



PowerSure[™]
The Complete Power System
Management Database

USER'S GUIDE

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INTRODUCTION

Overview

PowerSure™ is a relational database application that allows you to easily keep track of the state of your entire power system by organizing and managing your test results.

By compiling multiple battery test readings, **PowerSure** gives you a clear picture of how continual jar and strap test results relate to strings, and how multiple strings relate to your system and sites.

What Can PowerSure™ Do?

As a fully functional desktop database application, **PowerSure** can be adapted and customized for client-server environments, or even the Internet. The “Power” comes from the **PowerSure** relational database design, offering a full, user-friendly tool to manage and enhance maintenance procedures while reducing costs.

PowerSure provides all the tools you need to organize your or your clients’ power system maintenance data—from tables of site, system, string, battery and technician information, to running a variety of standard and exception-based professional quality graphical reports.

What is a Relational Database?

Data, or floating bits of random information, mean little by themselves. For example, “John, Atlanta, ABC Batteries, XYZ Batteries, Mary, Des Moines” don’t tell us much. However, if you have:

<u>Company</u>	<u>Location</u>	<u>Contact</u>
XYZ Batt	Des Moines	John
ABC Batt	Atlanta	Mary

...you can now form a perspective of what the data means, and how it fits together. By manipulating data, we can obtain even more information. This could be considered a “flat-file” database.

A relational database, however, can go beyond this. For example, if XYZ Batteries has locations in several states and are bought by ABC Batteries, you would typically have to change the name in every single record. A relational database allows you to change the name once, and it will reflect in every record that contains “XYZ Batteries.”

By further relating data to create graphs and reports, **PowerSure** can help you see the big picture of your power system as a whole, so you can spot patterns and trends to quickly find areas that need attention.

How to Build Your Database

The hierarchy of information goes as follows:

Company/Region → **Site** → **System** → **String**
(Strings are named in the tester)

Thus, you build a foundation for your database by entering Company/Region information first, then add information about Sites at the company, Systems within the sites, and Strings within the systems.

Features:

- Installs quickly and easily, even without PC expertise
- *New User Wizard* gives beginning users access to major system functions without prior training
- Can download and capture test data as well as select site, system, and string identifiers from Midtronics Stationary Battery testers via memory cards or Midtronics infrared receiver
- Relational database offers a simple way to view, compare and trend historical data on batteries, strings, and sites
- Keeps key network data records centralized, including site installation/commissioning, last maintenance visit and more
- Customizes reports with corporate logo or service provider branding
- Manages technician system assignments and documents test history
- Fully edits and updates all data with audit recording to validate data integrity
- Tracks and manages service history for all test equipment and analyzers, improving overall asset management
- Easily produces a variety of professional quality graphical reports, including exception reports for warning level or failed sites, systems or batteries

- Permits quick file exchange via e-mail or disk
- Compatible with previous Midtronics software file formats (inFORM® files)

System Requirements

The minimum system requirements for the **PowerSure** database are:

- **CPU:** P2 350MHz or better
- **RAM:** 512 MB or better
- **Video:** Card/monitor support for 1024x768 resolution or better
- **OS:** Windows™ 98, 2000, XP, or better
- **Disk:** At least 25 MB free hard drive space (15 MB program; 10 MB data); CD-ROM drive, if installing from CD

Installation Procedure

Use the following instructions to install new software or to upgrade from a previous version (proof of ownership may be required for upgrades). If you purchased **PowerSure** as a download, Midtronics recommends that you backup your download package, preferably to a CD.

To install PowerSure in Windows®:

- 1 — Restart Windows and turn off any antivirus software.
- 2 — Do one of the following:
 - If you purchased **PowerSure** on a CD, insert the CD into your CD drive
 - If your PC is setup for Autoplay, follow the on-screen instructions. **If Your PC does not support Autoplay**, click the Start Menu, choose *Run* from the pop-up menu, choose *Browse* in the dialog box, click the “*Look in*” drop-down menu and select your POWERSURE CD. Double-click to open, then double-click the “*Setup*” icon.
 - If you purchased **PowerSure** as a download, double-click the setup.exe file.
- 3 — In the **PowerSure** dialog box, click *Next*. Follow the on-screen instructions to read the introduction, and accept the license agreement.
- 4 — Enter your name, your organization (optional), and the serial number for your copy of the program (located on the CD case, or on the receipt page for web purchases).

To uninstall PowerSure: From the Start menu, choose Settings > Control Panel > Add/Remove Programs (Windows 2000) or Add Or Remove Programs (Windows XP). Select **PowerSure** and then click Change/Remove.

GETTING STARTED IN POWERSURE

Starting PowerSure

To run **PowerSure**, you must first install the files from the CD onto your local hard drive. Click the *Start Menu*, choose *Programs > PowerSure*. You can also double-click the **PowerSure** icon on your desktop. Follow the on screen instructions.

The Log-In Screen

To log into **PowerSure**, type the word “user” for both the User ID and password.

To change your password, see *Manage Your User Profile* on page 21.



Figure 1a. The Log-In screen

New User Wizard

When starting **PowerSure** for the first time, the *New User Wizard* screen will appear:

This screen guides you to four basic functions of the database.

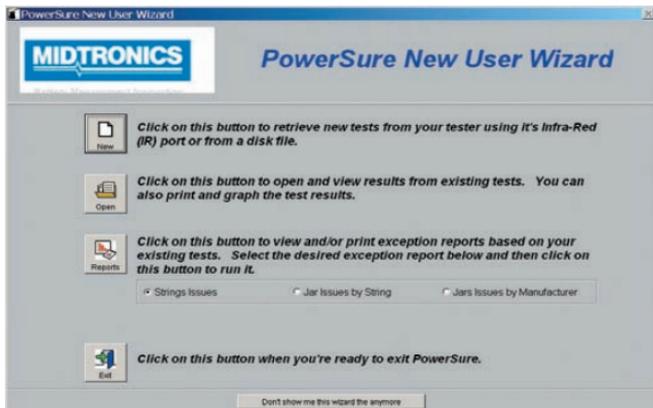


Figure 1b. The New User Wizard screen



New

Click **NEW** to retrieve new tests from your tester.



