FUEL MANAGEMENT SYSTEM

Central Controller Manual

FuelMaster® 2500

September 10, 2002

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INTRODUCTION

- This manual provides set-up and operating instructions for the Syn-Tech Systems, Inc., FUELMASTER® Fuels Management Systems' Central Controller Manual for Windows. These instructions have been prepared for the exclusive use of system installers and operators.

- The FUELMASTER® Fuels Management System consists of equipment developed to provide true self-service fuel and oil dispensing. FUELMASTER® accomplishes this with absolute security from unauthorized use while maintaining complete accountability for each dispensing transaction as it occurs. The Fuel Management Units (FMU) and FUELMASTER® Central Controller Program are encoded by Syn-Tech Systems, Inc. with matching system designators (site signatures) that provide security and allow access only by holders of authorized PROKEE®s or vehicles equipped with authorized AIMs.

- FUELMASTER® hardware and software can be tailored to fulfill a wide variety of applications from small privately owned service stations to large-scale fleet operations.

- This manual covers set-up and operation of the Central Controller, a personal computer (PC) loaded with the FUELMASTER® software to communicate with the FUELMASTER® fueling site equipment.

- The Central Controller can be installed to collect selected transaction data direct, on-site, or through telephone lines from a central accounting office located hundreds or thousands of miles away from the fueling site. The Central Controller can be set-up to communicate with one or several sites.

- FUELMASTER® requirements and applications vary from system to system. The FUELMASTER® software has been developed with flexibility to create a Central Controller operating program that will satisfy the needs of every system owner.

- This manual has been developed to assist the Central Controller operator with initial set-up of the Central Controller, and day-to-day operations after the Central Controller has been properly set-up.
    - **WARNING:** Always do a backup of FUELMASTER® files prior to the installation of any new or upgraded FUELMASTER® software, files, etc...

- It is important that initial set-up of the Central Controller be performed as described in this manual. FUELMASTER® Software is basically self-installing; just insert the CD in the PC's CD drive and answer the questions as they appear. However, care should be exercised if an earlier version of FUELMASTER® Software has been installed.

- This manual should be referred to during set-up and day-to-day use. Most problems encountered with the Central Controller can be directly referenced to an operating practice or procedure that has not been followed as described in this manual.

