

# **PHOENIX AFC**

## **Administrator Software Manual**

**340266 Rev. A**



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# INTRODUCTION

This manual covers installation and operation of the Phoenix AFC Administrator software. End-users are encouraged to contact a trained service technician whenever service is required on the Phoenix AFC hardware.

Within the text portion of this manual, the term *pump* refers to the fuel pump or fuel dispenser the user obtains fuel from; it does not pertain to the mechanical pump and motor used to move the fuel from the tank to the hose.

This manual is designed for use with software version 2.0.6. If you have a later version and are finding troublesome discrepancies between the manual and your system, you may want to contact Tuthill Transfer Systems for a service manual revision better suited to your specifications.

**Please note: Items in this manual are subject to change without notice.**

## Contact Information

### Customer Care and Order Entry

Tuthill Transfer Systems  
8825 Aviation Drive  
Fort Wayne, Indiana USA 46809  
Telephone: 219 747-7524 or 800 634-2695; Fax: 219 747-3159

### Technical Support

Tuthill Transfer Systems  
2626 Skyway Drive  
Grand Prairie, Texas USA 75052  
Telephone: 972 647-0786 or 800 654-5002; Fax: 972 660-5793

# AFC ADMINISTRATOR SOFTWARE

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**NOTE: For best results, use the software manual designed to accompany the version of software installed on your PC. Call Customer Care for help in obtaining the correct revision.**

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## Software Installation

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**WARNING: The Phoenix AFC Administrator software must be installed on the computer that is connected to the Phoenix AFC. This software is not designed to be installed on a network drive.**

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The software installation is designed to be trouble-free. In the unlikely event you do experience a problem, stop immediately and write down any error messages that appear on the screen. Also note which step of the installation you were performing when the problem occurred. Following this procedure will help isolate and correct problems more quickly. The suggested software installation procedure follows.

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**NOTE: If you are installing this software on a PC already running an older version of the AFC Administrator software, you should not uninstall the existing version before installing the new version. This version is intended to be installed “on top of” the existing version of the AFC Administrator software to keep the existing system configuration.**

**You should also record the serial port settings prior to installing the new software. To do this, run the AFC Administrator program and click CONFIGURATION and SERIAL PORT. Note which serial port is selected; when the new software is installed, it may or may not default to the same serial port. If not, you will need to change the settings once you have finished installing the software.**

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1. Determine whether the PC meets the minimum hardware requirements.
2. If the computer is running Windows, close all applications, so only the desktop appears.
3. Insert Phoenix AFC Administrator disk 1 in the A drive of the PC.
4. Click START, click RUN, and type A:SETUP. Click OK to begin the installation. (If your 3.5" drive is B: type B:SETUP instead. If you are loading this software from a CD, select the appropriate drive.)
5. The installation program will extract the installation files from disk 1. Several windows will appear during this process, and a status bar will indicate the percentage of the process that is complete.
6. A small welcome window will appear within a large blue window. It will suggest you close any programs that are running. If you have not closed all other programs, click CANCEL to exit setup so you may close them now. Click NEXT if you are ready to continue the installation.
7. The next box prompts you for the user's name and the company name. The installation program automatically takes the user's name and company name from your Windows registration; you may change this if desired. Enter the appropriate information, and click NEXT to continue the installation. If you do not have the information requested and wish to abort the installation, click CANCEL.

8. The next window prompts you to select the appropriate drive and directory in which to install the AFC Administrator software. We recommend you use the default directory, C:\PROGRAM FILES\AFC ADMINISTRATOR, although the software will install and run correctly from any drive, including a network drive. Use the BROWSE button to select a different drive/directory. Use the NEXT button to install the software to the selected directory, or click on CANCEL to end the installation.

9. The next window prompts you to select the name and location of the program folder (appearing in the START menu). It is suggested you used the default name and location, START/PROGRAMS/AFC ADMINISTRATOR. Once you have decided on the appropriate name and folder, click NEXT to continue the installation or CANCEL to exit the installation.

10. The next box allows you to look over the settings and verify they are correct before the actual installation occurs. Review the information and click NEXT to continue or CANCEL to abort the installation. If you wish to change any settings, use the BACK button to step back to the appropriate window to make corrections.

11. The installation program will begin copying files. It will prompt you at the appropriate times to insert the next disk.

12. Once all of the files are copied, a window will appear asking you to click FINISH to complete the installation. Be sure to remove the last disk and store it with the other disks in a safe place. When prompted to reboot the computer, do so. You may also choose not to reboot, but the software will not run correctly if you try to run it without rebooting. If given the option to launch the program once installation is complete, do not launch it. Instead, you should reboot the computer once installation is complete.

13. Once you reboot, the AFC Administrator software is ready to run.

14. Run the AFC Administrator program. Click START, PROGRAMS, AFC ADMINISTRATOR, and AFC ADMINISTRATOR.

15. The software will detect whether a previous version of software has been installed. If a previous version was detected, the system will give a message: *Upgrading from an Earlier Version Of Program – Do you want To Run the Verify Program Now?* Click YES to verify the existing database and convert it to the current format.

16. During the verify process, the following message will be displayed: *Afc.mdb does exist in application Directory – Four Databases Site1.mdb, Profile0.mdb, Trans.mdb, and SiteConfig.mdb will be created ONLY IF they do not Exist.* Click OK to continue with the verify process.

17. Once the verify process is complete, the system will advise you *All Database Fields Were Verified.* Click OK to continue. The software will then show you a list of tables and what was done to them during the verify process. Click OK to close this list and complete the verify process.

## Main Window Overview

A password feature has been added, so you will be prompted for a user ID and password any time you run the AFC Administrator software. The default user ID and password are both "AFC." You may change the user ID and password as needed. To change the password, perform the following steps:

1. At the main window, click FILE and SET USERID/PASSWORD.
2. Enter the new user ID in the USERID box.
3. Enter the new password in the NEW PASSWORD box.

4. Enter the new password again in the CONFIRM NEW PASSWORD box.
5. Click OK to save the new user ID and password.

If you enter NOPASSWORD in the USERID, NEW PASSWORD, and CONFIRM NEW PASSWORD boxes, you will not be prompted for a password again when you run the program.

The Phoenix AFC Administrator main window allows you to select which AFC Administrator task to perform. A selection is chosen by clicking on the appropriate icon or by using the pull-down menus. If you are unfamiliar with the icons, position the mouse cursor over a particular icon and a small message will appear describing the icon. This section briefly outlines each icon task.

## Exit

This button allows you to exit the Phoenix AFC Administrator program. You may click the EXIT icon or click FILE and EXIT to close the program.

## Site Selection

This allows you to move between fueling sites if you are operating more than one. If you have more than one site set up, you must select a site before using the AFC Configuration feature. If no site is selected, you will get a warning message asking you to select a site.

## AFC Configuration

This icon lets you configure system settings such as vehicles, drivers, fuel types, fueling positions, departments and vehicle classes. You may click the AFC CONFIGURATION icon or click CONFIGURATION and AFC to configure the system.

## View/Export Transactions

By clicking on the menu item TRANSACTIONS and choosing VIEW/EXPORT, or by clicking on the EXPORT TRANSACTIONS button, you can export fuel transaction data for use by another application. To export a portion of the records, highlight those records by clicking on the first or last record, holding down the mouse button, and dragging the highlight over all of the records you wish to select. Then go to the menu option FILE/EXPORT/SELECTION, and only the highlighted records will be exported. Alternately, you can choose a date range of records to export by choosing FILE/EXPORT/RANGE.

## Network Diagnostics

This feature allows you to view data transmission activity between various Phoenix AFC system components. This is a system tool used to diagnose communication issues between Phoenix AFC devices. These devices include the Phoenix AFC, printer/PC adapter, transaction printer, receipt printer, remote communications adapter and Phoenix AFC satellite units. You may click the NETWORK DIAGNOSTICS icon or click UTILITIES and NETWORK DIAGNOSTICS to monitor the network transmission activity.

## Serial Communications/Serial Port Configuration

This setting lets you choose an available serial port into which to connect the printer/PC adapter. The software automatically detects existing serial ports on the computer that are not currently in use by Windows or a Windows-based program.

## Download Transactions

Allows you to download fuel transactions stored in the Phoenix AFC. The printer/PC adapter must be connected to the PC through an available serial port and the Phoenix AFC must be connected to the printer/PC adapter. After selecting a site, click the DOWNLOAD TRANSACTIONS icon or click TRANSACTIONS and DOWNLOAD to download fuel transactions to the PC.

## Reports

The software helps you generate fuel usage reports by vehicle number, driver number, and department. You provide a specific date range and the report is generated and displayed on the screen. You may also print the report as needed. Click the REPORTS icon or click REPORTS to view or print reports.

## Activity Log

This button allows you to view all Phoenix AFC activity, including configuration changes, card/key activation, and fueling transactions. This log can be used to track unauthorized use, to verify programming changes, and to monitor fueling activity. Click the ACTIVITY LOG icon or click UTILITIES and ACTIVITY LOG to view the activity log.

The event number is a sequential number generated by the Phoenix AFC every time a fueling transaction occurs or there is communication between your PC and the Phoenix AFC. Date and time provide a record of when the event occurred. The event section of the log tells what type of event took place and on which Phoenix AFC unit the event occurred.

# Software Operation

## AFC Administrator Serial Port and Site Configuration

**This information applies to AFC Administrator version 2.0.5 and later. Earlier versions did not support multiple AFC systems and will be configured differently.**

The Phoenix AFC is designed to communicate with a PC two ways. The PC may be connected directly to the Printer / PC Adapter (PPC) using a serial cable, or via a telephone connection using a modem and the optional Remote Communication Adapter (RCA). The AFC Administrator program must be configured accordingly to communicate using either of the above methods.

## Understanding the SITE CONFIGURATION Screen

Before configuring the sites, you should familiarize yourself with the configuration options available. From the main AFC ADMINISTRATOR screen (gas station), click CONFIGURATION and SITES to display the SITE CONFIGURATION screen. Below are the descriptions of each item found on this screen:

- **PROFILE**

This identifies the programming profiles set up for the Phoenix AFC. By default there is one profile, PROFILE0.MDB. A profile contains programming information found in the CARD / KEY, DEPARTMENT, DRIVER, VEHICLE and VEHICLE CLASS tabs of the AFC CONFIGURATION screen.

On typical Phoenix AFC installations, even with multiple Phoenix AFC units, there should be only one profile. We do not recommend using multiple profiles unless you have more than one Phoenix AFC unit installed and wish to limit cards / keys, drivers or vehicles to a particular unit.

In the event you wish to use multiple profiles, you must be sure the correct profile is selected before altering or transmitting the configuration. Altering or transmitting the wrong profile may disallow any fueling or allow fueling by unauthorized users.

A different profile may be selected by clicking the down arrow next to the PROFILE window. A new profile may be created by clicking FILE and ADD NEW PROFILE. You must also create at least one new SITE when creating a new profile.

- **SITE**

This identifies each individual Phoenix AFC unit that will be accessed with this software. By default there is one site, SITE1.MDB. The SITE selection contains programming information specific to each individual unit. It contains the information stored in the FUEL TYPE, FUELING POSITION and GENERAL CONFIG tabs of the AFC CONFIGURATION screen, as well as the communication method and port that will be used to communicate with the Phoenix AFC.

You may have multiple sites set up for one profile, or several profiles with one site each. For a company with one Phoenix AFC unit, only one site is needed. If the company has more than one Phoenix AFC unit and each unit has different fuel types or fueling positions, multiple sites should be used. In some cases, a company may have multiple Phoenix AFC units they wish to set up each with different fuel types and fueling positions as well as limiting certain vehicles and / or drivers to a particular site. In this instance, both multiple profiles and sites should be used.

If you have multiple sites, you may select a site from the list by clicking on it. This will allow the related communication settings to be displayed in the SITE CONFIGURATION screen.

To create a new site, click FILE and ADD NEW SITE. The ADD NEW SITE window will appear and prompt you for a site number and a site name. Enter the desired site number and name and click FINISHED. In the event the site number you entered already exists, you will receive an error message. Click OK to clear the error message and try again. Click CANCEL if you do not wish to create a site.

To delete a site, click on the site you wish to delete and click FILE and DELETE SELECTED SITE. You will be warned you are about to delete a site -- click YES to delete the site, or CANCEL if you do not wish to delete the site.

- **CONNECTION TYPE**

This identifies the type of connection the chosen profile and site will use to connect to the

Phoenix AFC. By default, the option is NOT CONNECTED. To select a different connection type, select the profile and site you wish to configure and click the down arrow next to the CONNECTION TYPE box. Click on the desired connection type from the pull-down list.

If you are connecting to the Phoenix AFC using a serial cable, select DIRECT. If you are connecting to the Phoenix AFC via a modem and the optional Remote Communication Adapter, select MODEM. To use the modem option, you must have the optional Remote Communication Adapter installed on the Phoenix AFC **AND** a modem installed on the PC.

- **SERIAL PORT**

This identifies the physical serial port the AFC ADMINISTRATOR program will use when communicating with the Phoenix AFC. Once the profile and site are selected, this box will display the availability of up to 4 serial ports which are installed on the PC. Any serial port selection which is grayed-out is either not available for use or does not exist on the PC.

In some cases, even though the PC has an unused serial port, no ports will be shown as available. Occasionally this information is incorrect, and restarting Windows will correct the problem. In some cases, a port may be shown as unavailable due to its settings conflicting with the configuration of another serial device. In other cases, another piece of software may be using the port. Programs set to receive faxes or communicate with Palmtop PCs are often to blame.

If the connection type is modem, choose the port the modem is connected to. For direct connection, choose the port the serial cable is plugged into on the back of the PC.

- **MODEM OPTIONS**

If a modem connection is selected, these configuration items are used to set up the modem initialization string and the phone number used to reach the Phoenix AFC unit. If a direct connection is selected, these options are not used and they will be grayed-out.

The MODEM INIT STRING box contains commands used to initialize the modem before the AFC Administrator program attempts to dial out. In most cases, this should be left as ATZ, which is a command to reset the modem and clear any temporary settings. To change this setting, type in the new commands.

The PHONE NUMBER box contains the phone number you dial to connect with the Phoenix AFC at the site. This is the phone number of the phone line the Remote Communication Adapter is plugged into at the site -- this **IS NOT** the number for the phone line your PC modem is connected to.

You must include all digits necessary to complete the call, including commands to disable call waiting or get an outside line. You do not need to insert dashes or parentheses in the phone number. If you need to insert a pause between dialing commands, use two commas (,,) to signal the modem to wait before continuing the dialing process.

Examples:

The call to the site is local and the phone number is (800) 555-5678. The phone number as entered in the PHONE NUMBER box would be:

5555678

The call to the site is long distance, the phone number is (800) 555-1234 and the phone line your PC modem is connected to requires you to dial 9 to get an outside line. You must pause after the 9 for a second dial tone before dialing the actual phone number. The phone number as entered in the PHONE NUMBER box would be:

9,,18005551234

The call to the site is local, the phone number is (800) 555-5678 and you must disable call-waiting. The call waiting command for this example is \*72. You must pause after the \*72 for a second dial tone before dialing the actual phone number. The phone number as entered in the PHONE NUMBER box would be:

\*72,,5555678

- 
- **NOTE:** After changing any settings within the SITE CONFIGURATION screen, you must click SAVE CHANGES for these setting to be saved. To exit the screen, click FINISHED. If FINISH is clicked without saving changes, all additions and / or corrections will be lost.
- 

## PC Connected to Printer / PC Adapter Using a Serial Cable:

If the PC is located next to the Printer / PC adapter and connected to it using a serial cable, the connection method is referred to as a DIRECT connection. To configure the PC to communicate via a DIRECT connection, do the following:

- **Find the serial port on the PC**

Look on the back of the PC for an available serial port. These ports will have a 9-pin or 25-pin male connector and are typically labeled COM1, COM2, etc..., COM A, COM B, etc..., or 010101. If the ports are not numbered, choose the upper port.

- **Connect the serial cable**

Connect the supplied 9-pin serial cable to the 9-pin male serial port on the back of the PC. It is advisable to turn off the PC before connecting or disconnecting the serial cable. This is especially important on laptop computers, as they can be permanently damaged by connecting a serial cable while the power is on.

If the only available serial port on the PC has a 25-pin male connector, you will need to purchase a 25-pin female to 9-pin male serial cable locally. Be sure the cable you purchase is not a Laplink or Null-Modem cable -- these cables will not work. **DO NOT** attempt to use the existing cable with a gender changers or adapters -- in most cases this does not work properly.

Connect the other end of the cable to the Printer / PC Adapter port labeled PC (RS-232)

- **Verify the AFC is communicating with the PPC**

Be sure to verify the Phoenix AFC is communicating properly with the Printer / PC Adapter. The two indicators, marked AFC XMIT and PC RCV, should flash periodically. If the Phoenix AFC is turned off and back on, a power-up message should print.

- **Install the AFC Administrator Software**

If you have not already done so, install the Phoenix AFC Administrator software per the instructions in this manual. After the PC has been rebooted, click START and select PROGRAMS, AFC ADMINISTRATOR and click on the AFC ADMINISTRATOR listing. The default UserID and Password for the AFC Administrator software is AFC -- type in the UserID and Password to enter the program.

- **Configure the serial port settings**

At the main AFC Administrator (Gas Station) screen, click CONFIGURATION and SITES -- this will take you to the SITE CONFIGURATION screen.

By default, the AFC Administrator program creates one profile, PROFILE0.MDB, and one site, SITE1.MDB. If you are configuring a single Phoenix AFC system, this profile and site are all that are needed. If you are installing an additional Phoenix AFC, you may need to create an additional site and / or profile.

Before adding a site or profile, see the explanation of sites and profiles in the "Understanding the SITE CONFIGURATION Screen" section above. If you need to add a site, click FILE and ADD NEW SITE. If you need to add a profile, click FILE and ADD NEW PROFILE.

Before changing any of the serial port settings, make sure the correct site and profile are selected. If you attempt to change to a different profile and there are configuration updates that have not been transmitted, you must either transmit or clear the updates before switching to the other profile.

Once you have selected the correct site and profile, change the CONNECTION TYPE to DIRECT and select the correct serial port in the SERIAL PORT listing. Click SAVE CHANGES to save these settings and click FINISHED to return to the main screen.

## **PC Connected to Remote Communication Adapter Using a Modem:**

If the Phoenix AFC is in a remote location and is accessed through a Remote Communication Adapter via modem, the connection method is referred to as a MODEM connection. To configure the PC to communicate via a MODEM connection, do the following:

- **Determine which serial port the modem is connected to on the PC**

In Windows, click START, SETTINGS and CONTROL PANEL. In Control Panel, double-click on the MODEM icon. Click on the DIAGNOSTIC tab and make note of all of the serial ports shown, especially the modem. Be sure to record the modem brand and name should you need to call technical support. To test the modem, click on the COM port for the modem and click the MORE INFO button. After a short pause, the modem should return a list of responses.

- **Installing the Remote Communication Adapter**

Follow the instructions in this manual on installing and wiring the Remote Communication Adapter. Before connecting the phone line to the Remote Communication Adapter, connect the phone line to a standard telephone and verify the phone line is active. You should also have someone dial into the phone from off-site to verify the phone number is correct. Once you have verified the phone line is working and the phone number is correct, connect it to the Remote Communication Adapter.

- **Verify the Remote Communication Adapter is On**

When the Remote Communication Adapter is first turned on, the power light will come on steady and the other lights will blink randomly. Once the unit has reset and is idle, the POWER and DTR lights are on steady.

- **Connecting the PC Modem to a Phone Line**

Verify the modem connected to the PC is working properly and can dial out. HyperTerminal, a program included with Windows, is useful for testing the modem. If you are unsure how to test the modem, contact the modem manufacturer.

- **Install the AFC Administrator Software**

If you have not already done so, install the Phoenix AFC Administrator software per the instructions in this manual. After the PC has been rebooted, click START and select PROGRAMS, AFC ADMINISTRATOR and click on the AFC ADMINISTRATOR listing. The default UserID and Password for the AFC Administrator software is AFC -- type in the UserID and Password to enter the program.

- **Configure the serial port settings**

At the main AFC Administrator (Gas Station) screen, click CONFIGURATION and SITES -- this will take you to the SITE CONFIGURATION screen.

By default, the AFC Administrator program creates one profile, PROFILE0.MDB, and one site, SITE1.MDB. If you are configuring a single Phoenix AFC system, this profile and site are all that are needed. If you are installing an additional Phoenix AFC, you may need to create an additional site and / or profile.

Before adding a site or profile, see the explanation of sites and profiles in the "Understanding the SITE CONFIGURATION Screen" section above. If you need to add a site, click FILE and ADD NEW SITE. If you need to add a profile, click FILE and ADD NEW PROFILE.

Before changing any of the serial port settings, make sure the correct site and profile are selected. If you attempt to change to a different profile and there are configuration updates that have not been transmitted, you must either transmit or clear the updates before switching to the other profile. Once you have selected the correct site and profile, change the CONNECTION TYPE to MODEM and select the correct serial port in the SERIAL PORT listing. Enter the phone number as described above in the "Understanding the SITE CONFIGURATION Screen" section. Leave the MODEM INIT STRING set to ATZ. Click SAVE CHANGES to save these settings and click FINISHED to return to the main screen.

## **Testing the Connection to the Phoenix AFC**

To verify the PC can communicate with the Phoenix AFC, perform the following steps:

- From AFC Administrator main screen (gas station), click FILE and SELECT SITE. Click on the site from the list and click FINISHED. You may also click the SITE SELECTION (numbered knob) icon, click on a site from the list and click FINISHED.
- Click UTILITIES and NETWORK DIAGNOSTICS to bring up the AFC NETWORK DIAGNOSTIC UTILITY window. You may also click the NETWORK DIAGNOSTICS (AFC &

stethoscope) icon to run the utility. If you are connecting to the Phoenix AFC using a serial cable, the AFC NETWORK DIAGNOSTIC UTILITY window should appear almost immediately.

If you are connecting to the Phoenix AFC via modem, a dialing window will appear. Within the dialing window you will see some commands and the phone number appear. You should hear the modem go off-hook and dial. You should hear three or four rings and then a series of squeals. Once the squeals stop, the AFC NETWORK DIAGNOSTIC UTILITY window should appear.

If everything is working correctly, you should see the word TOKEN in the INCOMING AFC NETWORK PACKETS box in the lower left corner of the AFC NETWORK DIAGNOSTIC UTILITY window. In the RELIABILITY STATISTICS section, the value in # OF PACKETS should increase and % ERRORS and # OF ERRORS should remain at zero.

Click the FINISHED button to exit the AFC NETWORK DIAGNOSTIC UTILITY window.

## Troubleshooting

In the event you do not see any network activity in the AFC NETWORK DIAGNOSTIC UTILITY window, you should attempt to determine the cause.

- **Direct Connection**

**A dialing window comes up with a phone number of 1234.**

This indicates the wrong connection type is set up in the SITE CONFIGURATION screen. Verify the CONNECTION TYPE is set to DIRECT.

