Battery Preventive Maintenance for Industrial Applications

Preventive Maintenance for Industrial

Benefits

Greater emergency power system availability and reliability results from ongoing battery service

Less unplanned downtime is achieved through regular oversight that resolves potential issues before a failure

Longer battery service life happens as problems that cause premature aging are avoided or corrected

Improved battery performance is possible when power systems are optimized through maintenance activities

Lower total cost of service occurs as maintenance prevents battery performance issues from becoming problems that lead to costly downtime

Features

- Periodic inspections designed to assess battery cell and string state of health are offered monthly, quarterly or annual for all battery types including VRLA, VLA and NiCad
- Battery capacity testing, performed per IEEE standards and manufacturer specifications determines a battery's ability to provide a reliable power source and support the required load
- Battery charger maintenance includes regular inspections of racks, interconnection cables, cell connectors, and other conductors to ensure your batteries are fully charged and working as intended

Batteries are considered the most critical, yet vulnerable component of the emergency power system. In fact, battery failures are one of the leading root causes of load loss. A comprehensive preventive maintenance program for your emergency power system's batteries is one of the most cost-effective measures you can take to ensure system reliability and prevent costly downtime.

NERC PRC-005-2 Protection System Maintenance

DC SUPPLY	MAX	MAINTENANCE ACTIVITIES
VLA batteries	4 months	**Verify** supply voltage **Inspect** electrolyte level and grounds
	18 months	**Verify** charger float voltage, continuity, terminal connection resistance, intercell connection resistance **Inspect** battery rack and condition of all visible cell conditions (measuring internal ohmic values for cells not visible)
	18 months Or 6 years	**Verify** battery can perform as manufactured with cell/unit measurements OR **Verify** battery can perform as manufactured with capacity test of entire bank
VRLA batteries	4 months	**Verify** supply voltage **Inspect** for unintentional grounds
	6 months	**Inspect** condition of all units by measuring internal ohmic values
	18 months	**Verify** charger float voltage, continuity, terminal connection resistance, intercell connection resistance **Inspect** physical condition of battery rack
	6 months Or 3 years	**Verify** battery can perform as manufactured by evaluating cell/unit measurements against baseline OR **Verify** battery can perform as manufactured with capacity test of entire bank
NiCad batteries	4 months	**Verify** supply voltage **Inspect** electrolyte level and unintentional grounds
	18 months	**Verify** charger float voltage, continuity, terminal connection resistance, intercell connection resistance **Inspect** condition of all cells and physical condition of battery rack
	6 years	**Verify** battery can perform as manufactured with capacity test of entire bank

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