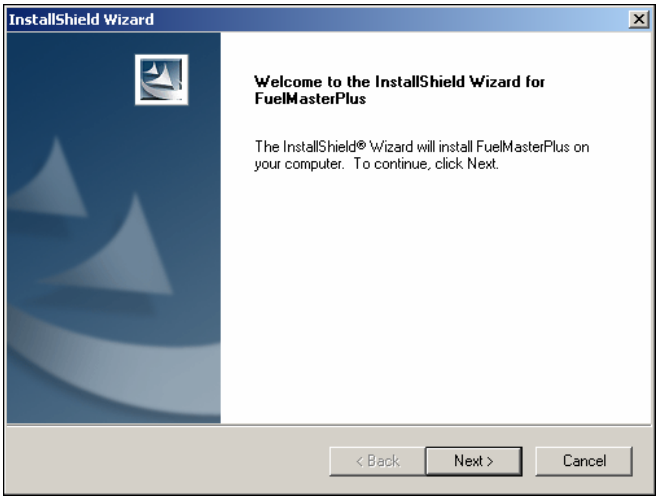

Fig 1.1

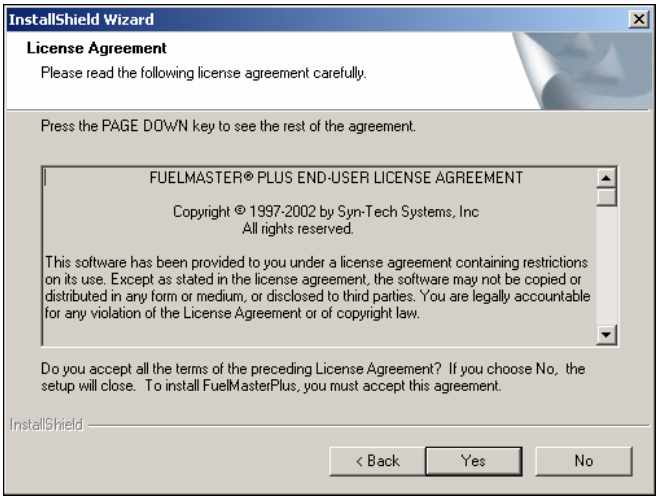

Fig 1.2

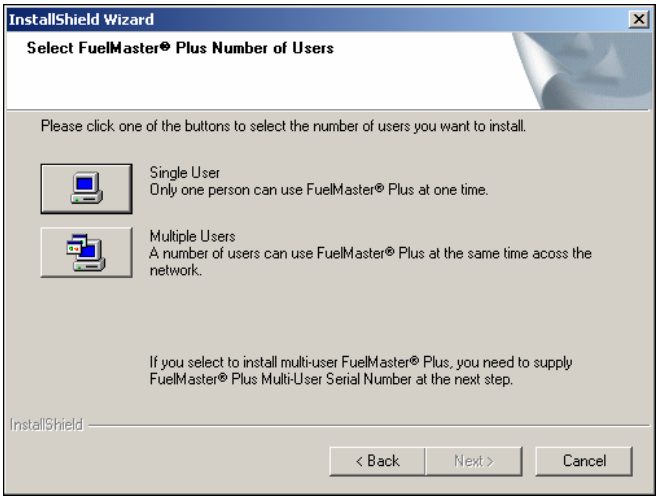

Fig 1.3

Chapter 1: Installation

Software Installation.

1. Install FUELMASTER® software by inserting the CD-ROM in the PC's CD-ROM drive.
2. The FUELMASTER® installation program is self-starting. Respond to questions as they are asked.
3. The install shield will prompt to ensure that you want to install FuelMaster on your computer. If so click NEXT. **(Fig 1.1)**
4. You will be shown the licensing agreement for the Fuelmaster package. Please read the entire agreement before proceeding. If you agree with the License Agreement, click YES. **(Fig 1.2)**
5. The next window requires that you specify the type of user setup you will be operating. If the program will only be used from one computer, click SINGLE USER. If you are planning to access the program across a network for two or more users click MULTIPLE USERS. **(Fig 1.3)**