**The AFC NETWORK DIAGNOSTIC UTILITY window is displayed but there are no INCOMING AFC NETWORK PACKETS.**

This most often means there is no communication between the PC and the AFC. Verify the AFC XMIT and PC RCV lights are blinking on the Printer / PC Adapter. Check to be sure the cable between the PC and the Printer / PC Adapter is connected correctly. The cable used should either be the one provided, or a 25-pin cable purchased locally. There should be no gender changers or adapters used on this cable.

If the Printer / PC Adapter and cable check out, the wrong serial port may be selected in the SITE CONFIGURATION screen. Try selecting another available serial port and run the AFC NETWORK DIAGNOSTIC UTILITY again. If there is still no communication with the Phoenix AFC, you may want to confirm the serial ports are working correctly by using some sort of diagnostic utility and a loopback connector. You may also want to install the software on another PC and connect it to the Printer / PC Adapter in place of the original PC.

**The AFC XMIT and PC RCV lights on the Printer / PC Adapter are on steady or glowing dimly and randomly flashing brighter.**

This indicates there is some sort of noise or interference coming in on the data wire between the Phoenix AFC and the Printer / PC Adapter. These lights should be dark and periodically flash bright -- if they behave differently there is most likely a communication problem between the Printer / PC Adapter and the Phoenix AFC.

Inspect the data wire and verify Belden 8760 or an equivalent two-conductor shielded cable was used and that it is enclosed in a dedicated metal conduit from the pedestal to the building. Verify the ends are terminated per the Diagram N in the back of this manual. If the lights still behave erratically, confirm that the outlets the PC and printer are plugged into are grounded properly and are on the same circuit.

Should these tips fail to eliminate the communication problem, substitute a known good Printer / PC Adapter.

- **Modem Connection**

- Dialing window does not come up.**

- Verify the CONNECTION TYPE is set to MODEM in the SITE CONFIGURATION screen. If the connection type is set to direct, the dialing window will not appear.

- Modem does not dial.**

- When the dialing window comes up you should see the following:

- Initializing modem...  
AT&F  
OK  
ATZ  
OKATDT <phone #>

- If any of the above items are not displayed, the software may not be able to communicate with the modem properly. Verify there are no other serial ports configured to share resources with the port the modem is set to. Under normal circumstances, COM1 and COM3 share resources, and COM2 and COM4 share resources and ports that share resources cannot be accessed at the same time.

- In some cases the modem may fail to dial from the AFC Administrator program, but will function correctly with Dialup Networking or Hyperterminal. The AFC Administrator program talks directly to the modem, while HyperTerminal and Dialup Networking access the modem through the Windows TAPI interface. Some modems may not allow this type of access -- we suggest you contact the modem vendor for clarification.

- "Communication Error, modem not responding. Check Com port selection" Message**

- If the dialing window comes up, but you receive the "Communication Error, modem not responding. Check Com port selection" message, the modem is not responding to the dialing commands being sent by the AFC Administrator software. If you have an external modem, verify it is connected properly and turned on. As the software talks to the modem, you should see the transmit and receive lights on the modem, often labeled RXD and TXD, flash periodically. For all modems, verify the port you selected in the SITE CONFIGURATION screen is the modem.

- If you are using a WinModem or SoftModem, you may run into difficulty using it with the Phoenix AFC software. The AFC Administrator software talks directly to the serial port, and many of these types of modems do not allow you to communicate with them in this

manner. Contact the modem manufacturer for assistance in configuring the modem to work properly.

**Modem dials and I hear ringing, but the Remote Communication Adapter does not answer.**

Verify the phone line is plugged into the correct jack on the Remote Communication Adapter. It must be plugged into the jack labeled LINE. On the pedestal-mounted Remote Communication Adapter, the jack farthest from the power switch is the LINE jack. When the PC is dialing into the Remote Communication Adapter, the RING indicator on the Remote Communication Adapter should light for approximately one second every two seconds.

If the RING indicator does not flash, connect a telephone to the line installed for the Remote Communication Adapter and have someone call the site -- the phone should ring. If the phone does not ring, the circuit may be dead or the phone number you are dialing is incorrect.

Verify the phone number you are dialing is correct. If you have to dial 9 for an outside line, be sure this is included in the phone number entered in the SITE CONFIGURATION screen. If you have Caller ID, have someone connect a telephone to the phone line installed for the Remote Communication Adapter and call you. The phone number should be displayed on the Caller ID box.

If you have confirmed the phone number and the line functions normally, substitute the Remote Communication Adapter with a known good unit.

**Modem dials and connects but there is no INCOMING AFC NETWORK PACKETS.**

This most often means there is no communication between the Remote Communication Adapter and the Phoenix AFC. Review the Remote Communication Adapter instructions and verify it is installed and connected correctly.

When the PC has dialed in and connected to the Remote Communication Adapter and is attempting to communicate, the XMIT and RCV lights should blink periodically. If these lights are not blinking, the Remote Communication Adapter may not be communicating with the Phoenix AFC.

Turn the Phoenix AFC off and back on using the power switch. Wait approximately 30 seconds for the system to reset, then verify the green SEND light on the CPU board is flashing. Turn the Remote Communication Adapter off and back on -- the power light will come on steady and the other lights will blink randomly. Once the unit has reset and is idle, the POWER and DTR lights are on steady.

Try dialing the site again. The RING indicator should flash each time the ring signal is present on the phone line. The Remote Communication Adapter should answer after three to four rings, and you should hear the Remote Communication Adapter negotiate the connection with the modem on the PC. If you do not hear anything, the Remote Communication Adapter may not be answering -- another device may be connected to the same phone line and answering first.

If everything checks out, substitute the Remote Communication Adapter with a known good unit.

## "Could Not Determine Or Incompatible Firmware Version" Message

This message indicates either the EPROM in the Phoenix AFC is not compatible with the software version on the PC, or that communication with the AFC was interrupted while the software was verifying the firmware version.

To find out what firmware revision you have, remove the cover from the Phoenix AFC and locate the EPROM chip on the CPU board -- see Diagram H in the appendix of this manual for the location of the EPROM. You may also power the Phoenix AFC off and back on with the power switch on the power supply board while watching the display -- the firmware version is displayed during the power-up test.

## AFC Configuration

This function allows you to configure various aspects of the Phoenix AFC system, from key/card programming to the message displayed when the system is idle. The AFC CONFIGURATION window has eight configuration forms you can access by clicking the appropriate tab at the top of the window. You can also configure many of these items on-site using the administrator key/card and the quick-reference programming sheet. For simplicity, the configuration forms are listed in the same order as the quick-reference sheet, and the appropriate function codes are listed beside them.

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**NOTE: Any configuration changes made in the AFC Administrator software are not transmitted to the Phoenix AFC automatically. You must click TRANSFER DATA and send the record, table(s), or updates to the Phoenix AFC before they will take effect.**

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Many of the configuration tabs, such as CARDS/KEYS and VEHICLES, access multiple records. On these tabs, there are four buttons at the bottom of the window marked FIRST, PREVIOUS, NEXT and LAST. These buttons are used to move between individual records.

At the top of the AFC Configuration window are three pull-down menus labeled FILE, TRANSFER DATA, and EDIT. These menu items allow you to perform additional functions such as transmitting the configuration information and editing or deleting records. One or more of these functions may be greyed out if they are not used in a particular tab.

The FILE menu allows you to view a list of updated records that need to be transmitted, view a grid listing all of the records for the tab you are on, and exit the configuration window, among other functions.

The TRANSFER DATA menu allows you to send individual records, individual tables, all tables, or updated records to the Phoenix AFC.

The EDIT menu allows you to find a particular record and perform various functions to the current record. Besides being able to search for a particular record, you may edit a record and undo changes before saving the record. You may also insert, delete, or save a record as needed.

On all of the tabs that pertain to system configuration, three additional buttons are at the bottom of the window, labeled EDIT RECORD, SAVE CHANGES, and FINISHED. The EDIT RECORD button allows you to edit the current record that is displayed, just as if you'd gone to EDIT RECORD in the pull-down EDIT menu. The SAVE CHANGES button allows you to save the record after you have done your editing. The FINISHED button takes you back to the main AFC Administrator window, just as if you go to EXIT TO MAIN MENU in the FILE menu.

If you have made changes and click FINISHED without transmitting the changes to the Phoenix AFC, you will be reminded that the changes have not been transmitted to the Phoenix AFC. Click YES to exit anyway or NO if you wish to go back to the configuration window and transmit the information.

## General Configuration Table

This table allows you to configure some of the general features of the Phoenix AFC including security features. For more information about any of these features, please refer to the discussions with the function codes in the AFC System Programming section of this manual.

### Site Number

Identification number for the physical site where one or more Phoenix AFC units are installed. This is used to help a customer with multiple fueling sites identify which site a transaction is from. For a single site, 001 is recommended. When using multiple sites, no two sites should have the same site number. To change this setting, click on the box and type the appropriate value.

### Unit Number

Identification number for a specific unit at a physical site with more than one Phoenix AFC unit installed. It is recommended that the master unit be given the unit number of 01 and satellite units be given 02 and up. Sites with a single Phoenix AFC should set the unit number to 01. To change this setting, click on the box and type the appropriate value.

### Transaction Number

Sets the starting transaction number. Valid values are 0001 to 9999. When the configuration information is sent to the Phoenix AFC, the next transaction that occurs will begin with this number. This would most likely be used if you wanted to reset the transaction number to a given value at the beginning of the week or month. To change this setting, click on the box and type the appropriate value.

If you never change this value, transactions will go from 9999 to 0001 and through the whole cycle again.

### Transmit Transaction Number

If this box is checked, the starting transaction number specified in the Transaction Number box will be transmitted to the Phoenix AFC when the configuration data is sent to it. To have the transaction number transmitted, click on the Transmit Transaction Number box. A check mark will appear indicating the transaction number will be transmitted when the configuration data is sent.

### Activation Time

This determines the time the Phoenix AFC will begin accepting fueling transactions for all users. Valid values are in military time, with a range of 00:00 (midnight) to 23:59 (11:59 PM). This setting is used to limit the hours of the day fueling is allowed. To allow fueling 24 hours a day, set the activation and deactivation times to 00:00. To change this setting, click on the box and type the appropriate value.

### **Deactivation Time**

This determines the time the Phoenix AFC will refuse fueling transactions for all users. Valid values are in military time, with a range of 00:00 (midnight) to 23:59 (11:59 PM). This is used to limit the hours of the day fueling is allowed. To allow fueling 24 hours a day, set the activation and deactivation times to 00:00. To change this setting, click on the box and type the appropriate value.

### **Shift 1, 2, 3, 4 Start Time**

These set the starting times for the first, second, third, and fourth work shifts. Valid values are in military time, with a range of 00:00 (12 midnight) to 23:59 (11:59 PM). These values are part of the shift totalizer feature, which determines fuel usage by shift. Set all shift times to 00:00 if you do not wish to use the shift totalizer feature. To change this setting, click on the box and type the appropriate value. Shifts cannot overlap.

### **Idle Prompt**

This feature sets the message displayed when the Phoenix AFC system is idle and accepting transactions. This message is limited to four lines of 20 characters each. Typical messages include "Insert Card to Fuel..." "Welcome to Bubba's Quik-Stop..." "Thank you for using Farmers Fuel..." or "County Fuel Site, Authorized Users Only." To change this setting, click on the box and type the appropriate value. Use spaces before and after the text if you wish to center the message.

### **System ID Number Starting Location**

This setting determines the starting position for the system ID on non-standard cards. This feature is included in the event third-party fuel cards such as Comm-Chek will be used in addition to the standard Phoenix cards. It should not be changed if the system is using only the standard Phoenix AFC cards. The value 00 is used for standard Phoenix AFC cards. To change this setting, click on the box and type the appropriate value.

To obtain information about how to configure your system for third-party cards, you should contact the Tuthill Transfer Systems Technical Support department and arrange to send some sample cards in to be decoded. You should send a minimum of four cards; sending additional cards makes the decoding process easier.

### **Card Number Starting Location**

This setting determines the starting position for the card number on non-standard cards. This feature is used for third-party fuel cards such as Comm-Chek. It should not be changed if the system is using the standard Phoenix AFC cards. The value 00 is used for standard Phoenix AFC cards. To change this setting, click on the box and type the appropriate value.

To obtain information on how to configure your system for third-party cards, you should contact the Tuthill Transfer Systems Technical Support department and arrange to send some sample cards in to be decoded. You should send a minimum of four cards; sending additional cards makes the decoding process easier.

## **Secondary System ID Number**

This setting determines the secondary system ID number when using non-standard cards. This feature is used for third-party fuel cards such as Comm-Chek. It should not be changed if the system is using the standard Phoenix AFC cards. The value 0000 is used for standard Phoenix AFC cards. To change this setting, click on the box and type the appropriate value.

To obtain information about how to configure your system for third-party cards, you should contact the Tuthill Transfer Systems Technical Support department and arrange to send some sample cards in to be decoded. You should send a minimum of four cards; sending additional cards makes the decoding process easier.

## **Driver/Vehicle Entry Tries**

This setting determines the number of times input of an incorrect driver or vehicle number can be attempted before the system assumes an unauthorized user is attempting to fuel. To change this setting, click on the box and type the appropriate value.

## **Entry Result**

This value determines what happens when the number of tries for the driver or vehicle number is exceeded. A value of 1 allows fueling to occur, a value of 2 does not allow fueling to occur, and a value of 3 does not allow fueling to occur and invalidates the card for any subsequent fueling transactions. To change this setting, use the pull-down menu. If the card is invalidated, the system administrator must re-validate the card before it can be used again.

## **Prompt Timeout**

This value determines the number of seconds the system waits for you to input data and press the enter key at each prompt. This setting can be from 5 to 60 seconds. This value should be set to the shortest time needed so you cannot accidentally walk away from the system and leave sensitive information visible on the display. On new systems it may be advisable to use the maximum setting until users are familiar with how to input the required information. To change this setting, click on the box and type the appropriate value.

## **Driver or Vehicle Allocation**

This feature determines whether the amount of fuel dispensed is deducted from the driver's department or the vehicle's department. This feature is valid only if departments have been allocated a specific amount of fuel to use. A value of 1 allows fuel to be subtracted from the vehicle's department, and a value of 2 allows fuel to be subtracted from the driver's department. To change this setting, use the pull-down menu.

## **Allow Inter-Department Fueling**

This setting determines whether drivers from one department may fuel vehicles from another department. If the box is checked, a driver may fuel a vehicle from another department – if the box is unchecked, a driver is prohibited from fueling vehicles from another department. To change this setting, click on the box. A check mark indicates that inter-department fueling is allowed.

### **Date Suppression**

Turns on/off printing of the transaction date on the journal printer. The date is still recorded and is available in reports. To suppress printing the date, click on the box. A check mark will appear indicating the date will be suppressed. The date will appear as xx/xx/xxxx.

### **Time Suppression**

Turns on/off printing of the transaction time on the journal printer. Time is still recorded and is available in reports. To suppress printing the time, click on the box. A check mark will appear indicating the time will be suppressed. The time format will appear as xx:xx.

### **Price Suppression**

Turns on/off printing of the transaction fuel price on the journal printer. The fuel price is still recorded and is available in reports. To suppress printing the fuel price, click on the box. A check mark will appear indicating the fuel will be suppressed. The price will appear as xxx.xx.

### **Reset Transaction Number At Midnight**

This setting determines whether the transaction number is set back to 0001 at midnight. If the box is checked, the system will reset the transaction number to 0001 at midnight; if the box is unchecked, the transaction number is not reset. To change this setting, click on the box.

### **Driver Entry On Keypad Transactions**

This setting determines whether the driver is prompted for a driver number entry when the system is being operated keyless or cardless. If the box is checked, the system will prompt the driver for a driver number; if the box is unchecked, the driver is not prompted for a driver number. To change this setting, click on the box.

## **Cards/Keys Table**

This table lets you specify information about vehicle or driver cards/keys, such as the vehicle or driver number and the card/key expiration date. You may also search for, add, or delete specific keys using the pull-down menus at the top of the window.

To locate a specific card/key, click on the menu item labeled EDIT and click FIND RECORD. You will be prompted for the card number you wish to find. Type in the card/key number, and click OK. Click CANCEL to abort the search. If the card/key does not exist, a message will advise you the card/key was not found.

To add a card/key, click on the menu item labeled EDIT and click INSERT NEW RECORD(S). You will be prompted for the card number you wish to insert. Type the card/key number, and click OK. The Phoenix AFC will work with cards from 0001 to 7999 and keys from 0001 to 9999. If the card/key you are adding already exists, you will be warned and prompted to enter another.

In the INSERT NEW RECORD(S) option, by clicking the box labeled Insert Block of Records, you can add multiple records beginning and ending with the numbers you indicate. However, we caution you against creating a large number of records that will not be used immediately, as they may slow down the system.

Click CANCEL to exit without adding a record. Once you add the card/key number to the database the card/key record will be displayed.

To delete a specific card/key, use EDIT and FIND RECORD to display the card/key record, and click on the menu item labeled EDIT and click DELETE CURRENT RECORD. You will be prompted to confirm the deletion by clicking YES. Click NO if you do not wish to delete this record. You must also TRANSMIT UPDATES TO AFC to complete the deletion process.

### **Card/Key Number**

This is the card or key number programmed onto the card/key and may also be the card number embossed on the card or the key number label on the key tag. The card number does not need to match the vehicle number or the driver number. The number displayed in the box is the current card or key this form will modify.

### **Card/Key Type**

This setting tells the Phoenix AFC system whether the card/key is assigned to a vehicle or a driver. To change the card/key type, click the down arrow next to the Card/Key Type window and click the appropriate type from the list:

- 1, Vehicle Card/Key – This card/key is assigned to a specific vehicle number.
- 2, Driver Card/Key – This card/key is assigned to a specific driver number.

### **Vehicle/Driver Number (Primary Number)**

This field assigns a specific vehicle or driver number to the card/key number. The name and function of this field varies according to the card/key type selected. For vehicle cards or keys, this field identifies the vehicle that the card or key is assigned to. For driver cards or keys, this field identifies the driver that the card or key is assigned to. It will be labeled Vehicle Number for Type 1 cards/keys and Driver Number for Type 2 cards/keys.

This field is a pull-down menu. Clicking on the down arrow at the right of the field brings down a list of available vehicles (for card/key Type 1) or drivers (for card/key Type 2). These menu choices are read from the vehicle and driver tables. If you want to use a vehicle or driver number that does not appear in the list, simply type it into the field using the numeric keypad. For small values, the leading 0's may be omitted – 1 can be typed in for 0000000001 and 123 can be keyed in for 0000000123. Note that if the vehicle or driver number does not appear in the list, it has not been added to the vehicle or driver table respectively.

To change this value, click on the box labeled Vehicle Number or Driver Number and type in the appropriate value, or use the pull-down menu.

### **Driver/Vehicle Numbers (Secondary Numbers)**

Three fields hold the secondary numbers. For a vehicle card or key, these fields represent the driver numbers that are allowed to use the vehicle. For driver cards or keys, these fields represent the vehicles the driver may use. In the AFC Administrator program, setting the Card/Key type to vehicle (Type 1) causes the labels of the secondary numbers to read Driver Number. Likewise, setting the Card/Key type to driver (Type 2) causes the secondary number to read Vehicle Number. The secondary field's function depends on the setting of

Card/Key type.

These fields are pulldown menus. Clicking on the down arrow at the right of the field brings down a list of available vehicles (for card/key Type 1) or drivers (for card/key Type 2). These fields are read from the vehicle or driver tables. If you want to use a vehicle or driver number that does not appear in the list, simply type it into the field using the numeric keypad. Note that if the vehicle or driver number does not appear in the list, it has not been added to the vehicle or driver table, respectively.

If the card or key is a vehicle type, then the AFC system will prompt the operator for a driver number only if a driver number is entered in any one of the three secondary fields. If all three secondary fields are set to 0, then the system will not prompt for a driver number.

If the card or key is a driver type, the AFC system will always prompt the operator for a vehicle number. The AFC system must have a vehicle number to perform a transaction. This is because the vehicle references the vehicle class record, which in turn references a valid fuel type for the transaction. If all three secondary fields are set to 0, then the vehicle will operate only if the vehicle used is set to global, or if the driver number used is set to global. Refer to the vehicle and driver record descriptions below for information about global settings.

The range for this entry is 0 to 4,294,967,295. It is not necessary to enter the leading zeroes; the program will automatically format the entries.

### **Expiration Date**

This value sets the expiration date for this specific card or key. Any fueling attempts occurring after this date will fail. To change the expiration date, key in the new date in MM/DD/YY format. If the date is specified as 00/00/00, the card/key will never expire.

## **Vehicles Table**

This table lets you specify information about vehicles, such as the vehicle class, odometer reading or vehicle department number. You may also search for, add, or delete specific vehicles.

To locate a specific vehicle, click on the menu item labeled EDIT and click FIND RECORD. You will be prompted for the vehicle number you wish to find. Type in the vehicle number and click OK. Click CANCEL to abort the search. If the vehicle does not exist, a message will advise you the vehicle was not found.

To add a vehicle, click on the menu item labeled EDIT and click INSERT NEW RECORD. You will be prompted for the vehicle number you wish to insert – type the vehicle number and click OK. Vehicle numbers can be from 1 to 4,294,967,295. If the vehicle you are adding already exists, you will be warned and prompted to enter another.

In the INSERT NEW RECORD(S) option, by clicking the box labeled Insert Block of Records, you can add multiple records beginning and ending with the numbers you indicate. However, we caution you against creating a large number of records that will not be used immediately, as they may slow down the system.

Click CANCEL to exit without adding a record. Once you add the vehicle number to the database, the vehicle record will be displayed.

To delete a specific vehicle, use EDIT and FIND RECORD to display the vehicle record and click on the menu item labeled EDIT and click DELETE CURRENT RECORD. You will be prompted to confirm the deletion by clicking YES. Click NO if you do not wish to delete this record. You must also TRANSMIT UPDATES TO AFC to complete the deletion process.

### **Vehicle Number**

This is the vehicle number attached to the information currently displayed on this form.

### **Vehicle Class**

This field defines the vehicle class for each vehicle. This is used to group vehicles by type, such as delivery trucks, forklifts or sales cars. The value for vehicle class is 001 to 255. To change the vehicle class, click the box labeled Vehicle Class and key in the appropriate value, or select from the pull-down menu. The pull-down menu contains vehicle class choices from the vehicle class table.

### **Previous Odometer**

This box displays the latest odometer reading for this vehicle. If the odometer reading is required to fuel a vehicle and this vehicle has been fueled previously, this value will be the latest odometer reading entered. If the vehicle has just been added, it will be all zeros; you should change this to reflect the current odometer reading for this vehicle.

In AFC firmware versions 1.5 and later, if mileage reasonability is required in the vehicle class and the vehicle's previous odometer field is zero, then the mileage entry made by the operator will be accepted and stored as the previous mileage.