Open

Click **OPEN** to view, print, or create a graph from existing test results.



Reports

Click **REPORTS** to view and/or print exception reports from existing test results. You can choose to run exception reports for string issues, jar issues by string, or jar issues by manufacturer.



Exit

Click **EXIT** when you're finished and ready to leave **PowerSure**.

The Opening Screen

Exiting the *New User Wizard* takes you to the opening screen. Move the cursor over each button for a description of that button's function.

Figure 2a. The opening screen with button legends

File **Reports** **Utilities** **Help**

Load new battery tests.

Open/manage battery tests.

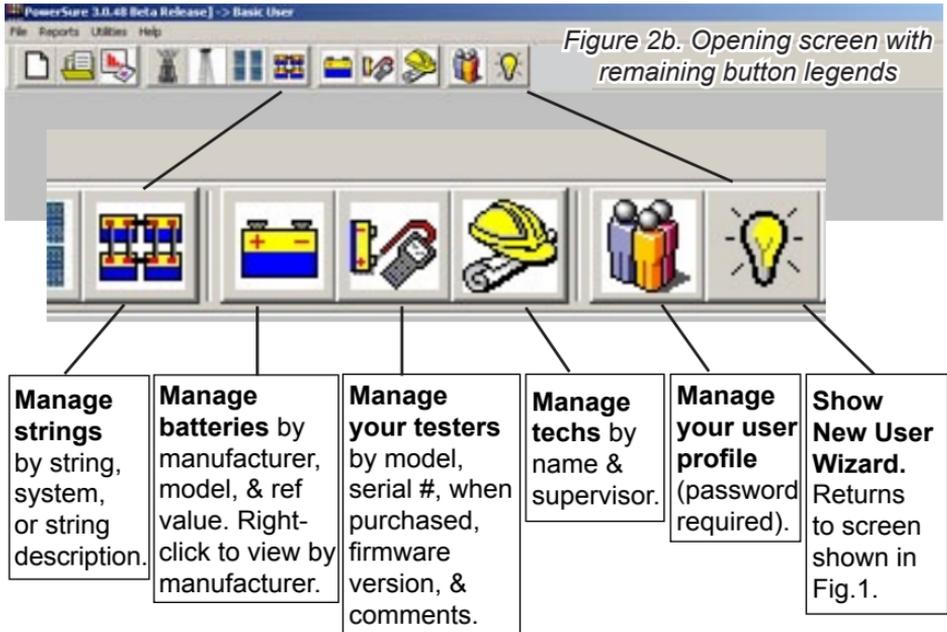
Run reports and graphs. Submenu gives option of standard reports (exception, status, or detail).*

Manage companies /regions by name, address, & contact. You can also add a logo here.

Manage sites by company/region. Right-click to specify site type & system description.

Manage systems. Right-click to specify system types.

* For customized reports, call Midtronics customer service.



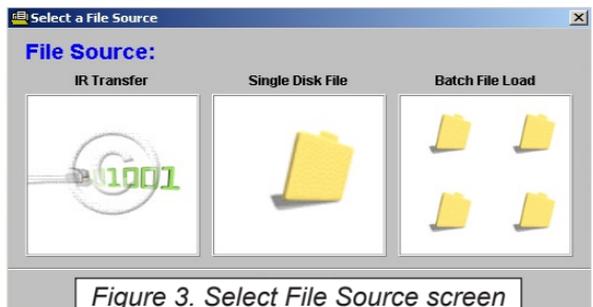
INDIVIDUAL BUTTON FUNCTIONS

Load New Battery Tests



The **Load New Battery Tests** button takes you to the Select File Source screen. Here you have the option to load new test data from your analyzer into your PC. You can transfer a single disk file, or load ALL test files from your tester by either beaming to Midtronics infrared receiver, or loading file batches from the SD memory card. Remove it from your tester, insert into the SD card reader attached to your PC, and click *Batch File Load*. Locate the card reader drive and click OK. Records will transfer directly into your **PowerSure** database, and any unspecified data can then be filled in.

If errors occur, the log file found in your **PowerSure** Directory folder will show if any records contained invalid data.





Open/Manage Battery Tests

The **Open/Manage Battery Tests** button gives a full record of battery tests that have already been loaded, such as the one below. This data can be viewed, edited, or printed.

Test Information

Test Configuration Information

Setup (Click any field to edit)

Company/Region: Batteries-R-Us
 Site: Data Center
 Site Type: UPS
 System: system #11
 System Type: UPS
 String: string E
 Battery Type: GNB M12V 90P
 Battery Mfg Date: Unknown
 Device: Caltron Ultra
 Performed: 5/17/2004 11:20:00 AM
 Technician: Unknown
 Temperature: 17°C (62°F)
 Volts per Jar: 12 Posts per Jar: 7

Miscellaneous Test Information

System Thresholds

Reference Values
 Reference: 2200 T-Comp: 2003

Voltage Warnings
 DC Low: 0.00 AC High: 0.00

Jars % of Reference (see readings)
 Warning: 70% Failure: 60%

String Information
 Average Reading: 1950 Status:
 % of Reference: 93%
 Warning % Level: 70%
 Failure % Level: 60%

Readings Modification History

Comments
 Test was loaded via IR transfer

Test Summary
 UNMODIFIED TEST
 Test entered on July 21, 2005.
 4 readings were taken.
 High Jar is 002 (2040); Low Jar is 004 (1854).
 No issues were detected with this string or

Readings for This Test (In Jar Order)

Jar	DC Volts	Mhos	% of Ref.	Spec. Grav.	Comments
001	13.490	1980	95	0.000	
002	13.500	2040	97	0.000	
003	13.590	1956	93	0.000	
004	14.210	1854	89	0.000	

Record 1 of 11

Figure 4. Sample of a battery test data record

A NOTE ABOUT HELP

Click the yellow for **Help** with loading tests, or whenever you see it for contextual help with whatever screen you happen to be in.

TIP: For instant access to this manual while in **PowerSure**, copy the **PowerSure.pdf** on your CD-ROM into your **PowerSure** Directory folder. Then just hit the **F1** key at any time to view the manual.

