

**MINUTES OF THE
MARICOPA ASSOCIATION OF GOVERNMENTS
INTELLIGENT TRANSPORTATION SYSTEMS COMMITTEE**

September 1, 2010
MAG Cholla Room, 2nd Floor
302 North First Avenue
Phoenix, Arizona

MEMBERS ATTENDING

Reza Karimvand, ADOT	Luke Albert, City of Goodyear
**Soyoung Ahn, ASU	Faisal Saleem for Nicolaas Swart, Maricopa County
Margaret Boone-Pixley for Bennie Robinson, City of Avondale	Derrick Bailey, City of Mesa
Paul Ward for Thomas Chlebanowski, Town of Buckeye	Ron Amaya, City of Peoria
Mike Mah, City of Chandler	Marshall Riegel, City of Phoenix
*Lt. Jenna Mitchell, DPS	Bob Ciotti, Phoenix Public Transit
Jorge Gastelum, City of El Mirage	**Bill Birdwell, Town of Queen Creek
*Jennifer Brown, FHWA	**Bruce Dressel, City of Scottsdale
Kurt Sharp, Town of Gilbert	Nicholas Mascia City of Surprise
Avery Rhodes for Debbie Albert, City of Glendale	Cathy Hollow, City of Tempe
	**Arkady Bernshteyn, Valley Metro Rail

OTHERS PRESENT

**Lydia Warnick, ADOT	Farzana Yasmin, ADOT
Karen Savage, Surprise	Darrell Bingham, ADOT
Madhuri Uddaraju, PBS&J	Arnal Gupta, Telvent
Amara Ibeji, CK Engineering	Lisa Burgess, KHA
Shanthi Krishnan, Jacobs	Anita Shanker, Stantec
Jason Watson, Horrocks	Jim Lee, Lee Engineering
David Bond, Horrocks	Brennan Kidd, Lee Engineering
Richard Weeks, AECOM	Jihong Cao, Parsons Brinckerhoff
Paul Basha, EPS Group	Dan Hartig, Ayres Associates
Art Kurbakov, YSMA	Ashish Arawal, AMEC
Natalie Carrick Michael Baker Assoc	Tomas Guerra, OZ Engineering
Sarath Joshua, MAG	Bo Gao, TransCore ITS
Leo Luo, MAG	Kiran Guntupalli, MAG

- * Not present
- ** Via teleconference

1. **Call to Order**

Acting Chairman Mike Mah called the meeting to order at 10:05 AM.

2. Approval of July 7, 2010 Meeting Minutes

Luke Albert moved, Nicholas Mascia seconded and it was unanimously carried to approve the minutes of the meeting held on July 7, 2010.

3. Call to Audience

Acting Chairman Mike Mah made a call to the audience providing an opportunity for any members of the public to address the ITS Committee. No comments were received.

4. Program Manager's Report

Sarath Joshua addressed the following items in his report:

- RCN Project Update: Fiber testing completed. ADOT is working with the vendor on configuration of active electronics. The next step is Camera Chameleon configuration and testing and teleconferencing system testing.
- Non-Recurring Congestion Study: Sarath asked Jim Lee from Lee Engineering to provide a quick update on the data collection effort. He reported that the AWAM Bluetooth devices were installed at Bell Road and 35th Avenue initially and then deployed along 35th Avenue from Bell to Buckeye and along 51st Avenue. Subsequent deployment includes Indian School, 7th Street, Thomas Road and Rural Road. The travel time under normal condition and incident cases were also demonstrated. Faisal Saleem asked what the sample size is. Jim mentioned it varies but generally in the range of 10%.
- Update on FY2015 TIP Programming: Sarath mentioned that there is a possibility that the MAG TIP will be frozen, meaning that no new projects can be programmed, due to possible EPA action on a MAG Air Quality Plan. The programming of new ITS projects in FY 2015 cannot proceed until this issue is resolved.
- FY2011 TSOP program: MAG will soon issue a Call for Projects for the FY2011 TSOP program. A total of \$400,000 is available this year. Acting Chairman Mike Mah asked how much time member agencies will have to respond to the Call for Projects. Sarath confirmed that it will be one-month from the date the Call for Projects is announced. Members agreed that one-month was sufficient time to respond.
- A simulation model for operations planning: Members were informed about briefing that will be held following the ITS committee meeting to present a new simulation model with Dynamic Traffic Assignment being developed at MAG. Members of the ITS Committee were invited to join.