To change the previous odometer reading, click the box labeled Previous Odometer. Key in the appropriate odometer reading for this vehicle. The valid range for an odometer reading is 0 to 4,294,967,295.

### **Transmit Previous Odometer**

If this box is checked, the Previous Odometer data will be transmitted to the AFC when you perform one of the transmit functions. This information is not automatically transmitted from the AFC to the PC. When a transaction is performed, you will need to transfer the data back to the PC to maintain the current values.

### **Maintenance Odometer**

This box displays the next maintenance odometer reading for this vehicle. This reading shows when the next service is due on this vehicle. If the vehicle has just been added, it will be all zeros; you should change this to reflect the odometer setting of the vehicle when the next preventive maintenance is required.

To change the maintenance odometer reading, click the box labeled Maintenance Odometer and key in the appropriate odometer reading for this vehicle. The valid range for an odometer reading is 0 to 4,294,967,295.

### **Department**

This value identifies the particular department this vehicle belongs to. The department number should be previously defined in the DEPARTMENTS/ACCOUNTS table. This feature

allows vehicles to be grouped so items such as fuel usage can be measured on a department basis. Vehicles that have been entered previously may already have a department number entered. New vehicles will have a department number of 000.

To change the department number, click on the box labeled Department and key in the appropriate department number for this vehicle (delete contents first), or select one from the pull-down menu. The department choices in the menu are filled from the department table. Valid department numbers range from 000 to 255.

### **Global Vehicle**

This item determines whether any driver can fuel this vehicle. The global setting removes the vehicle to driver restrictions imposed by the card table. Global vehicles are still subject to department restrictions. This option would commonly be used for a general-purpose vehicle that is available to many or all drivers. To make a vehicle global, click on the box labeled Global Vehicle. A check will appear in the box, indicating the vehicle is now global.

### **Keypad Entry Allowed**

If a driver card or key is entered, the system will then allow a vehicle card or key to be inserted or a vehicle number to be entered on the keypad. If the operator enters the vehicle number on the keypad, the Keypad Entry Allowed option must be set. If it is not set, the operator will receive an error and will not be able to fuel. This allows the AFC administrator to restrict some vehicles to a two-card or key operation only. This feature also allows the keypad-only mode.

### **Description**

This field allows you to enter a description of the vehicle, such as the make, model, color or type of vehicle. The description is limited to 50 characters total; letters and numbers are allowed. To input the description, click the box labeled Description, and enter the appropriate text.

## **Drivers Table**

This table lets you specify information about drivers, such as their department number and security number. You may also search for, add, or delete specific drivers.

To locate a specific driver, click on the menu item labeled EDIT and click FIND RECORD. You will be prompted for the driver number you wish to find. Type in the driver number and click OK. Click CANCEL to abort the search. If the driver does not exist, a message will advise you the driver was not found.

To add a driver, click on the menu item labeled EDIT and click INSERT NEW RECORD. You will be prompted for the driver number you wish to insert. Type the driver number, and click OK. Driver numbers can be from 1 to 4,294,967,295. If the driver you are adding already exists, you will be warned and prompted to enter another.

In the INSERT NEW RECORD(S) option, by clicking the box labeled Insert Block of Records, you can add multiple records beginning and ending with the numbers you indicate. However, we caution you against creating a large number of records that will not be used immediately, as they may slow down the system.

Click CANCEL to exit without adding a record. Once you add the driver number to the database, the vehicle record will be displayed.

To delete a specific driver, use EDIT and FIND RECORD to display the driver record; click on the menu item labeled EDIT and click DELETE CURRENT RECORD. You will be prompted to confirm the deletion by clicking YES. Click NO if you do not wish to delete this record. You must also TRANSMIT UPDATES TO AFC to complete the deletion process.

### **Driver Number**

This is the driver number attached to the information currently displayed on this form.

### **Department**

This field identifies the driver's department and should be defined in the DEPARTMENT tab. Departments are used to group vehicles by user type or division. Valid department numbers range from 0 to 255. To change the department number, click the box labeled Department, and key in the appropriate value, or use the pull-down menu.

### **Security Number**

This value represents a security number that can be used in addition to a driver card to help prevent unauthorized access; this is similar to the PIN used with an ATM card. If a driver has a security number, he must enter it before fueling is allowed. The security number can be 0001 to 9998. A security number of 0000 disables this feature. To change the security number, click the box labeled Security Number, and key in the appropriate value.

The transmit box next to the Security Number box must be checked for the security number to be sent to the Phoenix AFC when this record or the complete table is transmitted. Any changes to the security number are not transmitted unless this box is checked. This information is not automatically transmitted from the AFC to the PC. When a transaction is performed, you will need to transfer the data back to the PC to maintain the current values.

AFC firmware versions 1.5 and later will display asterisks in place of numbers when the security number is entered. In addition, if the security number is initially set to 9999 the system will prompt the driver to enter a new security number. It will then verify this new security number by prompting for it again. If the two numbers entered are the same, this number will be saved as the new security number for this driver. This feature allows the drivers to select their own security numbers without having the AFC administrator program each one into the system.

### **Global Driver**

This item determines whether this driver is able to fuel any vehicle. The global setting removes the vehicle-to-driver restrictions imposed by the card table. Global drivers are still subject to department restrictions. This option would commonly be used for a supervisor who is allowed to fuel any vehicle. To make a driver global, click on the box labeled Global Driver; a check will appear in the box, indicating the driver is now global.

### **Keypad Entry Allowed**

If a vehicle card or key is entered, the system will then allow a vehicle card or key to be inserted or a driver number to be entered on the keypad. If the operator enters the driver

number on the keypad, the Keypad Entry Allowed option must be set for the transaction to succeed. If it is not set, the operator will receive an error and will not be able to fuel. This feature allows the AFC administrator to restrict some drivers to a two-card or key operation only. This feature is also used in the keypad only mode. To enable this feature, click on the box labeled Keypad Entry Allowed; a check will appear in the box, indicating the driver may be keypad entered.

### **Description**

This field allows you to enter a description of the driver, such as job position or name. The description is limited to 50 characters total; letters and numbers are allowed. To input the description, click the box labeled Description and enter the appropriate text.

## **Vehicle Classes Table**

This table lets you specify information about vehicle classes, such as when these vehicles are allowed to fuel and what type of fuel they can use. You may also search for, add, or delete specific vehicle classes.

To locate a specific vehicle class, click on the menu item labeled EDIT and click FIND RECORD. You will be prompted for the vehicle class number you wish to find; type in the vehicle class number, and click OK. Click CANCEL to abort the search. If the vehicle class does not exist, a message will advise you the vehicle class was not found.

To add a vehicle class, click on the menu item labeled EDIT and click INSERT NEW RECORD. You will be prompted for the vehicle class number you wish to insert. Type the vehicle class number, and click OK. Vehicle class numbers can be from 001 to 255. If the vehicle class you are adding already exists, you will be warned and prompted to enter another.

In the INSERT NEW RECORD(S) option, by clicking the box labeled Insert Block of Records, you can add multiple records beginning and ending with the numbers you indicate. However, we caution you against creating a large number of records that will not be used immediately, as they may slow down the system.

Click CANCEL to exit without adding a record. Once you add the vehicle class number to the database the vehicle class record will be displayed.

To delete a specific vehicle class, use EDIT and FIND RECORD to display the vehicle class record; click on the menu item labeled EDIT, and click DELETE CURRENT RECORD. You will be prompted to confirm the deletion by clicking YES. Click NO if you do not wish to delete this record. You must also TRANSMIT UPDATES TO AFC to complete the deletion process.

### **Vehicle Class Number**

This is the vehicle class number attached to the information currently displayed on this form.

### **Class Start Time**

This determines the time the Phoenix AFC will begin accepting fueling transactions for this vehicle class. Valid values are in military time, with a range of 00:00 (midnight) to 23:59

(11:59 PM). This is used to limit the hours of the day fueling is allowed. To allow fueling 24 hours a day, set the start and end times to 00:00. To change this setting, click on the box and type the appropriate value.

### **Class End Time**

This determines the time the Phoenix AFC will refuse fueling transactions for this vehicle class. Valid values are in military time, with a range of 00:00 (midnight) to 23:59 (11:59 PM). This is used to limit the hours of the day fueling is allowed. To allow fueling 24 hours a day, set the start and end times to 00:00. To change this setting, click on the box and type the appropriate value.

### **Expiration Date**

This value sets the expiration date for this specific vehicle class. Any fueling attempts occurring after this date will not be allowed. To change the expiration date, click on the box labeled Expiration Date and key in the new date in MM/DD/YY format. If the date is specified as 00/00/00, the vehicle class will never expire.

If a class expires, keys will not work to obtain fuel for that class, but the class information will remain stored.

### **Maximum Fuel**

This setting determines the maximum quantity of fuel a vehicle of this class may obtain per transaction. This limit is typically set to allow the vehicle with the largest fuel capacity in its class to refuel completely from an empty tank. If the maximum fuel value is 0000, there is no limit on the fuel that can be dispensed during one transaction unless it is limited by fueling position settings or a low fuel tank level.

The maximum fuel setting range is 0000 to 9999. On a system measuring gallons, this value would be in whole gallons (metric measurement would be in whole liters). To change the maximum fuel value, click on the box labeled Maximum Fuel and key in the appropriate value.

### **Odometer Low**

This value determines the minimum distance a vehicle belonging to this class must travel before it is allowed to fuel. The minimum distance is calculated by subtracting a vehicle's previous odometer reading from the vehicle's current odometer reading. If the result is less than the odometer low setting, fueling is not permitted. If the odometer prompt is turned off or the odometer low and odometer high settings are both set to 0000, mileage is not checked.

The odometer low setting range is 0000 to 9999. For U.S. measurements, this value would be miles (for metric measurements, this setting would be in kilometers). To change the odometer low value, click on the box labeled Odometer Low and key in the appropriate figure.

### **Odometer High**

This value determines the maximum distance a vehicle belonging to this class can travel and still be allowed to fuel. The maximum distance is calculated by subtracting a vehicle's previous odometer reading from the vehicle's current odometer reading. If the result is

greater than the odometer high setting, fueling is not permitted. If the odometer prompt is turned off, or the odometer low and odometer high settings are both set to 0000, mileage is not checked.

The odometer high setting range is 0000 to 9999. For US measurements, this value would be miles, and for metric measurements, this setting would be in kilometers. To change the odometer high value, click on the box labeled "Odometer High" and key in the appropriate figure.

### **Odometer Retries**

This setting determines the number of times input of an odometer reading may be attempted before the system will disable fueling for a vehicle in this vehicle class. When you enter an odometer reading, the Phoenix AFC verifies the value is reasonable by comparing it to the previous odometer reading for the vehicle. If the odometer reading is not reasonable, the system informs you to re-enter the odometer reading.

The odometer retries value can be 0 to 9. To change the odometer retries value, click on the box labeled Odometer Retries and key in the appropriate value.

### **Odometer Pass/Fail**

This value determines what will occur if you have exceeded the number of retries for entering a reasonable odometer reading. If 0 is selected, fueling is not allowed; if 1 is selected, you may continue to fuel. To change this setting, click the down-arrow next to the window labeled Odometer Pass/Fail. A list will appear with the available settings. Click on the desired setting, and it will appear in the box.

### **Maintenance Warning**

This defines the number of miles before the vehicle's maintenance mileage setting that a warning message will be given. To set the maintenance warning, enter a number up to four digits.

### **Maintenance Pass/Fail**

This defines whether fueling is allowed if a vehicle goes beyond its maintenance interval. To change this setting, select Pass or Fail from the pull-down menu.

### **Odometer Entry Prompt**

This box contains the text that will appear on the Phoenix AFC display when any vehicle in this class is prompted to enter an odometer reading. This message can be used to ask for mileage, hours, or any other primary means of determining vehicle usage. For road vehicles, mileage is appropriate, while hours is typically used for farm or industrial equipment.

This message may be 1 to 20 characters long and may include letters and numbers. To change the message, click on the box labeled Odometer Entry Prompt and key in the appropriate message.

### **Tax Status**

This setting determines whether fuel dispensed to this vehicle is taxed. This feature is necessary because some states tax over-the-road fuels but do not tax fuel for farm use. To

change the selection, click on the arrow at the right of the field and select a choice from the pull-down menu. 0 selects non taxable, 1 selects taxable, and 2 selects prompt, which will allow the operator to select a taxable or non-taxable transaction at the time of authorization.

### **Fuel Type 1, 2, and 3**

These fields are used to define the types of fuel a member of the vehicle class may obtain. Up to three fuel types may be obtained by a vehicle belonging to this vehicle class. It is also possible, though not advisable, to allow a vehicle class to use all fuel types.

To allow this vehicle class to use all fuel types, enter 255 for fuel type 1 and leave fuel type 2 and 3 set to 000.

The range for fuel types is 000 to 255, but the value should relate to a fuel type defined in the FUELTYPES tab. To change any of the fuel types, click on one of the fuel type boxes and key in the appropriate value, or select a choice from the pull-down menu.

### **Odometer Prompt On**

This setting determines whether you will be prompted for an odometer reading during a fueling transaction. If this feature is turned off, any odometer-related settings for this vehicle class are disabled. To turn the odometer prompt on, click on the box labeled Odometer Prompt On. A check will appear in the box, indicating the odometer reading is required to fuel.

### **Miscellaneous Prompt On**

This setting determines whether you will be prompted for a miscellaneous (user-defined) entry during a fueling transaction. Typical uses are an hour-meter reading or a job number. If this feature is turned off, no entry is required. If the feature is turned on, the user will be prompted for a miscellaneous entry; however, the user may press the enter key to skip over this prompt. This entry is considered optional unless the force miscellaneous digits setting is enabled.

To turn the miscellaneous prompt on, click on the box labeled Misc Prompt On. A check will appear in the box, indicating you will be prompted for a miscellaneous entry during the fueling process.

### **Force Miscellaneous Digits**

This value sets the minimum number of digits that must be entered when you are prompted for a miscellaneous entry during the fueling process. A value of 00 means there is no minimum number of digits that must be entered. If the value is greater than 00, the user cannot fuel unless at least that number of digits is entered.

The range of values for force miscellaneous digits is 00 to 10. To change the force miscellaneous digits value, click on the box labeled Force Misc. Digits and key in the appropriate value.

### **Miscellaneous Entry Prompt**

This field contains the text that is shown on the Phoenix AFC display when any vehicle in this class is prompted to enter a miscellaneous reading. This message can be used to ask

for mileage, hours, or any other secondary means of determining vehicle usage. This may include hour-meter readings on refrigeration equipment or hub-meter readings.

This message may be 1 to 20 characters long and may include letters and numbers. To change the message, click on the box labeled Misc. Entry Prompt and key in the appropriate message.

### **Description**

This field is used to describe the vehicles belonging to this class. Examples include forklifts, sales fleet, and delivery trucks. This message may be 1 to 50 characters and may include letters and numbers. To change the message, click on the box labeled Description and key in the appropriate message.

## **Departments/Accounts Table**

This table lets you specify information about departments, such as how much fuel vehicles or drivers belonging to them may use and what type of discount is given for the fuel. You may also search for, add or delete specific departments.

To locate a specific department, click on the menu item labeled EDIT and click FIND RECORD. You will be prompted for the department number you wish to find. Type in the department number, and click OK. Click CANCEL to abort the search. If the department number does not exist, a message will advise you the department number was not found.

To add a department, click on the menu item labeled EDIT and click INSERT NEW RECORD(S). You will be prompted for the department number you wish to insert. Type the department number, and click OK. Department numbers can be from 001 to 255. If the department number you are adding already exists, you will be warned and prompted to enter another.

In the INSERT NEW RECORD(S) option, by clicking the box labeled Insert Block of Records, you can add multiple records beginning and ending with the numbers you indicate. However, we caution you against creating a large number of records that will not be used immediately, as they may slow down the system.

Click CANCEL to exit without adding a record. Once you add the department number to the database the department record will be displayed.

To delete a specific department, use the menu option EDIT/FIND RECORD to display the department record and click on the menu item labeled EDIT/DELETE CURRENT RECORD. You will be prompted to confirm the deletion by clicking YES. Click NO if you do not wish to delete this record. You must also TRANSMIT UPDATES TO AFC to complete the deletion process.

### **Department/Account Number**

This is the department or account number attached to the information that is currently displayed.

## **Totalizer**

The value in this box represents the total amount of fuel used by drivers and vehicles belonging to this department. You may view, modify, or reset this value as needed. However, the new value is not transmitted to the Phoenix AFC unless the TRANSMIT box is checked.

The range of values for the totalizer is 0 to 4,294,967,295. To change the totalizer value, click on the box labeled Totalizer and key in the appropriate value. To have the totalizer information sent to the Phoenix AFC, click on the box labeled Transmit. A check will appear in the box indicating the totalizer information will be sent to the Phoenix AFC when this record or all records are transmitted. This information is not automatically transmitted from the AFC to the PC. When a transaction is performed, you will need to transfer the data back to the PC to maintain the current values.

## **Department Discount**

This field defines the pre-tax discount, in dollars and cents that the department receives on fuel. The range of values for department discount is 0.000 to 9.999. To change the dept discount value, click on the box labeled Dept. Discount and key in the appropriate value.

## **Allocation On**

This setting determines whether the department will be allocated a specified amount of fuel to use. If this feature is turned on, vehicles and drivers belonging to this department will not be allowed to fuel once they use up the allocated amount.

To enable this feature, click on the box labeled Allocation On. A check will appear in the box, indicating the department will be limited to the fuel specified in the allocation amount box.

## **Allocation Amount**

The value contained in this box indicates the amount of fuel allocated to this department. Once this quantity or money amount of fuel is used, fueling will be denied for all vehicles and drivers in this department.

The range of values for the allocation amount is 00000.00 to 99999.99. This may be in dollars or gallons depending on how the fuel is allocated. To change the allocation amount, click on the box labeled Allocation Amount and key in the appropriate value.

## **Allocation By**

This setting determines how the allocated fuel is measured. Departments may be allocated fuel by a quantity or by a dollar amount. A value of 0 sets the allocation to whole gallons, while a value of 1 specifies whole dollars.

To change this setting, click the down arrow next to the window labeled Allocation By. A list will appear with the available settings. Click on the desired setting and it will appear in the box.

## **Expiration Date (MM/DD/YY)**

This value sets the expiration date for this department. Any fueling attempts occurring after this date will not be allowed. To change the expiration date, click on the box labeled

Expiration Date and key in the new date in MM/DD/YY format. If the date is specified as 00/00/00, the department will never expire.

### **Description**

This field allows you to enter a description of the department, such as the warehouse, delivery or sales. The description is limited to 50 characters total; letters and numbers are allowed. To input the description, click the box labeled Description and enter the appropriate text.

## **Fuel Types Table**

This table lets you specify information about fuel types, such as the price per whole unit of measure and the total amount of fuel that has been dispensed. You may also search for, add or delete specific fuel types.

To locate a specific fuel type, click on the menu item labeled EDIT and click FIND RECORD. You will be prompted for the fuel type you wish to find. Type in the fuel type number, and click OK. Click CANCEL to abort the search. If the fuel type number does not exist, a message will advise you the fuel type number was not found.

To add a fuel type, click on the menu item labeled EDIT and click INSERT NEW RECORD. You will be prompted for the fuel type number you wish to insert. Type the fuel type number and click OK. Fuel type numbers can be from 001 to 255. If the fuel type number you are adding already exists, you will be warned and prompted to enter another.

In the INSERT NEW RECORD(S) option, by clicking the box labeled Insert Block of Records, you can add multiple records beginning and ending with the numbers you indicate. However, we caution you against creating a large number of records that will not be used immediately, as they may slow down the system.

Click CANCEL to exit without adding a record. Once you add the department number to the database the fuel type record will be displayed.

To delete a specific fuel type, use the menu option EDIT/FIND RECORD to display the fuel-type record and click on the menu item labeled EDIT/DELETE CURRENT RECORD. You will be prompted to confirm the deletion by clicking YES. Click NO if you do not wish to delete this record. You must also TRANSMIT UPDATES TO AFC to complete the deletion process.

### **Fueltype**

This is the fuel-type number attached to the information currently displayed on this form.

### **Active**

This setting determines whether this fuel type is active. If a fuel type is not active, you may not obtain this fuel. This feature is useful if you want to disable a specific fuel type during certain times of the year or while the tank is being filled or serviced. To make a fuel type active, click on the box labeled Active. A check will appear in the box, indicating the fuel type is active.

### **Unit Price (Without Tax)**

This field sets the price of the fuel per unit. Fuel prices are used by fueling sites that are dispensing fuel in a retail environment or budgeting fuel by a monetary amount. This price should not include any per-unit taxes; there is a separate field for taxes per unit.

The range of values for the unit price is 00.000 to 65.535. This may be expressed as dollars or other currencies in the price format. To change the unit price, click on the box labeled Unit Price and key in the appropriate value.

### **Unit Tax**

This field sets the fuel excise tax in whole units. Fuel taxes are used by fueling sites that are dispensing fuel in a retail environment or budgeting fuel by a monetary amount. This value shows any per-unit taxes; it is not used for sales tax that is calculated on a per-dollar basis. If the vehicle class used is set to non-taxable, then this tax field is not added to the sale price of the fuel.

The range of values for the unit tax is 00.000 to 65.535. This may be in dollars or other currencies fitting the price format. To change the unit tax, click on the box labeled Unit Tax and key in the appropriate value.

### **Fueltype Totalizer**

The value in this box represents the total amount of this fuel type used. You may view, modify, or reset this value as needed. However, the new value is not transmitted to the Phoenix AFC unless the Transmit box is checked.

The range of values for the totalizer is 0 to 4,294,967,296. To change the totalizer value, click on the box labeled Totalizer and key in the appropriate value. To have the totalizer information sent to the Phoenix AFC, click on the box labeled Transmit. A check will appear in the box, indicating the totalizer information will be sent to the Phoenix AFC when the records are transmitted. This information is not automatically transmitted from the AFC to the PC. When a transaction is performed, you will need to transfer the data back to the PC to maintain the current values.

### **Description**

This field allows you to enter a description of the fuel type, such as the type (gasoline) and the grade (super). The description is limited to 50 characters; letters and numbers are allowed. To input the description, click the box labeled Description, and enter the appropriate text.

### **Shift 1, 2, 3, and 4 Totalizers**

The values in these boxes represent the total amount of this fuel type used during a particular shift. You may view, modify, or reset these values as needed. However, the new values are not transmitted to the Phoenix AFC unless the Transmit box is checked. Shift times must be specified in the GENERAL CONFIGURATION table before this feature will function.

The range of values for the totalizer is 0 to 4,294,967,295. To change the totalizer value, click on the box labeled, for example, Shift 1 Totalizer, and key in the appropriate value. To have the totalizer information sent to the Phoenix AFC, click on the box labeled Transmit. A

check will appear in the box, indicating the totalizer information will be sent to the Phoenix AFC when the records are transmitted. This information is not automatically transmitted from the AFC to the PC. When a transaction is performed, you will need to transfer the data back to the PC to maintain the current values.

