

**GREATER AUSTIN AREA TELECOMMUNICATIONS NETWORK (GAATN)
INTERLOCAL AGENCY**

GAATN TECHNICAL SUBCOMMITTEE MEETING

MEETING HELD February 21, 2017 at 1:30 p.m.

AT Lower Colorado River Authority

LCRA Service Center, Room A504

3505 Montopolis Blvd.

Austin, Texas

MINUTES

1. Call to Order (Including a roll call)

GAATN Technical Subcommittee Chairperson Jaime Guerra called the meeting to order at 1:30 p.m. The following announced as present at the start of the meeting:

Jaime Guerra, on behalf of the University of Texas

Wayne Wedemeyer, on behalf of the University of Texas

Gary Weseman, on behalf of Austin Community College

John Kohlmorgan, on behalf of Austin ISD

Wayne Egeler, on behalf of State of Texas DIR

Jay Graves, on behalf of State of Texas DIR

Dain Herbat, on behalf of Travis County

Frank Ammons, on behalf of GAATN

Bo Kinsey, on behalf of Travis County

Chris Gonzales, on behalf of BryComm

Mace Royston, on behalf of Lower Colorado River Authority

Zach Pascouau, on behalf of GAATN

Carlos DeMatos, on behalf of GAATN

Bruce Hermes, on behalf of City of Austin

A quorum was established at roll call.

Guests:

Martha Krischke, on behalf of JC Communications

Bryan Hammack, on behalf of Titus Systems

Devin Carroll, on behalf of TTG Engineers

Aftab Sheikh, on behalf of TTG Engineers

2. Citizen Communications (3 minutes)

There were no citizen communications.

3. Review and approve minutes from the regular Technical Subcommittee meeting of January 24, 2017 (5 minutes)

Jaime Guerra asked members to review the draft minutes. Dain Herbat moved to approve the draft minutes as presented from the January 24, 2017 meeting; Gary Weseman seconded the motion and it passed unanimously.

4. Committee Chair's Update and Report (45 minutes):

A. Austin Convention Center GAATN backup NOCC discussion

Frank Ammons announced that two (2) members from TTG Engineers (TTG) are in attendance of the Technical Subcommittee meeting. Frank requested that the

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subcommittee review the Basis of Design and the Preliminary Layout Design for the proposed GAATN Backup NOCC at the Austin Convention Center, which TTG provided.

Wayne Wedemeyer asked for clarification on TTG's definition of peak load. In response, Aftab Sheikh explained that it refers to the maximum demand over the past 12 months for that particular panel. This does not refer to the initial inrush caused by powering of the equipment. The breakers will be sized to support the inrush.

Jaime Guerra noted that TTG used the term racks when it appeared they were referring to cabinets. Aftab confirmed that was correct.

Dain Herbat questioned if TTG identified floor space for the generator; Frank Ammons confirmed they did.

Gary Weseman asked if the generator would back up the mechanical load. Aftab explained that only the generator would back up the mechanical load, not the UPS. The UPS will only serve the IT load via busways.

Dain asked who would be responsible for maintaining the generator. Frank explained that the generator would be a GAATN asset and he will need to solicit a quote for the maintenance.

Wayne Wedemeyer inquired if the UPS would have a service bypass for battery replacement and service. Aftab stated that was correct.

Frank announced that GAATN would be receiving a final design for the data center on or before March 15, and will present it to the Technical Subcommittee at the March 21 meeting for review. Dain asked if there would be an estimated cost associated with the design. Frank indicated there would a projected cost provided, but GAATN cannot provide actual figures until they solicit quotes.

Jaime asked if there are any City of Austin or Austin Convention Center requirements that would affect the data center design. Frank mentioned that there will be, but that it is yet to be seen at this time and would better reflected during the next phase. Bruce Hermes included that he has provided the convention center with a draft MOU and will provide any feedback that comes from it.

