

Ken Frey, WB3HOI

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Subject: site visit

Ken,

As per your request I am submitting my recommendations for the Bald Eagle Repeater Association.

THE TOWER.

The tower is in good shape. I inspected the following: guys, anchors, turn buckles, antenna connections top and bottom, and hardline ties. The paint is holding up well, but a second coat would cover the areas worn off by recent climbing. The (2) six meter antennas need addressed. If they are going to stay on the tower they need lower ground kits. Also the mess of transmission line that is balled up inside the tower needs corrected. To follow Polyphaser standards we need to ground all antennas on this tower with ground kits tied to the tower ground, then enter the bulkhead and terminate into line protectors. The additional wind loading is not an issue. The UHF transmission line is correctly installed, but could be dressed up onto the messenger cable to keep it higher off the ground.

BUILDING INTERIOR:

I installed the #2 ground wire from the main fuse box to the bulk head, this gives us one common ground. This wire needs to be attached along the wall. I would also recommend that we install a new main fuse box to replace the three old boxes. Maybe if we look around we could find a small 4 or 6 circuit box. It may also be a good time to run a few new 12-2, 120 volt circuits inside the building. I would donate two new line arrestors to go on the fuse box.

The UHF repeater needs to be cleaned up a little. Both repeaters should have their transmission lines dressed up and separated from the AC and phone lines. I see that the UHF repeater is now sharing the phone line. This phone line should run from the small punch block in parallel, after the Polyphaser protector. The AC power should be from a separate outlet, not jumped from the VHF repeater. These changes will help minimize damage if we take a lightning hit.

If you have any questions, or if I can help please let me know.

73 Kurt