### **Current Tank Quantity**

This field indicates the current tank level in whole units for this fuel type. You may view, modify or reset this value as needed. However, the new value is not transmitted to the Phoenix AFC unless the Transmit box is checked.

When the Phoenix AFC is initially installed, the tanks should be gauged and their current levels recorded in this field for the appropriate fuel type. As fuel is used, this value will decrease by the amount of product dispensed. When the tanks are filled, you must manually update this value by either gauging the tank and entering a new tank level figure or by adding the amount of fuel delivered to the current tank level and adjusting the value accordingly.

The range of values for the current tank level is 0 to 4,294,967,295. To change the current tank-level value, click on the box labeled Current Tank, and key in the appropriate value. To have the current tank level information sent to the Phoenix AFC, click on the box labeled Transmit. A check will appear in the box, indicating the current tank quantity information will be sent to the Phoenix AFC when the records are transmitted. This information is not automatically transmitted from the AFC to the PC. When a transaction is performed, you will need to transfer the data back to the PC to maintain the current values.

### **Low Quantity**

This setting determines how low the fuel level in the tank must be before a warning message is sent advising you to order fuel. This value is in whole units. Once the fuel level for this fuel type reaches this value, a message will be shown on the Phoenix AFC display and output to the printer warning you the fuel level for this tank is low. The range of values for the low level is 0000 to 9999. To change the low-level value, click on the box labeled Low Level, and key in the appropriate value.

### **Deactivate Quantity**

This setting determines how low the fuel level in the tank must be before this fueling position will be deactivated. This value is in whole units. Once the fuel level for this fuel type reaches this value, a message will be shown on the Phoenix AFC display and output to the printer warning you this fuel type has been deactivated. The range of values for the deactivate level is 0000 to 9999. To change the low-level value, click on the box labeled Deactivate Quantity, and key in the appropriate value.

## **Fueling Positions Table**

This table lets you specify information about fueling positions, such as the fuel type and the maximum amount of fuel that can be dispensed during a transaction. You may also search for, add, or delete specific fueling positions.

Any changes made on this form are not transmitted to the Phoenix AFC until the TRANSFER DATA menu item is clicked and either the selected record or table item is clicked. The FINISH button stores all of the information on the PC, but none of the changes are transmitted to the Phoenix AFC.

To locate a fueling position, click on the menu item EDIT and click FIND RECORD. You will be prompted for the fueling position you wish to find. Type in the position number, and click OK. Click CANCEL to abort the search. If the fueling position number does not exist, a message will advise you the position was not found. Once you find a record, it will be displayed.

To add a specific fueling position, click on the menu item EDIT and click INSERT NEW RECORD(S). You will be prompted for the fueling position number you wish to insert. Type the number, and click OK. Fueling position numbers can be from 001 to 255. If the fueling position number you are adding already exists, you will be warned and prompted to enter another.

In the INSERT NEW RECORD(S) option, by clicking the box labeled Insert Block of Records, you can add multiple records beginning and ending with the numbers you indicate. However, we caution you against creating a large number of records that will not be used immediately, as they may slow down the system.

Click CANCEL to exit without adding a record. Once you add the number to the database, a record will be displayed.

To delete a specific fueling position, use the menu option EDIT and FIND RECORD to display the fueling position. Click on the menu item EDIT and DELETE CURRENT RECORD. You will be prompted to confirm the deletion by clicking YES. Click NO if you do not wish to delete this record. You must also TRANSMIT UPDATES TO AFC to complete the deletion process.

### **Fueling Position**

This is the fueling position number attached to the information currently displayed on this form.

### **Active**

This setting determines whether this fueling position is active. If a fueling position is not active, you may not obtain fuel from this fueling position. This feature is useful if you want to disable a specific hose, pump or dispenser for any reason. To make a fueling position active, click on the box labeled Active. A check will appear in the box, indicating the fueling position is active.

### **Fueltype**

This field sets the fuel type for this particular fueling position. The fuel type should be one of the fuel types defined in the FUELTYPE tab, and this particular fueling position has to draw its fuel from the tank related to this fuel type.

The range of values for the fuel type is 001 to 255. To change the fuel type, use the pull-down menu.

### **Totalizer**

The value in this box represents the total amount of fuel dispensed from this fueling position. You may view, modify, or reset this value as needed. However, the new value is not transmitted to the Phoenix AFC unless the Transmit box is checked.

The range of values for the totalizer is 0 to 4,294,967,295. To change the totalizer value, click on the box labeled Totalizer, and key in the appropriate value. To have the totalizer information sent to the Phoenix AFC, click on the box labeled Transmit. A check will appear in the box, indicating the totalizer information will be sent to the Phoenix AFC when the records are transmitted. This information is not automatically transmitted from the AFC to the PC. When a transaction is performed, you will need to transfer the data back to the PC to maintain the current values.

### **Maximum Zero Transactions**

This setting controls how many consecutive transactions will be allowed to execute when the quantity is zero. If a pulser fails on a mechanical dispenser, the subsequent transaction quantities will all be zero. This function will deactivate the fueling position after detecting the required number of zero quantity transactions. The range of values for this setting is 0 to 9. To change the maximum, click on the box labeled Max. Zero Transactions, and key in the appropriate value.

### **Timeout (Seconds)**

This value specifies the time limit the fueling position may be activated and not dispensing fuel. If the Phoenix AFC does not detect any fuel being dispensed, it will wait the specified number of seconds and then turn the power off to this fueling position. This prevents a large amount of fuel from being dispensed if pulses are not being received from this fueling position or if the fueling position is authorized and not used.

This value should be set to the smallest value needed, typically 120 seconds (2 minutes) or fewer. The range of values for the timeout is 000 to 999 seconds. To change the timeout value, click on the box labeled Timeout, and key in the appropriate value

### **Maximum Fuel Allowed**

This setting determines the maximum amount of fuel in whole units that may be dispensed in one transaction from this fueling position. This value should be adjusted according to the typical fuel requirements for the vehicles that will be fueled from this position. The range of values for the maximum fuel allowed is 0 to 65,535 units. To change this setting, click on the box labeled Maximum Fuel Allowed, and key in the appropriate value.

### **Pulses Per Unit**

This setting determines the pulses per unit of fuel that is supplied from the pulser for this fueling position. This value should be adjusted according to the type of pulser used. If the pulser you are using outputs 10 pulses-per-gallon, the value should be 10. A 100:1 pulser would use a setting of 100, and a 1:1 pulser would be set to 1. The range of values for the pulses per unit is 0001 to 9999 units. To change this setting, click on the box labeled Pulses Per Unit, and key in the appropriate value.

### **Decimal Point**

This value sets the location of the decimal point any place the fuel quantity is displayed. This setting is not dependent on the pulser ratio set above. If you are using a 10:1 pulser for measuring gallons, the pulser puts out one pulse for every 1/10-gallon pumped. The decimal place should be set to 00000000.0. For a 100:1 pulser measuring gallons, the decimal setting would be 0000000.00. To change the decimal point location, type in the value, or click the down arrow next to the window labeled Quantity Decimal Point and click the

appropriate setting, 0 to 3, from the list. The available decimal point positions are listed below:

Whole Units –	(0) 000000000
10ths of Units –	(1) 00000000.0
100ths of Units –	(2) 0000000.00
1000ths of Units –	(3) 000000.000

It is possible to set the system to display a higher accuracy than is being received from the pulser. For example, if a 10 pulse per gallon pulser is used and the AFC is set to display hundredths of a gallon, the transaction output quantity will show hundredths of a gallon. This will give the false impression that the measurement of the fuel is more accurate than it actually is and should not be done.

### **Zero Quantity Shutoff**

This setting determines whether or not this fueling position will be authorized if the pump handle is left in the ON position. In the event the pump handle was left on with the nozzle open, activating the fueling position could cause a fuel spill. To activate this feature, click on the box marked Zero Quantity Shutoff. A check mark will appear, indicating that zero quantity shutoff is active and the fueling position will shut off if the handle is left on.

## **Transmit Configuration to the Phoenix AFC**

From the main screen, click FILE and SELECT SITE. Select the site you wish to configure from the list. On a new installation of the software, you should have only one site listed, "Default, Profile0.mdb."

From the main screen, click CONFIGURATION and AFC. This will take you to the AFC CONFIGURATION screen. If you installed this version of the AFC Administrator over an existing 1.0.x version, the configuration should already be complete and match what was set up on the old software. If this software was installed on a computer for the first time, the configuration will be blank. Refer to the AFC System Programming section of this manual to configure your unit.

There are some slight differences between AFC Administrator version 1.0.x and version 2.0.x in uploading the AFC configuration. The following instructions will assist you in adjusting to the new software. You should have already run the AFC Administrator program and entered the user ID and password as requested.

Before the configuration screen can be viewed, you must select a site. To select a site, go to the main AFC Administrator screen and click FILE and SELECT SITE. A list of sites will be displayed; choose the one you wish to view, edit, or transmit. Once you chose a site, the configuration will work the same as previous versions of the software.

Once you have made your corrections or changes, you will need to transmit the information to the Phoenix AFC. As with previous versions, you may transmit an individual record, all records for a specific table, all tables, or all updates. If you are connected to a Phoenix AFC locally, the transmit process will be exactly like previous versions. If you are connected to the AFC through a modem, you will first see a dialing window, which will disappear once the software connects to the Phoenix AFC.

When connecting to the Phoenix AFC via modem, the transfer process is somewhat longer because you have to dial and connect to the Phoenix AFC before the transfer occurs. Ideally, you should make all of your configuration changes before you transmit the information because the dialing process may take longer than transmitting one or two records.

In addition to saving time, if you are using a long-distance number to connect, you will also save money by dialing in for one longer call rather than several shorter calls.

## AFC Administrator Transaction Downloading

In addition to allowing you to configure the Phoenix AFC, The AFC Administrator program allows you to download, view and process transactions from the Phoenix AFC.

Under normal circumstances, you select a site and click TRANSACTIONS and DOWLOAD from the AFC Administrator main screen (gas station). When you click BEGIN TRANSFER, the AFC Administrator program automatically connects to the Phoenix AFC and downloads any new transactions that have occurred since the last download.

In some cases, it may be necessary to view the commands and responses being transmitted to and from the Phoenix AFC. In other cases, it may be necessary to re-download transactions that were retrieved previously. The following section details the downloading options available. Keep in mind these options may be used separately or together.

### Downloading All Transactions

Normal downloading involves requesting the Phoenix AFC to transmit new transactions to the PC. The Phoenix AFC automatically keeps track of what transactions have been downloaded and will only transmit new transactions. It is sometimes necessary to download all of the transactions from the AFC into the PC. To do this, perform the following steps:

- From the AFC Administrator main screen (gas station), click FILE and SELECT SITE. Click on the name of the site you wish to download and click FINISHED.
- Click TRANSACTIONS and DOWNLOAD from the AFC Administrator main screen. If you are communicating from the PC to the Phoenix AFC via modem, the dialing window will appear and the modem will dial out. Once connected, the DOWNLOAD TRANSACTIONS window will be displayed. If you are connecting direct to the AFC using a serial cable, the DOWNLOAD TRANSACTIONS window will appear immediately.
- In the DOWNLOAD TRANSACTIONS window, click OPTIONS and DOWNLOAD ENTIRE AFC MEMORY. This will tell the Phoenix AFC to transmit all of the transactions it has stored in memory.
- Click BEGIN TRANSFER to download the entire AFC memory.
- When the download is complete, click FINISHED to return to the AFC Administrator main screen.

### Viewing Communication Details

In some cases, especially when troubleshooting downloading issues, it is desirable to view the commands being transmitted back and forth between the PC and the Phoenix AFC during the download process. To do this, perform the following steps:

- From the AFC Administrator main screen (gas station), click FILE and SELECT SITE. Click on the name of the site you wish to download and click FINISHED.
- Click TRANSACTIONS and DOWLOAD from the AFC Administrator main screen. If you are communicating from the PC to the Phoenix AFC via modem, the dialing window will appear and the modem will dial out. Once connected, the DOWNLOAD TRANSACTIONS window will be displayed. If you are connecting direct to the AFC using a serial cable, the DOWNLOAD TRANSACTIONS window will appear immediately.
- In the DOWNLOAD TRANSACTIONS window, click OPTIONS and SHOW COMM DETAILS. This will tell the AFC Administrator program to show you the commands being transmitted to and from the AFC during the download process.
- Click BEGIN TRANSFER to download transactions from the Phoenix AFC. As the download progresses, you will see various commands issued by the AFC Administrator program followed by responses from the Phoenix AFC.
- When the download is complete, click FINISHED to return to the AFC Administrator main screen.

## Reports

This application allows you to generate Phoenix AFC fuel usage reports organized by driver, vehicle, or department.

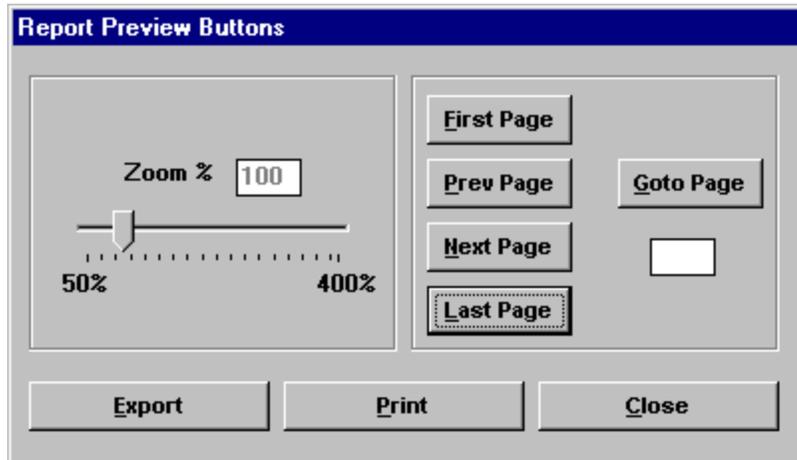
To view or print any of the reports, click the REPORTS icon or click REPORTS on the main window. A window titled AFC – REPORTS SELECTION will appear.

Each tab contains a list of reports. To select one, click on the report title or the circle to its left. Once you have chosen a specific report, enter the appropriate information on the right side of the screen, if applicable. Or, to exit the reports section without running any reports, click the FINISHED button.

In the Date/Time Range part of the right side of the TRANSACTION tab, input the desired starting date in MM/DD/YYYY format. Once you have input the last digit of the year, press TAB to jump to the time and then to the ending date. Input the ending date in MM/DD/YYYY format. Enter the start and end times, if desired, in 24-hour format.

When you have supplied a valid starting and ending date, you may select other options pertaining to the particular report you wish to generate. Once you have selected the appropriate options, click on the PREVIEW button. After a few seconds, an AFC REPORTS PREVIEW window will appear. As the AFC Administrator software prepares the report, the screen will contain a blank white page. Wait a few seconds for the report to appear.

The REPORT PREVIEW BUTTONS window, below, will also appear. You can adjust the view size of the report, from 50 percent to 400 percent, with the Zoom % scroll bar. You can move between pages of the report, print, or export the report to another program with the other buttons. To hide the REPORT PREVIEW BUTTONS window, click on the report. To view the window again, click on the associated button on the Windows toolbar.



When you are finished viewing the report, click on the CLOSE button in the REPORT PREVIEW BUTTONS window, or click on the X in the upper right corner of the AFC REPORTS PREVIEW window.

You can resize the REPORTS PREVIEW window by positioning the mouse pointer on the edge of the window and watching for a double-headed arrow to appear. When this special arrow appears you may make the window smaller or larger by pressing and holding the left mouse button while moving the mouse. You may maximize the window by clicking the small box-shaped icon in the upper-right corner of the window.

A scroll-bar is located on the right side of the window. At the top of the scroll bar is an upward-pointing arrow, at the bottom, a downward pointing arrow. Position the mouse pointer over one of the arrows and click and hold the mouse button to scroll up or down the page. This allows you view the whole page when the whole document will not fit on the screen.

If the report has been resized and the form is wider than the viewable area of the window, a scroll bar will appear at the bottom of the form. This scroll bar works the same way as the scroll bar on the right of the form, except it allows you to view both sides of the document when it is too wide to fit on the screen.

Examples of each report follow. Typical information contained in the reports is the transaction number and the vehicles, drivers, departments, or other categories associated with those transactions. A few reports have no data, to show that users can preview and print a report even if no drivers, vehicles, or other items apply to that category. The report headings still appear, to give an idea of what the report will be about.

## Transaction table

For each report in the Transaction table, users can choose to view information about ALL or ONE item in a group, such as all vehicle numbers, all fuel types, or one termination code. Users also have the option of viewing a FULL or SUMMARY report. Those pictured below are full reports of all items in a group.

### Grouped by Vehicle Number

AFC Reports Preview														
All Transactions From 10/05/1999 To 10/05/1999 Sorted By Vehicle														
FULL REPORT														
Printed On:		11/4/99	8:30:45AM											
													Page: 1	Of 1
Transact#	Date	Time	Driver	Driver Dep	Vehicle	Veh Dept	Vehicle Class	Misc.	Odometer	Site#	Unit#	Taxed	Quantity	Sale
Fuel Type	Fuel Pos	MPG	Cost/Mile	Price/unit	Card/Key#1	Card/Key#2	Term Code	Vehicle Description						
Vehicle Class Description			Driver Description		Driver Dept Description		Fuel Type Description							
<b>Vehicle: 0000019011</b>														
0019	10/05/1999	12:35	0000005618	000	0000019011	001	002	0000000000	000002356	001	001	YES	6.10	.00
001	001	100.0	000.00	00.000	00001	00001	000	19011	Route Buses D2					
71-Passenger or Smaller-Diesel			John Doe											
0021	10/05/1999	14:57	0000000001	001	0000019011	001	002	0000000000	0000000000	001	001	YES	5.70	.00
001	001	100.0	000.00	00.000	00001	00001	000	19011	Route Buses D2					
71-Passenger or Smaller-Diesel														
0022	10/05/1999	15:06	0000000001	001	0000019011	001	002	0000000000	0000000000	001	001	YES	2.10	.00
001	001	000.0	000.00	00.000	00001	00001	000	19011	Route Buses D2					
71-Passenger or Smaller-Diesel														
0023	10/05/1999	15:44	0000000001	001	0000019011	001	002	0000000000	0000000000	001	001	YES	3.00	.00
001	001	000.0	000.00	00.000	00001	00001	000	19011	Route Buses D2					
71-Passenger or Smaller-Diesel														
0024	10/05/1999	15:51	0000000001	001	0000019011	001	002	0000000000	0000000000	001	001	YES	2.40	.00
001	001	000.0	000.00	00.000	00001	00001	000	19011	Route Buses D2					
71-Passenger or Smaller-Diesel														
0032	10/05/1999	17:45	0000000001	001	0000019011	001	002	0000000000	0000000000	001	001	YES	2.90	.00
001	001	000.0	000.00	00.000	00001	00001	000	19011	Route Buses D2					
71-Passenger or Smaller-Diesel														
											Fuel Type: 001	22.20	\$ .00	
											Total Sale \$ For Vehicle: 0000019011	\$ .00		
											Total Quantity For Vehicle: 0000019011	22.20		
											MPG/Transaction:	33.33	Cost/Mile/Transaction: .00	

### Grouped by Driver Number

AFC Reports Preview														
All Transactions From 10/06/1998 To 02/10/1999 Sorted By Driver														
FULL REPORT														
Printed On:		8/23/99	5:50:29PM											
													Page: 1	Of 10
Transact#	Date	Time	Driver	Driver Dept	Vehicle	Veh Dept	Vehicle Class	Misc.	Odometer	Site#	Unit#	Taxed	Quantity	Sale
Fuel Type	Fuel Pos	MPG	Cost/Mile	Price/unit	Card/Key#1	Card/Key#2	Term Code	Vehicle Description	Fuel Type Description					
Vehicle Class Description			Driver Description		Driver Dept Description									
<b>Driver: 0000000000</b>														
0049	01/13/1999	09:09	0000000000	000	0000711106000	002	0000000000	0000000000	0000000000	001	001	NO	.00	.00
000	000	000.0	000.00	00.000	00009	00000	000	711106	71-Passenger or Smaller-Diesel					
0050	01/13/1999	09:09	0000000000	000	0000711106000	002	0000000000	0000000000	0000000000	001	001	NO	.00	.00
000	000	000.0	000.00	00.000	00009	00000	000	711106	71-Passenger or Smaller-Diesel					

### Grouped by Vehicle Department

AFC Reports Preview																
All Transactions From 10/06/1998 To 02/10/1999 Sorted By Vehicle Department																
FULL REPORT																
Printed On:		8/23/99		5:54:06PM											Page: 1 of 14	
Transact#	Date	Time	Driver	Driver Dep	Vehicle	Veh Dept	Veh Class	Misc.	Odometer	Site#	Unit#	Taxed	Quantity	Salv		
Fuel Type	Fuel Pos	MPG	Cost/Mile	Price/Unit	CardKey#1	CardKey#2	Term Code	Vehicle Description	Vehicle Description	Site#	Unit#	Fuel Type Description	Quantity	Salv		
Vehicle Class Description	Driver Description			Driver Dept. Description			Fuel Type Description									
<b>Vehicle Department: 000</b>																
0110	02/10/1999	09:35	0000000000	000	000000000000	000	000	0000000000	0000000000	001	001	NO	.00	.00		
000	000	000.0	000.00	00.000	000132	000000	000									
71-Passenger or Smaller-Diesel																
0111	02/10/1999	09:35	0000000000	000	000000000000	000	000	0000000000	0000000000	001	001	NO	.00	.00		
000	000	000.0	000.00	00.000	000132	000000	000									
71-Passenger or Smaller-Diesel																

### Grouped by Driver Department

AFC Reports Preview																
All Transactions From 10/06/1998 To 02/10/1999 Sorted By Driver Department																
FULL REPORT																
Printed On:		8/23/99		5:58:54PM											Page: 1 of 13	
Transact#	Date	Time	Driver	Driver Dep	Vehicle	Veh Dept	Veh Class	Misc.	Odometer	Site#	Unit#	Taxed	Quantity	Salv		
Fuel Type	Fuel Pos	MPG	Cost/Mile	Price/Unit	CardKey#1	CardKey#2	Term Code	Vehicle Description	Vehicle Description	Site#	Unit#	Fuel Type Description	Quantity	Salv		
Vehicle Class Description	Driver Description			Driver Dept. Description			Fuel Type Description									
<b>Driver Department: 000</b>																
0049	01/13/1999	09:09	0000000000	000	0000711106000	002	000	0000000000	0000000000	001	001	NO	.00	.00		
000	000	000.0	000.00	00.000	000009	000000	000	711108								
71-Passenger or Smaller-Diesel																
0050	01/13/1999	09:09	0000000000	000	0000711106000	002	000	0000000000	0000000000	001	001	NO	.00	.00		
000	000	000.0	000.00	00.000	000009	000000	000	711108								
71-Passenger or Smaller-Diesel																
0051	01/13/1999	09:09	0000000000	000	0000711106000	002	000	0000000000	0000000000	001	001	NO	.00	.00		
000	000	000.0	000.00	00.000	000009	000000	000	711108								
71-Passenger or Smaller-Diesel																