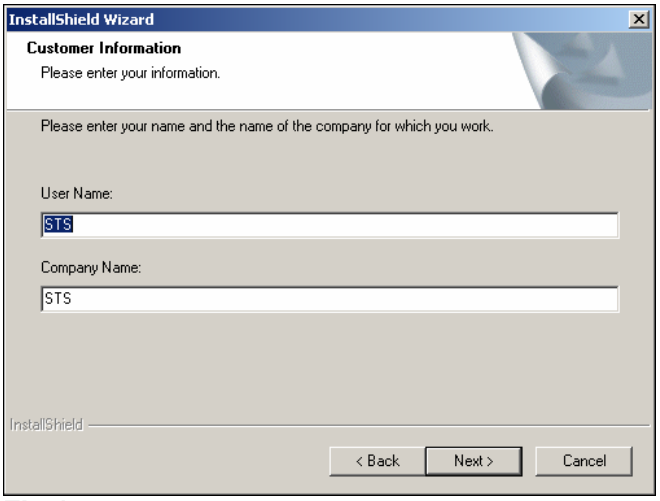

Fig 1.4

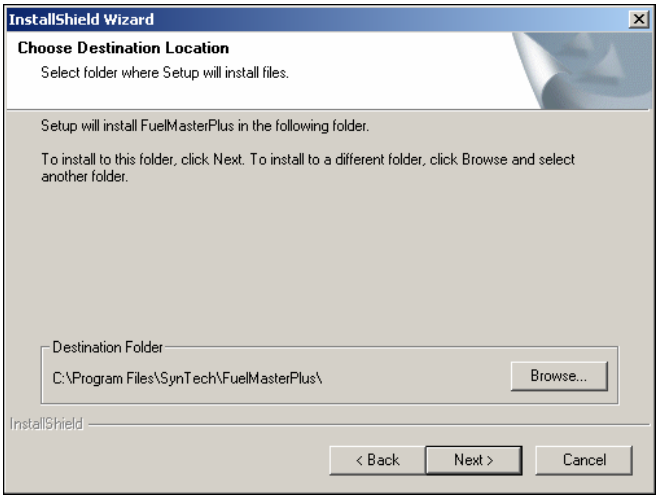

Fig 1.5

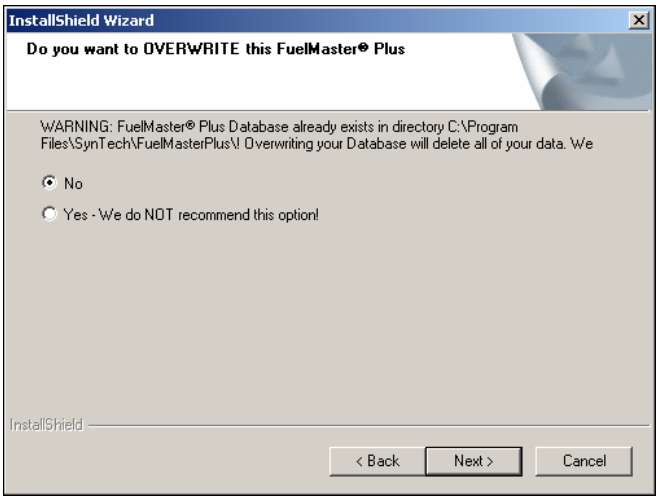

Fig 1.6

6. Next you will be prompted to enter a user name and the name of the company for which you work. Once completed click NEXT. **(Fig 1.4)**
7. The following screen requires you to choose a destination folder for the program and its contents to be stored in. If you would like to install in a different directory use the BROWSE button and select the desired location. Otherwise click NEXT. **(Fig 1.5)**

