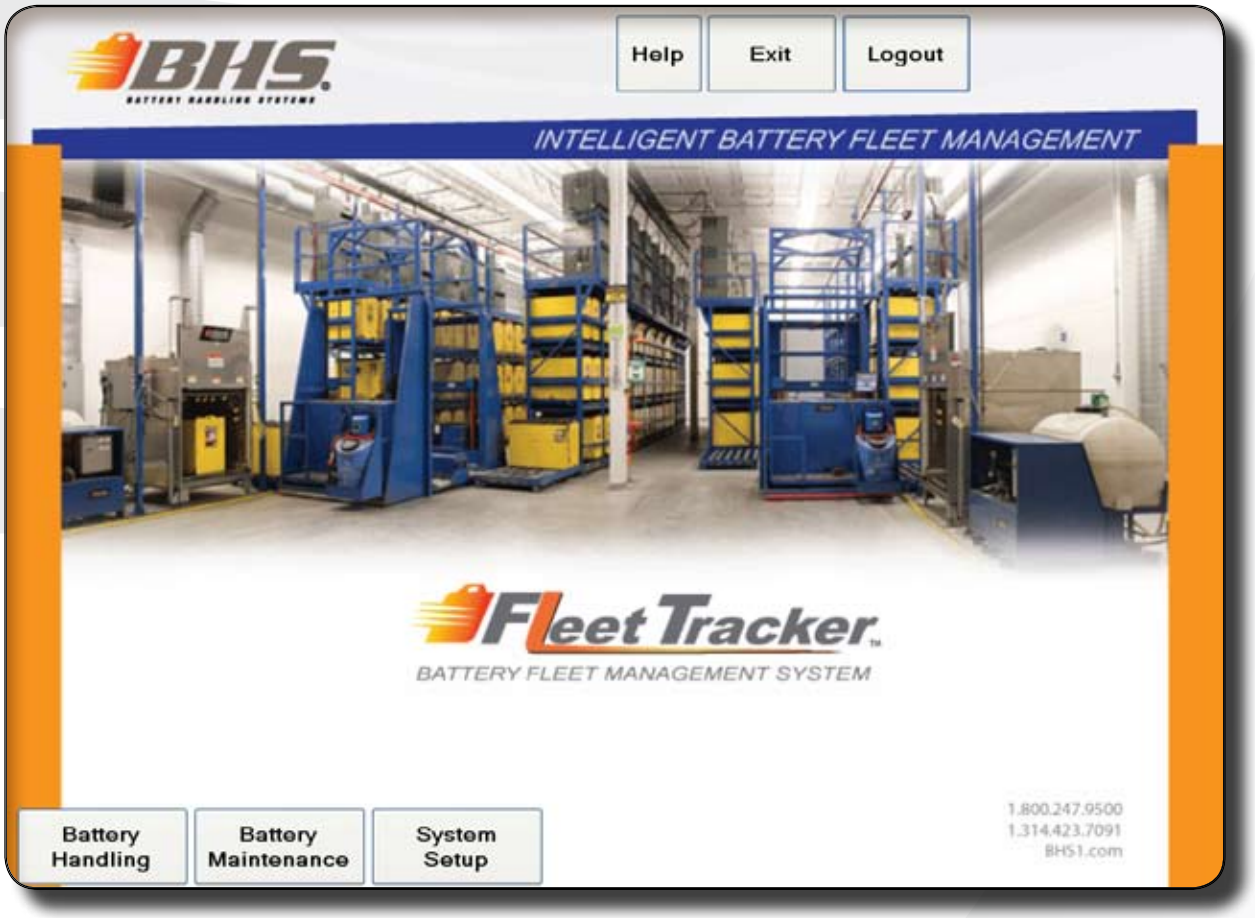
BATTERY FLEET MANAGEMENT SYSTEM

Fleet Tracker™

Fleet Tracker Series

BATTERY MANAGEMENT SOLUTIONS

- *Track operational performance and battery maintenance tasks such as battery watering, equalizing, washing, and operational performance*



BATTERY HANDLING SYSTEMS
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BATTERY FLEET MANAGEMENT SYSTEM

Fleet Tracker™

Fleet Tracker™ is a leading battery fleet management software system utilized by corporate managers, battery room supervisors, and battery extractor operators. Using the latest technology, Fleet Tracker™ provides a detailed look into an organization's battery inventory to help managers reduce maintenance costs, improve profitability, and increase productivity.