### Grouped by Termination Code

AFC Reports Preview																
All Transactions From 10/06/1998 To 02/10/1999 Sorted By Termination Code																
FULL REPORT																
Printed On:		8/23/99		6:02:06PM											Page: 1 of 12	
Transact#	Date	Time	Driver	Driver Dep	Vehicle	Veh Dept	Veh Class	Misc.	Odometer	Site#	Unit#	Taxed	Quantity	Salv		
Fuel Type	Fuel Pos	MPG	Cost/Mile	Price/Unit	CardKey#1	CardKey#2	Term Code	Vehicle Description	Vehicle Description	Site#	Unit#	Fuel Type Description	Quantity	Salv		
Vehicle Class Description	Driver Description			Driver Dept. Description			Fuel Type Description									
<b>Termination Code: 000</b>																
0049	01/13/1999	09:09	0000000000	000	0000711106000	002	000	0000000000	0000000000	001	001	NO	.00	.00		
000	000	000.0	000.00	00.000	000009	000000	000	711108								
71-Passenger or Smaller-Diesel																
0050	01/13/1999	09:09	0000000000	000	0000711106000	002	000	0000000000	0000000000	001	001	NO	.00	.00		
000	000	000.0	000.00	00.000	000009	000000	000	711108								
71-Passenger or Smaller-Diesel																

### Grouped by Card/Key #1

AFC Reports Preview																
All Transactions From 10/06/1998 To 02/10/1999 Sorted By Card/Key #1																
FULL REPORT																
Printed On:		8/23/99		6:07:02PM											Page: 1 Of 14	
Transact#	Date	Time	Driver	Driver Dep	Vehicle	Veh Dept	Veh Class	Misc.	Odometer	Site#	Unit#	Taxed	Quantity	Sale		
Fuel Type	Fuel Pos	MPG	Cost/Mile	PriCost/Unit	Card/Key#1	Card/Key#2	Term Code	Vehicle Description	Vehicle Description	Fuel Type Description	Vehicle Dept. Description	Vehicle Dept. Description				
Vehicle Class Description	Driver Description			Driver Dept. Description			Fuel Type Description									
0049	01/13/1999	09:09	0000000000	000	0000711106000	000	002	0000000000	0000000000	001	001	NO	.00	.00		
000	000	000.0	000.00	00.000	000009	000000	000	711106								
71-Passenger or Smaller-Diesel																
0050	01/13/1999	09:09	0000000000	000	0000711106000	000	002	0000000000	0000000000	001	001	NO	.00	.00		
000	000	000.0	000.00	00.000	000009	000000	000	711106								
71-Passenger or Smaller-Diesel																

### Grouped by Card/Key #2

AFC Reports Preview																
All Transactions From 10/06/1998 To 02/10/1999 Sorted By Card/Key #2																
FULL REPORT																
Printed On:		8/23/99		6:10:39PM											Page: 1 Of 12	
Transact#	Date	Time	Driver	Driver Dep	Vehicle	Veh Dept	Veh Class	Misc.	Odometer	Site#	Unit#	Taxed	Quantity	Sale		
Fuel Type	Fuel Pos	MPG	Cost/Mile	PriCost/Unit	Card/Key#1	Card/Key#2	Term Code	Vehicle Description	Vehicle Description	Fuel Type Description	Vehicle Dept. Description	Vehicle Dept. Description				
Vehicle Class Description	Driver Description			Driver Dept. Description			Fuel Type Description									
Card/Key: 000000																
0049	01/13/1999	09:09	0000000000	000	0000711106000	000	002	0000000000	0000000000	001	001	NO	.00	.00		
000	000	000.0	000.00	00.000	000009	000000	000	711106								
71-Passenger or Smaller-Diesel																
0050	01/13/1999	09:09	0000000000	000	0000711106000	000	002	0000000000	0000000000	001	001	NO	.00	.00		
000	000	000.0	000.00	00.000	000009	000000	000	711106								
71-Passenger or Smaller-Diesel																

### Grouped by Site Number

AFC Reports Preview																
All Transactions From 10/06/1998 To 02/10/1999 Sorted By Site Number																
FULL REPORT																
Printed On:		8/23/99		6:10:02PM											Page: 1 Of 12	
Transact#	Date	Time	Driver	Driver Dep	Vehicle	Veh Dept	Veh Class	Misc.	Odometer	Site#	Unit#	Taxed	Quantity	Sale		
Fuel Type	Fuel Pos	MPG	Cost/Mile	PriCost/Unit	Card/Key#1	Card/Key#2	Term Code	Vehicle Description	Vehicle Description	Fuel Type Description	Vehicle Dept. Description	Vehicle Dept. Description				
Vehicle Class Description	Driver Description			Driver Dept. Description			Fuel Type Description									
Site Number: 001																
0049	01/13/1999	09:09	0000000000	000	0000711106000	000	002	0000000000	0000000000	001	001	NO	.00	.00		
000	000	000.0	000.00	00.000	000009	000000	000	711106								
71-Passenger or Smaller-Diesel																
0050	01/13/1999	09:09	0000000000	000	0000711106000	000	002	0000000000	0000000000	001	001	NO	.00	.00		
000	000	000.0	000.00	00.000	000009	000000	000	711106								
71-Passenger or Smaller-Diesel																

### Grouped by Site#/Unit#/Fueling Position

AFC Reports Preview															
All Transactions From 10/06/1998 To 02/10/1999 Sorted By Site #/Unit #/Fueling Position															
FULL REPORT															
Printed On:		8/23/99		6:15:20PM											
														Page: 1 of 12	
Transact#	Date	Time	Driver	Driver Dep	Vehicle	Veh Dept	Vehicle Class	Misc.	Odometer	Site#	Unit#	Taxed	Quantity	Sale	
Fuel Type	Fuel Pos	MPG	Cost/Mile	Pric/unit	Card/Key#1	Card/Key#2	Term Code	Vehicle Description	Driver Dept. Description	Vehicle Dept. Description	Fuel Type Description				
Site Number: 001															
0049	01/13/1999	09:09	0000000000	000	0000711106	000	002	0000000000	0000000000	001	001	NO	.00	.00	
000	000	000.0	000.00	00.000	000009	000000	000	711106							
71-Passenger or Smaller-Diesel															
0050	01/13/1999	09:09	0000000000	000	0000711106	000	002	0000000000	0000000000	001	001	NO	.00	.00	
000	000	000.0	000.00	00.000	000009	000000	000	711106							
71-Passenger or Smaller-Diesel															

### Grouped by Fueling Position

AFC Reports Preview															
All Transactions From 10/06/1998 To 02/10/1999 Sorted By Fueling Position															
FULL REPORT															
Printed On:		8/23/99		6:24:16PM											
														Page: 1 of 12	
Transact#	Date	Time	Driver	Driver Dep	Vehicle	Veh Dept	Vehicle Class	Misc.	Odometer	Site#	Unit#	Taxed	Quantity	Sale	
Fuel Type	Fuel Pos	MPG	Cost/Mile	Pric/unit	Card/Key#1	Card/Key#2	Term Code	Vehicle Description	Driver Dept. Description	Vehicle Dept. Description	Fuel Type Description				
Fueling Position: 000															
0049	01/13/1999	09:09	0000000000	000	0000711106	000	002	0000000000	0000000000	001	001	NO	.00	.00	
000	000	000.0	000.00	00.000	000009	000000	000	711106							
71-Passenger or Smaller-Diesel															
0050	01/13/1999	09:09	0000000000	000	0000711106	000	002	0000000000	0000000000	001	001	NO	.00	.00	
000	000	000.0	000.00	00.000	000009	000000	000	711106							
71-Passenger or Smaller-Diesel															

### Grouped by Miscellaneous Number

AFC Reports Preview															
All Transactions From 10/06/1998 To 02/10/1999 Sorted By Miscellaneous Number															
FULL REPORT															
Printed On:		8/23/99		6:26:18PM											
														Page: 1 of 12	
Transact#	Date	Time	Driver	Driver Dep	Vehicle	Veh Dept	Vehicle Class	Misc.	Odometer	Site#	Unit#	Taxed	Quantity	Sale	
Fuel Type	Fuel Pos	MPG	Cost/Mile	Pric/unit	Card/Key#1	Card/Key#2	Term Code	Vehicle Description	Driver Dept. Description	Vehicle Dept. Description	Fuel Type Description				
Miscellaneous Num: 0000000000															
0049	01/13/1999	09:09	0000000000	000	0000711106	000	002	0000000000	0000000000	001	001	NO	.00	.00	
000	000	000.0	000.00	00.000	000009	000000	000	711106							
71-Passenger or Smaller-Diesel															
0050	01/13/1999	09:09	0000000000	000	0000711106	000	002	0000000000	0000000000	001	001	NO	.00	.00	
000	000	000.0	000.00	00.000	000009	000000	000	711106							
71-Passenger or Smaller-Diesel															

Grouped by Tax/No Tax Status (2 of 179 pages shown)

**AFC Reports Preview**

**All Transactions From 01/01/1997 To 08/30/1999 Sorted By Taxable Status**

**FULL REPORT**

Printed On: 92499 10:24:14AM Page: 1 of 179

Transact#	Date	Time	Driver	Driver Dep	Vehicle	Veh Dept	Vehicle Class	Misc.	Odometer	Site#	Unit#	Taxed	Quantity	Sale
Fuel Type	Fuel Pos	MPG	Cost/Mile	Prior Unit	Card/Key#1	Card/Key#2	Term Code	Vehicle Description	Driver Dept Description	Vehicle Dept Description	Fuel Type Description			
<b>Taxable Status: NO</b>														
0015	04/19/1999	14:49	0000000000	000	0000000000	000	000	0000000000	0000000000	001	001	NO	.30	.00
000	000	000.0	000.00	00.000	000000	000000	000							
												Fuel Type: 000	0.30	0.00
0016	04/19/1999	14:54	0000000000	1001	0000000600	001	002	000000999	0000012345	001	001	NO	.00	.00
001	001	000.0	000.00	01.000	000001	000001	001	Hannford Tractors	Hannford Tracting Co.	Hannford Tracting Co.	Diesel			
												Fuel Type: 001	1.00	1.00
0017	04/19/1999	14:55	0000000000	1001	0000000600	001	002	000000999	0000012345	001	001	NO	1.00	1.00
001	001	000.0	000.00	01.000	000001	000001	000	Hannford Tractors	Hannford Tracting Co.	Hannford Tracting Co.	Diesel			
												Fuel Type: 001	48.00	48.00
0018	04/21/1999	08:52	0000000000	1001	0000003012	001	001	000000429	0000077097	001	001	NO	48.00	48.00
001	001	000.0	000.00	01.000	000001	000001	000	Tractors	Hannford Tractors	Hannford Tracting Co.	Diesel			

**AFC Reports Preview**

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Transact#	Date	Time	Driver	Driver Dep	Vehicle	Veh Dept	Vehicle Class	Misc.	Odometer	Site#	Unit#	Taxed	Quantity	Sale	
Fuel Type	Fuel Pos	MPG	Cost/Mile	Prior Unit	Card/Key#1	Card/Key#2	Term Code	Vehicle Description	Driver Dept Description	Vehicle Dept Description	Fuel Type Description				
												Fuel Type: 001	125,978.70	125,978.70	
												Total Sale For Tax Status: NO	\$125978.70		
												Total Quantity For Tax	NO	125979.00	
												MPG/Transaction:	32.46	Cost/Mile/Transaction:	.14
<b>Taxable Status: YES</b>															
0013	04/19/1999	11:18	0000000000	000	0000007999	000	001	0000000000	0000000000	001	001	YES	.00	.00	
001	001	000.0	000.00	01.000	007999	000000	000	Tractors	Sample Vehicle Description		Diesel				
												Fuel Type: 001	0.00	0.00	
												Total Sale For Tax Status: YES	\$ .00		
												Total Quantity For Tax	YES	.00	
												MPG/Transaction:	.00	Cost/Mile/Transaction:	.00

## Grouped by Fuel Type

**AFC Reports Preview**

**All Transactions From 10/06/1998 To 02/10/1999 Sorted By Fuel Type**  
**FULL REPORT**

Printed On: 8/23/99 8:02:11PM Page: 1 of 12

Transact#	Date	Time	Driver	Driver Dep	Vehicle	Veh Dept	Vehicle Class	Misc.	Odometer	Site#	Unit#	Taxed	Quantity	Sale
Fuel Type	Fuel Pos	MPG	Cost/Mile	PriorUnit	CardKey#1	CardKey#2	Term Code	Vehicle Description	Driver Description	Driver Dept. Description	Fuel Type Description			
<b>Fuel Type: 000</b>														
0049	01/13/1999	09:09	0000000000	000	0000711106	000	002	0000000000	0000000000	001	001	NO	.00	.00
000	000	000.0	000.00	00.000	000009	000000	000	711106						
71-Passenger or Smaller-Diesel														
0050	01/13/1999	09:09	0000000000	000	0000711106	000	002	0000000000	0000000000	001	001	NO	.00	.00
000	000	000.0	000.00	00.000	000009	000000	000	711106						
71-Passenger or Smaller-Diesel														

## Vehicle table

### Vehicles Listed Sequentially

**AFC Reports Preview**

**Vehicle Listing**  
Profile Used = Profile0 - Default

Printed On: 8/24/99 4:13:22PM Page: 1 of 5

Vehicle#	Veh Class	Previous Odometer	Maint Odometer	Dept	Global	Veh Description	Keypad	Xmt Prev	Odome
000000353	002	0000000000	0000000000	001	YES	WC353	NO	YES	
0000003536	002	0000000000	0000000000	001	YES	W3536	NO	YES	
0000003553	002	0000000000	0000000000	001	YES	W3553	NO	YES	
0000003563	002	0000000000	0000000000	001	YES	W3563	NO	YES	
0000003567	002	0000000000	0000000000	001	YES	W3567	NO	YES	
0000004705	002	0000000000	0000000000	001	YES	W4705	NO	YES	

### Vehicles Listed Sequentially with Department Labels

**AFC Reports Preview**

**Vehicle Listing With Department Labels**  
Profile Used = Profile0 - Default

Printed On: 8/25/99 8:22:48AM Page: 1 of 5

Vehicle#	Veh Class	Previous Odomete	Maint Odometer	Dept	Global	Veh Description	Keypad	Xmt Prev	Odometer	Department	Descripti
000000353	002	0000000000	0000000000	001	YES	WC353	NO	YES		Route Buses	
0000003536	002	0000000000	0000000000	001	YES	W3536	NO	YES		Route Buses	
0000003553	002	0000000000	0000000000	001	YES	W3553	NO	YES		Route Buses	

### Vehicles Past Maintenance Mileage Listed Sequentially

AFC Reports Preview										
Vehicle Listing - Previous Mileage Exceeds Maintenance Mileage										
Printed On:		9/25/99	9:25:02AM	Profile Used = Profile0 - Default						Page: 1 of 1
Vehicle#	Veh Class	Previous Odometer	Maint Odometer	Dept	Global	Veh Description	Keypad	Xmt Prev Odome		
0000711106	002	0000065784	0000000000	002	YES	711106	NO	YES		
0000711320	002	4294967295	0000001000	001	YES	711320	NO	YES		
END OF REPORT										

### Vehicles with Global Status Listed Sequentially

AFC Reports Preview										
Listing Of Vehicles With Global Status										
Printed On:		9/25/99	9:28:25AM	Profile Used = Profile0 - Default						Page: 1 of 5
Vehicle#	Veh Class	Previous Odometer	Maint Odometer	Dept	Global	Veh Description	Keypad	Xmt Prev Odome		
0000000353	002	0000000000	0000000000	001	YES	WC353	NO	YES		
0000003536	002	0000000000	0000000000	001	YES	W3536	NO	YES		
0000003553	002	0000000000	0000000000	001	YES	W3553	NO	YES		

### Vehicles Grouped by Vehicle Class, Vehicle Number

AFC Reports Preview														
Vehicles Grouped By Vehicle Class														
Printed On:		9/24/99	10:27:05AM	Profile Used = Profile0 - Default										Page: 1 of 50
Veh#	Department	Global	Veh Class	Active	Exn Date	Max Fuel	Odometer High	Odnmeter Retries	Odnmeter Pass/Fail	Required Prompts	Misc Digits	Global FuelType1	Veh Class FuelType2	Active FuelType3
Class Description		Active	Tax Option	Maint Warning			Maint Pass/Fail	Mileage Prompt	Misc Prompt					
0000000085	003	YES	001	YES	00/00/00	0000	0000	3	1. Pass					
3							YES	Enter Odometer ___	Enter Employee # ___					
Tractors		YES	0-Non Taxable	0000			0							
0000000086	003	YES	001	YES	00/00/00	0000	0000	3	1. Pass					
3							YES	Enter Odometer ___	Enter Employee # ___					
Tractors		YES	0-Non Taxable	0000			0							

## Vehicles Grouped by Department Number

**AFC Reports Preview**

**Vehicles Sequentially Listed Grouped By Department Number**  
Profile Used = Profile0 - Default

Printed On 8/25/99 8:31:00AM Page: 1 Of 5

Vehicle#	Veh Class	Department	Global	Dent Alloc	Alloc Xmt	Exp Date	Qty Price	Department Description
000000035	002	001	YES	99999.99	YES	00/00/00	1. Dollars	Route Buses
000000035	002	001	YES	99999.99	YES	00/00/00	1. Dollars	Route Buses
000000035	002	001	YES	99999.99	YES	00/00/00	1. Dollars	Route Buses

## Fuel Position table

### Fueling Position Listed Sequentially

**AFC Reports Preview**

**Fuel Position Listing**  
Site Used = Site1 - Default

Printed On 8/25/99 9:48:54AM Page: 1 Of 1

Fueling Position	Active	Fuel Type	Totalizer	Totalizer Xmt 0 Allowed	Timeout	Fuel Limit	Pulses/Unit	Dec Point	0 Qty Shutoff
001	YES	002	0000000000	YES 0	000	01000	0010	1.00000000.0	NO
002	YES	001	0000000000	YES 3	180	01000	0010	1	NO
003	YES	002	0000000000	YES 3	180	01000	0010	1	NO
004	YES	002	0000000000	YES 2	180	01000	0010	1	NO

END OF REPORT

### Inactive Fueling Position Report

**AFC Reports Preview**

**Inactive Fuel Position Listing**  
Site Used = Site1 - Default

Printed On 8/25/99 9:48:10AM Page: 1 Of 1

Fueling Position	Active	Fuel Type	Totalizer	Totalizer Xmt 0 Allowed	Timeout	Fuel Limit	Pulses/Unit	Dec Point	0 Qty Shutoff
END OF REPORT									

## Driver table

### Drivers Sequentially Listed

**AFC Reports Preview**

**Driver Listing**  
Profile Used = Profile0 - Default

Printed On: 8/25/99 9:49:19AM Page: 1 of 8

Driver#	Dept	Global	Driver Description	Keypad Entry	Security Transm
0000000099	000	YES	Ted Cox	YES	YES
0000005618	000	YES	Randy Knotts	YES	YES
0000008217	000	YES	Paul Addison	YES	YES

### Drivers with Global Status

**AFC Reports Preview**

**Drivers With Global Status**  
Profile Used = Profile0 - Default

Printed On: 8/25/99 9:51:44AM Page: 1 of 8

Driver#	Dept	Global	Active	Keypad Entry	Security Xmt	Driver Description	Department Description
0000000099	000	YES	NO	YES	YES	Ted Cox	
0000005618	000	YES	NO	YES	YES	Randy Knotts	
0000008217	000	YES	NO	YES	YES	Paul Addison	
0000008224	000	YES	NO	YES	YES	Glenn Bailey	
0000008236	000	YES	NO	YES	YES	Renate Carrington	
0000008237	000	YES	NO	YES	YES	Jerry Carver	

### Drivers Sequentially Listed with Department Label

**AFC Reports Preview**

**Active Drivers Listed With Department Label**  
Profile Used = Profile0 - Default

Printed On: 8/25/99 9:54:08AM Page: 1 of 1

Driver#	Dept	Global	Keypad Entry	Security Xmt	Driver Description	Department Description
END OF REPORT						

### Drivers Grouped by Department Number

**AFC Reports Preview**

**Drivers Sequentially Listed Grouped By Department Number**  
Profile Used = Profile0 - Default

Printed On: 8/25/99 9:57:03AM Page: 1 of 7

Driver#	Department	Global	Driver Description	Dept Totalizer	Exp Date	Qty/Price	Department Description
0000000099	000	YES	Ted Cox				
0000005618	000	YES	Randy Knotts				
0000008217	000	YES	Paul Addison				

## Fuel Type table

### Fuel Types Sequentially Listed

AFC Reports Preview											
FuelType Listing											
Site Used = Site1 - Default											
Printed On	9/25/99	9:39:26AM									
											Page: 1 of 1
FuelType	Active	Unit Price	Unit Tax	Totalizer	Totalizer Xmt	Shift1 Total	Shift1 Xmt	Shift2 Total	Shift2 Xmt		
Sh#Q Totalizer	Xmt	Sh#M Totalizer	Xmt	Tant. Level	Xmt	Low Level	Dead. Level	FuelType Description			
001	YES	00.000	00.000	0000000000	YES	000	0000000000	YES	D2	0000000000	YES
0000000000	YES	0000000000	YES	0000000000	YES	000	000				
002	YES	10.000	65.535	0000000000	YES	9999	0000000001	YES	D1	0000000000	YES
0000000000	YES	0000000000	YES	0000000096	YES	9999	9999				
END OF REPORT											

### Inactive Fuel Types

AFC Reports Preview											
Inactive FuelType Listing											
Site Used = Site1 - Default											
Printed On	9/25/99	10:00:20AM									
											Page: 1 of 1
FuelType	Active	Unit Price	Unit Tax	Totalizer	Totalizer Xmt	Shift1 Total	Shift1 Xmt	Shift2 Total	Shift2 Xmt		
Sh#Q Totalizer	Xmt	Sh#M Totalizer	Xmt	Tant. Level	Xmt	Low Level	Dead. Level	FuelType Description			
END OF REPORT											

## System table

### System Configuration

AFC Reports Preview													
System Configuration													
Site Used = Site1 - Default													
Printed On:	9/25/99	10:01:16AM											
													Page: 1 of 1
Unit#	Site#	Firmware	Yers	Trans#	Act Time	DeAct Time	Shift1 Start	Shift 2 Star	Shift 3 Start	Shift 4 Star	CardTableLock	KeyTableLoc	
Pin Suppress	Date Suppress	Time Suppress	Price Suppress	Serial#	Start	Card# Start	Prompt Timecaul	DV Alloc.	Dept Allow	Reset Trans	Driver Keypad	Trum Xmt	
Prompt Line1	Prompt Line2	Prompt Line3	Prompt Line4	Prompt Line5	Prompt Line6	Prompt Line7	Prompt Line8	Prompt Line9	Prompt Line10	Prompt Line11	Prompt Line12	Prompt Line13	Prompt Line14
01	001	1	0001	00:00	00:00	01:00	02:00	03:00	11:00		NO	NO	
YES	NO	NO	NO	NO	00	00	00	0000	0	NO	2. Fail	NO	
Welcome	Insert DuraKey and	follow instructions.	Have a nice day.			00		1. Vehicle	YES	NO	YES	NO	
END OF REPORT													