The buttons circled along the edge of the screen are described below:

Previous test



Load a test



Next test



Delete this test



Find a test



Print test



Filter tests



Graph this test



Remove filter



Help





Run Reports and Graphs

The **Run Reports and Graphs** button lets you create a visual of the state of your power system, allowing you to instantly spot the strongest and weakest jars, as illustrated in the graph below:

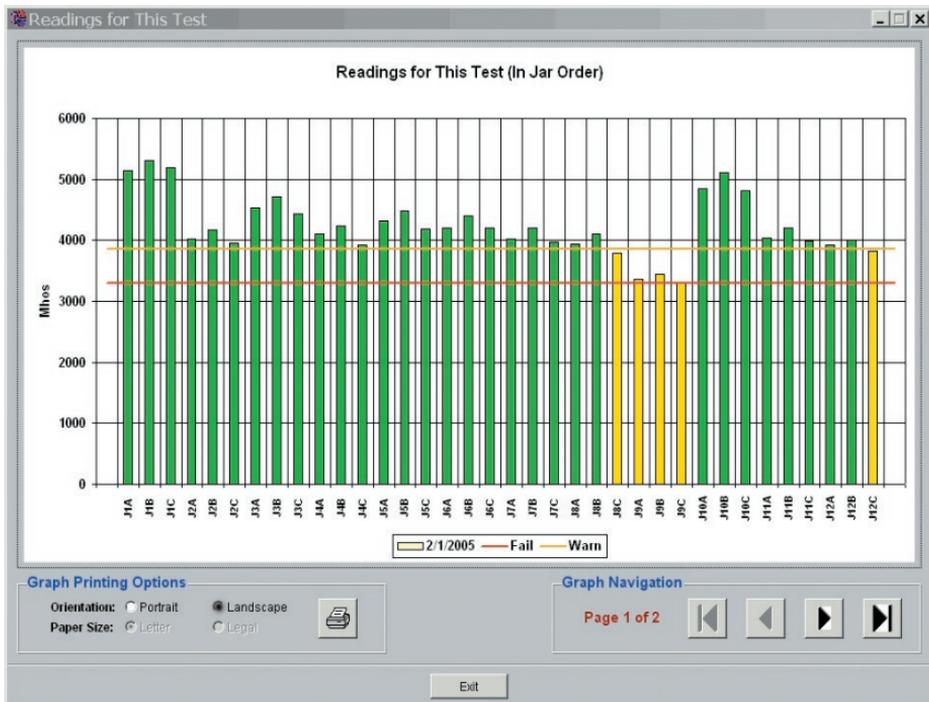
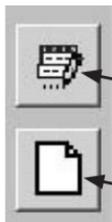


Figure 5. Sample of a graph

For information on generating reports, see **Running a Report in PowerSure** on page 23.



Click here to edit info.

Click here to add new info.

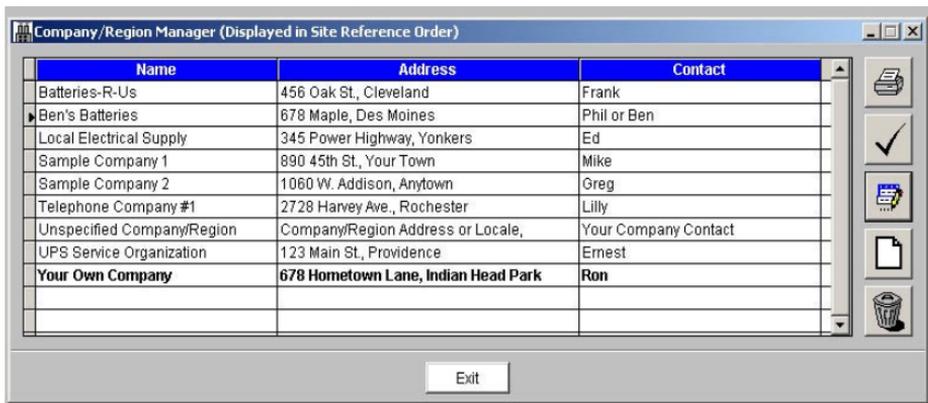
Manage Companies/Regions

Use the **Manage companies/regions** button to load or manually enter data about your clients or your company's regions as illustrated in Figure 6.

NOTE: Information can be edited or added to any of the data screens, as shown at left.



Figure 6. Company/Region Manager screen



The Name column can list the company name or location, depending on how you prefer to organize your data.

Adding a Logo to Reports

You can also add a company logo to your printed reports in **Manage Companies/Regions**. Click the *Edit Selected Company/Region* button in the center of the right edge of the screen to choose your logo:

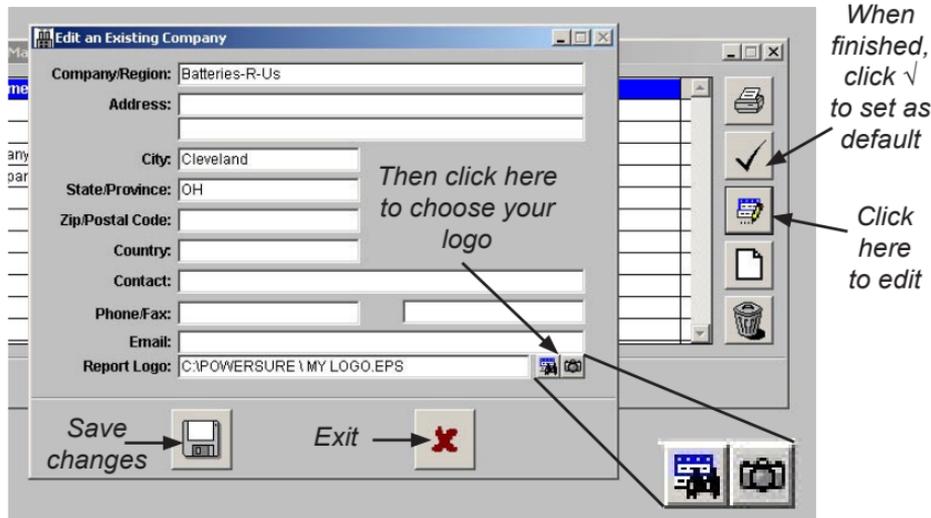


Figure 7. Edit an Existing Company screen

Adding A Logo to Reports (con't.)