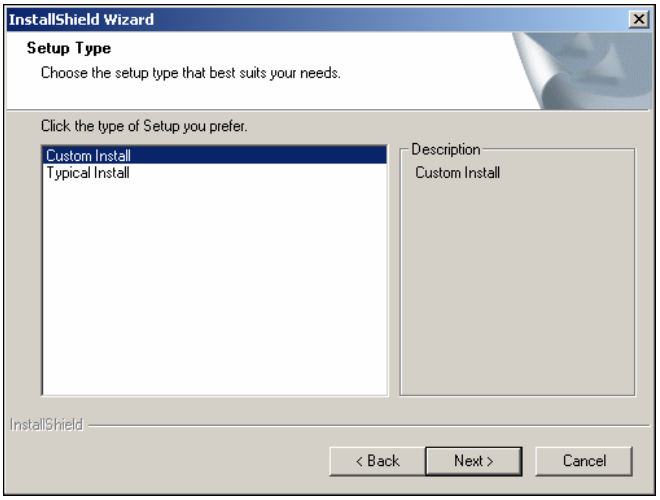

Fig 1.7

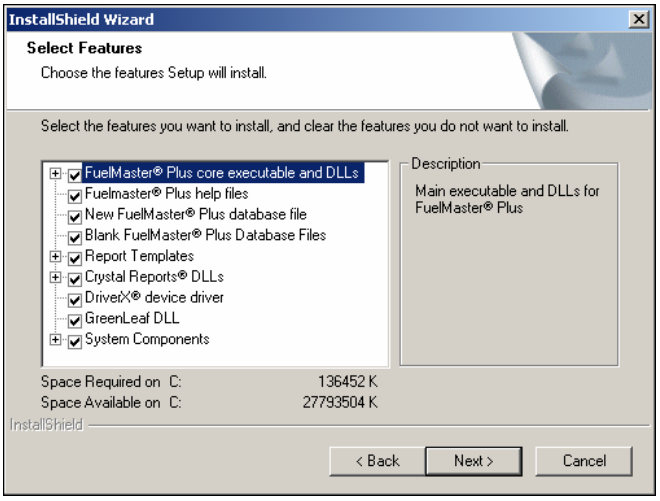

Fig 1.8

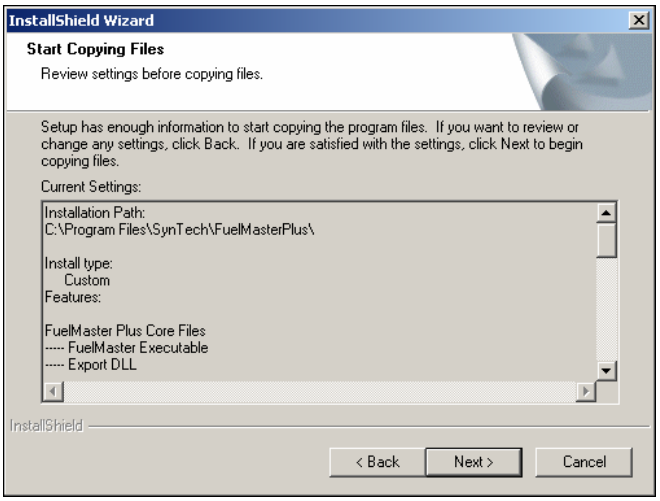

Fig 1.9

9. After the installation location has been decided, you will need to choose the installation type. You two choices are: **(Fig 1.7)**
    a. Custom: This allows you to choose which options you would like to install
    b. Typical: This option installs all of the usual options for Fuelmaster Plus operation
10. If you choose the custom install option, select the features that you would like from the checkboxes on the left of the Select Features screen. Click NEXT to proceed. **(Fig 1.8)**
11. Before InstallShield begins copying files to your computer, it will display the current setting for installation that you have chosen. **(Fig 1.9)**
12. Review the settings displayed and, if they are accurate click NEXT to begin copying files. If the settings are incorrect, click BACK to change them. **(Fig 1.9)**
13. Once all settings are satisfactory InstallShield installs the software on you computer. As it is doing this, it will display a status bar letting you know the percentage completed.
14. Once installation is complete InstallShield waits for you to click finish to exit the installation

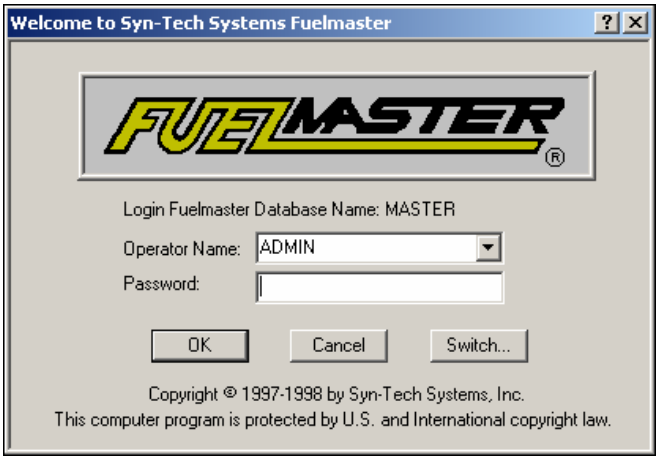

Fig 2.1

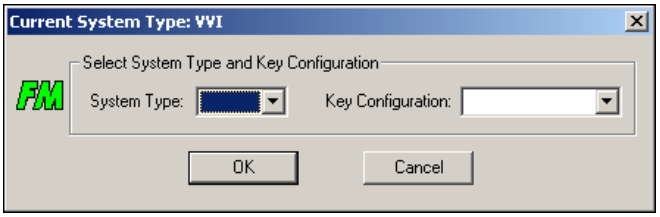

Fig 2.2

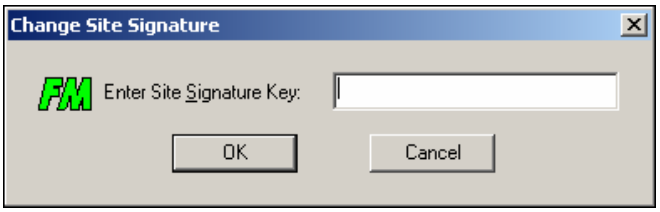

Fig 2.3

Chapter 2: Initial Startup.

