

KBOO Monthly Engineering Committee Agenda

Wednesday April 5th 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 - Tom F.

Attendance - Tommy H., Robert J., Tom F., Jessy D., Mark W., Phil B., Jazz D., Diablo N., Godiva H., Arthur R., Natasha(new board liaison, new VP Chair of Board)

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 is getting to be the longest part of the agenda. Phil Bihall for constant Big Pipe hammering efforts and evaluation of options. Mark Weiner for awesome new shelving and IT organization in Engineering office. Mark also performed some miracle PC refurbishments on multiple desktop workstations. Thanks also to Robert Jacobs for creating a brand new audio streamer/automation prototype workstation to evaluate various automation options. The new streamer already has an Icecast mount point. Only awaits 24/7 Content and Web Link. Thanks to Pu for keeping a watchful eye on production studios during weekends. Total cool thanks to Robert, Abe, and Mike Johnson for super prompt help with P3 echo on everything...echo on everything...echo on everything...

- Phil: STL line.
- Mark: new shelving. PC
- Robert: new automation workstation. New streamer only needs content.
- Pu: for watching the studios over the weekend.
- Mark and -----For super-prompt help for echo on everything.

All for your amusement and discussion.

Big Pipe STL Status – Status and options. Phil - Big pipe STL status: maybe get something old from another station? No, we need to get something new. Phil can give us the options - RocketDish: has a dish and radio that connects to the dish via ethernet cable.

Studio Transmitter Link: send audio from studio up to tower... 950MhZ...We've been using the Big Pipe for the last 11 years, but something in it died. We could not diagnose the problem. BE said there's nothing wrong with it. Spent \$250 for no result.

Phil does not know what to do with this. But it's a mission-critical item.

Looking at an IP radio, dual ported. Sends data over a 5GHZ link. Turns out to be expensive. We would need their antenna: 41 inch circular dish. Cost for 2 antennae is \$630. Each radio is \$130. Gives you two channels, two paths. Concentrates radiation at a point. Distance is just 2.5 air miles. With bigger antenna, you get more signal sent/received. 5 GHZ is a congested band, but it's also unlicensed. Has a lot of interference. The narrower you can make the beam, the better the transmission. Requires a radome (cover). Could last for fifteen-twenty years.

Comcast Install at Tower – Have a quote. It is a priority. We await budget approval from management. Comcast Quote: for business service. More expensive. Quoting 5 static at \$134/month, Plus \$200 install. Can buy modem separately. Will have a technical meeting tomorrow. Need to get the info to Abe. We can try to get the price down a bit---reduce the data rate? Or get it as a donation? (Maybe 5 up and 10 down).

Telos Phone Patch in P2 – Derailed again. Horrid noise. Only in P2 Telos phone patch in p2 is derailed again. Devon tried to fix it, but had to leave. It's a new issues. Needs troubleshooting, step by step.

P1 Soundcraft Console – Fader 1 Intermittent – King Fader ???

Weekend Warriors – Damage control on Mondays – Evil Dooers seem to be in our studios over the weekends without any scheduled reservation log ins. P2 and P3 Discussion. – Pu? Description of P2 during her reserved time. Pix. Weekend studio users are not signing in...supposed to be on an access list. Tom is talking with Ani about tightening our access procedures. Problems were evident on Monday morning. Last weekend someone pulled the computer out of P2. There was a big gulp right next to the console. Keyboard left on chair. Laptop left behind. Focusrite USB audio interface missing. Food was ground into the carpeting. There were ants.

