

Flooded Battery Maintenance



Powerful backup for powerful backup batteries

When emergencies strike, flooded batteries in telecom, UPS, utilities and switchgear applications simply must perform. But without proper maintenance, it's much more likely that they won't. To help ensure that your system will deliver maximum power when you need it most, EnerSys® developed SystemSafeSM Flooded Battery Maintenance services.

Planned maintenance programs that work for you

Designed to meet a range of telecommunications, UPS, utilities and switchgear applications, our SystemSafe Battery Maintenance services can be tailored to meet individual site or customer requirements.

With over 15 vitally important measurements and inspections, SystemSafe Battery Maintenance services feature all maintenance procedures recommended per IEEE Standard 450. These include all voltage, resistance, specific gravity, current and temperature measurements, a complete visual inspection and a professional report summarizing the results.

EnerSys will also work with you on any recommended course of action that may be necessary to ensure proper operation of your investment.

SystemSafeSM Battery Maintenance

EnerSys offers two basic levels of planned maintenance services, both of which can be customized to meet your specific needs:

- **Basic Care**

EnerSys performs all quarterly and annual maintenance as required by IEEE Standard 450. All monthly measurements and inspections are the customer's responsibility.

- **Maximum Care**

EnerSys handles the total maintenance package, performing all monthly, quarterly and annual maintenance procedures following IEEE Standard 450.

The EnerSys® Difference

In addition to a complete flooded maintenance program per IEEE standards, EnerSys® SystemSafeSM Flooded Battery Maintenance services also feature:

- 90-day warranty on all parts and labor
- 7-day, 24-hour response coverage
- Toll-free 800 number for emergency service response

Contact your local EnerSys® Service Center for more information on SystemSafeSM Flooded Battery Maintenance.



At EnerSys, we've developed the industry's most comprehensive lead-acid battery recycling program.

Federal and state regulations require that lead-acid batteries be recycled. Our battery recycling program ensures that you are in full compliance with all EPA, DOT, and/or federal and state regulations. Our program is flexible enough to meet all of your logistical needs. For instance, we can pick up your spent lead-acid batteries, or you can deliver them to the nearest service center yourself. It's your choice. The EnerSys nationwide service organization can arrange pickup, transportation to, and recycling at any one of our company affiliated smelters. Call 1-800-972-7372 for more information.

**24 Hour Service or Repair, call:
1-800-423-9602 (U.S.)**

SystemSafeSM Battery Maintenance Program

Program Features	Monthly	Quarterly	Annual
Measure and record overall float voltage measured at the battery terminals	✓	✓	✓
Measure and record charge output current and voltage	✓	✓	✓
Check electrolyte levels	✓	✓	✓
Measure and record ambient temperature of battery room and ventilation	✓	✓	✓
Pilot-cells, if used, measure and record voltage and electrolyte temperature	✓	✓	✓
Visual inspection of cell/unit integrity for evidence of corrosion at terminals, connections, racks, or cabinets and area around battery for accessibility	✓	✓	✓
Check cells for cracks and evidence of electrolyte leakage	✓	✓	✓
Measure and record either battery float charge or pilot cell specific gravity	✓	✓	✓
Check for unintentional battery grounds	✓	✓	✓
If installed, check battery monitoring system for proper operation	✓	✓	✓
Measure and record voltage of each cell		✓	✓
If battery float charging current is not used to monitor state of charge, measure and record specific gravity of 10% of the cells		✓	✓
Measure and record electrolyte temperature of 10% of the battery cells		✓	✓
Measure and record specific gravity and temperature of each cell			✓
Perform visual inspection in accordance with IEEE-Std 450-2002, Annex E			✓
Measure and record cell to cell terminal connection resistance			✓
Check structural integrity of the battery rack and/or cabinet			✓

Special Inspect same as yearly

If battery has experienced an abnormal condition such as a severe discharge or overcharge an inspection should be made to ensure that the battery has not been damaged.



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