## Department table

### All Departments Sequentially Listed

**AFC Reports Preview**

**Department Listing**  
Profile Used = Profile0 - Default

Printed On 9/23/99 3:02:11PM Page: 1 of 1

Department	Dent Totalizer	Tot Ymt	Discount	Alloc On	Allocation Qty/Price	Exp Date	Department Description	Alloc Ymt
001	0000000000	NO	0.000	NO	00000.00 0	00/00/00	Hannaford Trucking Co.	NO
002	0000000000	NO	0.000	NO	00000.00 0	00/00/00	West Bros.	NO
003	0000000000	NO	0.000	NO	00000.00 0	00/00/00	Hutchins	NO
004	0000000000	NO	0.000	NO	00000.00 0	00/00/00	Rist Trans.	NO

### Departments with Active Allocation

**AFC Reports Preview**

**Department Listing - Allocation Active**  
Profile Used = Profile0 - Default

Printed On 9/23/99 3:04:38PM Page: 1 of 1

Department	Dent Totalizer	Tot Ymt	Discount	Alloc On	Allocation Qty/Price	Exp Date	Department Description	Alloc Ymt
END OF REPORT								

### Departments with Active Allocation and Allocated Fuel Zero

**AFC Reports Preview**

**Department Listing - Allocation Active And Allocated Fuel Equal To Zero**  
Profile Used = Profile0 - Default

Printed On 9/23/99 3:06:09PM Page: 1 of 1

Department	Dent Totalizer	Tot Ymt	Discount	Alloc On	Allocation Qty/Price	Exp Date	Department Description	Alloc Ymt
END OF REPORT								

### Expired Departments

**AFC Reports Preview**

**Department Listing - Expiration Date Prior To Current Date**  
Profile Used = Profile0 - Default

Printed On 9/23/99 3:07:41PM Page: 1 of 1

Department	Dent Totalizer	Tot Ymt	Discount	Alloc On	Allocation Qty/Price	Exp Date	Department Description	Alloc Ymt
001	0000000000	NO	0.000	NO	00000.00 0	00/00/00	Hannaford Trucking Co.	NO
002	0000000000	NO	0.000	NO	00000.00 0	00/00/00	West Bros.	NO
003	0000000000	NO	0.000	NO	00000.00 0	00/00/00	Hutchins	NO
004	0000000000	NO	0.000	NO	00000.00 0	00/00/00	Rist Trans.	NO

## Vehicle Class table

### Vehicle Class Sequentially Listed

AFC Reports Preview											
Vehicle Class Listing											
Profile Used = Profile0 - Default											
Printed On:	9/23/99	3:09:18PM						Page: 1 of 1			
Veh Class	StartTime	EndTime	Expn Date	Max Fuel	Odnometer Low	Odnometer High	Odnometer Retries	Odnometer Pass/Fail	Required Prompts	EndTime Misc Digits	
Class Description			FuelType1 Active	FuelType2 Tax Option	FuelType3 Maint Warning	Tax	Mileage Prompt	Misc Prompt			
001 3 Tractors	00:00	00:00	00/00/00 001	0000 000	0000 000	0000	3 Enter Odometer	1. Pass Enter Employee #			
002 3 Trailers	00:00	00:00	00/00/00 001	0000 000	0000 000	0000	0 Enter Odometer	0 Enter Employee #			
003 2 Generator	00:00	00:00	00/00/00 001	0000 000	0000 000	0000	0 Enter Odometer	0 Enter Employee #			
END OF REPORT											

### Expired Vehicle Classes

AFC Reports Preview											
Vehicle Classes With Expiration Date Prior To Current Date											
Profile Used = Profile0 - Default											
Printed On:	9/23/99	3:40:48PM						Page: 1 of 1			
Veh Class	StartTime	EndTime	Expn Date	Max Fuel	Odnometer Low	Odnometer High	Odnometer Retries	Odnometer Pass/Fail	Required Prompts	EndTime Misc Digits	
Class Description			FuelType1 Active	FuelType2 Tax Option	FuelType3 Maint Warning	Tax	Mileage Prompt	Misc Prompt			
001 3 Tractors	00:00	00:00	00/00/00 001	0000 000	0000 000	0000	3 Enter Odometer	1. Pass Enter Employee #			
002 3 Trailers	00:00	00:00	00/00/00 001	0000 000	0000 000	0000	0 Enter Odometer	0 Enter Employee #			
003 2 Generator	00:00	00:00	00/00/00 001	0000 000	0000 000	0000	0 Enter Odometer	0 Enter Employee #			
END OF REPORT											

## Card/DuraKey table

### Card/DuraKeys listed Sequentially

AFC Reports Preview						
Card/DuraKeys Listing						
Profile Used = Profile0 - Default						
Printed On:	9/23/99	3:42:04PM				Page: 1 of 1
Card Number	Card Type	Primary Number	Sec Number 1	Sec Number 2	Sec Number 3	Expiration Date
00001	2. Driver Card/Key	0000000001	0000000000	0000000000	0000000000	00/00/00
00002	2. Driver Card/Key	0000000002	0000000000	0000000000	0000000000	00/00/00
00003	2. Driver Card/Key	0000000003	0000000000	0000000000	0000000000	00/00/00
00004	2. Driver Card/Key	0000000004	0000000000	0000000000	0000000000	00/00/00
00005	2. Driver Card/Key	0000000005	0000000000	0000000000	0000000000	00/00/00
00006	2. Driver Card/Key	0000000006	0000000000	0000000000	0000000000	00/00/00
00007	2. Driver Card/Key	0000000007	0000000000	0000000000	0000000000	00/00/00
00008	1. Vehicle Card/Key	0000000001	0000000000	0000000000	0000000000	00/00/00
00009	1. Vehicle Card/Key	0000000001	0000000000	0000000000	0000000000	00/00/00

## Vehicle Type Card/DuraKeys with Associated Fields

AFC Reports Preview							
Card/DuraKeys Listing - Vehicle Type With Related Fields							
Printed On: 9/23/99 3:43:28PM		Profile Used = Profile0 - Default			Page: 1 Of 1		
Card Number	Card Type	Vehicle Number	Driver Number1	Driver Number2	Driver Number3	Expiration Date	Department
Vehicle Description		Department Description					
00008	1. Vehicle Card/Key	0000000001	0000000000	0000000000	0000000000	00/00/00	
00009	1. Vehicle Card/Key	0000000001	0000000000	0000000000	0000000000	00/00/00	
00010	1. Vehicle Card/Key	0000000001	0000000000	0000000000	0000000000	00/00/00	
END OF REPORT							

## Driver Type Card/DuraKeys grouped by type with Associated Fields

AFC Reports Preview							
Card/DuraKeys Listing - Driver Type With Related Fields							
Printed On: 9/23/99 3:44:53PM		Profile Used = Profile0 - Default			Page: 1 Of 1		
Card Number	Card Type	Driver Number	Vehicle Number1	Vehicle Number2	Vehicle Number3	Expiration Date	Department
Driver Description		Department Description					
00001	2. Driver Card/Key	0000000001	0000000000	0000000000	0000000000	00/00/00	001
HTC BUTNER		Hannaford Trucking Co.					
00002	2. Driver Card/Key	0000000002	0000000000	0000000000	0000000000	00/00/00	001
Hannaford Trailers		Hannaford Trucking Co.					
00003	2. Driver Card/Key	0000000003	0000000000	0000000000	0000000000	00/00/00	002
West Tractors		West Bros.					
00004	2. Driver Card/Key	0000000004	0000000000	0000000000	0000000000	00/00/00	004
Rist Trans		Rist Trans.					

## Unexpired Card/DuraKeys

AFC Reports Preview							
Active Card/DuraKeys Listing							
Printed On: 9/24/99 9:49:08AM		Profile Used = Profile0 - Default			Page: 1 Of 1		
Card Number	Card Type	Primary Number	Sec Number 1	Sec Number 2	Sec Number 3	Expiration Date	
00003	2. Driver Card/Key	0000000003	0000000000	0000000000	0000000000	12/31/99	
00008	1. Vehicle Card/Key	0000000001	0000000000	0000000000	0000000000	10/31/99	

## Expired Card/DuraKeys

AFC Reports Preview							
Inactive Card/DuraKeys Listing							
Printed On: 9/24/99 9:50:52AM		Profile Used = Profile0 - Default			Page: 1 Of 1		
Card Number	Card Type	Primary Number	Sec Number 1	Sec Number 2	Sec Number 3	Expiration Date	
00001	2. Driver Card/Key	0000000001	0000000005	0000000008	0000000000	12/31/98	
00002	2. Driver Card/Key	0000000002	0000989909	0000000104	0000000007	12/31/98	
00004	2. Driver Card/Key	0000000004	0000000089	0000000088	0000000087	00/00/00	
00005	2. Driver Card/Key	0000000005	0000000000	0000000000	0000000000	00/00/00	

# Editing Phoenix AFC Transactions

The AFC Administrator program includes a transaction editing function to allow you to add, modify or delete fuel transactions. This utility is very powerful and should not be used unless you fully understand the consequences. If you make a mistake and save or delete the record, there is no way to undo the error except for re-entering the correct data. Please read this entire section before attempting to use any part of this feature.

It should be noted that the AFC Administrator **does not** recalculate the total sale, miles per gallon or cost per mile when you change the odometer reading, fuel quantity, price per unit or total sale. These items are not computed by the AFC Administrator software — they are calculated by the Phoenix AFC at the time the transaction is performed. You must manually recalculate and enter these items if you want them to be correct.

## Modifying a Transaction

To modify an existing transaction, perform the following steps:

From the AFC Administrator main screen (gas station), click TRANSACTIONS and EDIT. This will take you to the EDIT TRANSACTION window.

To find a particular record, you may step through the transactions manually using the FIRST, PREVIOUS, NEXT and LAST buttons.

To search for a particular transaction by transaction number, site number, unit number, date or time, click FILE and FIND FIRST. In the FIND A TRANSACTION window, enter the item you want to search for in the appropriate field. If you want to narrow the search, you may enter two or more items and the search will only return transactions which meet all the specified criteria.

If you search for a transaction that does not exist, a message advising you “Transaction Record Not Found” will be displayed. Click OK to clear the message and return to the EDIT TRANSACTION window. If you are trying to locate a transaction using two or more search criteria, you need to broaden the search by using fewer search items.

If you searched and found a matching transaction and want to locate another transaction that matches the search defined above, click FILE and FIND NEXT. This will search for the next transaction meeting the criteria.

Once the transaction you wish to modify is found, it will be displayed in the EDIT TRANSACTION window.

You may change any or all items for this transaction. After you complete your changes, click the SAVE RECORD button to save the modified transaction — click the FIRST, PREVIOUS, NEXT or LAST button to move to another record without saving the changes. You may search for and modify other transactions or click FINISHED to return to the AFC Administrator main menu.

If you modify a transaction and it has the same transaction number, site number, unit number, date and time as another transaction, the system will tell you “Error in Updating Table — Function Cancelled.” Click OK to clear the error message. The transaction will not be modified — the program will return you to the EDIT TRANSACTION window.

## Deleting a Transaction

To delete an existing transaction, perform the following steps:

From the AFC Administrator main screen (gas station), click TRANSACTIONS and EDIT. This will take you to the EDIT TRANSACTION window.

To find a particular record, you may step through the transactions manually using the FIRST, PREVIOUS, NEXT and LAST button.

To search for a particular transaction by transaction number, site number, unit number, date or time, click FILE and FIND FIRST. In the FIND A TRANSACTION window, enter the item you want to search for in the appropriate field. If you want to narrow the search, you may enter two or more items and the search will return only transactions which meet the specified criteria.

If you search for a transaction that does not exist, a message advising you "Transaction Record Not Found" will be displayed. Click OK to clear the message and return to the EDIT TRANSACTION window. If you are trying to locate a transaction using two or more search criteria, you need to broaden the search by using fewer search items.

To search for another transaction that matches the search defined above, click FILE and FIND NEXT. This will search for the next transaction meeting the criteria.

Once the transaction you wish to modify is found, it will be displayed in the EDIT TRANSACTION window.

To delete the transaction, click FILE and DELETE CURRENT RECORD. A message will appear asking "Do You Want To Delete The Current Record." Click YES to delete the record — click NO if you do not wish to delete the record. Once you have deleted the record, you may search for and delete other transactions or click FINISHED to return to the AFC Administrator main menu.

## Adding a Transaction

To add a new transaction, perform the following steps:

From the AFC Administrator main screen (gas station), click TRANSACTIONS and EDIT. This will take you to the EDIT TRANSACTION window.

To add a record, click FILE and INSERT NEW RECORD. A blank record will be displayed in the EDIT TRANSACTION window.

Fill in the appropriate fields with the information pertaining to this transaction. You **must** fill in all of the blanks except the six description fields. After you complete your entries, click the SAVE RECORD button to save the added transaction. To exit without adding a transaction, click FINISHED.

If you try to add a transaction with the same transaction number, site number, unit number, date and time as an existing transaction, the system will tell you "Error in Updating Table — Function Cancelled." Click OK to clear the error message. This transaction will not be

added — the program will return you to the EDIT TRANSACTION window.

To exit the EDIT TRANSACTION window and return to the AFC Administrator main menu, click FINISHED.

## AFC Administrator Export Transactions

The AFC Administrator software is capable of exporting transactions to text file so they may be imported into another software package such as Microsoft Excel or Microsoft Access. The EXPORT utility allows you to select the transactions you wish to export individually or by date range, to define which fields you wish to export, and to select what order the fields are exported in. You can also set how the fields are separated, and how many transactions you wish to include on each line of text.

Only previously downloaded transactions may be exported. Transactions that have not been downloaded from the Phoenix AFC, or those downloaded and archived, are not available for export. If you need to export transactions that are not already in the transaction database on the PC, you must download the transactions from the Phoenix AFC and / or un-archive any archived transactions before trying to export them.

All changes to the EXPORT utility, with the exception of any changes to the order the columns are in, will be saved when you exit the EXPORT utility. You must specifically save the column order by using GRID OPTIONS menu item.

### Running the EXPORT Utility

To run the EXPORT utility, click TRANSACTIONS and VIEW / EXPORT from the AFC Administrator main screen (gas station). This will take you to the AFC - VIEW / EXPORT TRANSACTIONS screen.

### Selecting Fields to Export

The EXPORT utility allows you to select which fields you wish to export. In addition to the items normally included on the transaction, you may choose to include descriptions previously defined for vehicles, vehicle departments, vehicle classes, drivers, driver departments, and fuel types. The EXPORT utility also allows to de-select fields which you do not want to export.

Before selecting or de-selecting any fields, confirm what fields are expected by the program you are importing the data into -- consult the software documentation or the manufacturer for additional information.

To select or de-select a field, do the following:

- In the upper right corner of the AFC - VIEW / EXPORT TRANSACTIONS window you will find three icons -- a dash, a box and an X. Click the box icon to expand the window to fill the computer screen.
- The field descriptions are located at the top of the screen. Descriptions with a line through them will not be exported -- those which do not have a line through them will be exported.
- Using the scroll bar at the bottom of the AFC - VIEW / EXPORT TRANSACTIONS window, scroll left or right until you find the field you wish to include or exclude.

- Right-click on the field name you wish to include or exclude. A format window will appear containing information about the field.
- To include a field for export, make sure there is a check mark in the box labeled EXPORT <field name>. If there is no check mark in the box and you wish to export this field, click the check mark box to insert a check mark.
- To exclude a field for export, make sure there is not a check mark in the box labeled EXPORT <field name>. If there is a checkmark in the box and you do not wish to export this field, click the check mark box to remove the check mark.

## Field Export Options

Within the EXPORT <field name> window, you may notice certain fields will have other options. These options vary according to the field, and not all are available for each field -- if the option is grayed-out, it is not available for this field.

Before changing any of these settings, confirm what is expected by the program you are importing the data into -- consult the software documentation or the manufacturer for additional information.

Please note -- the data displayed on the screen will not change when these settings are changed -- the settings only affect the exported data.

The field export options are as follows:

- **USE FOUR DIGIT YEAR** -- This allows a date to be exported as a four-digit year rather than 2 digits. If this box is not checked, the year 1999 would be displayed as 99, and the year 2000 would be displayed as 00. This option is selected if a check mark is in the box next to the description -- to select or deselect this option, click in the box.
- **INCLUDE SLASHES IN DATE** -- This allows the date to be exported with the slash '/' character between the month, day and year. This option is selected if a check mark is in the box next to the description -- to select or deselect this option, click in the box.
- **USE SORTABLE DATE** -- This allows the date to be exported in the year, month, day format. This format makes it easier for some software to sort the transactions by date. This option is selected if a check mark is in the box next to the description -- to select or deselect this option, click in the box.
- **INCLUDE COLON IN TIME** -- This allows the time to be exported with the colon ':' character between the hours and minutes. This option is selected if a check mark is in the box next to the description -- to select or deselect this option, click in the box.
- **INCLUDE DECIMAL POINT IN QUANTITY** -- This allows the fuel quantity to be exported with the included decimal point. This option is selected if a check mark is in the box next to the description - to select or deselect this option, click in the box.
- **INCLUDE DECIMAL POINT IN SALE** -- This allows the total sale to be exported with the included decimal point. This option is selected if a check mark is in the box next to the description - to select or deselect this option, click in the box.
- **INCLUDE DECIMAL POINT IN PRICE PER UNIT** -- This allows the fuel price per unit to be

exported with the included decimal point. This option is selected if a check mark is in the box next to the description -- to select or deselect this option, click in the box.

- **INCLUDE DECIMAL POINT IN MILES PER GALLON** -- This allows the miles per gallon calculation to be exported with the included decimal point. This option is selected if a check mark is in the box next to the description -- to select or deselect this option, click in the box.
- **INCLUDE DECIMAL POINT IN COST PER MILE** -- This allows the cost per mile calculation to be exported with the included decimal point. This option is selected if a check mark is in the box next to the description -- to select or deselect this option, click in the box.
- **INCLUDE TRANSACTIONS WITH QUANTITY OF ZERO** -- This allows transactions with a fuel quantity of zero to be exported. This option is selected if a check mark is in the box next to the description -- to select or deselect this option, click in the box.
- **DO NOT ENCLOSE DESCRIPTION FIELD IN QUOTES** -- This allows the descriptions to be exported with the description in quotes. This option is selected if a check mark is in the box next to the description -- to select or deselect this option, click in the box.
- **DATA LENGTH** -- This determines how many characters in length the field will be when exported. This option is changed by clicking in the DATA LENGTH box and typing in the desired length, from 1-99 characters.
- **LEADING CHARACTERS** -- This determines how many extra characters will be inserted before the characters contained in the field -- it also determines what character will be inserted.

The number of leading characters is changed by clicking in the HOW MANY box and typing in the desired length, from 1-99 characters.

To make the leading character(s) a space, click on the SPACES box to place a check mark in it. To use another character, click in the CHARACTER box and type in the character you wish to use.

- **TRAILING CHARACTERS** -- This determines how many extra characters will be inserted after the characters contained in the field -- it also determines what character will be inserted.

The number of trailing characters is changed by clicking in the HOW MANY box and typing in the desired length, from 1-99 characters.

To make the trailing character(s) a space, click on the SPACES box to place a check mark in it. To use another character, click in the CHARACTER box and type in the character you wish to use.

### **Rearranging Field Export Order**

If needed, you may rearrange the order the columns of data to match the input requirements of another program. However, the EXPORT utility does not automatically save the revised order when you exit -- you must specifically save the column order by using SAVE CURRENT COLUMN LAYOUT in the GRID OPTIONS menu.

To change the column order, do the following:

- In the upper right corner of the AFC - VIEW / EXPORT TRANSACTIONS window you will find three icons -- a dash, a box and an X. If you have not already done so previously, click the box icon to expand the window to fill the computer screen.

- The column descriptions are located at the top of the screen. Descriptions with a line through them will not be exported -- those which do not have a line through them will be exported.
- **Using the scroll bar at the bottom of the AFC - VIEW / EXPORT TRANSACTIONS window,** scroll left or right until you find the column you wish to move.
- Position the mouse pointer on the heading of the column you wish to move. Click and hold the left mouse button -- the pointer should change to <-MOVE->.
- While holding down the left mouse button, drag the mouse pointer left or right until you find the place you want to move the column to.

If you are moving a column to the left, the column will be inserted to the left of the column where the mouse pointer is positioned. If you are moving a column to the right, the column will be inserted to the right of the column where the mouse pointer is positioned.

Release the mouse button to insert the column in its new location.

If you want to move the column to a position currently off the screen, you will have to move it to the edge of the screen, position it there, then scroll over and click / move it the rest of the way.

- After releasing the mouse button, the system will advise you "This will change the layout of the Export file. Are you sure you want to move this column?" Click YES to leave the column in its new position -- click NO to restore it to the original location.

## Grid Options

The GRID OPTIONS menu allows you to select how the transactions are sorted, as well as saving the new column layout or restoring the default column layout. To access the GRID OPTIONS menu click the OPTIONS menu item in the upper left corner of the screen and select GRID OPTIONS.

The GRID OPTIONS are as follows:

- **SORT ORDER** -- This setting determines how the transactions are ordered with respect to whatever field is in the leftmost column. If the leftmost column is the transaction number, all of the transactions will be sorted by transaction number. If the leftmost column is the transaction date, all of the transactions will be sorted by transaction date.

To sort from smallest to largest number, or oldest to newest date, click OPTIONS, GRID OPTIONS, SORT ORDER and ASCENDING. To sort from largest to smallest number or newest to oldest date, click OPTIONS, GRID OPTIONS, SORT ORDER and DESCENDING.

- **SAVE CURRENT COLUMN LAYOUT** -- This setting allows you to save the revised column arrangement.

To save the current column layout, click OPTIONS, GRID OPTIONS and SAVE CURRENT COLUMN LAYOUT.

- **RESTORE DEFAULT COLUMN LAYOUT** -- This setting allows you to reset the column arrangement back to the factory default.

To revert back to the default column layout, click OPTIONS, GRID OPTIONS and RESTORE

DEFAULT COLUMN LAYOUT. Keep in mind there is no undo feature on this item -- once you have restored the column layout, you must manually reconfigure any items that were set different from the default values.

## Export Options

The EXPORT OPTIONS allow you to select how the exported transactions are formatted. This allows you to set how columns are separated, how many transactions will be on each line, whether or not the column headings will be included in the export file, and whether or not you want to view the contents of the export file after it is generated.

Before changing any of these settings, verify the data input requirements of the program you will be importing the data into. The software manufacturer should be able to provide you with information on what input data format is expected.