Click the **binoculars button** to locate a logo to insert. This will become the default logo that will appear in all reports for that company. Click the **camera button** to view the logo that **PowerSure** is currently using:



Figure 7a. Clicking the camera button displays the current default logo for the selected company

In the *Logo File Selection* window, click on the logo you want, and click **Open** (Figure 8 below). Check that the file chosen is correct, and click the **disk button** to save your changes (Figure 9).

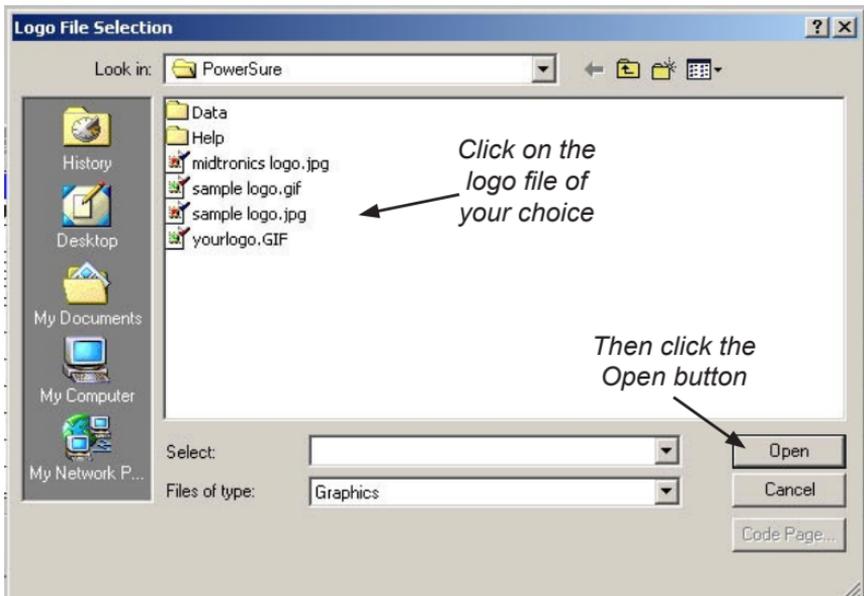


Figure 8. Logo File Selection screen

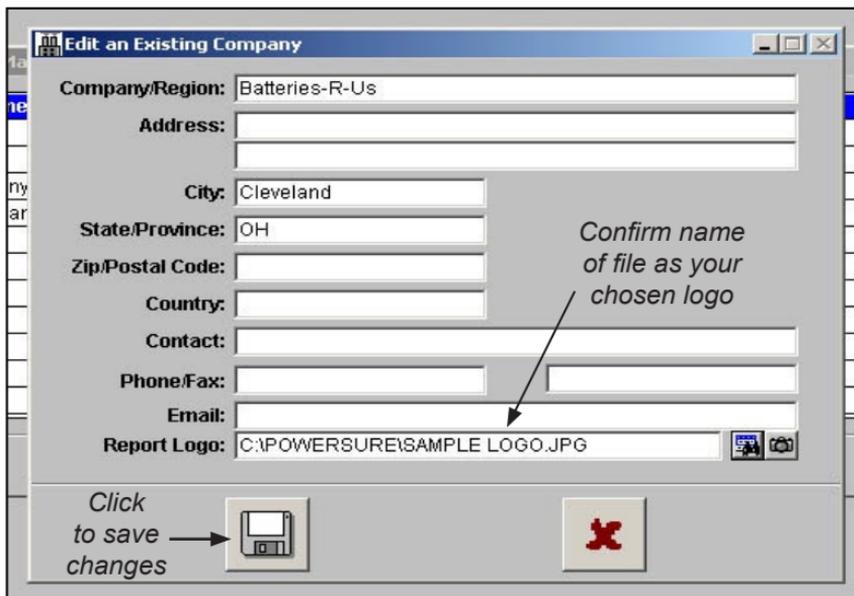


Figure 9. Logo Confirmation screen

A NOTE ABOUT LOGO CONVERSION

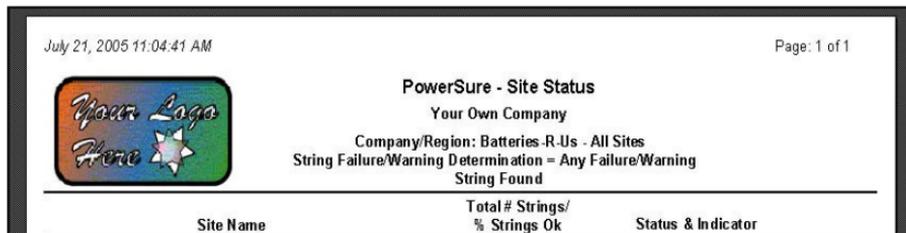
PowerSure accepts logos in the **.gif** and **.jpg** formats. If the logo is in a different format, such as **.eps** or **.tif**, it will not appear in the *Logo File Selection* window.

To convert your logo, open it as you normally would, then do a **Save As...** to a **.gif** or **.jpg** format. If your graphics program does not offer that option, then select the logo image by clicking or drawing a marquee around it, copy it to your computer's memory (Ctrl-C), open a **New** document in a photo editing application, paste it in (Ctrl-V), and **Save** it as a **.gif** or **.jpg**.

Setting a Default Logo

After clicking the **disk button** to save your changes, be sure to click on the **checkmark button** on the main *Managing Companies/Regions* screen (shown in Figure 7) to confirm that logo as the default for that company.