5. Process for No-Cost Service Additions to the Regional Community Network (RCN)

Sarath Joshua provided a brief overview of the RCN project and RCN Working Group. He explained that the RCN Working Group has recommended a process that could be used by member agencies to add new applications to the RCN if no additional cost is required. The application forms as well as the process for No-Cost Service Additions have been provided to the Committee members. MAG TAG has already approved the process in their previous meeting. MAG ITS Committee approval is needed for this to take effect as a RCN procedure. **Cathy Hollow moved, Ron Amaya seconded and it was**

unanimously carried to approve the Process for No-Cost Service Additions to the Regional Community Network.

6. Ramp Meter Controllers and Central Control System Upgrade

Darrell Bingham from ADOT provided a brief presentation on the FMS ramp meter controllers and FMS Central Control System Upgrade project. He indicated that the Model 179 controllers that ADOT has been using is outdated and has exceeded its life span by many years. An ADOT study was initiated to review and recommend a new controller. At the same time the ADOT FMS Central Control System also needed to be upgraded to work with new controllers. The Model 2070 controller was selected for future FMS ramp meter control and TranSuite was selected as the new Central Control System. McCain firmware was chosen since it can work with 2070 controllers from three different vendors. In June, a computer server breakdown at the ADOT TOC paralyzed the old central control software and the entire FMS. TranSuite has successfully taken over FMS functions as the solo Central Control System. In addition to support the previous functions such as Data Archive, AZ511 Traveler Information, Travel Time Display, the new system is able to monitor and retrieve detection and ramp meter data in detail in real-time. The new system also provides ramp meter central control capability within ADOT TOC, a much needed function to adjust ramp meter rates remotely. Darrell also demonstrated some of the functions of the TranSuite system. The system as well as the controllers are under intensive testing right now. ADOT plans to install 2070 controllers in FMS Phase 6C, Red Mountain L202 from L101 to Gilbert Road and replacing all existing 179 controllers in the next few years. A ramp meter study will be launched by ADOT to review the ramp meter locations, rates and operating hours. Darrell responded to a question from Sarath that ITS Committee members will be invited to participate in the study. He also mentioned the possibility of integrating the state route traffic signals and freeway-arterial interchange signals into the TranSuite system, remotely change the metering rate, turn on and off ramp meters, etc. The remote control capability will bring ADOT's operation to the next level and greatly improve efficiency and provide a better service to the general public. Acting Chairman Mike Mah asked if these are possibilities or plans. Darrell mentioned that the study and the recommendations from the advisory group will determine the course. Sarath asked why ADOT is still putting 179 controllers for the current FMS projects. Darrell replied that ADOT needs to install and test 2070 controllers before a large scale deployment. Sarath asked Darrell to report on a safety related ITS project that would detect wrong way entry on freeway exit ramps. Four vendors have been selected to conduct tests at four different sites.

