr. Wright explains that the Consortium intends on participating in PCWIN to some extent; however, for the other members of the Consortium, particularly Golder Ranch Fire District, who have verified that they will have coverage issues, the VHF system will be their most reliable means of station alerting.

Captain Wilson explains that his recommendations are based on the idea of trying to encourage the Northwest Consortium agencies to become full-time participants in the regional radio concept. Equipment quantities purchased by the Consortium do not support the full-time participation. The idea is that the primary radio source will be the legacy standalone VHF system, which is contrary to the business needs and goals of the Cooperative.

Mr. Wright states that the Consortium intends to be a part of the regional system and interoperate with Federal agencies on VHF. He takes exception to the idea that the standalone system be characterized as being “isolated.”

Assistant Chief Ridings asks for a description and definition of Project Sponsor, as defined by the Governance documents. Captain Wilson (current Project Sponsor) explains that Project Sponsor is not found in the Governance documents, although his job on the project has been to represent the needs of the end user community, and make recommendations on their behalf. Assistant Chief Ridings asks if there’s a description in the Governance documents whether Project Sponsor bring Motions to the EMC. Captain Wilson explains that since the EMC was formed, he’s often brought Motions to the Committee.

Mr. Hein explains that the IGA and supporting Governance documents were designed to be utilized once the system was implemented. Project Sponsor was described in a memorandum from the County Administrator, naming Captain Wilson as the point of contact for the Bond Implementation Project, once the previous Project Sponsor, Dr. John Moffatt, was reassigned to other duties. Assistant Chief Ridings explains that the EMC has no reference to Project Sponsor with regard to bringing Motions forward and has no authority to unilaterally speak for the Technical Working Group or the Operations Working Group, as they fall under the new PCWIN Governance.

Assistant Chief Ridings inquires about the Technical Working Group (TWG) vote in moving this particular Motion forward. Mr. Casella explains that the Technical Working Group is made up of Mr. Casella, Rick Brown (Pima County), Aaron Shepherd (Pima County), Greg McNeal (City of Tucson), Chris Ferko (City of Tucson), and Bob Morton (City of Tucson). The report released by the Technical Working Group was based off of questions to which Captain Wilson asked the Group to report on (also outlined in Captain Wilson’s memorandum). Over multiple sessions, the TWG agreed that the items listed as options for the Consortium were suitable. There was additional information listed on the bottom of the document as to what the County and City representatives disagreed on.
Assistant Chief Ridings states that Mr. Casella recently responded to a City of Tucson proposal, as a Technical Working Group member, but never saw a document forwarded to the Project Sponsor. Mr. Casella explains that when the TWG work on documents, it is recommended that those working documents stay within the Group. The TWG drafted a response to the Project Sponsor’s questions. Mr. Casella drafted the response, and circulated the response to the Working Group with a due date. The response received from the City representatives was a separate document, unrelated to the questions the County representatives proposed. That document, unfortunately, got circulated outside of the Working Group. The document Assistant Ridings didn’t see ended up being the one included in the EMC’s agenda packet, today. The separate document (information disagreed upon between the TWG) was then added to the bottom of memorandum.

Operations Working Group tasks include:

- Recommend to the Executive Director policies and procedures required for consistent reliable and coordinated use of PCWIN
- Develop recommendations to the Executive Director for purchase and equipment relative to PCWIN
- Coordinate with and support the TWG as necessary

Given that this is such a contentious issue and that it impacts a member agency, heavily, Assistant Chief Ridings recommends that the item be tabled until it’s further reviewed by the TWG, OWG, and Executive Director. Once it’s reviewed by the Executive Director, the issue will be taken up by the EMC or the Executive Committee. He adds that this action is procedurally improper and should be moved forward at a later date.

Captain Wilson explains that Assistant Chief Ridings was referring to documents which establish the Governing Board, Executive Committee, and sub-committees. The Executive Director has not been hired in light of the Operations and Technical Working Groups, but ad-hoc bodies have been developed to begin working group duties.

Mr. Hein explains that Captain Azuelo, with the Tucson Police Department, has offered to facilitate further discussions on this topic in an attempt to come to a consensus over the City and County’s disagreements. Mr. Hein suggests that this proposal be tabled until discussions take place as he’s confident that a consensus will happen. Mr. Wright suggests that items within Proposal #1, not in dispute, be moved forward. Mr. Bittner recommends that the language referring to the Consortium’s station alerting be removed from Proposal #1, and added to Proposal #3.

