



Communication Center Updates

BARC Membership Meeting

September 15, 2022

John Westerkamp, W8LRJ



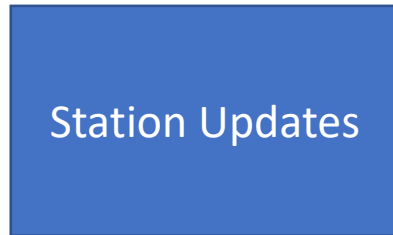
- Treasurer and Education Coordinator
- BARC Member since 2018
- Maintain the BARC, District 3, and GCARES repeaters
- Ph.D. in Electrical Engineering from Purdue University
- 17 years on Electrical Engineering Faculty at University of Dayton
- Lori, Rachel, Jacob (LRJ)

- Working for the past several months with Glen Rodgers (KE8LZD), Paul Sharp (KD8OPN), Paul Sushereba (WE8Y), Stu Holzer (K8ST), Ken Cornett (N8SPW), and others on station updates.

Communication Center Updates Plan

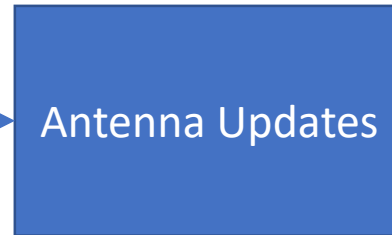


Summer 2022



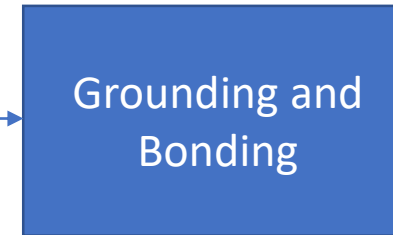
- Disconnect cables
- Remove equipment
- Remove dividers
- Move stations
- Replace equipment
- Reroute cables

Fall 2022



- Install R9 vertical
- Remove 80/40m dipole
- Repair/replace 2m vertical on Tower #1
- Add EFHW or Off-Center Fed multi-band wire antenna

Fall 2022 or Spring 2023



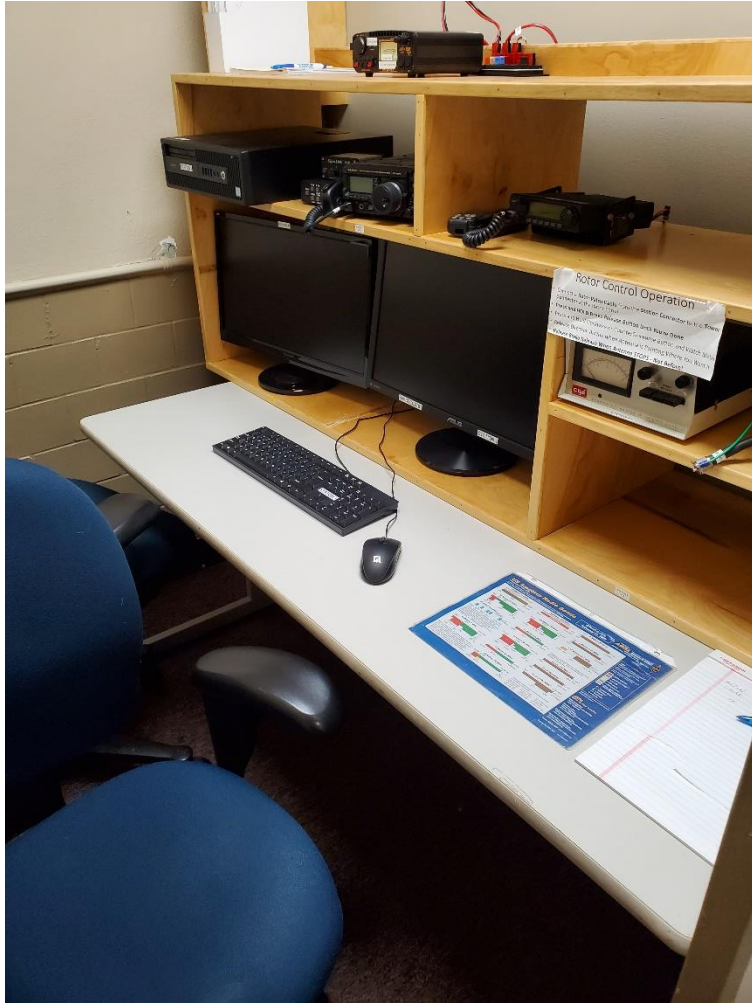
- Install outside grounding panel box
- Move/add polyphasers to panel
- Route all cables through panel
- Bond ground rod to electrical service ground