7. Maricopa County TIP Project Change Request

Faisal Saleem mentioned that Maricopa County is the lead agency of a joint TIP project MMA11-723 that also involves the City of Glendale and the City of Surprise. The original project scope planned to construct Dynamic Message Signs and install fiber conduit and cable along Bell Road from Loop 303 to 55th Avenue. 2 DMSs are in City of Glendale, 2 DMSs are in City of Surprise and 1 DMS is in Maricopa County. The County is seeking a committee recommendation to approve a scope change that would replace two (2) DMSs with two (2) CCTV cameras, and also amend the project limits from 115th Avenue to 55th Avenue. The 2 DMSs that were replaced in the project will be installed in the Surprise TIP project that will be discussed in the next item. This scope change would result in a reduction of total project cost from \$841,870 to \$546,000. The proposed change would keep the currently approved federal funding unchanged at \$382,200. The local share will be reduced from \$459,670 to \$163,800. The requested change would still meet the MAG

requirement that all federally funded ITS projects have a 30 percent local match. **Faisal Saleem moved, Nicholas Mascia seconded and it was unanimously carried to approve the requested scope change of the MMA11-723 project.**

8. City of Surprise TIP Project Change Requests

Nicholas Mascia mentioned that City of Surprise has a TIP project SUR12-818 programmed in the TIP for FY 2012. Surprise is requesting to change the scope of the project because conduit, pull boxes and optical fiber has already been installed as part of the Bell Road Resurfacing Project between Loop 101 and 195th Avenue. In addition, Surprise seeks approval to add the two (2) DMSs that will be replaced in MMA11-723 project. The request scope change will shorten the project length from Jackrabbit Trail to the canal by about 1 mile. The proposed changes will reduce the local share from \$1,203,783 to \$426,950 while keeping the federal share unchanged. The total project cost will be \$1,423,167. The requested change would still meet the MAG requirement that all federally funded ITS projects have a 30 percent local match. **Faisal Saleem moved, Nicholas Mascia seconded and it was unanimously carried to approve the requested scope change of the SUR12-818 project.**

Nicholas also mentioned that City of Surprise requests another project scope change to the TIP project SUR13-901 programmed in the TIP for FY 2013. The original scope was to establish fiber communications along Cotton Lane from Peoria Avenue to Bell Road for the purpose of connecting traffic signals, CCTVs and DMSs. Close coordination with ADOT has resulted in the installation of conduit required for fiber along Loop 303 that could be utilized by the city. The City of Surprise is requesting committee recommendation to approve a change to the scope to install optical fiber in the conduit along Loop 303 from Peoria Avenue to Bell Road and along Bell Road from Loop 303 to Surprise TMC for no additional federal funding. The local share will be reduced from \$1,500,000 to \$322,901. The total cost of the project will be \$1,076,339. **Nicholas Mascia moved, Faisal Saleem seconded and it was unanimously carried to approve the requested scope change of the SUR13-901 project.**

9. Status Reports by Committee Members

Bob Ciotti from Phoenix Public Transit mentioned the on-going effort to upgrade the Wireless communications network to the 800M Hz, which transit and law enforcement agencies will be using. Acting Chairman Mike Mah mentioned that Chandler TMC will also join the network. Margaret Boone-Pixley mentioned that Avondale is utilizing ARRA funding to construct an interim TMC. Ron Amaya mentioned that Peoria has a project to establish inventory in the fiber management software. The phase 1 of the fiber-wireless hybrid communications project is close to completion to connect 31 signals. Phase 2 will connect another 36 signals. Nicholas Mascia from Surprise mentioned that the Bell road ITS phase 3 project has been approved. The Greenway fiber project is under review and expected to start the construction in October. Faisal Saleem from Maricopa County mentioned that the plan for 99th Avenue fiber project from Olive to Bell is completed and expected to start the construction once the funding is obligated. Maricopa County is also upgrading/relocating its TMC, while looking for system upgrade as well. Bill Birdwell from Queen Creek mentioned that the Town Center ITS Phase 1 project is close to completion. Phase 2 is under ADOT review process.

10. Request for Future Agenda Items

No agenda item requests were received from committee members.

11. Next Meeting Date

Next meeting date was announced at 10:00 a.m. on Wednesday, October 6, 2010 at MAG.

12. Adjournment

Acting Chairman Mike Mah adjourned the meeting at 11:18 a.m.