To access the EXPORT OPTIONS menu, click the OPTIONS menu item in the upper left corner of the screen and select EXPORT OPTIONS.

The EXPORT OPTIONS are as follows:

- **DELIMITER** -- This setting determines what character, if any, is used to separate the individual fields on each transaction. In most cases, a space or comma is used. DELIMITERS include COMMA, SEMICOLON, ASTERISK, SPACE, TAB and NONE.

To change the DELIMITER, click OPTIONS, EXPORT OPTIONS and DELIMITER -- select the DELIMITER from the list.

- **TRANSACTIONS PER LINE** -- This setting determines how many transactions are included on one line in the export file. In most cases, this setting is one transaction per line. TRANSACTIONS PER LINE may be set to 1, 2, 3, 4 or 5.

To change the TRANSACTIONS PER LINE, click OPTIONS, EXPORT OPTIONS and TRANSACTIONS PER LINE -- select the number of TRANSACTIONS PER LINE from the list.

- **INCLUDE COLUMN HEADINGS** -- This setting determines whether or not the exported information will include headings for each column of data.

To include the column headings in the exported file, click OPTIONS, EXPORT OPTIONS and INCLUDE COLUMN HEADINGS. This will place a check mark next to INCLUDE COLUMN HEADINGS. To exclude the column headings, perform the same steps to remove the check mark.

- **VIEW AFTER EXPORT** -- This setting determines whether or not the EXPORT utility will open the exported file and let you view the contents after the transactions are exported.

To view the contents of the exported file after it is created, click OPTIONS, EXPORT OPTIONS and VIEW AFTER EXPORT. This will place a check mark next to VIEW AFTER EXPORT. To turn this feature off, perform the same steps to remove the checkmark.

- **RESTORE ALL DEFAULT SETTINGS** -- This item will restore all of the user-configurable settings in the EXPORT utility back to the default settings. There is no undo feature for this item -- once you have restored the default settings you must manually reconfigure any items that were set different from the default values.

To restore the default settings, click **OPTIONS**, **EXPORT OPTIONS** and **RESTORE ALL DEFAULT SETTINGS**. Once all of the settings have been returned to their default values, you will be returned to the **AFC - VIEW / EXPORT TRANSACTIONS** screen.

## Selecting Transactions to Export

There are two ways to select which transactions you want to export, by manual selection and by date range. If you know the range of dates you wish to export, use the **RANGE** option. If you want to select specific transactions to export, use the **SELECTION** option.

- **SELECTION** -- This option allows you to manually select specific transactions to export. You may select one transaction, several individual transactions, or a group of transactions.

Any or all of these different methods detailed below may be used to select the transactions you wish to export.

### Single Transactions

To select a single transaction, position the mouse pointer over the transaction and click. This will highlight the transaction in blue. To de-select the transaction, click on it again.

### Multiple Random Transactions

To select multiple non-contiguous transactions, position the mouse pointer over the first transaction and click. This will highlight the transaction in blue. Move the mouse pointer to the next transaction you wish to export, press and hold the control (**CTRL**) key while clicking the mouse. This will highlight the second transaction in blue. To select more transactions, use the mouse and control key again. To de-select a transaction, hold the control key while clicking on the transaction you wish to de-select.

### Multiple Adjacent Transactions

To select a contiguous range of transactions, position the mouse pointer over the first transaction you wish to export, then click and hold the mouse button. While holding the mouse button down, move the mouse pointer up or down until it is positioned on the last transaction you wish to export. As you move the mouse, each transaction the pointer passes over should be highlighted in blue. When the last transaction is highlighted, release the mouse button. All of the transactions in the selection should be highlighted in blue.

Alternately, you may click on the first transaction you wish to export, move the mouse pointer to the last transaction you wish to export, press and hold the shift key, and click on the last transaction. This will highlight the first and last transaction, and every one between, in blue.

To de-select the whole range of transactions, click on any transaction -- this will de-select all transactions except the one you clicked on.

- **RANGE** -- This option lets you select a range of transactions you wish to export by date. This feature is actually part of the **EXPORT** option, and is accessed by clicking the **FILE** menu item in the upper left corner of the screen and selecting **EXPORT** and **RANGE**.

Once you have clicked **RANGE**, the **ENTER DATE RANGE** window should be displayed. In the **FROM** box, type in the month, day and year of the oldest transaction you want to export. In the **TO**

box, type in the month, day and year of the newest transaction you want to export. Be sure to enter a four-digit year.

Click OK to export all transactions on and between the two dates entered in the FROM and TO box. Click CANCEL to abort the export of these transactions.

### **Exporting the Transactions**

- **SELECTION**-- If you have selected a list of transactions to export using the mouse, click the FILE menu item in the upper left corner of the screen and select EXPORT and SELECTION. The EXPORT TO... window will be displayed.

- **RANGE** -- If you are selecting transactions to export by date, click the FILE menu item in the upper left corner of the screen and selecting EXPORT and RANGE.

Once you have clicked RANGE, the ENTER DATE RANGE window should be displayed. In the FROM box, type in the month, day and year of the oldest transaction you want to export. In the TO box, type in the month, day and year of the newest transaction you want to export. Be sure to enter a four-digit year.

Click OK to export all transactions on and between the two dates entered in the FROM and TO box. Click CANCEL to abort the export of these transactions.

- **EXPORT TO...** -- Once you have picked SELECTION or RANGE, the EXPORT TO... window will be displayed. Navigate to the appropriate folder you wish to save the exported transactions to and enter the name of the file you wish to create in the FILE NAME box. Click SAVE to export the transactions to the file, or CANCEL to abort the export process.

Once the transactions have been exported you will be advised that the export was successful. Click OK to clear the message and return to the AFC - VIEW / EXPORT TRANSACTIONS screen.

If you chose to view the transactions after export, the NOTEPAD program will display the contents of the exported file. Click FILE and EXIT in the NOTEPAD window close NOTEPAD.

### **Exiting the EXPORT Utility**

- To exit the EXPORT utility, click the FINISHED button in the lower left corner of the AFC - VIEW / EXPORT TRANSACTIONS screen.

# AFC Administrator Archive Transactions

Transactions that are retrieved from the Phoenix AFC are stored in a transaction database file on the PC. The database is capable of storing a huge number of transactions, and the software is capable of generating reports from this file, no matter how large it becomes. However, as the size of the database file increases, the length of time required to search through it increases exponentially.

In order to manage the size of the database file and to increase the speed at which reports are generated, an archive utility was added to the AFC Administrator software. This utility allows you to transfer older transactions from the active transaction database file to an archive database file. These archived transactions may be easily moved back to the active transaction database file if needed. You may also run reports from the archive database should you not wish to move the transactions back to the active database file.

## Archiving Transactions

To move one or more transactions from the active database file to the archive database file, do the following:

From the AFC Administrator main screen (gas station), click TRANSACTIONS and ARCHIVE TRANSACTIONS. The ARCHIVE TRANSACTIONS window will appear and prompt you for a date.

The archive utility lets you archive transactions occurring on or before a specified date. Determine the archive date you wish to use and enter it in the EARLIER THAN box. Be sure to enter all four digits of the year. Click OK to begin the archive process.

If transaction database is empty or it contains no transactions on or before the date specified, the system will tell you "There are No Records Satisfying Specified Condition To Archive." Click OK to return to the main AFC Administrator screen.

If the archive utility finds any transactions dated on or before the specified date, it will tell you "nn Records Will Be Archived Do You Want To Continue?" Click YES to archive the transactions — click NO to cancel the archive process.

Once the transactions have been archived, you will be returned to the AFC Administrator main screen.

## Importing Archived Transactions

To import one or more transactions from the archive database file back into the active database file, do the following:

From the AFC Administrator main screen (gas station), click TRANSACTIONS and IMPORT TRANSACTIONS FROM ARCHIVED DB. The IMPORT TRANSACTIONS FROM ARCHIVED DB window will appear and prompt you for a date.

The import utility lets you unarchive transactions occurring on or after a specified date. Determine the import date you wish to use and enter it in the DATE box. Be sure to enter all four digits of the year. Click OK to begin the import process.

An IMPORT TRANSACTIONS window will appear advising you of the date ranges for the active and

archived transactions. Verify the dates and click YES to import the transactions — click NO to cancel.

If archive database is empty or it contains no transactions on or after the date specified, the system will tell you “There are No Records Satisfying Specified Condition In Archived DB.” Click OK to return to the main AFC Administrator screen.

If the import utility finds any transactions dated on or after the specified date, it will tell you “nn Records Will Be Imported Into Active DB. Do You Want To Continue?” Click YES to archive the transactions — click NO to cancel the archive process.

Once the transactions have been imported, you will be returned to the AFC Administrator main screen.

## Running Reports On Archived Transactions

There are two ways to run reports on transactions that have been archived — by importing them back into the active database, or by selecting to use the archive database in the AFC REPORTS SELECTION screen. You should only import the transactions back into the active database if you need to run a report that includes both active and archived transactions. To run a report on archived transactions without importing them back into the active database, do the following:

From the AFC ADMINISTRATOR main screen, click REPORTS. This will take you to the AFC REPORTS SELECTION screen.

Within the TRANSACTION tab, select the report, report type, date range and other options you want.

In the DATABASE SELECTION section, select ARCHIVED DB. This will tell the report program to use the archived transactions database file instead of the active transactions database file.

Click PREVIEW to view the report on the screen — click PRINT to send the report to the printer. Click EXPORT to send the report to a file, or click FINISHED to exit without running a report.

## Explanation of AFC Administrator Database Files

On older versions of the AFC Administrator Program, all of the programming and configuration was stored in a single database file called AFC.MDB. As features were added, the AFC.MDB file was broken down into multiple files in order to support multiple sites.

The information below is provided to help you better understand how and where data is stored. You **SHOULD NOT** attempt to modify these database files manually. Manual editing may damage or corrupt these files, which could disable the Phoenix AFC or cause the AFC Administrator program to function improperly. The AFC Administrator database files are as follows:

### PROFILE0.MDB

This file contains programming pertaining to the CARDS / KEYS, DEPARTMENTS / ACCOUNTS, DRIVERS, VEHICLES and VEHICLE CLASSES tables found in the AFC CONFIGURATION screen of the AFC Administrator program. Normally there is only one profile database file, PROFILE0.MDB, even if you have multiple Phoenix AFC systems.

In the event you have multiple Phoenix AFC systems and you wish to limit certain vehicles or drivers to a particular system, you would create additional profiles. These other profiles would be called PROFILE1.MDB, PROFILE2.MDB and so on.

## **SITE1.MDB**

This file contains programming pertaining to the GENERAL CONFIG, FUELING POSITION and FUEL TYPES tables found in the AFC CONFIGURATION screen of the AFC Administrator program. It also contains an EVENTS table, which logs communication events such as transmitting configurations or downloading transactions. In most cases, there is only one site database file, SITE1.MDB. However, in cases where there are multiple Phoenix AFC systems with different fuel types and fueling positions, or different general configuration settings, additional sites would be created. These sites would be called SITE2.MDB, SITE3.MDB and so on.

## **SITECONFIG.MDB**

This file contains the JOBQUEUE, SITES, SOFTWARE VERSION, and UPDATE tables. It keeps track of the different sites that are configured, the automatic functions in SETUP / EDIT JOB QUEUE screen, any configuration updates that need to be transmitted, and the current software version.

## **TRANS.MDB**

This file contains the TRANSACTIONS table, which contains transactions that have been downloaded from the Phoenix AFC.

## **ARCHIVE.MDB**

This file contains the ARCHIVE table, which contains transactions that have been downloaded from the Phoenix AFC and archived by the AFC Administrator software.

## **Backing Up Phoenix AFC Database Files to Disk**

**(Applies to version AFC Administrator 2.0.5 or higher)**

This process backs up each type of Phoenix AFC file to a separate disk. Separate disks should be used because once the system is up and running, all of the files will not fit on one disk.

This procedure asks you to use a blank, formatted disk -- you may reuse the disks to make daily or weekly backups. However, when you attempt to copy the files to the used disk, the computer will warn you the file already exists. To copy the new file, click YES to replace the existing file on the disk with the newer copy.

**Navigate to the AFC ADMINISTRATOR folder:**

Exit the AFC Administrator program and return to the Windows Desktop.

Double-click on the MY COMPUTER icon.

In the MY COMPUTER window, double-click on the C: drive icon.

In the C: window, double-click on the PROGRAM FILES icon.

In the PROGRAM FILES window, double-click on the AFC ADMINISTRATOR icon.

In the upper-right corner of the AFC ADMINISTRATOR window, there are three small icons, a minus sign, a box and an X -- click on the box icon to make the window larger.

At the top of the AFC ADMINISTRATOR window on the left side, click the VIEW menu item, then click DETAILS -- this will list the files in order.

At the top of the AFC ADMINISTRATOR window are the column headings NAME, SIZE, TYPE and MODIFIED -- click on the word TYPE to sort the files according to type.

### **Back Up ARCHIVE file: (Ignore this step if the ARCHIVE feature has not been used previously)**

Insert a blank, formatted disk labeled ARCHIVE into the floppy drive.

Scroll through the list of files until you find the file ARCHIVE.MDB. The file may also be listed as ARCHIVE with an icon that looks like a piece of paper with a key on it. Right-click on the file name and a menu will appear. On this menu, choose SEND TO, then click on 3 1/2 FLOPPY (A) -- this will copy the file to the floppy disk.

Once the file is copied, eject the disk labeled ARCHIVE and store in a safe place.

### **Back Up the PROFILE File(s):**

Insert a blank, formatted disk labeled PROFILE into the floppy drive.

Scroll through the list of files until you find the file PROFILE0.MDB. The file may also be listed as PROFILE0 with an icon that looks like a piece of paper with a key on it. Right-click on the file name and a menu will appear. On this menu, choose SEND TO, then click on 3 1/2 FLOPPY (A) -- this will copy the file to the floppy disk. If there are other PROFILE files such as PROFILE1.MDB, you will copy them to this disk also. **DO NOT** copy the PROFILE-PROTO.MDB file.

Once the file is copied, eject the disk labeled PROFILE and store in a safe place.

### **Back Up the SITE Files:**

Insert a blank, formatted disk labeled SITE into the floppy drive.

Scroll through the list of files until you find the file SITE1.MDB. The file may also be listed as SITE1 with an icon that looks like a piece of paper with a key on it. Right-click on the file name and a menu will appear. On this menu, choose SEND TO, then click on 3 1/2 FLOPPY (A) -- this will copy the file to the floppy disk. If there are other SITE files such as SITE2.MDB, you will copy them to this disk also. **DO NOT** copy the SITE-PROTO.MDB file.

Scroll through the list of files until you find the file SITECONFIG.MDB. The file may also be listed as SITECONFIG with an icon that looks like a piece of paper with a key on it. Right-click on the file name and a menu will appear. On this menu, choose SEND TO, then click on 3 1/2 FLOPPY (A) -- this will copy the file to the floppy disk. **DO NOT** copy the SITECONFIG-PROTO.MDB file.

Once the file is copied, eject the disk labeled SITE and store in a safe place.

## Back Up the TRANSACTION File:

Insert a blank, formatted disk labeled TRANSACTIONS into the floppy drive.

Scroll through the list of files until you find the file TRANS.MDB. The file may also be listed as TRANS with an icon that looks like a piece of paper with a key on it. Right-click on the file name and a menu will appear. On this menu, choose SEND TO, then click on 3 1/2 FLOPPY (A) -- this will copy the file to the floppy disk. **DO NOT** copy the TRANS-PROTO.MDB file.

Once the file is copied, eject the disk labeled TRANS and store in a safe place.

**This completes the backup procedure for the AFC Administrator database files.**

## AFC JOB QUEUE And Polling

The Phoenix AFC JOB QUEUE utility is used to automate certain routine tasks such as transmitting updates, downloading transactions, archiving transactions, and repairing / compacting the configuration and transaction databases. These functions can be performed for any or all sites on hourly, daily or weekly basis.

### IMPORTANT NOTE:

The date and time setting on the PC must be correct, the AFC Administrator software must be running and the JOB QUEUE must be enabled in order for the JOB QUEUE utility to function correctly.

In addition, the serial port or modem used to access the Phoenix AFC must be available and functional. If the serial port or modem is being shared with other software, the job will not execute if the other program is using the serial port or modem when the JOB QUEUE program is trying to connect to the Phoenix AFC.

Before configuring any jobs, you should familiarize yourself with the types of jobs that can be scheduled and the frequency at which jobs may be performed. The following describes the jobs that may be performed at specified intervals.

### Job Names

The following is a list of the different automated jobs that the JOBQUEUE utility will perform:

- **TRANSMIT UPDATES** -- This function transmits any previously untransmitted additions, changes and corrections made in the AFC CONFIGURATION screen. As you make programming changes, the AFC Administrator program logs the changes in the UPDATES table. The TRANSMIT UPDATES function in both the JOB QUEUE and AFC CONFIGURATION screen look at this update list and transmit these changes to the Phoenix AFC. Once the changes are transmitted, the list of updates is cleared.
- **DOWNLOAD TRANSACTIONS** -- This function downloads all new transactions from the Phoenix AFC to the PC. Any transactions performed since the last download will be transmitted to the PC from the Phoenix AFC.
- **EXPORT YESTERDAYS TRANSACTIONS** -- This function exports transactions from the

**previous day to a text file. The file is named EXPORTmmddyyyy.TXT, where mm is the numeric month, dd is the numeric day and yyyy is the 4-digit numeric year.**

Example: If this function was performed on December 6, 1999, all transactions occurring on December 5<sup>th</sup> would be exported to a file called EXPORT12051999.TXT.

Please note: This function only exports transactions from the previous day. It will not export transactions from days prior to the previous day.

- **DOWNLOAD ALL TABLES** -- This function downloads all of the configuration tables from the Phoenix AFC to the PC. As fueling transactions occur, some fields are updated on the Phoenix AFC -- this function allows the PC to read in and store these updated fields in the appropriate fields.
- **DOWNLOAD TABLE GEN CONFIG** -- This function downloads the GENERAL CONFIG table from the Phoenix AFC to the PC. As fueling transactions occur, some fields in this table are updated on the Phoenix AFC -- this function allows the PC to read in and store these updated fields for this table.
- **DOWNLOAD TABLE CARD** -- This function downloads the CARDS / KEYS table from the Phoenix AFC to the PC. As fueling transactions occur, some fields in this table are updated on the Phoenix AFC -- this function allows the PC to read in and store these updated fields for this table.
- **DOWNLOAD TABLE DEPARTMENT** -- This function downloads the DEPARTMENTS / ACCOUNTS table from the Phoenix AFC to the PC. As fueling transactions occur, some fields in this table are updated on the Phoenix AFC -- this function allows the PC to read in and store these updated fields for this table.
- **DOWNLOAD TABLE DRIVER** -- This function downloads the DRIVERS table from the Phoenix AFC to the PC. As fueling transactions occur, some fields in this table are updated on the Phoenix AFC -- this function allows the PC to read in and store these updated fields for this table.
- **DOWNLOAD TABLE VEHICLE** -- This function downloads the VEHICLES table from the Phoenix AFC to the PC. As fueling transactions occur, some fields in this table are updated on the Phoenix AFC -- this function allows the PC to read in and store these updated fields for this table.
- **DOWNLOAD TABLE VEHICLE CLASS** -- This function downloads the VEHICLE CLASSES table from the Phoenix AFC to the PC. As fueling transactions occur, some fields in this table are updated on the Phoenix AFC -- this function allows the PC to read in and store these updated fields for this table.
- **DOWNLOAD TABLE FUELPOS** -- This function downloads the FUELING POSITIONS table from the Phoenix AFC to the PC. As fueling transactions occur, some fields in this table are updated on the Phoenix AFC -- this function allows the PC to read in and store these updated fields for this table.
- **DOWNLOAD TABLE FUEL TYPE** -- This function downloads the FUELTYPE table from the Phoenix AFC to the PC. As fueling transactions occur, some fields in this table are updated on the Phoenix AFC -- this function allows the PC to read in and store these updated fields for this table.
- **ARCHIVE TRANSACTIONS** -- This function moves records in the TRANSACTION database more than 90 days old into the ARCHIVE database. Archiving older transactions improves the efficiency of any utility that works with the TRANSACTION database.

- **REPAIR / COMPACT DB** -- This function repairs, sorts and compacts all of the database files. As the database files are added to, items can become stored out of sequence -- as things are deleted, gaps occur in the database. This utility re-sequences each database, removes gaps in the sequence, and searches for / corrects any errors.

## Job Frequency

Jobs may be scheduled to run at various user-defined intervals including weekly, daily and hourly. In addition, you may define the time of day they will be executed.

Please note: Jobs scheduled to run on the same day during the same hour must be spaced a minimum of six minutes apart. The JOB QUEUE utility will not allow you to save a job if the time is within six minutes of a job that already exists.

The following is a list of different frequencies at which jobs may be performed:

- **HOURLY** -- This setting allows a job to execute every hour. To set a job to run hourly, set the FREQUENCY to HOURLY. You must also set the number of minutes after the hour that the job will run. To do this, set the MINUTES AFTER HOUR box to the number of minutes after the hour at which the job should execute.
- **DAILY** -- This setting allows a job to execute once a day. To set a job to run daily, set the FREQUENCY to DAILY. You must also set a time for the job to run. To do this, enter the time you want the job to run in the TIME box.

Please note: The time is in military units -- ie 9:30 AM = 09:30, 12 noon = 12:00, 2:45 PM = 14:45, etc...

- **WEEKLY** -- This setting allows a job to execute once a week. To set a job to run weekly, set the FREQUENCY to WEEKLY. You must also set a day and time for the job to run. To set the day, click the down arrow next to the DAY box and click on the day of the week from the list. To set the time, enter the time you want the job to run in the TIME box.

Please note: The time is in military units -- ie 9:30 AM = 09:30, 12 noon = 12:00, 2:45 PM = 14:45, etc...

## Running the JOB QUEUE Utility

The JOB QUEUE utility allows you add, modify and delete jobs that will be automatically executed by the AFC Administrator software. To run the JOB QUEUE utility, do the following:

- Click FILE and SETUP JOB QUEUE from the AFC Administrator main screen (gas station). This will display the SETUP / EDIT JOB QUEUE window.

Please note: Before the JOBQUEUE feature can be used, you must create at least one job and enable the JOB QUEUE.

## Creating a New Job

To create a new job, the JOB QUEUE utility must be running. See the above section on how to run the JOB QUEUE utility. Within the SETUP / EDIT JOB QUEUE window, perform the following steps:

- **Create a new job** -- Click the NEW JOB button to create a new job. The ADD A NEW JOB TO QUEUE window will be displayed.
- **Select which job to run** -- Click the down arrow next to the JOB NAME box and click on the type of job you wish to run.
- **Select how often the job will run** -- Click the down arrow next to the FREQUENCY box and click on how often the job will run.
- **Select which day the job will run** -- If you have set the job to run weekly, you must select which day the job will run. Click the down arrow next to the DAY box and click on the day the job will run.
- **Select which site the job is for** -- You must select which site the job will be executed for. To select the site, click the down arrow next to the SITE box and click on the site the job is for.
- Please note: If you want to execute the same job for more than one site, you must create a separate job for each site.
- **Select time / minutes after hour job will run** -- Depending on whether a job will run hourly, daily or weekly, you will have a TIME or MINUTES AFTER HOUR box displayed in the ADD A NEW JOB TO QUEUE window.