- To start FUELMASTER®, **Double Click** the FUELMASTER PLUS® Icon from your computer's desktop.

- FUELMASTER® requires NO password initially. Leave the operator name as ADMIN and the password blank then click OK.

- On the initial start-up of FUELMASTER®, FUELMASTER® will present a Select System Type dialog box. There are three types of to select from:
    - Verified Miscellaneous Number (VMN),
    - Verified Vehicle Identification (VVI).
    - Commercial (COM)
    - Within the Commercial system there are four configurations of key types selectable: Vehicle, User, Either and Both.
    - Additionally, the user will be queried about FMU300 use.
    - Click YES if you are using AIMS.

  Note: The selections of System Type and Key Configuration are done only this one time and are **NON-CORRECTABLE**. Make sure of your selection. Call Syn-Tech Systems, Inc. Product Support for any clarification of the function of the different systems.
- Site signatures are provided with purchase by Syn-Tech. Enter this key when prompted at startup.

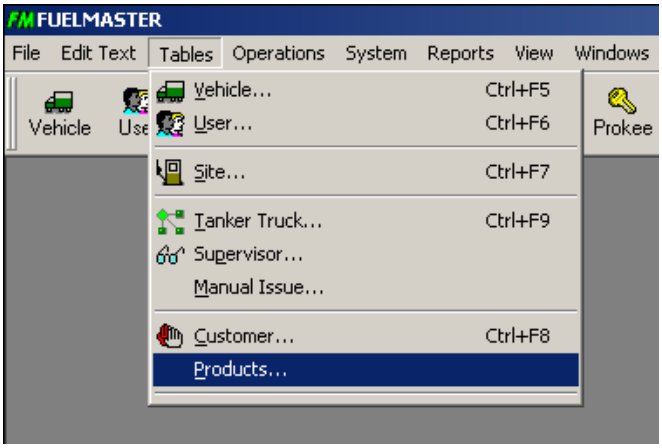

Fig 3.1

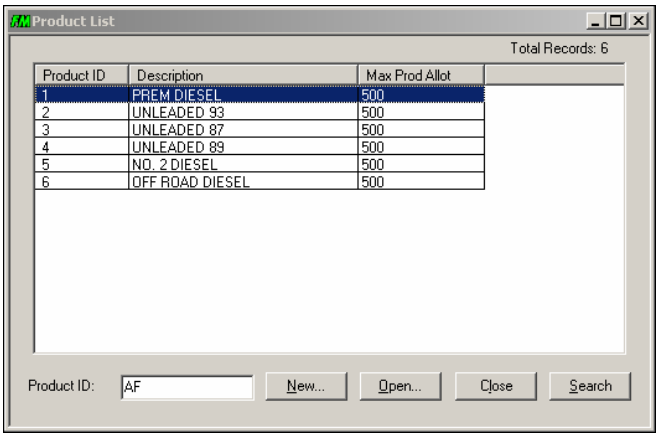

Fig 3.2

Chapter 3: Product Database

The PRODUCT DATABASE contains records that store information about each Product that uses the FUELMASTER® system, and is used as a reference for generating reports.

- Click the Tables pull-down menu:
- Click the Product selection in the Tables pull-down menu:

The Product List dialog box contains four function buttons, a list box, and an edit box.

NEW

- The NEW function button allows a new Product record to the opened. A new Product ID must be entered in the Product ID edit box prior to selection of New;

OPEN

- The OPEN function button opens an existing Product record. The Product record to be opened must highlighted with a left click prior to the selection of Open;

CLOSE

- The CLOSE function button will close the Product List dialog box; and,

SEARCH

- The SEARCH function button will search the existing Product database for the Product ID entered in the Product ID edit box.