Designed for Workflow Success
The Fleet Tracker™ provides a streamlined battery change-out process to improve workflow and minimize poor battery handling practices. Critical information used to change and maintain batteries is collected and reproduced in a user-friendly format.

State-of-the-Art Technology
The Fleet Tracker™ Battery Fleet Management System's intuitive design, extensive features, and configurability make it the front-running technology in battery asset and process management. From rack and user setup to customizable reporting, Fleet Tracker™ is a complete battery monitoring system that enables users to make informed decisions on all levels. With the ability to easily reconfigure racks, add batteries or chargers, and auto-correct "lost" batteries, the system maximizes efficiency to save time and money.

Visibility Through Custom Reporting
Standard reporting capabilities include battery inventory, activity summaries, and forecast reports on batteries scheduled to be taken out for service, as well as transactions of various critera. With a SQL Server database, asset information is secured and accessible only by management. Fleet Tracker™ can also utilize custom reporting using Microsoft® Reporting Services including monthly comparison reports and the ability to export data to other formats.

ENVIRONMENTAL SPECS

Vibration / Shock Impact Resistance:
MIL STD 810F, Method 516.5 (3 Ft. Drop Spec)
MIL STD 810, Method 514.5 (Vibration)

Operating Temperature:
0 - 140 F / 0 - 60 C (Low Temp Option Available)

Relative Humidity:
10% - 90% at 104° F / 40° C

Water & Dust:
Ingress Protection (IP) 54 Rated

FEATURES & BENEFITS

- Centralizes data across facilities
- Reduces battery change-out time
- Proper maintenance of batteries
- Easy data entry
- Minimizes the number of batteries and chargers required to operate
- Provides real-time battery, charger, & truck listing information
- Ability to decommission and re-commission batteries easily
- Hook-up not required to existing batteries
- Detailed reports
- Touch screen computer interface
- Lightweight bar code scanner
- Acid resistant barcode labeling system
- System notifications and on-screen alerts
- User-defined notes fields
- Layered security, logins, and activity permissions

DATA COLLECTION

Battery Details
- Battery ID Asset Number
- Historical Battery Information
- Battery Transfers to Wash and Charging Stations
- Battery Charge and Run Time
- Battery Maintenance Intervals
- Battery Wash, Water, and Equalization Cycles
- Missing Battery Indicator

Rack Details
- View Rack Configuration on Track

Truck Details
- Truck ID, Model Number, and Manufacturer
- Truck Hour Meter Reading
- Service Hours

BATTERY HANDLING SYSTEMS

SAMPLE REPORTS

Operator Listing

User Code	First Name	Last Name	Initials
1000	Admin	BHS	BHS
2222	test	poweruser	tpu
1111	test	user	tu

Truck Activity Details

Truck Bar Code	Batt. Bar Code	Date On Truck	Date On Rack	Hours On	Metered	Actual
34567						
19235	16000	9/9/2010 12:28:50 PM	9/10/2010 12:33:40 PM	24	1000	7
19236	16001	9/13/2010 12:33:57 PM	9/14/2010 12:42:51 PM	24	1007	8

Metered Hours

Truck Bar Code	Truck Serial No.	Truck Asset No.	Metered Hours
17000	23456	200	1561
19236	34567	301	2489

Drive Lockout Activity

User Code	First Name	Last Name	User Action	Date / Time
1111	test	user	Login	9/9/2010 01:03:34 PM
1111	test	user	Logout	9/9/2010 01:03:39 PM
1111	test	user	Login	9/9/2010 01:07:43 PM
1111	test	user	Logout	9/9/2010 01:07:50 PM