For jobs that execute daily or weekly, the TIME box will be displayed. To select a time for the job to run -- enter the job time in the TIME box.

For jobs that execute hourly, the MINUTES AFTER HOUR box will be displayed. To set the number of minutes after the hour the job will run, set the hour portion of MINUTES AFTER HOUR box to the current hour, and the minutes portion to the number of minutes after the hour at which the job should execute.

Please note: The time is in military units -- ie 9:30 AM = 09:30, 12 noon = 12:00, 2:45 PM = 14:45, etc...

- **Set the status** -- The STATUS box determines whether or not a particular job will be executed when the preset day / hour is reached. If the status is PENDING, the job will be executed -- if the status is INACTIVE, the job will be ignored. Click the down arrow next to the STATUS box and click on the status you wish to set for this job.
- **Save the job** -- If you have verified your settings and wish to save the job, click the OK button at the bottom of the ADD A NEW JOB TO QUEUE window to save the job and add it to the queue. You will be returned to the SETUP / EDIT JOB QUEUE window and the job will appear in the list of jobs.
- **Cancel the job** -- If you do not wish to save the job, click the CANCEL button at the bottom of the ADD A NEW JOB TO QUEUE window. You will be returned to the SETUP / EDIT JOB QUEUE window and the job will not appear in the list of jobs.

### Modifying an Existing Job

Any of the settings of an existing job may be changed if necessary. To modify an existing job, perform the following steps:

- **Select the job you wish to modify** -- From the SETUP / EDIT JOB QUEUE window, click the JOB NAME of the job you wish to modify. A light dotted line should appear around the job name.
- **Open the job for modification** -- Once the job has been selected, click the EDIT button at the bottom of the SETUP / EDIT JOB QUEUE window. This will open the EDIT A JOB window, listing the current settings for this job.
- **Change the necessary settings** -- once you are in the EDIT A JOB window, you may change any or all of the settings as needed. See the previous section for information on changing the settings.
- **Save the job** -- If you have verified your changes and wish to save the job, click the OK button at the bottom of the EDIT A JOB window to save the job and add it to the queue. You will be returned to the SETUP / EDIT JOB QUEUE window and the modified job will appear in the list of jobs.
- **Cancel the job** -- If you do not wish to save your changes, click the CANCEL button at the bottom of the EDIT A JOB window. You will be returned to the SETUP / EDIT JOB QUEUE window and the original job will appear in the list of jobs.

### Deleting an Existing Job

Any existing job may be deleted if necessary. To delete an existing job, perform the following steps.

- **Select the job you wish to delete** -- From the SETUP / EDIT JOB QUEUE window, click the JOB NAME of the job you wish to modify. A light dotted line should appear around the job name.
- **Delete the job** -- Click the DELETE CURRENT JOB button at the bottom of the SETUP / EDIT JOB QUEUE window. The job will be deleted and removed from the list of jobs.

### Exiting the JOB QUEUE Utility

Once you have finished adding, deleting or modifying jobs in the JOB QUEUE, you must exit back to the AFC Administrator main screen. To exit the JOB QUEUE, click the FINISHED button at the bottom of the SETUP / EDIT JOB QUEUE window

### Enabling / Disabling the JOB QUEUE

Jobs set up in the JOB QUEUE utility will not be executed unless the AFC Administrator software is running **and** the JOB QUEUE is enabled.

The following steps assume you have already set up at least one job in the JOB QUEUE and the communication between the PC and the Phoenix AFC is configured and working properly.

#### To enable the JOB QUEUE, do the following:

- From the AFC Administrator main screen (gas station), click FILE and ENABLE JOB QUEUE -- This activates the JOB QUEUE. This will place a check mark next to the ENABLE JOB QUEUE menu item and return you to the AFC Administrator main screen.
- While the JOB QUEUE is enabled, all of the buttons and menu items except FILE and the EXIT (door) icon will be grayed out -- no other AFC Administrator features are accessible. Any jobs with a STATUS of PENDING, will be executed at appropriate time.

**To disable the JOB QUEUE, do the following:**

- From the AFC Administrator main screen, click FILE and ENABLE JOB QUEUE. The check mark next to ENABLE JOB QUEUE will be removed and you will be returned to the AFC Administrator main screen. All of the menu items and icons will return to their normal appearance.

**Testing a Job**

If you wish to manually test a job, perform the following steps:

- **Verify the PC / AFC communications** -- Before attempting to use any of the JOB QUEUE features, be sure the PC is able to communicate with the PC by manually transmitting the configuration or downloading transactions.
- **Record the job settings** -- Write down the settings for each job you want to test. The JOB NAME, FREQUENCY, DAY and TIME are the most important things to note.
- **Enable the JOB QUEUE** -- In order for a job to execute, the JOB QUEUE must be enabled. Refer to the section above on enabling the JOB QUEUE.
- **Advance the computer date and time** -- Double-click on the time displayed in the lower left corner of the computer screen. This will bring up the DATE / TIME PROPERTIES screen from Windows. Advance the date and time to two minutes before the time the job is to execute -- click the APPLY button to save the date and time setting.
- **Watch for the job to execute** -- When the computer time approaches the time the job is set for, the appropriate screen will appear and the AFC Administrator software will begin attempting to communicate with the Phoenix AFC. Once the job has executed AFC Administrator main screen will be displayed.
- **Disable the JOB QUEUE** -- In order to access other portions of the AFC Administrator program, you must disable the JOB QUEUE. Refer to the section above on disabling the JOB QUEUE.
- **Verify the job executed** -- From the AFC Administrator main screen, click UTILITIES and ACTIVITY log. -- the ACTIVITY LOG screen will be displayed. If the job was completed successfully, the last entry in the log should be for that job.

Click the FINISHED button to exit the ACTIVITY LOG screen.

# TROUBLESHOOTING AND REPAIR

An attempt was made to discuss users' most common problems with the Phoenix AFC. If your problem is not included or is not discussed in the detail you need, please contact Tuthill Transfer Systems Technical Support for more information.

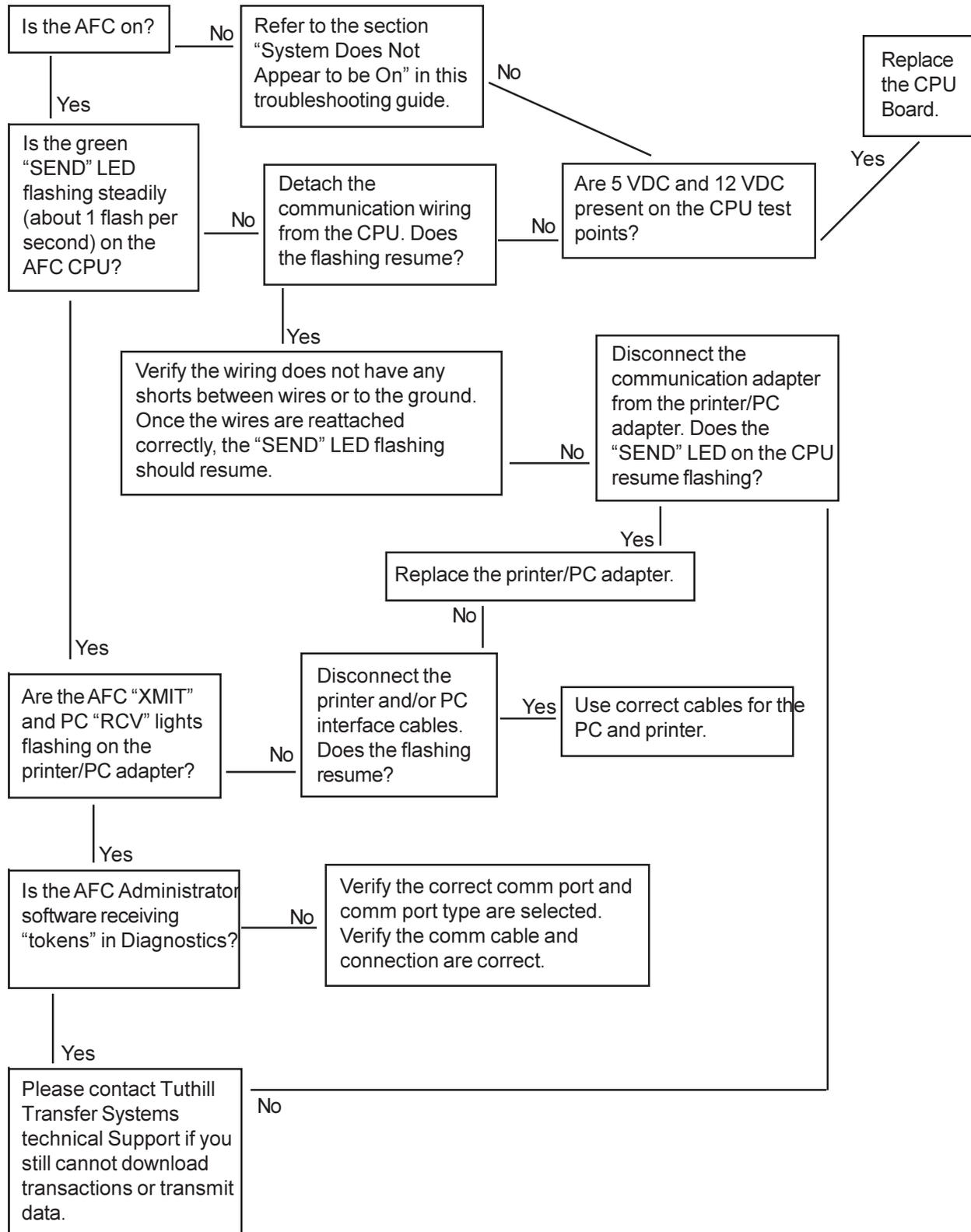
## Software

### Reports Do Not Prompt for Date Ranges

The AFC Administrator software should always prompt you to input a date range for any of the reports you wish to view or print. It will not prompt for the date ranges if a valid Windows printer driver is not installed. You must install at least one appropriate non-generic printer driver before the reports will run correctly.

# PC Not Communicating with AFC

## Unable to Download Transactions or Transmit Data



# APPENDIX

## Glossary of Terms and Abbreviations

**AU – AUthorize.** Red indicator LED on the ICB that indicates the pump has been authorized.

**AWG – American Wire Gauge.**

**Cabinet** – Outer casing or enclosure of the Phoenix AFC unit.

**CPU – Central Processing Unit.** The Phoenix AFC system board that controls the functions of the pumps and dispensers, controls user access, and records fueling transactions.

**DIP Switch – Dual Inline Package Switch.** A tiny toggle switch built into a DIP (chip housing containing leads, or pins), which is mounted directly on a circuit board. The tip of a pen or pencil is required to flip the switch on or off.

**EMR – Electric Motor Return (switch kit).** An electronic device that supplies a motor return voltage to the Phoenix AFC when access to the handle switch is impossible.

**EPROM – Electrical Programmable Read-Only Memory.**

**ICB – Interconnect Board.** Provides an interface between the CPU board and the pumps and dispensers.

**IU – In Use.** Amber indicator LED on the ICB that indicates the pump handle is in the dispensing position. IU also identifies the #1 terminal on the ICB; this terminal receives a voltage from the pump when the handle is in the dispensing position.

**LCD – Liquid Crystal Display.** The panel on the Phoenix AFC that shows user instructions and messages.

**LED – Light Emitting Diode.** A solid-state device that emits light when power is applied. A reliable replacement for an indicator lamp.

**Lock-out/tag-out** – Lock a breaker switch into position after tagging, or labeling, it that people should leave it in that particular position.

**MR – Motor Return.** A voltage that signals the Phoenix AFC that the handle switch on the dispenser has been moved to the ON position.

**NVRAM – Non-Volatile Random Access Memory.**

**PIN – Personal Identification Number.**

**PULSE** – Green indicator LED on ICB that indicates the pulser mounted on the pump is supplying pulses in response to fuel being dispensed.

**Pulser** – A mechanical or electrical device that signals a fuel control system the rate at which fuel is being dispensed.

**Relay** – An electro-mechanical switch that closes one or more sets of contacts when a voltage is applied to a coil mounted next to the contacts. Relays used to switch power for large motors and other high-current devices are often referred to as contactors.

# Quick Reference Sheet

Fn #	Prompt	Description
0	N/A	Cancel function code entry
1	N/A	Execute a keypad transaction
2	N/A	Encode DuraKeys
5	N/A	Enter a Transaction Manually
10	Reprinting Transactions Please Wait...	Reprint all stored transactions
60	Receipt Printer 1=On, 0=Off	Configure AFC Receipt Printer
70	Enter Card Number	Erase one Card record
71	Enter Vehicle Number	Erase one Vehicle record
72	Enter Driver Number	Erase one Driver record
73	Enter Department Number	Erase one Department record
74	Enter Vehicle Class	Erase one Vehicle Class record
75	Enter Fueltype	Erase one Fueltype record
76	Enter Fueling Position	Erase one Fueling Position record
80	Please Wait...	Erase all Card data
81	Please Wait...	Erase all Vehicle data
82	Please Wait...	Erase all Driver data
83	Please Wait...	Erase all Department data
84	Please Wait...	Erase all Vehicle Class data
85	Please Wait...	Erase all Fueltype data
86	Please Wait...	Erase all Fueling Position data
87	Please Wait...	Erase all Transaction Data
98	Date/Time is:	Display Current Date and Time

SYSTEM CONFIGURATION		
100	N/A	Cycle through all System Configuration options
101	Enter Site Number	Set AFC site number
102	Enter Unit Number	Set AFC unit number
103	Enter Transaction #	Set next Transaction number
104	Activate Time (HH:MM) Deactivate Time (HH:MM)	Set AFC activation and deactivation times
105	Shift 1? (HH:MM) Shift 2? (HH:MM) Shift 3? (HH:MM) Shift 4? (HH:MM)	Set the beginning time for each of 4 shifts
106	Print Date? 1/0 Print Time? 1/0 Print Price? 1/0	Set suppression of the date, time, and price on the journal printer. 1 – suppress printing; 0 – print
107	Idle Prompt line 1? Idle Prompt line 2? Idle Prompt line 3? Idle Prompt line 4?	Define the characters for the system's idle prompt.
108	Driver Number Tries? Driver Number Result	Number of attempts for correct driver number entry. Result if entry incorrect: 1 – Continue fueling; 2 – Refuse transaction; 3 – Invalidate card
109	System ID # Start Pos. Card # Start Pos. Secondary System ID #	(For using non-standard cards) Sets the starting position in the card data for the system ID number, card number, and defines an alternate System ID number
110	Enter Prompt Timeout In seconds	Sets the number of seconds that each AFC prompt will wait before timing out. From 5 to 60 seconds.
111	Vehicle/Driver Allocation 1 = Vehicle 2 = Driver	If departments are allocated fuel, this setting selects whether the fuel is deducted from the driver's or the vehicle's department.
112	Interdept. Fueling 1=Allow, 2=Not Allow	Selects for all departments whether or not drivers from one department can fuel vehicles in another.
113	Reset Transaction Number	1 – Yes, reset transaction number to 1 at midnight each day; 2 – No, do not reset
114	Driver entry required on keypad only operation?	Sets whether the keypad only operation will prompt the operator for the Driver number.

CARDS/KEYS		
200	Enter Card/Key # Enter Card/Key Type	Cycle through all Card/Key configuration options 1 – Card/Key identifies Vehicle; Driver entered on keypad 2 – Card/Key identifies Driver; Vehicle entered on keypad 3 – Card/Key identifies Vehicle; System will prompt for Driver Card/Key 4 – Card/Key identifies Driver; System will prompt for Vehicle Card/Key
	Enter Vehicle Number OR Enter Driver Number	Defines either the vehicle or the driver that the card will identify, depending on the Card/Key type
	Enter Driver # 1 OR Enter Vehicle # 1	Defines either the driver number associated with the vehicle or the vehicle number associated with the driver, depending on the card/key type
	Enter Driver # 2 OR Enter Vehicle # 2	Defines either the driver number associated with the vehicle or the vehicle number associated with the driver, depending on the card/key type
	Enter Driver # 3 OR Enter Vehicle # 3	Defines either the driver number associated with the vehicle or the vehicle number associated with the driver, depending on the card/key type
201	Exp. Date (MM/DD/YY)	Date the Card/Key will expire

VEHICLES		
300	Enter Vehicle Number	Cycle through all of the Vehicle configuration options
301	Vehicle Class?	Assigns the vehicle to a class
302	Prev. Odometer?	Stores the last odometer reading for the vehicle (Used for odometer reasonability)
303	Maint. Odometer?	Stores the last maintenance reading for the vehicle (Used for vehicle maintenance tracking)
304	Department?	Defines the department the vehicle is assigned to
305	Global Vehicle? 1=Global, 0=Normal	Sets whether or not the vehicle is global (Global vehicles can be used with any driver number)
306	Keypad Entry Allowed? 1=Yes, 0=No	Sets whether or not the vehicle number can be entered on the keypad during authorization.

DRIVERS		
400	Driver Number?	Cycle through all of the driver configuration options
401	Department?	Assigns the driver to a department
402	Security #?	Assigns the 4-digit security number to the driver
403	Global Driver?	Sets whether or not the driver is global (Global drivers can be used with any vehicle) 1 = Global; 0 = Normal
404	Keypad Entry Allowed? 1=Yes, 0=No	Sets whether or not this driver number can be entered on the keypad during authorization.

VEHICLE CLASSES		
500	Vehicle Class?	Cycles through all of the Vehicle Class configuration options
501	Enter Start Time Enter End Time	Defines the range of time in which a vehicle class can be used
502	Exp. Date (MM/DD/YY)	Specifies the vehicle class expiration date
503	Max. Fuel Per Trans.	Sets the maximum fuel available to the vehicle class per transaction
504	Odometer Low Limit? Odometer High Limit?	Defines the range of odometer entries for reasonable odometer operation
505	Max. Odometer Retries	Sets the number of tries that the operator has to enter a reasonable odometer figure
506	Odometer Pass/Fail 1 = Continue Trans. 2 = Fail Transaction	Result if odometer was not entered correctly 1 = Continue transaction anyway 2 = Refuse transaction
507	Maintenance Warning	Defines the number of miles before the vehicle's maintenance mileage that the warning message is displayed
508	Maint. Pass/Fail 1 = Continue Trans. 2 = Fail Transaction	Defines result of passed maintenance mileage 1 = Continue Transaction 2 = Fail transaction
509	Required Prompts? 0 = None; 1 = Mileage; 2 = Misc; 3 = Both	Defines the prompts that will be used for vehicles in this class 0 = No prompts; 1 = Mileage prompt; 2 = Miscellaneous prompt; 3 = Both Mileage and Miscellaneous prompts.
510	Misc. Digits Required	Specifies the minimum number of digits that must be entered in the miscellaneous field
511	1 <sup>st</sup> Fueltype Allowed 2 <sup>nd</sup> Fueltype Allowed 3 <sup>rd</sup> Fueltype Allowed	Defines up to three fuel types that can be used by vehicles in this class. To allow a class to get any fuel type, enter 255 for fuel type 1
512	Taxable?	Specifies whether vehicle class is taxable. 0 = No; 1 = Yes; 2 = Prompt
513	Mileage Prompt?	Defines the prompt displayed for the mileage field
514	Miscellaneous Prompt	Defines the prompt displayed for the miscellaneous field

DEPARTMENTS		
600	Enter Department #	Cycles through all department configuration options
601	Enter Dept. Discount as a percentage	Defines the discount for this department as a percentage Example: 012.30 = 12.3%
602	Enter Totalizer Value	Sets the current value of the department totalizer.
603	Allocation	Turns fuel allocation on (1) and off (0) for this department.
604	Enter Allocated Fuel	Sets a predetermined quantity or dollar amount which is deducted with each transaction for this department
605	Money or Quantity? 1=Money, 2=Quantity	Specifies whether Function 604 defines money or quantity of fuel
606	Exp. Date (MM/DD/YY)	Sets the date that this department will expire.

FUELTYPES		
700	Enter Fueltype #	Cycle through all fueltype configuration options
701	Active? (1/0)	Set the fueltype active (1) or inactive (0)
702	Unit Price?	Set the price per unit of fuel
703	Unit Tax?	Set the tax per unit of fuel
704	Enter Totalizer	Set the totalizer for the fueltype
705	Enter Shift 1 totalizer value	Set the totalizer for shift 1
706	Enter Shift 2 totalizer value	Set the totalizer for shift 2
707	Enter Shift 3 totalizer value	Set the totalizer for shift 3
708	Enter Shift 4 totalizer value	Set the totalizer for shift 4
709	Tank Quantity?	Set the current quantity of fuel in the tank
710	Low Quantity?	Set the low-level trigger quantity
711	Deactivate Quantity?	Set the quantity at which the fueltype deactivates

FUELING POSITIONS		
800	Enter Fuel Position	Cycle through all Fuel Position configuration options
801	Enter Fueltype	Specify which fueltype the fueling position is assigned to
802	Enter Totalizer	Sets the fueling position totalizer
803	Active – 1, Inactive – 0	Set the fueling position as active or inactive
804	Max. 0 Transactions	Set the maximum number of allowed transactions with 0 quantity
805	Timeout? (SSSS)	Set the number of seconds that the system will wait if no fuel is being dispensed (5-600 seconds)
806	Enter Fuel Limit	Set the maximum limit of fuel that can be dispensed from this fueling position per transaction in whole units (0-65,535)
807	Pulses Per Unit?	Set the number of pulses that the dispenser will output per unit of measurement (1-65,535)
808	Decimal Point 0, 1, 2, or 3 decimal places	Set the decimal point of the quantity from this fueling position 0 = Whole units 1 = Tenths 2 = Hundredths 3 = Thousandths
809	Zero Quantity Shutoff	Turns zero quantity shutoff option on (1) and off (0).

#### DIP Switch Options:

Switch	Position	On	Off
1	1	Master Operation	Satellite Operation
1	2	Card Reader On	Card Reader Off
1	3	Keypad Entry On	Keypad Entry Off
1	4	Printer On	Printer Off
1	5	PC Active	PC Inactive
1	6-8	Not used	Not used
2	1	AFC Address bit 1 On	AFC Address bit 1 Off
2	2	AFC Address bit 2 On	AFC Address bit 2 Off
2	3	AFC Address bit 4 On	AFC Address bit 4 Off
2	4	AFC Address bit 8 On	AFC Address bit 8 Off
2	5	Slow PC 1 On	Slow PC 1 Off
2	6	Slow PC 2 On	Slow PC 2 Off
2	7	Reset all memory	Normal Operation
2	8	Change System ID#	Normal Operation

PHOENIX  
AFC  
Quick  
Reference  
Sheet  
Version 2.0  
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