PRODUCT ID

- The Product ID is a 2-digit alpha-numeric field.

List Box:

- The List Box provides a list of existing products by product ID, description and maximum product allotment. Highlighting a record (clicking on the desired product), and selecting the function button Open will open that product record. The listed products by product ID, description and maximum product allotment, may be ordered alphanumerically by clicking on the list's field headers, product ID, description and maximum product allotment.

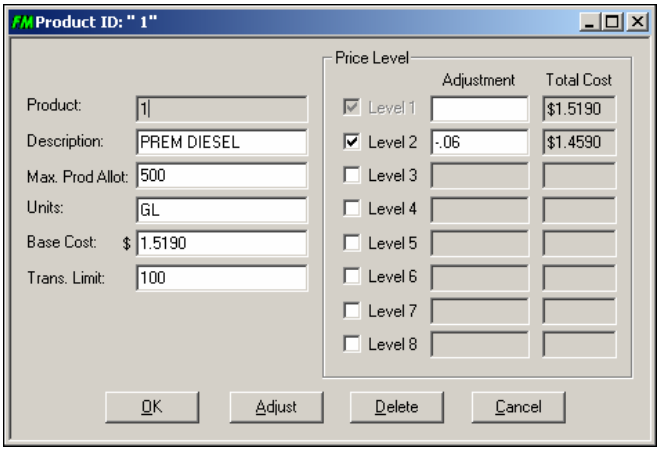

Fig 3.3

Click the New or Open button for the Product ID dialog box: it contains: four function buttons; nine information boxes; twelve edit boxes; and eight check boxes.

OK
- The OK selection will save the Product information on the Product ID dialog box, and FUELMASTER® will revert back to the Product List dialog box.

ADJUST
- When the adjustments have been entered or changed, the ADJUST selection will recalculate the Total Cost information boxes.

DELETE
- The DELETE selection will delete all information presented on the Product ID dialog box, and FUELMASTER® will revert back to the Product List dialog box.

CANCEL
- The CANCEL selection will cause FUELMASTER® to revert back to the Product List dialog box without saving information found on the Product ID dialog box.

PRODUCT ID
- The 2-digit alpha numeric PRODUCT ID field is entered via the Product List, Product ID edit box.

TOTAL COST (levels 1 through 8)
- The 6-digit TOTAL COST field shows the sum of the Base Cost and Adjustment fields.
- This is the fuel cost charged for a given price level.

DESCRIPTION
- The 20-digit alphanumeric product DESCRIPTION field is used to describe the product (i.e., unleaded gasoline, diesel, JP-5, etc.).

MAXIMUM PRODUCT ALLOTMENT
- The MAXIMUM PRODUCT ALLOTMENT field is used to specify the maximum quantity of this product that can be dispensed in a single day.
- The program will support a maximum entry of 255 units (Gallons, Quarts, Liters, etc.)

UNITS
- The Units filed is used to specify the units of measure of this product. (GL – gallons, QT – quarts, LT – liters, LB – pounds, etc.).

BASE COST
- The 7-digit BASE COST field is used to specify the base cost of fuel, and a value must be entered, even if it will not be used.

ADJUSTMENT (Levels 1 through 8)
- The 7-digit ADJUSTMENT field is used to specify different pricing for different customers, users, or vehicles.
- The adjustment are added to or subtracted from the base cost and shown in the Total Cost field.
- The Total Cost is then applied to individual customers, users, or vehicles via the Pricing Level check boxes in the corresponding databases. FUELMASTER® reads no value in an ADJUSTMENT edit box as a zero.

LEVEL (1 through 8)
- The LEVEL check boxes (1 through 8) are used to specify which fuel level will be active for a given fuel type. LEVEL 1 is the default, and is inactive (i.e., always has a check).

PRICE LEVEL
- The Price Level combo box allows the selection of the fuel pricing level granted this Product.
- The various pricing level are entered via Table pull-down menu, Products, Products List dialog box, Product ID dialog box, Adjustment edit box.