**Motion**

Mr. Hein motions to move Proposal #1, Use of PCWIN Conventional Channel Gateways to Support Fire Alerting, excluding the Northwest Consortium’s request which is moved to Proposal #3, with the understanding that discussions will continue between the City, County, and the Northwest Consortium. Chief Chappell seconds the motion.
Discussion

Chief Randy Karrer, with the Golder Ranch Fire District, explains that the Northwest Consortium is very much a partner in this new system. The solution developed out of the Consortium uses Consortium equipment, and is representative of what the Consortium is trying to accomplish in the regional interoperability solution. There is no clarification as to whether the Consortium is a full player or not. Radio needs were indicative of the situation and the Consortium dealt with the issues, which gave nine (9) days to make a very large budgetary decision. The goal is interoperability and to communicate with one another; politics has no business in public safety. If the Consortium does not have the VHF system operational, those fire agencies can’t communicate, and by law, they are required to do so. The Consortium wants to be players and work cooperatively, but see their system as robust, new, and efficient to run.

Motion carries 6/3.

Discussion – Proposal #2

This proposal will interconnect using the Conventional Channel Gateways to connect to the VHF VMEDS28 Repeater. The Consortium would install a VHF repeater on Tucson Mountain which can be used by air ambulance companies and/or out-of-area ambulance providers and interconnect them back to PCWIN, so hospitals operating on the PCWIN network would be able to interoperate with those agencies.

It appears that the hospitals are interested in becoming a part of PCWIN, particularly if the project will provide radios on their behalf. Captain Wilson identified nine (9) interested hospitals and estimated approximately $15,000 maximum per each hospital to receive the necessary equipment. PCWIN Contingency Funds would be used to pay for this equipment, and the hospitals would have to become participants of the Cooperative in order to have the equipment.

Captain Wilson’s recommendation is to allow the interconnections in the conventional channel gateways, and if it’s the pleasure of the Committee, make the funds available for radio purchases.

Motion

Mr. Hein makes a motion to allow the use of PCWIN Conventional Gateways to interconnect with the VMEDS system, including the equipment purchases, totaling approximately $135,000, as recommended by Staff. Chief Daykin seconds the motion. Motion unanimously carries.

Discussion – Proposal #3

Motion

Mr. Hein motions to table Proposal #3 until the next EMC meeting. Chief Daykin seconds the motion. Motion unanimously carries.
Discussion – Shared Channel Interoperability

There was a request made by the Northwest Consortium and Tucson Fire to have their radios programmed with frequencies from Marana Police Department and the Tucson Airport Authority (TIA), allowing them to share interoperability.

Approving this would not require system resources; however, it would allow agencies to talk to Marana and TIA, directly. Written approval from the license holder is required to share their channel.

Motion

Mr. Hein motions to authorize Staff to program PCWIN radios with conventional radio channels from other 800 MHz systems to promote shared channel interoperability with other public safety agencies, if approved in writing by the licensee of the frequency(ies) to be programmed. Chief Chappell seconds the motion. Motion unanimously carries.


VIII. Operations & Technical Workgroup Update

Mr. Rick Brown, Pima County Information Technology Department
Mr. Geoffrey Kuhn, Tucson Fire Department

Technical Workgroup (TWG) – Mr. Tony Casella

The TWG provided recommendations on the Northwest Consortium Conceptual Design to the Project Sponsor for the EMC (see Item VII).

The TWG has finalized the framework for policy development, which includes a template for each section. Members have been assigned specific policies to draft. Work continues, but those involved in the TWG are responsible for implementing the project, so time is limited.

Operations Workgroup (OWG) – Mr. Geoffrey Kuhn

The OWG continues to work on individual policies assigned to specific workgroup members. Draft policies are to be uploaded to SharePoint and reviewed by the next meeting. Next meeting is scheduled for June 6th.

IX. Tohono O’odham Nation Support Update

Assistant Chief Charles Hangartner, Tohono O’odham Police Department

On May 22nd, Tohono O’odham representatives, to include Director Malcolm Lewis, Police Chief Joseph Delgado, and Assistant Chief Charles Hangartner met with Chief Sharp, Chief Chappell, and Captain Wilson to discuss the Nation’s commitment to the PCWIN project. Progress with the Districts is anticipated. Chief Sharp states that it was a very productive meeting and feels very positive about the progress.
X. PCWIN Executive Director Update
Mr. Mike Hein, Director, Pima County Office of Emergency Management & Homeland Security

The Executive Committee will recommend one (1) finalist to the Board of Directors at their 10:30 am meeting, this morning.