Original Layout



John Westerkamp, W8LRJ

Original Layout (con't)



John Westerkamp, W8LRJ

Goals and Solution



- Keep functionality including EmComm capabilities on Station #1.
- Improve spacing for operators.
- Increase room for observers during demonstrations.
- Make it easier to reach the back of the equipment for removing and replacing coax and wires.
- *Reduce number of stations in the back from 4 to 3, face the 3 stations toward the back wall, and move the 4th station to the front for demonstrations (but still usable as a regular station).*

Progress



John Westerkamp, W8LRJ

Progress (con't)



John Westerkamp, W8LRJ

Progress (con't)



Glenn Rodgers (KE8LZD) goes to town with the Sawzall!



John Westerkamp, W8LRJ

Progress (con't)



John Westerkamp, W8LRJ

Progress (con't)



John Westerkamp, W8LRJ

Station 1 (EmComm)



John Westerkamp, W8LRJ

Station 3



John Westerkamp, W8LRJ

Station Overview



John Westerkamp, W8LRJ

To Do This Winter

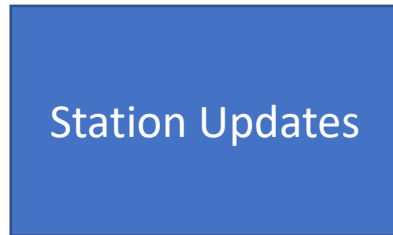


- Run 2nd coax feedline to Station 4 (simultaneous HF and VHF/UHF)
- Run ground wire to Station 4
- Run Ethernet cable to Station 4 (for mesh system)
- Paint back wall and add signs/posters (what should this look like?)

Communication Center Updates Plan

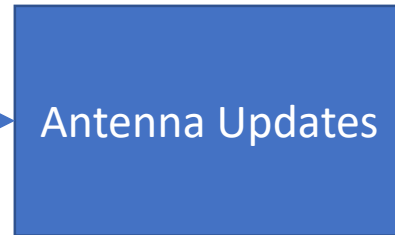


Summer 2022



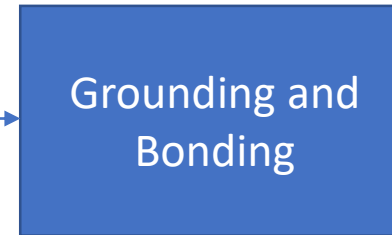
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Clubhouse Entry Procedures

- All members may use the clubhouse at any time 24/7/365.
- Use the code to remove the keys from the padlock on the door.
- Unlock the main building door, open it, and then lock the building door immediately while holding it open.
- Be sure to spin the numbers on the padlock dial before going into the building.
- Unlock the clubhouse door, return the keys to the padlock, and lock the padlock (be sure to spin the numbers on the dial).
- Instructions on using the stations are available at each station.
- Please clean up after and leave the stations as you found them.
- Be sure to remove the antenna patch panel cables.
- Be sure to lock the clubhouse doors when you leave.
- Be sure the building door is locked and the keys have been returned to the padlock.
- If you have issues, call John Westerkamp (W8LRJ) at 937-271-3119.