Unit 5 Electrical Wiring Commercial

Emergency Standby Systems

1. Which section of the CEC deals with generator installation? Section 46
2. What is the most efficient and most common method of providing emergency power for lighting in critical areas of public buildings? Self-contained emergency lights (battery)
3. Is central battery emergency power typically used for large motors? No
4. What device is typically installed to protect smaller conductors when they are tapped into larger conductor mains? Current limiters
5. What is one main advantage of gas and diesel generators? (One for each) Gas-low installation cost. Diesel-less maintenance, longer life, more stable fuel
6. What type of cooling is typically used for small generator? Air
7. Why is it important to know what motors are connected to a generator system? High starting current
8. What is the kVA locked-rotor rating for a 3 HP motor with a “G” code letter? 6.29 kVA
9. What is a derangement signal? Audible and visual signal to indicate a problem with emergency power systems
10. Which component starts the process of switching over to emergency power when the main power fails? Voltage sensitive relay
11. What has to happen before a transfer switch connects the generator to the load? Disconnect load from the normal source
12. What are two situations (Check CEC rules mentioned in Fig. 5-10) where emergency supply conductors are permitted in the same enclosure as regular supply conductors? Transfer switch and emergency and exit lighting