

KBOO Monthly Engineering Committee Agenda

Wednesday February 1st 2017 7PM Studio One

Welcome and Introductions – Hand around the Contact sheet. You are valuable people. Please let us know how we can contact you.

Facilitator – Tom Hood

Minutes - [Jessy Damon](#)

[Attendance](#) - Tom Hood, Adrienne Carmichael, Arthur Rizzotto, Tom Flynn, Jazz Duberman, Sean Steward, Robert Jacobs, Marc Wiener, Diablo (Tim) Nakayama, Jessy Damon

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

Kudos – This could get long! KBOO Engineering is rockin thanks to Mike, Abe, Godiva, Devin, Robert, Phil and Mark. Good work all. [Tom: It has made a huge difference, thank you!](#)

Big Pipe STL – ~~Tuesday~~ [Wednesday](#) of last week we suddenly went off air at 11:35AM. Checking the STL's revealed the Big Pipe LT was down. It had lost it's connection to the tower. Our CDLink was functional so we are now on that link. Investigation at the tower found the unit down in the tunnel area unresponsive to ping although it was powered up. Thanks to Phil, Mike and Mark for probing the tunnel radio unit. It has been shipped to Broadcast Electronics for evaluation and options for moving forward. We hope they can fix or replace it rather than ship it to Germany for two months. Standing by for evaluation. Phil has mentioned there are more contemporary products on the market available at a price point that may be less expensive than a replacement of the BE unit. [Tom: Checked connection at Station, found it was lost. Went up to tower and switched to CD link within 35 minutes.](#) [Robert: How does the station link work?](#) [Marc: It is like a microwave link that transmits signal from tower to station.](#) [Arthur: Of all the stations I've worked with, they use internet connectivity to](#)

broadcast. Tom: That is something we will also talk about. For now, we are waiting for evaluation on if it can be fixed or not. Phil mentioned that the Big Pipe is aging, and we may need to think about other options. So we shouldn't spend more than \$1000 for repairs because other systems can be purchased for that around that amount.

MLK Remote Broadcast De-brief – Kudos to Robert and Abe for peering into the depths of the Tieline Commander and our Network Firewall. The TieLine has had a successful firmware update. The Comcast was rebooted. Several port forwarding and gate issues were resolved. The TieLine is now working well without dropouts, given a good bandwidth connection. MLK Production meetings, load in, setup, and broadcast were seriously hampered by the ice storm. We were able to get three connection options. One was a very poor hardwire connection from the church. The other two were wireless Verizon. Speed tests showed the best bang on the two Verizon connections. There were some reports of digital garbling in the 2-3PM hour. We found the bit rate had been raised from 128 to 192 mbps. The KBOO tech and talent crews delivered a great 7 hour broadcast. Thanks to Godiva for being the very first one to show up at our booth thru snow and ice on the day of show. Also thanks to Robert for jumping into his Jeep with me to respond to a power outage back at the station during the remote. Someone had tripped a breaker with a heater and knocked out power to the back hallway offices. We found the electrical panel locked, reset the breaker, and headed back to the remote via the ice skating rink... Tom: We had been having issues with dropouts, and thanks to Robert and Abe to assist with fixing. Now there are no dropouts! However, there were some garbling sounds during broadcast. Found out that bit-rate was increased by Devin, but Tommy put it back to lower rate and rest of broadcast went great. Robert: Sounded like a bandwidth problem, dropping to a lower rate. Diablo: What if we can't access the electrical panel, do we have a backup? Tom: Yes, we have a UPS battery backup.

Critical Educators Collective Streaming Remote – February 11 panel discussion streaming remote has been proposed. Discussion entitled "Teaching in a Time of Trump" will be available as an audio link on the KBOO web site. Looking for a minimal crew of trainees for site survey and actual event. This event will not require a producer or announcers. Tom: It is not for broadcast, just streaming onto the website. Adrienne: What day is the 11th? Tom: A Saturday. It will start at 8:30am at Madison High School. If anyone wants to go for a site survey, I would want to go on Monday, Feb. 6. Arthur: If bandwidth is a concern, is it better to just record it then upload it to the website afterward? Diablo: I think Monica wants us to have more training opportunities for volunteers to learn. Tom: There was minimal notice about this event, that is why it is just a stream and training, not a remote broadcast.

Site survey crew (Monday, 2pm): Robert, Tom F., Sean. Streaming Crew: Diablo, Sean

Visual Impairment Software – Previously none of our workstations at the station have had special accommodations for visually impaired volunteers. We will be purchasing visual impairment software and installing in two locations. The Newsroom and Production 1 have been selected. We have also ordered two new 24" wide monitors to use in those locations. Tom: It may be difficult in the Newsroom to use a microphone, but we will test it out in both studios. Diablo: Could we use the old P1 monitor into Studio 2? Just a request. Tom: Possibly, I hadn't thought of it. There was no budget for this, so KBOO had to write a grant for funding. Tom F.: What does the software do exactly? I work

in the Newsroom so I was wondering how it works. Tom: I'm not sure, but we at KBOO want to start to be more ADA compliant.

