

KBOO Monthly Engineering Work Group Agenda

Wednesday June 7th 2017 PM Studio One

Welcome and Introductions –

Facilitator – Jenka

Minutes – Gil

Attendees – Marc, Robert, Jon, Jazz, Jenka, and Gil

Snacks and Refreshments -

Bananas, peaches, (Healthy) tortilla chips, and (Not healthy) Reese's peanut butter cups

Meeting Guidelines –

- 1) Take care of yourself
- 2) Step back, make room for all to have a say
- 3) Step forward, share your perspective
- 4) Say what you need to say without humiliating anyone
- 5) Don't make assumptions, ask for clarification.
- 6) Turn off your phone or put it on vibrate if you're expecting an important call.
- 7) Raise your hand to contribute and wait to be acknowledged by the facilitator
- 8) Use "I" Statements, speak from your own experience.
- 9) Keep a person's information you learn here confidential unless you have asked them.
- 10) Expect mistakes but be accountable and stay committed (to each relationship and to the work)
- 11) Upholding these meeting guidelines is everybody's business (not only the facilitator's). If you think a meeting guideline is not being upheld please use the process check sign and ask for a discussion of this. Process check jumps to the front of the line/cue and interrupts the discussion.

Agenda –

Missing Engineers – Sorry for the lack of Engineering folks this month. My Mom passed away on Saturday and I am in San Antonio with family taking care of arrangements. Mike Johnson is on vacation in Europe. Mark Wiener is in Canada. Phil Biehl is unable to attend this Wednesday.

Budget - MacRae is not able to join the meeting tonite, but says that she will join next month's meeting

Good in the Hood - Location is in North Portland; Robert and Marc will be helping with live remote; Jenka will be driving FuzzyBoo around; we will have to broadcast wirelessly; we need to develop a working relationship with Comcast; we need about 2 weeks lead time to see if we can get Comcast for Good in the Hood, so let's check the budget with Mac tomorrow, and see if we can get the ball rolling with contacting Comcast

Blues Fest - We need five days of internet; Marc says that we could get a one-month contract with Comcast;

Tower Comcast Install – The Comcast install was successful and we have connectivity up at the tower. The installers had a difficult time because the existing Comcast cable coming into the building was hanging off a pole and had dropped to the ground. Within 90 days, Comcast will be replacing the cable and providing a real hub in the basement area so that existing customers and get a more robust connection. We have a new Modem in the KBOO suite.

Big Pipe STL Update from Phil - Phil is expecting to lead the effort to get the new STL equipment installed and running. Here are his updates: “My understanding is that the equipment is all on hand but still needs the tower crew to schedule the installation. I’m not sure what the status is for Broadcast Tower. Do you? If not, I can call and harass them into committing. Fortunately the urgency has diminished since there is now a backup STL in place. It remains to be seen if it is reliable or not. Dropouts, disconnections, and such should be verified if this link is to be relied upon. Anyway, once the installation has been scheduled, I will setup a test system so that we can assemble, configure, and verify the gear before it is installed. Once that has been done BTS can go ahead with the installation. Likely we will take care of the studio side installation and BTS will do the Stonehenge side to save money. After that, we let it burn in for a week or so then move the Big Pipe CODECs over to that link. This means the Comcast backup will no longer be functional and we will be committed to the Ubiquity link as the main STL with the 950MHz link as the backup. Overall, this is a much more desirable configuration than depending on the internet for program transport. At the moment, it would probably be best to configure the link as a standalone network with only the CODECs connected passing program audio. Once we gain confidence with this system we can segment the link and start adding in other network traffic. With the condition that the audio always has highest priority. Since this is a 500Mb link (in the best conditions) I can’t see that this would be much of a problem in today’s environment.” Phil has contacted the tower climbers to try and schedule a setup. Robert wants to do ground testing when Tommy gets back.

Comcast Install at Tower – Gray installed a WRT54GL Router running dd-wrt on the Comcast service (173.164.102.213). Port forwards are configured for all the equipment that’s IP connected (BigPipe CODEC, Optimod, Burke ARC+ & Bench PC) and are working correctly. Abe says that VPN is not priority right now

Big Pipe Codecs – Kudos to Phil, Mike and Gray, who hammered on the Big Pipe codecs until they communicated with each other. Mike and I reinstalled the Big Pipe at the station and we were able to connect to the tower unit via Comcast. The tower codec now goes to the Optimod 8500 and we can switch from Big Pipe to the CDLink STL’s. I put the Big Pipe on the air for about 10 minutes and it sounds fine.

