February code class

Feb 6, 2020

1. Can I connect a G.E.C. to the neutral bar of a c.t. cabinet?
2. For a residential solar system I came off the utility meter and installed a disconnect switch for the P.V. system. The main for the house is in the basement. The inspector said the mains must be grouped as required in article 230.72. Was he correct?
3. In a dwelling unit a 230 volt unit a resistive type heater was installed with a wall controller that opened 1 leg of the heater. Does this heater need a disconnect switch at the unit heater?
4. An air conditioner was installed 30” in front of the utility meter. The contractor said there was no violation because of art 90.2(b)5. Was he correct?
5. An a.c. disconnect was installed between the house and the condenser. The distance between the house and the condenser is 30” any violation?
6. In a commercial building a new circuit was installed for a fan. The new circuit was run to the main panel. That was not grounded. I wrote a violation for the panel not being grounded. The contractor said the panel was existing and he was not responsible. Was he right?
7. The above circuit was installed to the sub panel located in the bathroom. Any violation?
8. What if this was a dwelling?
9. What is the fire rating of steel conduit?
10. In an existing dwelling a 250 watt baseboard electric heater was installed and wired to an ungrounded 15 amp circuit. Any violation?
11. The furnace and laundry are on the same 20 amp circuit. Any violation?
12. The pump for a furnace was plugged into a wall outlet that wasn’t part of the furnace circuit. Any violation?
13. The outlet for the above pump was plugged into a duplex gfi outlet. The inspector said the gfi must be a single outlet. Was he right?
14. Who inspects the PVC from the dte pole to the meter?
15. I am inspecting a residential generator. What code book do I use to inspect this equipment?
16. The ground bar on a 200 amp service disconnect does not have enough lugs for one of the ground wires. Can I install that wire to the enclosure if I use a ground lug, nut and bolt and scrape the paint that is around the ground lug?
17. Can I put a disconnect before a meter?
18. Can I run service conductors through the “other building?
19. What if the above was a feeder?
20. Can the class 2 wiring that is used for the control of light fixtures be installed in a switch box that has no separation from the 120 volt wiring?
21. Must the fire alarm panel be on its own circuit?
22. Does fire alarm wiring require any separation from line voltage wiring?
23. Is the fire alarm cable in a building required to be the color red?
24. The above cable must be supported every 4’?
25. Review the number of service disconnects allowed.