



# 2018 4kV 600 Amp Switch Replacement Judge: Trevor Roth (Journeyman Event)

**Mean Time:** 12 minutes

**Drop Dead Time:** 16 minutes

**Event Summary:** This is a 4kV event working with Class II or higher rubber gloves off of the pole. The event will be framed with two switches. The team only needs to replace one of the 600 amp under-slung switch on an 8' cross arm on a 40' pole. The team will be able to choose which switch is changed out. The load cannot be interrupted. The permanent jumpers will have a two bolt pad connector to the switch. There will only be bolts and nuts holding the two hole connector pad to the switch. There will be no washers associated with the bolts holding the two hole connector pad to the switch.

## Event Specifications:

1. See General Rules.
2. Team will be allowed a five minute set up time for questions and set up.
3. All permanent connections shall be wire brushed.
4. Electric continuity must be maintained at all times. Temporary mechanical jumpers must be utilized and must be rated for a minimum of 15kv. The mechanical jumper can be installed with hot sticks or rubber-gloves and control should be maintained at all times. No unprotected incidental contact will be allowed with unprotected mechanical jumpers. A section of rated line hose may be placed on the mechanical jumpers to prevent incidental contact with the crossarm or linemen.
5. Permanent jumpers and switch must be covered while installing temporary jumper, if installed by hand.
6. Bolts are 1/2" inch x 1 1/2" inch.
7. Both sides of neutral and clevis must be covered
8. Primary must be covered while replacing switch.
9. Permanent jumpers will be unbolted from the switch and folded back under cover.
10. Switch must be tested by operating it before temporary jumper comes off.
11. Switch must be mounted the same way it was before event.
12. Switch will have to come off handline and touch the ground before sending back up.
13. The use of connecting jell on the two-hole pad must be simulated. This has to be done verbally so that the judge can hear.