

CONTROLLED COPY

ELECTRICAL POWER SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

- d. At least once per 18 months, during shutdown, by verifying that either:
1. The battery capacity is adequate to supply and maintain in OPERABLE status all of the actual emergency loads for 2 hours for Divisions 1, 2 and 3 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 (Minimum amperage) while maintaining the battery terminal voltage greater than or equal to 21 volts for the ± 24 -volt battery, 105 volts for the 125-volt battery, and 210 volts for the 250-volt battery, and 105 volts for the 125-volt Div. 3 battery.

BATTERY (VOLTS/DIV)	SECONDS 0-6	SECONDS 6-15	SECONDS .15-60	MINUTES 1-2	MINUTES 2-60	MINUTES 60-119	MINUTES 119-120
80-1A/-13 (± 24 V/Div 1)	17.0 24	17.0 24	17.0 24	17.0 24	17.0 24	17.0 24	17.0 24
80-2A/-23 (± 24 V/Div 2)	17.0 24	17.0 24	17.0 24	17.0 24	17.0 24	17.0 24	17.0 24
81-1 (125V/DIV 1)	436 570	232 260	232 260	143 180	143 180	143 180	276
81-2 (125V/DIV 2)	288 400	221 230	221 230	156 185	156 185	156 185	225 241
82-1 (250V/DIV 1)	1307 1320	1307 1320	526 520	503 505	431 480	445 444	623 574
HPCS DUTY CYCLE	SECONDS 0-13	SECONDS 13-20	SECONDS 20-60				
81-HPCS (125V/DIV 3)	55.1	75.6	15.6	15.6	15.6	15.0	15.0

- e. At least once per 60 months during shutdown by verifying that the battery capacity is at least 80% (83.4% for the 250 Volt battery) of the manufacturer's rating when subjected to a performance discharge test. At this once per 60-month interval, this performance discharge test may be performed in lieu of the battery service test.
- f. At least once per 18 months during shutdown performance discharge tests of battery capacity shall be given to any battery that shows signs of degradation or has reached 85% of the service life expected for the application. Degradation is indicated when the battery capacity drops more than 10% of rated capacity from its average on previous performance tests, or is below 90% (93.4% for the 250 Volt battery) of the manufacturer's rating.