You may proceed to choose a logo for each company in your list, which will then appear on the header of every report run for that company as shown in Figure 10 below:



July 21, 2005 11:04:41 AM Page: 1 of 1

Your Logo
Here

PowerSure - Site Status
 Your Own Company
 Company/Region: Batteries-R-U's - All Sites
 String Failure/Warning Determination = Any Failure/Warning
 String Found

Site Name	Total # Strings/ % Strings Ok	Status & Indicator
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Figure 10. Sample report header, showing logo

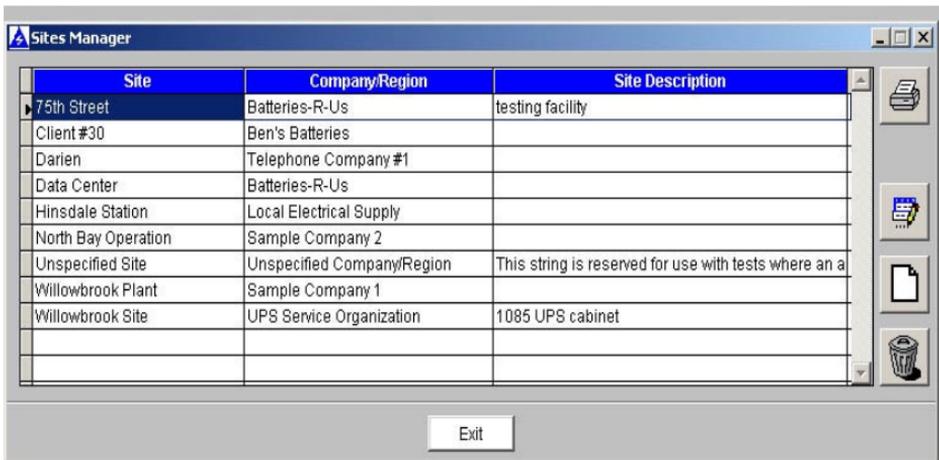
A NOTE ABOUT MANAGING SYSTEMS & SITES

Sites may have more than one System, and different System Types may be found in the same location. Being able to create your own descriptions lets you add more detail to your Site and System Types, and gives you an extra layer for filtering your records (see page 27).

Manage Sites



The **Manage Sites** button works much the same way as *Manage Companies/Regions*, and lets you enter a description of the site:



Sites Manager

Site	Company/Region	Site Description
75th Street	Batteries-R-U's	testing facility
Client #30	Ben's Batteries	
Darien	Telephone Company #1	
Data Center	Batteries-R-U's	
Hinsdale Station	Local Electrical Supply	
North Bay Operation	Sample Company 2	
Unspecified Site	Unspecified Company/Region	This string is reserved for use with tests where an a
Willowbrook Plant	Sample Company 1	
Willowbrook Site	UPS Service Organization	1085 UPS cabinet

Exit

Figure 11. Sites Manager screen

Right-click the **Manage Sites** button for the *Site Types Manager*, which allows you to create your own description of sites. This makes it easy to find specific sites by visual keywords you are likely to remember:

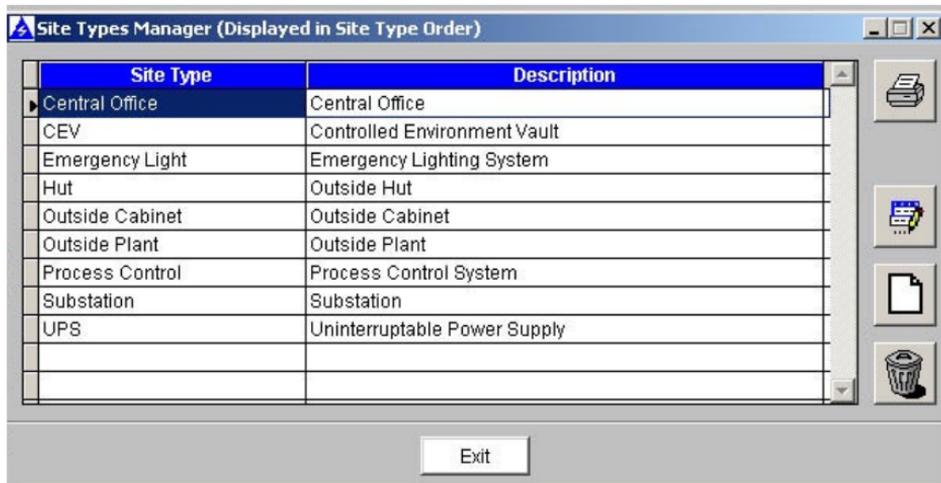


Figure 12. Site Types Manager screen

Manage Systems



Use the **Manage Systems** button to view data about your systems by system, site and system description, as illustrated below:

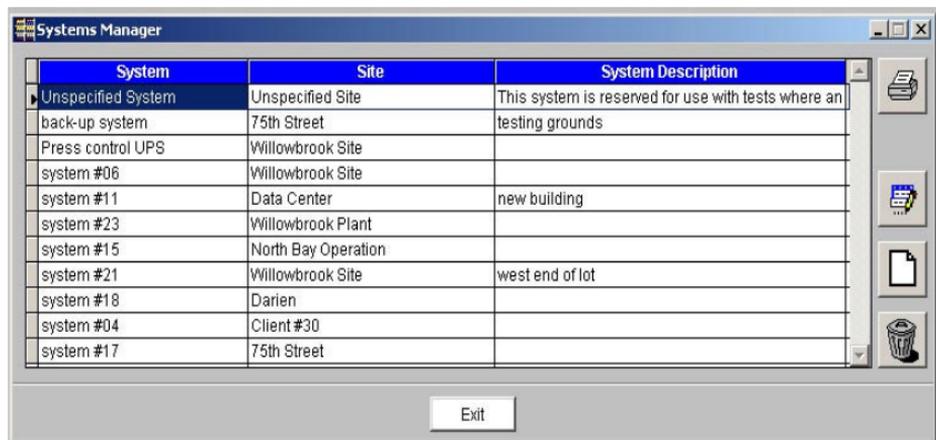


Figure 13. System Manager screen

Right-click the **Manage Systems** button for the *System Types Manager*:

