

06/28/2019

CRITERIA LIST FOR INSTALLING POLE TOP ANTENNA ON DOMINION ENERGY DISTRIBUTION POLES

Antennas are preferred to be mounted on clean wood distribution poles. Because of allowable space and safety, secondary poles are given preference. Replacement poles are typically 10 to 15 feet taller to allow room for RF signs, RF clearance, etc. The tallest electric distribution pole that Dominion Energy shall use is a 65 foot pole. All poles shall be class 1.

General Criteria List (not all inclusive):

- The attacher is responsible for obtaining local approval for antenna pole locations from the appropriate County, Municipal or State Authority. Dominion Energy shall require approval documents prior to designing a job to replace a pole.
- If the antenna pole is on private property, Dominion Energy shall require property research and proof of easement prior to starting a design to replace a pole.
- The attacher shall provide Dominion Energy with a 3rd party RF study (signed by a P.E.) prior to Dominion Energy starting a design to replace a pole.
- A (P.E. signed) Utility Worker Safety Letter is also required that clearly states the safe RF range, from the antenna, based on the 3rd party RF study.
- All supporting documents are required prior to design. Dominion Energy cannot reserve space for an attacher's future attachment.
- The Antenna installation must meet all NESC and Dominion Energy requirements.
- Antenna equipment is permissible on wood poles or (specifically manufactured) composite streetlight poles only.
- Secondary poles or guy stub poles are preferred for antenna attachments. Poles with Primary wire should only be considered when there is no other suitable pole in the area.
- Antennas are not to be installed above primary wire in areas which are considered "salt contaminated" areas. In these areas, Dominion Energy will allow installations only on secondary poles.
- Antennas are not permitted on poles that are frequently visited by Construction or Operations personnel. These include, but are not limited to, poles with reclosers, switches, capacitors, three phase terminals, three phase transformer banks, or step down transformers.

- Antennas are not permitted on poles where 4 quadrants of pole space (around the circumference of pole) are taken or would be taken to bring pole up to current DOM engineering standards. An example would include any poles that have a streetlight bracket of 14' or longer as these types of lighting facilities require an A-frame mount/bracket and guying.
- Poles with existing multiple cross arms shall be rejected.
- If there are more than one riser shield present on the pole, that pole shall be rejected.
- Antenna riser shields shall be a continuous straight line for the entire length of the pole. For this reason, guyed poles may be rejected.
- Only non metallic electric grade conduit or risers can be used for routing communication cables through the supply space and shall not obstruct working space on the pole.
- Antennas are not permitted on poles with other cabinets such as a cable TV power supply or an existing meter base. Only 1 box/meter base per pole is permitted. This may include splice boxes or other equipment.
- Dominion Energy will allow equipment cabinets up to and including 48" in height. Dominion Energy shall reserve the right to review all specifications prior to approving the cabinet, regardless of the height.
- All radio heads, diplexers, amplifiers, or any other equipment shall not be at the top of the pole. All equipment shall be in the equipment case at the bottom of the pole. As of **12/4/2017**, if the pole has been set and no antenna equipment has been installed, the equipment shall be at the bottom of the pole in the equipment case. Locating the electronic devices away from (and not above) the supply space provides safe access for technicians qualified to perform that work. All drawings from **12/4/2017** forward shall show all equipment in the equipment case at the bottom of the pole.
- When installing the antenna, Dominion Energy requires that personnel installing and working on the antenna be qualified to work above Dominion Energy conductors. Communications qualified workers are not qualified to work on or above Dominion Energy facilities.