Echo on Everything – P3 – The Good The Bad and The Ugly – Abe installed Adobe Creative Cloud Suite on the P3 PC on Thursday March 30th. Holiday weekend users had difficulty with echo on all audio on the PC. Seems the Adobe install added additional channels on the Volume Mixer of the PC which were feeding back into an audio loop across all system audio. Really cool effect in the right application. The coolest was the response from Robert, Abe, and Mike during damage control Monday. The Bad... Resetting the config on the Wheatstone resulted in a "No Source" display on Mic 1. Easily fixed. The Very Good...Abe seems to have fixed the audio driver loss after reboot issue we have experienced since

install of the Wheatstone. Abe also fixed Adobe Audition permission pop ups which occurred after the Adobe install on Thursday. All this within an email sent a mere hour previous. Thank you all. P3 PC. This Monday P3 was upside down. Problems with echo. Abe fixed the audio driver loss after reboot issue. Since we have mic! On P#, everything is working in there.

Automation Evaluation Update – Robert Jacobs Automation Evaluation Update: Robert explains what he's found. Has a spreadsheet: about 25 requirements. Goal is to set up a second audio stream. We can support about 400 connections, but we are right at our limit. We pay Linode to host the server. There's an incremental cost for each additional listener.

We could set up a second stream. Robert is looking at software:

- Station Playlist: very good, kind of like the Windows style. Good price....Second part is the software that you use to create the the playlist and sends it to Linodes.
- Rivendell
- Radio DJ: no support for this
- IMedia Touch: the most expensive...don't seem responsive. Just to get started would be \$1600-1700. And they don't give test/evaluation copies.

Arthur: what will your support look like? There is a company called Parabel Systems that offers support.

Phil B: this is a stream, not the radio broadcast, so should not be terribly expensive...We are going to have some sort of a playlist. Maybe go automation at night, no operators. But that is the future.

Robert: get people used to a simple system, and see how it goes. Get started at low cost. Next step is a good dog and pony for Erin. Create a couple of mock shows and see how it goes.

Phil B: Need to consider processing...Stereo Tool is a good one...The main issue is, it is CPU-intensive. Level control and hard limiting are the processing requirements.

Tom: this is really cool because we are ahead, already have it built.

Next steps:

- Talk with Mike. He may have good ideas.
- Get something going. Right now. Get it to a programmer.
- Start advertising it. See how it goes.
- Do a little training for programmers.
- Keep a close eye on usage.
- Need to think about the royalty issues: generating reports? Sound Exchange. Erin can fill you in on this.

Tom: Jenka recently noted that we had more listeners at some point on line than on terrestrial.

Air Room Projects – Still Pending - Additional Aux In project. Needs fabrication and install. Logical fader location on air console has been identified. Air room: we have a location for the console. Mike will have to build it. We can have two patches for iPod, or whatever. Talent pod is a problem.

The talent pod for Mic 3 had died. No headphone output. Needs help. More Talent?

Remote Broadcast Training – Saturday April 8th 3PM Studio One – Dust off your remote broadcast tool

set AND our equipment for preparation of the April 22nd Inner City Blues remote. Please contact Ani if you wish to be on crew for this 6th Annual Inner City Blues Festival – Healing The Healthcare Blues. This is a fun remote. [Remote Broadcast Training: this Saturday. Here at KBOO.](#) For live session, the Annual Inner City Blues Festival, Tom will have a session with the equipment here. Tom will be using a parabolic mic at the Festival.

We have a busy summer schedule for remotes. KBOO wants Tom to back off. But our second stream will be a place where we can put remotes. If he can get people trained, he can send those folks out to do the events. We get a lot of response for certain events. Adrienne will make a list of all the live events, so we have time to plan for them. Tom has some crazy ideas for a contest. Is it radio-friendly?

Pizza and Beer Training – TBD – Looking for volunteers to help with research. Ideas for a good watering hole? [Pizza and Beer Training: looking for volunteers to help with research. Venues? Sparky's on Morrison. Sizzle Pie.](#) Tom is looking for a day when we can all get together. What are we going to do at this get-together?

Other Items? Tom: KBOO management has been going over a 6-month budget review, with Comcast install as high priority, as well as Big Pipe getting back online, so HD link repair is on the back burner. So I'll continue working with Phil on pricing and submit it to Gil (station co-manager).

Next Engineering Committee meeting date to be Wednesday May 3rd Studio One 7PM

Thanks All of You Beautiful People!