Drive Lockout No Activity

User Code	First Name	Last Name	User Action	Date / Time
1000	Admin	BHS	Login	9/8/2010 07:29:48 AM
1000	Admin	BHS	Lockout	9/8/2010 07:29:52 AM
1000	Admin	BHS	Logout	9/8/2010 07:29:52 AM
1000	Admin	BHS	Login	9/8/2010 07:36:03 AM

Battery Activity Details

Bar Code	Serial No.	Make	Type	In	Out	Truck Hours	Rack Hours	Actual Run Time
16000	12345	Acme	A	9/9/2010 12:28:50 PM	9/10/2010 12:33:40 PM	8	24	7
16000	12345	Acme	A	9/13/2010 12:33:57 PM	9/14/2010 12:42:51 PM	72	24	8
16000	12345	Acme	A	9/15/2010 12:42:51 PM	9/16/2010 12:42:51 PM	24	24	7
16000	12345	Acme	A	9/17/2010 12:43:09 PM	9/20/2010 01:18:43 PM	72	24	9
16000	12345	Acme	A	9/21/2010 01:20:14 PM	9/22/2010 01:56:31 PM	24	24	6

Battery Forecast Replacement

Bar Code	Serial No.	Make	Model	Date in Use	Date Returned
16009	12354	Acme	18-125-15	9/14/2010 01:23:36 PM	9/14/2010 01:23:36 PM
16009	12354	Acme	18-125-15	9/14/2010 01:23:36 PM	
16009	12354	Acme	18-125-15	9/14/2010 01:22:14 PM	9/14/2010 01:23:36 PM
16009	12354	Acme	18-125-15	9/10/2010 02:56:36 PM	9/14/2010 01:22:14 PM

Battery Preventive Maintenance

User Name	User Code	Operation	Bar Code	Serial No.	Date Performed
Admin BHS	1000	Water	16004	12349	9/10/2010 02:10:41 PM
Admin BHS	1000	Water	16003	12348	9/10/2010 02:11:35 PM
Admin BHS	1000	Water	16000	12345	9/10/2010 02:12:17 PM
Admin BHS	1000	Water	16001	12346	9/10/2010 02:25:26 PM
Admin BHS	1000	Water	16002	12347	9/10/2010 02:45:10 PM

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OPERATING FEATURES

MS SQL Express Platform

This upgrade from MS Access provides added reliability, increased performance, and greater reporting flexibility. Users with MS SQL Server implementations will have the full range of SQL tools available for use with the FLT database.

Intelligent Processing

FLT allows operators to complete system tasks, such as recording battery change out, prior to launching background tasks including updates to summary information. This intelligent resource allocation provides greater responsiveness for users and keeps background task where they belong…in the background.

Sequenced Watering

FLT presents batteries requiring watering in the sequence of their physical location within the system. This allows technicians to efficiently water batteries in a direct route from start to finish rather than watering at random locations within the system.

Flexible Reporting

FLT uses sorting options and data filters to define reports based on a user's specific criteria.

Battery Location Tools

FLT tools allow the user to "auto-correct" the location of a battery physically stored in an unexpected location. This tool is useful if a user scans a battery into one location, but actually places the battery in another location in error.

FLT tools also allow the user to re-establish the correct location of multiple batteries by scanning each battery and its corresponding location.

This tool is intended for those situations were a "re-set" of battery locations is desirable.

ADDITIONAL OPTIONS

Remote Report Viewer

Fleet Tracker™ can be installed to store information on a wireless network. This allows two battery extractors to share information and track batteries in the same fleet. The reports can also be viewed from a remote computer.

Password Lockout

This option requires that a User ID be entered before the battery extractor travels to prevent unauthorized use.

Badge Reader

Users may enter their User ID using a badge reader when prompted by Fleet Tracker™ without having to type in the ID on the touch screen computer. This option may be integrated with Employee ID badges as well.

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BHS® BATTERY HANDLING SYSTEMS

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