

ELECTRICAL POWER SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

- c. At least once per 18 months by verifying that:
1. The cells, cell plates and battery racks show no visual indication of physical damage or abnormal deterioration,
  2. The cell-to-cell and terminal connections are clean, tight, free of corrosion and coated with anti-corrosion material,
  3. The resistance of each cell-to-cell and terminal connection of each 125-volt and 250-volt battery is less than or equal to  $150 \times 10^{-6}$  ohm, and
  4. The battery charger, for at least 4 hours, will supply at least:
    - a) For the + 24-volt batteries, 25 amperes at a minimum of 25.7 volts.
    - b) For the 125-volt batteries, 100 amperes at a minimum of 127.8 volts.
    - c) For the 250-volt batteries, 300 amperes at a minimum of 255.6 volts.
    - d) For the 125-volt diesel generator E batteries, 200 amperes at a minimum of 127.8 volts.
- d. At least once per 18 months by verifying that either:
1. The battery capacity is adequate to supply and maintain in OPERABLE status all of the actual emergency loads for the design duty cycle when the battery is subjected to a battery service test, or
  2. The battery capacity is adequate to supply a dummy load of the following profile, which is verified to be greater than the actual emergency loads, while maintaining the battery terminal voltage greater than or equal to  $\pm 21, 105$  or 210 volts, as applicable.
    - a) For + 24-volt battery banks 1D670, 1D670-1, 1D680 and 1D680-1, 9.37 amperes for the entire 4 hour test.
    - b) For 125-volt batteries:
      - 1) Channel A battery 1D612:  
343-325 amperes for 60 seconds  
114-107 amperes for the remainder of the 4 hour test
      - 2) Channel "B" battery 1D622:  
344-323 amperes for 60 seconds  
116-105 amperes for the remainder of the 4 hour test
      - 3) Channel "C" battery 1D632:  
318-340 amperes for 60 seconds  
100-121 amperes for the remainder of the 4 hour test
      - 4) Channel "D" battery 1D642:  
336-323 amperes for 60 seconds  
117-104 amperes for the remainder of the 4 hour test.

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SURVEILLANCE REQUIREMENTS (Continued)

- c. At least once per 18 months by verifying that:
1. The cells, cell plates, and battery racks show no visual indication of physical damage or abnormal deterioration,
  2. The cell-to-cell and terminal connections are clean, tight, free of corrosion, and coated with anticorrosion material,
  3. The resistance of each cell-to-cell and terminal connection of each 125-volt and 250-volt battery is less than or equal to  $150 \times 10^{-6}$  ohm, and
  4. The battery charger, for at least 4 hours, will supply at least:
    - a) For the + 24-volt batteries, 25 amperes at a minimum of 25.7 volts.
    - b) For the 125-volt batteries, 100 amperes at a minimum of 127.8 volts.
    - c) For the 250-volt batteries, 300 amperes at a minimum of 255.6 volts.
    - d) For the 125 volt generator E batteries, 200 amperes at a minimum of 127.8 volts
- d. At least once per 18 months by verifying that either:
1. The battery capacity is adequate to supply and maintain in OPERABLE status all of the actual emergency loads for the design duty cycle when the battery is subjected to a battery service test, or
  2. The battery capacity is adequate to supply a dummy load of the following profile, which is verified to be greater than the actual emergency loads, while maintaining the battery terminal voltage greater than or equal to  $\pm 21, 105$  or 210 volts, as applicable.
    - a) For + 24-volt battery banks 2D670, 2D670-1, 2D680, and 2D680-1, 9.37 amperes for the entire 4-hour test.
    - b) For 125-volt batteries:
      - 1) Channel "A" battery 1D612: <sup>343</sup>325 amperes for 60 seconds  
<sup>114 107</sup> amperes for the remainder of the 4 hour test
      - 2) Channel "B" battery 1D622: <sup>343</sup>323 amperes for 60 seconds  
<sup>116 105</sup> amperes for the remainder of the 4 hour test
      - 3) Channel "C" battery 1D632: <sup>340</sup>340 amperes for 60 seconds  
<sup>100 121</sup> amperes for the remainder of the 4 hour test
      - 4) Channel "D" battery 1D642: <sup>336</sup>323 amperes for 60 seconds  
<sup>117 104</sup> amperes for the remainder of the 4 hour test.
      - 5) Channel "A" battery 2D612: 328 amperes for 60 seconds  
112 amperes for the remainder of the 4 hour test
      - 6) Channel "B" battery 2D622: 326 amperes for 60 seconds  
110 amperes for the remainder of the 4 hour test

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