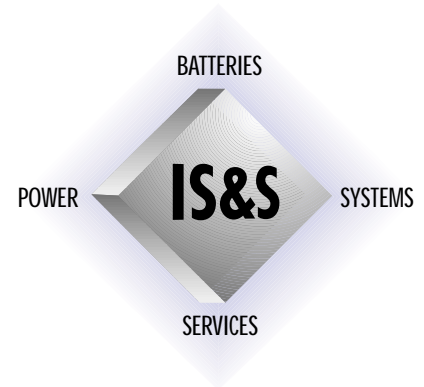


Solving the Power Systems Puzzle.



Stationary Battery Maintenance

At one time or another, we've all experienced the need for battery backup. Remember the last time a storm knocked out the power in your home and you reached for a flashlight, only to find the batteries dead? Stationary batteries need maintenance to perform in times of emergency, too. That's why Yuasa has developed the most comprehensive Stationary Battery Maintenance Program in the industry today.



Powerful Batteries Need Powerful Backup

Yuasa's Battery Assurance Program can be designed to fit any application-Telecommunications, UPS, Utilities and Switchgear. And our exclusive Planned Maintenance Inspections assure that your system delivers maximum power when you need it.

Planned Maintenance Agreements to Suit Your Needs

Each of our maintenance programs offer over 15 vitally important measurements and inspections which can be tailored to meet individual site or customer requirements. Yuasa performs all maintenance procedures recommended per IEEE standard 450. This includes all voltage, resistance, specific gravity, current and temperature measurements, a complete visual inspection, and a professional report summarizing the results. Yuasa will also work with you on any recommended course of action that may be necessary to insure proper operation of your investment.



Yuasa's Planned Maintenance Program

Yuasa can perform a complete Planned Maintenance Program that follows IEEE standard 450 recommendations, or customize the program to meet your needs. Yuasa offers two levels of Planned Maintenance:

- **Basic Care:** Yuasa will perform all quarterly and annual maintenance as required by IEEE standard 450. All monthly measurements and inspections are the customer's responsibility.
- **Maximum Care:** Yuasa will handle the total maintenance package, performing all monthly, quarterly, and annual maintenance procedures following IEEE standard 450.



Yuasa's Stationary Battery Maximum Care Maintenance Program

Program Features	Monthly	Quarterly	Annual
Measure and record battery voltage	✓	✓	✓
Measure and record charger output current and voltage	✓	✓	✓
Measure and record ambient temperature	✓	✓	✓
Inspect electrolyte levels and add water as required	✓	✓	✓
Measure and record pilot cell float voltage, specific gravity and electrolyte temperature	✓	✓	✓
Inspect battery, rack, and battery area and clean as necessary	✓	✓	✓
Inspect for cracks in cells, leakage, and terminal or rack corrosion	✓	✓	✓
Measure and record the specific gravity of each cell		✓	✓
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 every sixth cell/unit		✓	✓
Visually inspect each cell/unit in detail			✓
Visually inspect each connection			✓
Measure and record 100% of connection resistances			✓
Measure and record torque values of each connection			✓
Inspect the integrity of the battery rack			✓
Record date of cleaning and inspection	✓	✓	✓
Provide inspection report	✓	✓	✓

The Yuasa Difference

The Yuasa Integrated Systems & Services Group goes beyond offering a complete Stationary Maintenance program as recommended per IEEE standards. Yuasa also offers the following services as part of our every day customer support:

- **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 Yuasa Service Center for detailed information on our complete Turnkey DC Power Installation and Battery Assurance Programs



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