Telos Phone Patch in P2 – Numerous complaints about sound quality for phone interviews. Possible adjustment of gate threshold? Seems to be funky despite prior adjustments. Tom: still hasn't been addressed. Need to test Telos in Studio 2 with patch in P2 to see if the Telos is actually the issue.

Telos ZipStream R1 audio streamer rollout – Thanks to Robert for helping install and configure the new Telos audio streamer in the server room. It is now ready to be properly routed to our web site. Preparations are being made for a fanfare rollout announcement for our membership. Tom: It is now on the IceCast server. Jenka will post a blurb about the new streamer onto the KBOO website. Robert: Since we have some remotes coming up, we should check and see what our capacity is, especially for events like the Blues Fest. Tom: I will get you in contact with Jenka to chat more about that, since she's looking at internet capabilities.

POS Repair – Thank you Devin for replacing caps on the old POS air room unit. It has been placed in the P1 rack for another 40 years of use. Tom: It was over 35 years old, and after Devin worked on it, it should be good for another 40 years.

Neilsen Encoder Monitor install – Thanks to Phil for installing the new Neilsen monitor into the Engineering rack. It now successfully monitors the two encoders. Note the monitor green light went red when we lost the Big Pipe, indicating that it is working properly. The monitor is currently green indicating it's good on our CDLink STL. Tom: Installation went well, very simple.

Archive Workstation Makeover – We have installed a new micro desk and shelves in the Archive area. The older PCI DAW was retrofitted with a Delta Labs Card Deluxe which has digital SPDIF breakout. Testing on older DAT and MiniDisc machines was successful for digital recording at all bit rates. DAT could use an internal head cleaning procedure. Tom: Focusrite interface installed so that can record from cassette decks.

Dead Storage Purge – Last week we pulled a bunch of older items and wires out of Dead Storage. Thanks to Mike for helping decide what to remove. Some wire will go up to the tower for Gray to pick through. The useless wire will go to Far West Recycle. Tom: Some stuff was just garbage.

Upcoming Engineering Events – Pre-recording for Monday Sampler: Saturday, Feb. 4 from 6-8pm. Must have knowledge of how to setup live music and record in Studio 2. Back to the Egg: Saturday, Feb. 4 from 11pm-2am. Live music in-studio. Must have taken Mixology or have some previous sound mixing experience. Youth Collective: Sunday, Feb. 5 from 6-9pm. Live music in-studio. Must have taken Mixology or have some previous sound mixing experience. Live Stream Event: Saturday, Feb. 11th. Crew needed for site survey beforehand and during the event. Talk with Tommy to get details. Jessy: If you would like to help out with the pre-recording, let me know. Otherwise, I think Ed will be ok recording on his own. As for the late night one, Devin may be available, but I haven't spoken to him recently. Tom: I spoke to him today, and he told me he's fixed the POS. So he's alive! Jessy: That's good to know!

Upcoming Engineering Trainings – Live Music Mixology: Tuesday, Feb. 21 from 7-10pm. If you are curious as to how we setup bands to play live in the KBOO studios, take this class! Must have already taken Intro to Audio Production, Listening Session, and Legal Training. **Engineering Open House:** Thursday, Feb. 23 from 7-9pm. Get introduced to the Engineering department, and take a tour of the station. There will be snacks! **Introduction to Engineering:** Wednesday, March 15 from 7-9pm. Learn basic signal flow, how radio is made. [Jessy: If anyone is interested in signing up for these, let me know.](#) [Diablo: The signup sheet for the Intro to Engineering training still says Feb. 16.](#) [Jessy: Thanks for letting me know, I will make the correction.](#)

Committee Meeting Time – How is everyone doing with the first Wednesday evening time? Should it switch back to first Thursday? Committee to take vote and send decision over to Monica and Erin. [All: Wednesdays are fine.](#) [Jessy: Ok, I will let Erin and Monica know so we can make the appropriate changes on the KBOO website and other postings.](#)

More Kudos –Mark for fixing the 2 CD players that weren't working properly in the Air Room. [Tom: Mark took the CD players to Inner Sound in Clackamas to get them repaired, and he enjoyed himself talking audio with the staff.](#) [Adrienne: CD 3 in the Air Room wasn't working recently.](#) [Diablo: Did you put it in the Engineering log sheet?](#) [Adrienne: No.](#) [Diablo: That's a common mistake, so I try to tell others to put it in the log so Tommy can see it.](#) [Tom: I will address the issue quickly if someone puts it in the log.](#)

Next Engineering Committee meeting date to be Wednesday March 1st Studio One 7PM

Thanks All of You Beautiful People!

[Diablo: Possible agenda item for next month: Maintenance and Calibration schedule, on a regular basis. Lots of new volunteers have been coming to meetings, so it would be good to get them involved. Also, I am a part of the Anti-Oppression workgroup. The next meeting will be this Saturday from Noon-2pm, as a part of the Beloved Community meetings. There is a Volunteer Facebook group with the information.](#)