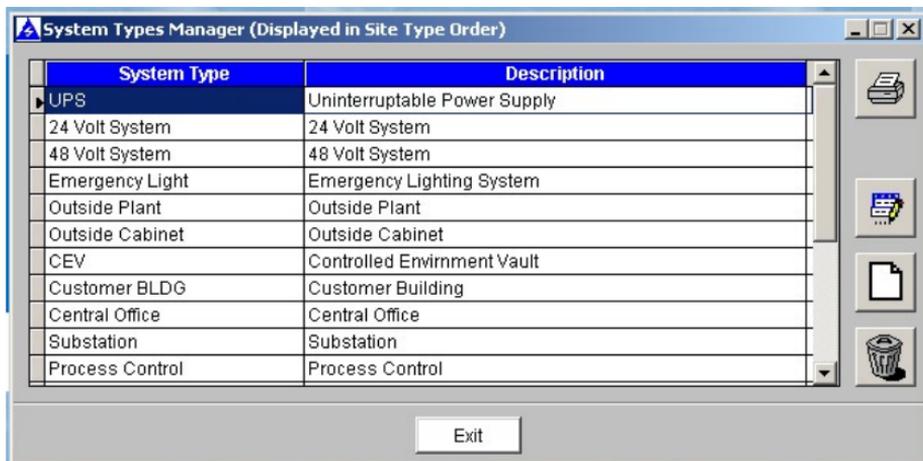


Figure 13a. System Types Manager screen

Manage Strings



Use the **Manage Strings** button to view data about your strings by string, system, and string description, as shown below:

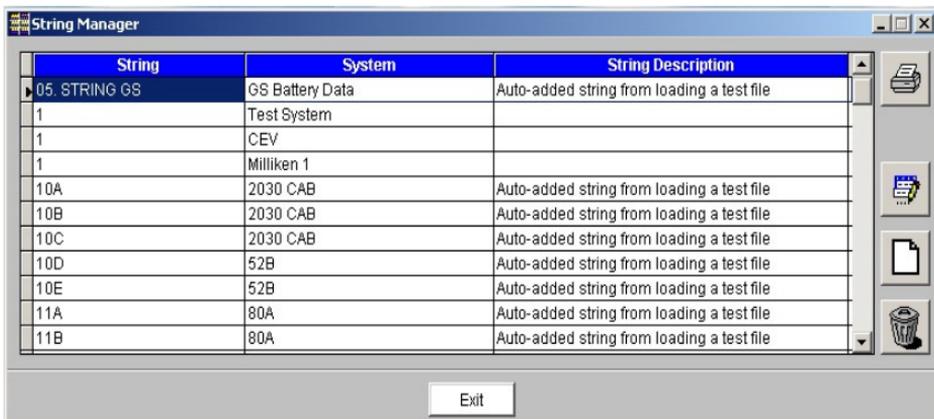


Figure 14. String Manager screen

Manage Batteries



Click the **Manage Batteries** button to view data about your jars by manufacturer, model, and reference value. Here you can also add a new model, or edit an existing one.

Battery Manager (Displayed in Manufacturer Order)

Manufacturer	Model Number	Reference Value
ALPHACELL	160A	1300
ALPHACELL	165GXL-3	1000
ALPHACELL	165GXL-3	1000
ALPHACELL	165GXL-5	1000
ALPHACELL	180GXL-3	1100
ALPHACELL	180GXL-4	1100
ALPHACELL	180GXL-5	1100
ALPHACELL	85GXL	600
C&D	12 SLA-100	2200
C&D	1680 AH	5500
C&D	FA6125	1900

Figure 15. Battery Manager screen

Right-click the **Manage Batteries** button to see a list sorted by manufacturer name. You can also add a new manufacturer, or edit an existing one.

Battery Manufacturers (Displayed in Manufacturer Name Order)

Manufacturer Name
Eagle Picher
East Penn
Energys
Exide
Fiamm
GNB
GS Batteries
Globe Union
Lucent / AT&T
North Star Batteries
Panasonic

Exit

Figure 15a. Battery Manager screen, sorted

Manage Testers



Click the **Manage Testers** button to view data about your analyzers by model, serial number, date of purchase, firmware version, and comments:

Model Number	Serial Number	Purchased	Firmware Version	Comments
▶ ADVANCED		//		Tester automatica
ESSENTIAL		//		Tester automatica
MICROCELL		//		Tester automatica
ULTRA	UNKNOWN	//		This database will
ULTRA	137273	//	192-097A	Tester automatica

Figure 16. Tester Manager screen



Manage Techs

Click the **Manage Techs** button to view data about your personnel by name and supervisor:

Name	Supervisor
▶ Bowman, George	Greg
Ferguson, Ralph	Otis
Halloway, Sammy	Bill
Technician, Generic	Frank
Tully, Amos	Jose

Figure 17. Techs Manager screen



Manage Your User Profile

Click this button to perform administrative tasks such as changing your password, and to customize **PowerSure**.

Figure 18. User Account Maintenance screen

To Change Your Personal Login Information

- 1) Enter the desired name and/or password.
- 2) Click on the Save button to save your changes.

**** PLEASE NOTE **** You CANNOT change your login ID.

To Change Your PowerSure Display Background

- 1) To change your desktop background, click the **Change My Desktop** button. In the dialog box that appears, you can select from a number of images, or change your **PowerSure** desktop to any color by choosing the *Standard (No Image)* option. Click the small icon for a palette of colors, and click on the color of your choice.
- 2) To display animated mouseovers when you move your cursor over an action button, check the Animated Mouseovers box.
- 3) To make **PowerSure** use your current XP theme, check the Use Windows XP Themes box.
- 4) To toggle between the **PowerSure New User Wizard** and power desktop, check on the Use New User Wizard box.
- 5) Click the **SAVE** button to save your changes.

To Change Your Communication Information

- 1) This information is not required unless you intend to use the integrated outbound email capabilities of **PowerSure**.
- 2) The Email Server Name (SMTP) corresponds to your outbound email server name, which is also called your SMTP server.
- 3) The Email Account/User ID is required only if your email server requires outbound server authentication.
- 4) The Email Password is required only if your email server requires outbound server authentication.
- 5) Click on the Save button to save your changes.

To Change Your COM Port for IR Transfers

- 1) Select the COM port to which your IR receiver is attached. If you don't know your COM port, do the following:
 - a) Open Windows Control Panel and select the System Option.
 - b) In the dialog that appears, select the Hardware tab and then click on the **Device Manager** button.
 - c) In the dialog that appears, locate the Port entry and verify to which COM port your IR receiver is connected.
- 2) Click the **Save** button to save your changes.