Wayne Egeler questioned whether GAATN has determined any budgetary numbers in regards to the proposed design. Frank mentioned that the Job Budget Tracking Sheet reflects the initial amount proposed for this job. This proposed amount is for the initial buildout of the room and does not include the fiber coming from A1N at City Hall to the Convention Center. Once all costs have been determined, Network Management will provide a final rollup of all costs, broken out by line item.

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Aftab asked whether the footprint of the rack cabinets (30"x48") and the height of 48RU is acceptable; all entities agreed on both.

Wayne Wedemeyer inquired whether the cabinets were capable of a center mount. TTG stated that they were unsure but would confirm with their vendor.

Aftab requested the board to agree on the actual load density for rack equipment. The entities all agreed that the 5kW originally proposed was acceptable.

Aftab informed the subcommittee that the original room size, 600SF, increased to 814SF due to two rows rack layout instead of one row and one rack per entity, which is not efficient. Due to these changes, Aftab asked if this increase would be acceptable. Frank mentioned that these changes may be possible, but he would have to confirm this with the convention center.

Bruce questioned how large the generator footprint is and if that includes the fuel supply. Aftab explained that it is a natural gas fired generator; therefore, no fuel tank is required. The total footprint of the generator is 12'x5'.

B. Seeking recommendation for B2S COA EUFAP fiber request

Frank explained that the City of Austin is looking to purchase six (6) unassigned fibers on B2S contained in the yellow buffer tube as shown on the GAATN Existing Unassigned Fiber Acquisition Request form. Based off the EUFAP policy flowchart, Jaime clarified that this would follow Path B, since this buffer tube is unused by another entity. Path B then leads to questioning whether another entity would like to purchase strands on the same ring.

Carlos mentioned that these strands would be on the more populated areas of B2S, west of the airport.

Bruce Hermes asked the subcommittee whether any other participant covets the fibers the City of Austin is requesting. The subcommittee decided to adjourn to Executive Session under Texas Government Code 418.181 in order to view maps showing what fibers and designs are included with the EUFAP request.

Upon exiting executive session, Gary Weseman moved to recommend for Board approval the City of Austin's acquisition of B2S fiber under the existing EUFAP policy; Wayne Wedemeyer seconded the motion and it passed unanimously.

C. Review COA new pathway design into co-locate facility

Item discussed during executive session.

D. Review of Travis County relocate at Seton Hospital

Item discussed during executive session.

E. State of Texas discussion and review regarding three Capital Complex facilities

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Jay Graves stated that the Texas Facilities Commission (TFC) has contacted members of the subcommittee in regards to the closing of Congress Avenue from 15th Street to Martin Luther King Jr. Blvd in order to build three (3) new State buildings downtown. Due to the construction, some fibers on A2N may require temporary or permanent relocation. Frank interjected that this is a very large project, taking place near mostly Texas DIR infrastructure and that Network Management is working with TFC and DIR to assist any way they can. Jay mentioned that construction is scheduled to begin June 1, 2017.

5. Maintenance Contractor's Report (5 minutes)

A. Maintenance updates

Chris Gonzales reported that the maintenance contractor completed inspections on SRS and A1N and corrected 18 deficiencies. The contractor is currently working on A2N.

B. Material Inventory status

Chris Gonzales announced that material inventory spreadsheet has been updated to include a placeholder for reel R707, which has an anticipated delivery date of February 22, 2017. Once the reel has been accepted and tested, it will officially be added to the stock.

Dain Herbat asked how GAATN is doing on the procurement process; Frank stated that he would reach out to Brenda Dalton at AISD again in hopes of receiving an RFQ procurement boilerplate and would provide an update at the next Board meeting.

C. Bentley COMMS Power Viewer Installation & Training update

Frank Ammons informed the subcommittee that each entity must install the COMMS Power Viewer prior to the training. There are two options to complete the install: entities may self-install or Advanced.1 can do a remote install. The self-install will take 15 minutes and the remote install will take 30 minutes to complete. The training can be complete either remotely or at the Advanced.1 training facility. Frank also stated that he will send all members detailed information via email and will need a response from each regarding the installation and training preferences for the entity.

