



REDHAWK
SERVICES

Battery Capacity Testing

Determine the True Health of Your Batteries



RedHawk Services, LLC

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Pataskala, OH 43062

Battery Capacity Testing

Ph: 740-964-4050

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RedHawk Services, LLC



Battery Capacity Testing Avoid Costly Downtime

“The single most frequent reason for generator failure to start is its battery system.” Healthcare Facilities and Power Outages, Guidance for State, Local, Tribal, Territorial, and Private Sector Partners, August 2019

For a variety of reasons all batteries lose capacity over time. Determining true capacity cannot be accomplished by simply measuring the voltage of the battery or its cells, even under load conditions. The only reliable method of determining battery health is to perform battery capacity testing. Battery capacity testing measures the time the battery takes to discharge into a known load.

Truths

- Capacity testing reveals the batteries’ ability to perform under a dynamic load (emulating true system load) in order to calculate capacity compared to the manufacturer ratings.
- Routine maintenance such as cell voltage, specific gravity, connection resistance, internal ohmic tests, etc., are state of health indicators **only**. These measurements do not indicate capacity and cannot be mathematically converted to percent-capacity.

Myths

- Capacity testing hurts my battery.
- Stationary batteries are rarely used over their service life.
- Testing in accordance with IEEE recommended practices will damage a battery or cause shortened life.

Battery Capacity Testing

Types of Capacity Testing:



Acceptance Testing

A constant current power capacity test performed on a new battery to determine that it meets specifications or manufacturers ratings.



Performance Testing

A constant current or constant power capacity test performed on an “in-service” battery to detect any change in the capacity.

Recommended Intervals: **Lead-Acid:** After 2 Years, Annually if degradation is detected
 Nickel Cadmium: After 2 Years, Every 5 Years until degradation

Battery Capacity Testing Service

Take the guesswork out of battery health with our comprehensive Battery Capacity Testing Services. Our Battery Capacity Testing is performed according to applicable IEEE, NERC and manufacturer standards.

Service Includes:

Setup Standby Battery (if required)

Setup Load Bank and Instrumentation

Record Individual Cell Voltages

Disconnect Charger, Start Test

Monitor Battery Discharge

*During Test - Record of Individual Cell Voltages, Discharge Current,
Terminal Voltage*

Observe Battery for Anomalities & Heating

Full Documentation of Test Results

Contact Us Today to Schedule!

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