Tower PC – I installed a FocusRite Saffire USB interface on the tower PC. Now that we have a Comcast connection on this PC we were able to set up a 192 kbps stream from our IceCast mount point. This could be used as an emergency STL.

Dragon Naturally Speaking – Software has been installed on the P1 PC. It sees audio coming in from the console, but is unable to record in the software.

Production 3 – The sync issue was resolved. Other anomalies surfaced and we were unable to turn down

the monitor level. This was resolved by rebooting the Wheatstone blade. When I left the studio was functional. We didn't get Murdock grant, so we have to prepare for applying again in the future. We will need to have a plan in place for depreciating our equipment assets.

What the Festival Remote Broadcast – June 15th in Dufer Oregon . Crew needs to be selected. Last year it was Diablo and Devin that led the team. I will be pulling the remote gear package together early next week. We will make our presence known in the BOO Van. Tim "Diablo" and Devin will handle the remote this year.

Install and reconfigure TX room network at Tower – After Internet connectivity is established, we may consider configuring a VPN connection between the studio and the tower. The jury is still out on this one. We will table this initiative as it's not currently high priority.

Reconfigure audio chain at Tower – This will allow for remote control monitoring and switching between STL's, audio processors and transmitters.

Deep cleaning and recycle of Junk at the Tower – Serious recycle of useless piles of debris. We will wait for Tommy to get back to schedule. Let's have a cookout / deep cleaning party.

Clean up wiring at Tower – Cable management in the racks. Let's include in the cookout party

Update Documentation at Tower – Document all these tasks to have available at the site. Robert and Phil may work on this.

Harris DexStar Repair at Tower – Repair and install to get HD signal back on the air.

Harris Z10 TX Repair – Z10 has a power supply fault. Robert wants to know if we need an exciter?

Get Rid of Tommy? – No, not Tommy Hood! **Older Collins transmitter at Tower is blocking ventilation.** Remove and replace with another backup TX? Sell the Collins? Discussion. Robert says we only have one box from 1978. Marc want to know if we have a second transmitter that's operable? This is a question to ask Phil.

HVAC Scheduled Maintenance at Tower – Tom and Mike went up on May 4th. We need to fix the outside air handler thermostat so that it remembers settings after power failures. We hear that the HVAC folks didn't check the thermostat. Tommy says we should go ahead and order a new one. Phil sent the specs and picture of the thermostat we should get. Marc recommends getting a thermostat that we can monitor remotely. Gil and Jenka will follow up.

P1 Soundcraft Console – Fader1 Intermittent – King Fader. Jay or Devin would have fixed this, but Jon is not sure if it was just a potentiometer that faded out. Let's follow up with Tommy on this to find out if/when this got fixed.

CenturyLink – We have been paying for an old DSL line (503-232-0711), but are not sure if it is currently being used for anything; we will ask CenturyLink for activity report, and may disable the line to test. Robert suggests getting online and checking the account's usage.

Video Projector and Screen Install – Looking for help installing brand new video projector, ceiling mount and powered screen. Power issue and audio need to be resolved. Jon will help install the projector and screen.

Second Stream – Now we need another 24/7 of content and a Program Director for 2nd stream, and also a coder to make script for website showing program schedule. We should talk with Erin about having a meeting with podcasters and figure out the way forward. We need to figure out how to switch going to live broadcast.

Marc's update – Marc was at the station much of the day working Production 2 and he put in a second hard drive and made backup of OS, and also set it up to install Audition 3. Thanks Marc!

Next month agenda items (From Tim) – We've been talking about creating a checklist for remote broadcasts to make sure it's known that all equipment is with us and that we check it all back when we return. Not sure the group has time to work on drafting a preliminary list but any thoughts or ideas tonight would be great! Also would like to revisit the concept from a few meetings back about developing a calibration schedule for the different production rooms and the air room too :)

Rough Remote Checklist (from Tim)

G3 tie-line (test before leaving station)

Rainbow Bright Mixer
(Cords/Power Cords)

Headphone/CD player console
Headsets (3-4 pairs)
(Cords/Power Cords)
Microphones x2-3
(Cords)

Monitor Speakers
(Cords/Power Cords)

Field Recorder
Batteries
Router/switch
Ethernet cords long and short 4+ separate
On air and KBOO signs
Extension cords
Table
Pop up
Table materials

Time Off request for Tom in July – Tommy will fly to San Diego to surprise his son, Brandon, for his 30th birthday! Will need Engineering coverage from July 14th – July 21st.

Next Engineering Committee meeting date is Wednesday July 5th in Studio One at 7PM

Thanks Everyone!