Show New User Wizard

This button takes you back to the first-time user screen, as shown in Figure 1 on page 7:

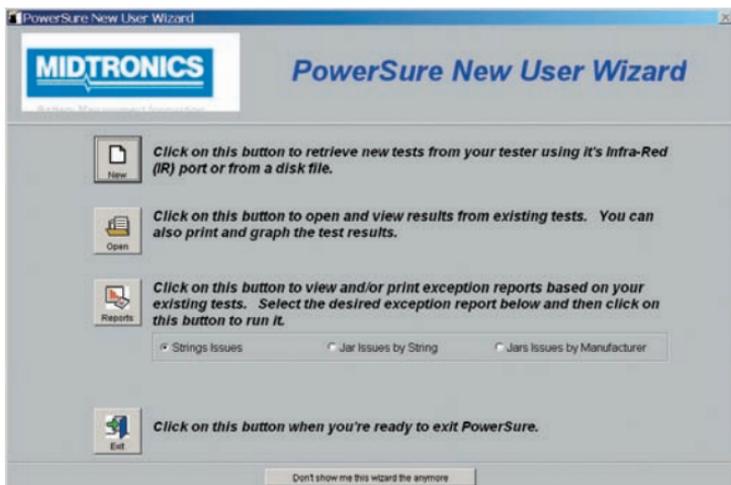


Figure 19. New User Wizard screen

RUNNING A REPORT IN POWERSURE

PowerSure makes it simple to run several types of comprehensive reports, including pie charts and bar graphs that make it even easier to analyze data.

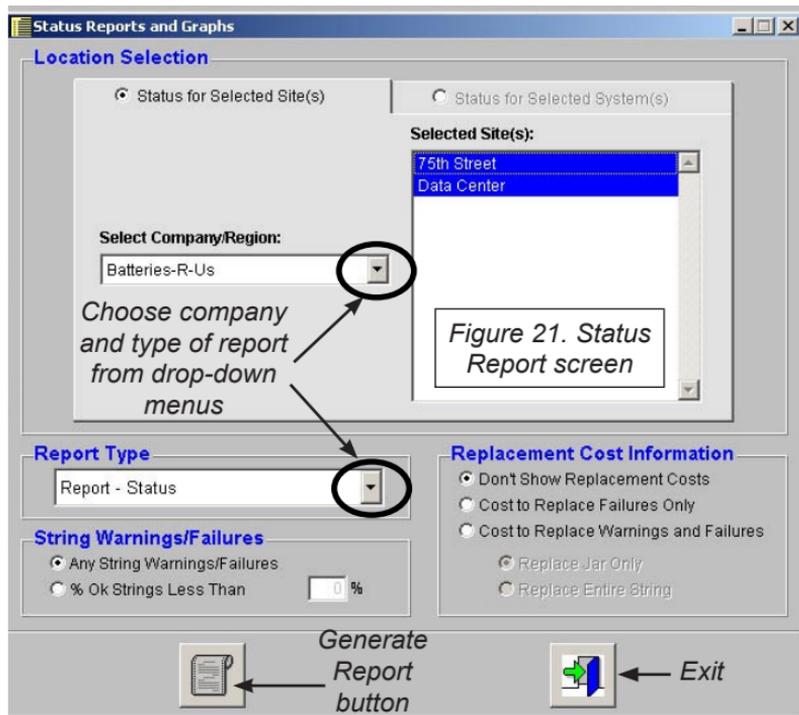
To generate a report, click the *Run Reports & Graphs* button. Slide your cursor across the various sub-menus to see the wide variety of reports from which you can choose:



Figure 20. Run Reports & Graphs sub-menus

Generating a Status Report

To create a basic Status Report on Batteries-R-U's, choose *Status Report* in the sub-menu. The following screen will appear:



Handy drop-down menus let you quickly choose the company and type of report. Click the **Generate Report button**. The following *Print Destination* screen appears, from which you can send your report directly to a Printer, take a look at it first in Preview, or Export the data as a text, Excel, or DBase file:



Figure 22. Print Destination screen

Clicking the **Preview** button shows you what the report will look like:

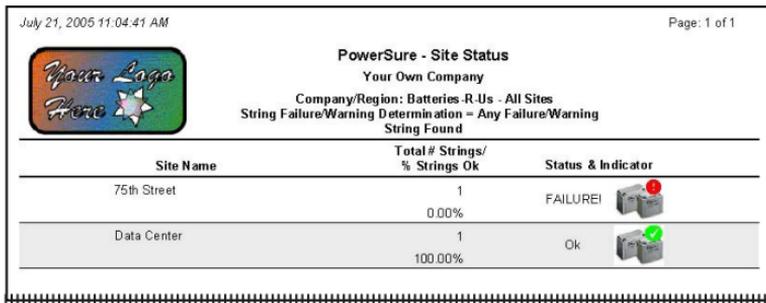


Figure 23.
Preview of
a Status
Report

A NOTE ABOUT PDF'S

You can also create a PDF of a report by clicking Print and choosing a PDF writer from the Printer drop-down menu. If none appear on the list, several freeware or shareware PDF writers are available for download on the internet.

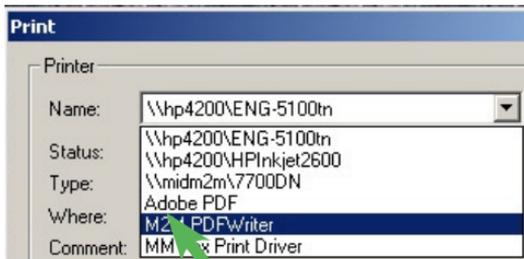


Figure 24. Printer drop-down menu

Creating a Pie Chart

While the above Status Report shows that half of the batteries are good and half are in failure, choosing **Pie Chart** in the **Report Types** drop down menu produces a more visual interpretation.