6. Project and Budget Review (25 minutes)

A. GAATN Project Status report

Frank stated that there were no changes since the last Technical meeting other than updating the spreadsheet to move all projects in design from Future Projects to Active Projects.

B. Job Budget Tracking review

Frank stated that there were no changes since the last Technical meeting. Network Management will present projects for the subcommittee to review for approval at the next Technical meeting. The intention is to fund these projects under the FY17 budget if possible.

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7. Top Five Project Concept Priority Discussions (60 minutes)

A. Longhorn Dam Pathway Fiber Route Defined

Frank listed the current options for the Longhorn Dam Pathway:

1. Entertain an agreement with Cyrus One
2. Create a connection between D1N and B2S
3. Create a connection between SRS and SRN
4. Create a connection from CTECC to a co-locate facility south of the river
5. Create a connection from City Hall to a co-locate facility south of the river
6. Look into the possibility of a connection from either the City Hall or the Austin Convention Center to a property south of the river, in which a GAATN facility could be built upon

Gary Weseman suggested looking into the options of connecting SRN to SRS or finding a south ring that all entities use and connecting it to a north ring all entities use. Jaime asked if a separate design session would be beneficial to determine the best options for Longhorn Dam. Gary agreed with the design meeting as long as Network Management provides all possible options beforehand. Bruce Hermes recommended making Longhorn Dam a main topic of the next Technical meeting showing pros and cons of each option, instead of a separate design meeting; and the subcommittee agreed.

B. SRN Capacity Expansion

C. SRS Capacity Expansion

D. AIN Capacity Expansion

Frank Ammons addressed C – E with a spreadsheet showing a chart for proposed distribution of an increased fiber count based off network rights percentages and a chart rounded for normalized tubing. Also displayed was a chart showing the strand count delta between the two distributions.

Dain Herbat mentioned that if the fiber breakout was solely based off Network rights, LCRA would not have any strands, however if this is a GAATN funded project they should be entitled to fibers on the expansion. John Kohlmorgan suggested a new option of allowing a subset of interested parties come together and fund the expansions, not forcing others who have no interest to be involved. Dain stated that it would be easier to do the breakout by network rights as a GAATN funded project since the new fibers are an asset whether each entity had the need for them or not. John suggested that the GAATN fund balance will not be able to fund every project and eventually some entities will have to come together to fund certain ones of their choosing.

In the case of the network extensions becoming a GAATN funded project, Jaime Guerra asked the subcommittee if there were any concerns or if any changes should be made. Gary stated that his only concern would be not having whole buffer tubes, however, Jaime mentioned that rounding the breakout to multiples of twelve (12) would cause a much higher delta from the breakout by network rights. Dain

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reiterated that the GAATN network was built as a group effort, inferring that all parties should participate and benefit from the expansions, even if it means taking years to complete them all.

In order to have a better idea of the available fund balance, Jaime recommend deferring expansion discussions until after costs are known for both the Austin Convention Center and the Longhorn Dam; the other subcommittee members agreed.

- 8. Executive Session:** At 2:28 p.m., Subcommittee Chairman Jaime Guerra announced that GAATN was adjourning to Executive Session under Texas Government Code 418.181 to discuss agenda items 4B, 4C, and 4D.

At 3:15 p.m., Jaime Guerra announced that GAATN was reconvening in open session. Jaime Guerra noted that Agenda items 4C and 4D were discussed during the executive session. No action was taken on either item.

- 9. Confirm date, time, and location for the next Technical Subcommittee meeting as March 21, 2017 at 1:30 p.m. at the LCRA Service Center, 3505 Montopolis Blvd., Room A504, Austin, TX.**

- A. Add any agenda topics for next month's meeting.**

For the next Technical meeting, John Kohlmorgan asked for updates on node cable maintenance and on the purchasing vehicle for network fiber.

The date, time, and location for the next Technical Subcommittee meeting was confirmed; the meeting adjourned at 4:20 p.m.