Over 200 applicants applied for the Executive Director position. Pima County Human Resources reviewed the applications and 50-60 met the minimum qualifications. Ten (10) applicants were asked to interview, and four (4) were asked to give a Business Plan overview presentation and a personal biography to the Executive Committee.

Mr. John Voorhees (present) ranked number one following the interviews. The Executive Committee made a recommendation to the Board of Directors that he be selected to fill the position in July. The Board of Directors will then make a recommendation to the County Administrator for approval with a July 1st hire date.

A final background check will be conducted following County Administrator approval.

XI. TOPSC Project Status Report
Ms. Angela Spencer, Tucson Police Department

- Walls and insulation are in
- Floor has been marked for the raised floor
- Cable is being installed in the floor
- Temporary HVAC system has been set up
- Schedule is 2 week behind because of the remediation process, but the City is confident that the console furniture equipment will be installed by the end of June or early August
- Motorola equipment will be installed by August 15th
- Transition and preparation meetings continues
- The Managed Services Solution is on track in finalizing the contract; completion date is anticipated for the end of June

XII. City of Tucson Logging Recorder Upgrade Request
Lt. Mike Sacco, PCWIN/PECOC

PCWIN project purchased a NICE Recorder for the radio system. The City of Tucson (COT) purchased their recorder a couple of years ago. There is a discrepancy between the purchased versions and in order to have the proper access, an upgrade is necessary:

- A matrix license which allows the two systems to talk to one another
- The software versions have to be the same

The quote obtained was $38,175 to bring the COT recorder up to the software version required and would allow them to access recordings on the PCWIN recorder. The COT has asked that this upgrade be purchased with the Bond funds. The project has also paid for the matrix license necessary for the upgrade.
The COT has received $4.4M to renovate TOPSC, as outlined in the IGA between the City and County. Funding for the upgrade can be taken from the $4.4M, but it’s a “not-to-exceed” IGA; therefore, as it’s written, it’s not acceptable to grant additional funding.

When Staff put the recording proposal together for EMC approval, there are a number of recorders in the dispatch center to record telephony traffic, then a centralized recording for the radio system. There were three (3) other NICE recorders deployed by other agencies, in addition to the COT. The County assessed that those entities did not have a version which would be compatible with the PCWIN recorder. Staff thought the City’s recorder was compatible at the time, and matrix licenses were purchased.

Captain Wilson explains that the Oro Valley Police Department is preparing to purchase a new recorder, which will be compatible to PCWIN. Staff may want to consider providing additional matrix licenses for agencies who require equipment that’s compatible to PCWIN, as well. Matrix licenses cost approximately $9,300.

If Staff denies the City’s request, the project would have to increase the number of inform licenses because you would have more users accessing the system remotely.

**Motion**

Chief Daykin motions to approve the $38,175 to purchase the NICE Telephony Logging Recorder upgrade for the City of Tucson, and $9,300 for the matrix license to connect Oro Valley. Each item will be purchased with PCWIN Bond Funds.

(The Committee made the point and understands that by approving this request, precedence will be set to purchase matrix licenses for agencies who upgrade their recorders, as long as Bond funds are available.)

Assistant Chief Ridings seconds the motion. Motion unanimously carries.

**XIII. New Business, Chief Daniel Sharp, Oro Valley Police Department**

Chief Sharp refers to the Committee for New Business. He receives no response.

**XIV. Call to the Public**

Chief Sharp asks if anyone in the audience would like to address the Committee. He receives no response.

**XV. Date-Time-Location of Next Meeting(s)**

**Thursday, June 27, 2013, 9:00 AM**
Pima Emergency Communications Operations Center (PECOC)  
3434 E. 22nd Street, Tucson
XVI. Adjournment

Chief Sharp asks for a motion for adjournment. Chief Chappell moves to adjourn the meeting. Chief Daykin seconds the motion. Motion is unanimously carries.

Meeting adjourns at 10:33 a.m.

Minutes prepared by: Catherine Hanna