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Continuing Education Course #475  
Electrical Emergency Power Systems: Part 1

1. Which of the following systems include transfer switches?
  - a. EPS
  - b. EPSS
  - c. None of the above
  - d. All of the above
  
2. What does the EPSS type define?
  - a. the amount of time that is allowed to occur between the loss of the normal power source and the availability of the alternate or standby source
  - b. the time the systems can run before the alternate or standby source needs to be refueled or recharged
  - c. the type of loads that will be served by the system relative to risk of the loss of human life
  
3. What does the EPSS class define?
  - a. the amount of time that is allowed to occur between the loss of the normal power source and the availability of the alternate or standby source
  - b. the time the systems can run before the alternate or standby source needs to be refueled or recharged
  - c. the type of loads that will be served by the system relative to risk of the loss of human life
  
4. What does an EPSS level define?
  - a. the amount of time that is allowed to occur between the loss of the normal power source and the availability of the alternate or standby source
  - b. the time the systems can run before the alternate or standby source needs to be refueled or recharged
  - c. the type of loads that will be served by the system relative to risk of the loss of human life
  
5. What system provides power to loads required for safe exit and panic control in buildings commonly occupied by large numbers of people when normal power is interrupted?
  - a. Emergency systems
  - b. Legally required standby systems
  - c. Optional standby systems
  - d. None of the above
  
6. Emergency systems are covered under which article in the National Electric Code?
  - a. Article 700
  - b. Article 701
  - c. Article 702
  - d. None of the above
  
7. Legally required standby systems are covered by which article in the National Electric Code?
  - a. Article 700
  - b. Article 701

- c. Article 702
  - d. None of the above
8. Optional standby systems are covered under which article in the National Electric Code?
- a. Article 700
  - b. Article 701
  - c. Article 702
  - d. None of the above
9. Which type of system can use a manual transfer switch to transfer loads from the normal power supply to the EPS?
- a. Emergency systems
  - b. Legally required standby systems
  - c. Optional standby systems
  - d. None of the above
10. Automatic transfer switches may sense which of the following parameters to determine if a power source is available?
- a. Voltage
  - b. Current
  - c. Power Factor
  - d. Both A and B
11. When multiple generators are used, what parameters must be matched within certain tolerances before they can be safely connected in parallel to a common generator switchgear?
- a. Voltage
  - b. Frequency
  - c. Phase angle
  - d. All of the above
12. What type of relay is used to prevent two generators from being connected in parallel when their outputs are not within acceptable tolerances?
- a. Overcurrent
  - b. Sync check
  - c. Ground Fault
  - d. None of the above
13. Is the following statement true or false? When using a circuit breaker to connect a standby generator to a switchboard, ground fault protection is required to automatically open the circuit breaker?
- a. True
  - b. False
14. Under most conditions for a small emergency power system (<1200 amps) with a generator circuit breaker and only emergency loads (NEC 700) can the emergency switchboard be built in one section?
- a. Yes
  - b. No
  - c. Only if an arc energy reduction method is implemented

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