



FLOODED LEAD ACID BATTERY MAINTENANCE

Preventive Maintenance Programs for STATIONARY FLOODED BATTERY SYSTEMS

- Annual -
Monthly Quarterly (or initial visit)

	Monthly	Quarterly	(or initial visit)
Record charging sys mfg./model, serial no., output rating, and current & voltage reading as displayed on charger	✓	✓	✓
Measure and record battery string current and voltage (metered reading for each battery string)	✓	✓	✓
Measure and record voltage from most positive to ground and from most negative to ground	✓	✓	✓
Measure and record AC ripple current going into battery	✓	✓	✓
Measure and record ambient temperature	✓	✓	✓
Inspect electrolyte levels and add to levels when required	✓	✓	✓
Measure and record pilot cell float voltage, specific gravity and electrolyte temperature	✓	✓	✓
Inspect battery, rack, floor, and battery area and clean as necessary (battery jar surface cleaned every other quarter unless needed quarterly)	✓	✓	✓
Inspect for cracks in cells, leakage, and terminal or rack corrosion	✓	✓	✓
Measure and record the specific gravity of each cell/unit corrected to 77 degrees Fahrenheit		✓	✓
Measure and record the voltage of each cell/unit		✓	✓
Measure and record the total voltage of the system		✓	✓
Measure and record the electrolyte temperature of each cell/unit		✓	✓
Visually inspect each cell/unit in detail (plates, posts, internal straps, sediment, dust covers, jars, spark arrestors, vent caps, felt pads, gravity tubes)			✓
Visually inspect each connection			✓
Measure and record battery and connection resistances of all cells and electrical connections			✓
Measure and record torque values of each electrical connection and correct per manufacturers specifications when necessary			✓
Inspect the integrity of the battery rack (spot-check torque on battery rack frames, brace and tie rods, etc.)			✓
Confirm and record the presence of safety equipment, product labels as supplied by the mfg., operating manuals, etc.	✓	✓	✓
Review records maintained by customer for periodic log entries	✓	✓	✓
Record date of cleaning and inspection	✓	✓	✓
Provide completed inspection report	✓	✓	✓

* Above items are based on IEEE standard 450 for maintaining battery systems

** All items above focus on verification of Battery System Uniformity. These tests are not executed to determine battery capacity however, can be used as a health measure to determine confidence levels that the battery will perform per manufacturers current discharge ratings.

*** Capacity testing should not be run unless the batteries' operation is questionable. Batteries should not be discharged beyond the specified final voltage. Load testing or capacity tests are considered a cycle on the battery. Cycling of a battery will shorten the life of the battery.

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