

ELECTRICAL POWER SYSTEMS
SURVEILLANCE REQUIREMENTS

4.8.2.1 Each of the above required batteries and chargers shall be demonstrated OPERABLE:

- a. At least once per 7 days by verifying that:
 - 1. The parameters in Table 4.8.2.1-1 meet the Category A limits, and
 - 2. Total battery terminal voltage for each 125-volt battery is greater than or equal to 129 volts on float charge and for each 250-volt battery the terminal voltage is greater than or equal to 258 volts on float charge.

- b. At least once per 92 days and within 7 days after a battery discharge with battery terminal voltage below 108 volts for a 125-volt battery or 210 volts for a 250-volt battery, or battery overcharge with battery terminal voltage above 140 volts for a 125-volt battery or 280 volts for a 250-volt battery, by verifying that:
 - 1. The parameters in Table 4.8.2.1-1 meet the Category B limits,
 - 2. There is no visible corrosion at either terminals or connectors, or the connection resistance of these items is less than 150×10^{-6} ohms, excluding cable intercell connections, and
 - 3. The average electrolyte temperature of each sixth cell of connected cells is above ~~60°F.~~ ^{72°F.}

- 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 is less than or equal to 150×10^{-6} ohms, excluding cable intercell connections, and
 - 4. The battery charger will supply the current listed below at the voltage listed below for at least 8 hours.

<u>CHARGER</u>	<u>Minimum Voltage</u>	<u>CURRENT (AMPERES)</u>
1AD413, 1AD414	129	200
1BD413, 1BD414		
1CD413, 1CD414		
1CD444, 1DD414		
1DD444, 1DD413		
10D423, 10D433	258	50