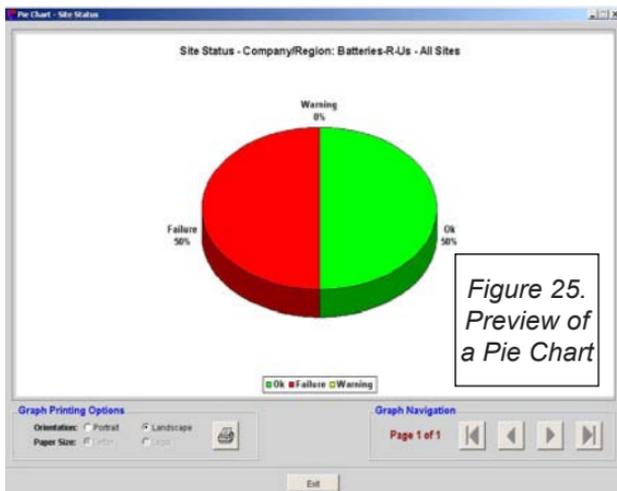


Figure 25.
Preview of
a Pie Chart

Creating a Jar Exceptions by Battery Manufacturer Report

You can quickly generate the above report by following the sub-menus to the very end, as follows:



Choose from the options to include Warnings & Failings, Warnings Only, or Failures Only. Then click the **Generate Report** button:



Figure 26. Sample report set-up screen

...to create the following report:

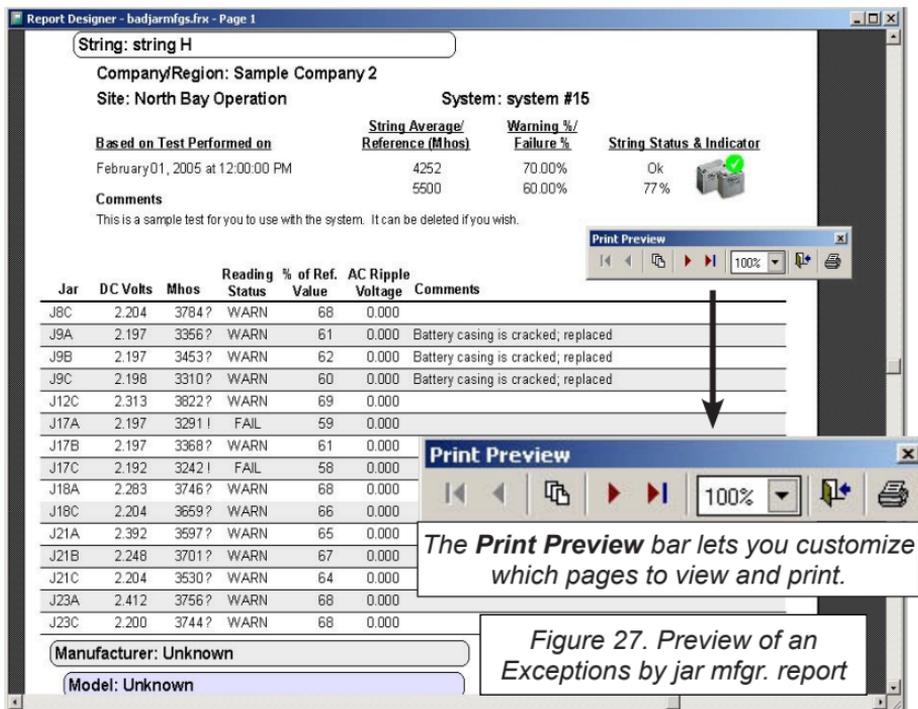


Figure 27. Preview of an Exceptions by jar mfg. report

ANALYZING DATA IN POWERSURE

PowerSure lets you see the state of your or your clients' systems, sites and strings in several easy-to-interpret forms.

Using the Filter Feature

The Filter buttons, located along the right edge of the battery test data record screen (see Figure 4, p. 11), allow you to choose only the records you want to see, by Company/Region, Site, System, or String.

You can also filter Test Location types by Site or System, and Test Performance results by Battery, Technician, Test Dates, String Failures or String Warnings.

After selecting your filter type, click as shown below to accept the filter, and then click to apply filter.

Figure 28. The Filter & Remove Filter buttons

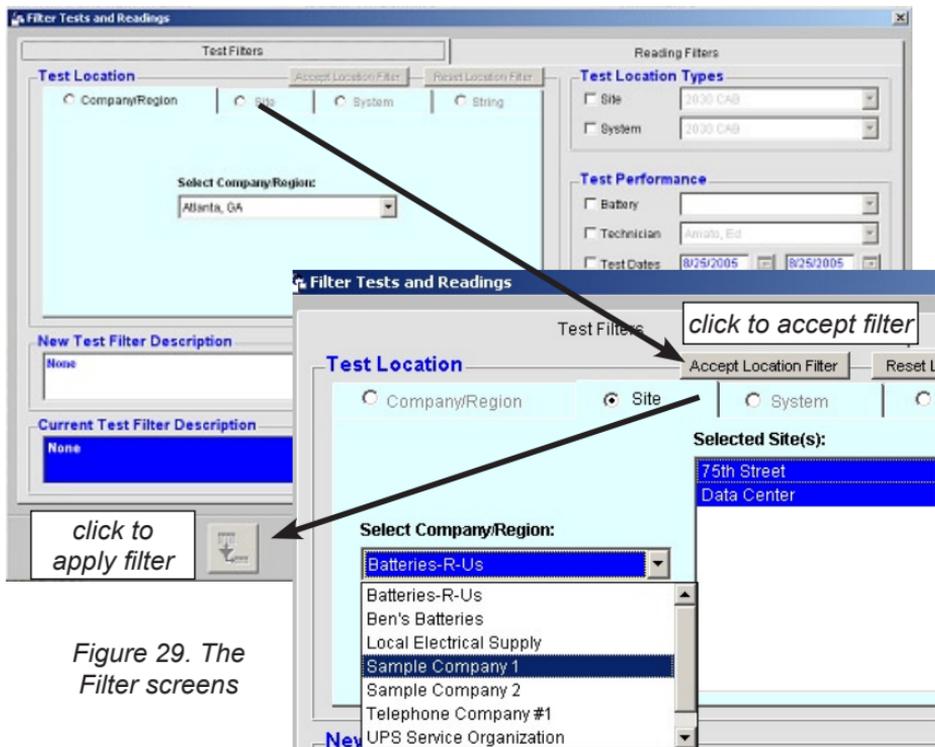
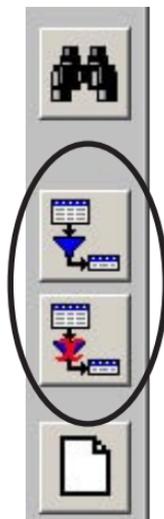


Figure 29. The Filter screens

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