



12KV Riser Pole Arrestor Replacement Chief Judge: Dustin Viator (Journeyman Event)

Mean Time: 8 Minutes

Drop Dead Time: 12 Minutes

Event Summary:

This event will be considered energized and consist of replacing an 12KV riser lightning arrestor. There will be a 25 KVA pad mount transformer 8 feet away from the pole radial fed from the riser. Competitors must open the cutout and bring door to the ground with an extendo stick. The cable feeding into the radial fed transformer must be properly tested and grounded to remove static charge. The competitors shall isolate the cutout and replace the lightning arrestor. Once competitors have replaced the arrestor, reconnected the top of cutout, and removed the ground, they may reenergize the cable and transformer. Check for proper secondary voltage shall be done. Time will stop when transformer lid is closed and secured by penta bolt.

Event Description:

1. The team will be allowed a 5-minute set up time. All tools must be laid on a competitor supplied tarp in the designated work area.
2. Time starts on the judge's signal with the fall arrest system detached from the pole.
3. Open cutout from ground with an extendo stick and bring the door to the ground.
4. A minimum of an 8' hot stick must be used.
5. No work shall be performed without 2 workers present at any energized location.
6. Both side of neutral and Clevis shall be covered.
7. M.A.D shall be maintained.
8. No energized equipment shall be left unsecured or unattended.
9. Test shall be made to ensure cable is de-energized prior to grounding cable by placing elbow on a feed thru bushing and then testing. This may be simulated.
10. Bushing caps must be installed on any open bushings after cable has been parked. The bleeder wires shall be tied and installed for easy removal.
11. Climber(s) go up and remove the high side of the cut out and then replace lightning arrestor.
12. Heat up the high side of the cut-out and then climb down.
13. Remove cable from the ground and plug it into transformer bushing.
14. Hang door back and energize riser with an extendo stick. The team must say "Coming Hot" before closing door.
15. Check for proper secondary voltage.
16. Time stops when all work is completed, and all equipment is closed and secured with penta bolt. One member may inform the judge to stop time.

Provided Materials:

- Lightning Arrestor

- Bushing cap
- Feed thru standoff