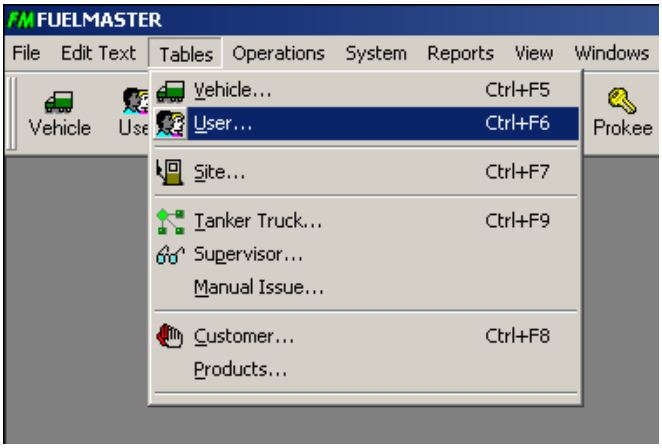

Fig 4.1

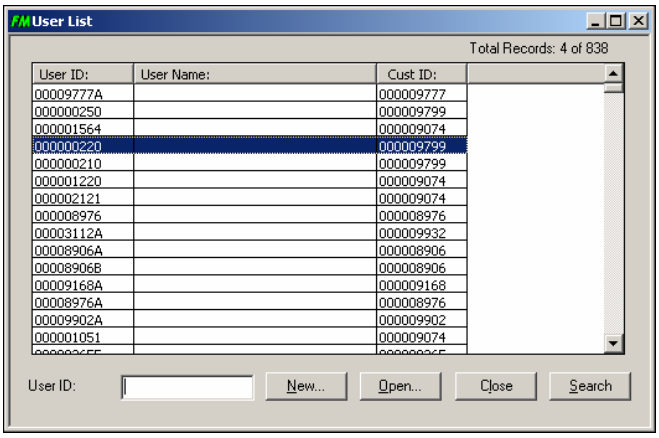

Fig 4.2

Chapter 4: User Database

The USER DATABASE contains records that store information about each User that uses the FUELMASTER® system.
Click the Tables pull-down menu:

- Click the User selection in the Tables pull-down menu: **(Fig 4.1)**

The User List dialog box **(Fig 4.2)** contains four function buttons, a list box, and an edit box.

NEW
- The NEW function button allows a new User record to the opened. A new User ID must be entered in the User ID edit box prior to selection of New;

OPEN
- The OPEN function button opens an existing User record. The User record to be opened must be highlighted with a left click prior to the selection of Open;

CLOSE
- The CLOSE function button will close the User List dialog box; and,

SEARCH
- The SEARCH function button will search the existing User database for the User ID entered in the User ID edit box.

USER ID
- The User ID is 9-digit numeric field.

List Box:
- The List Box provides a list of existing users by user ID, last name and customer ID.
- You may re-order the lists by clicking on each header to re-sort that column
- Highlighting a record and selecting the Open button will open that user record.

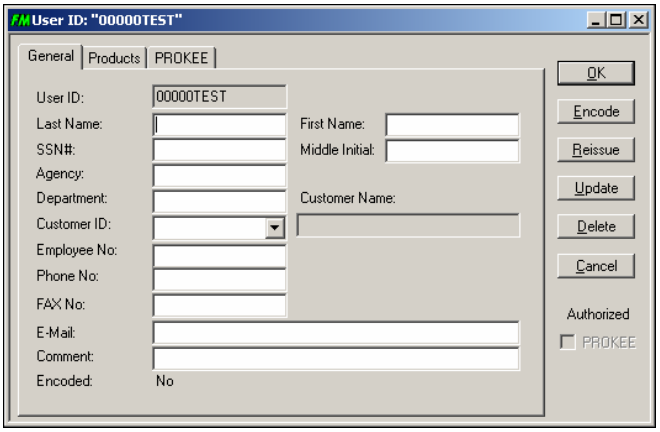

Fig 4.3

OK
- The OK selection will save the User information on the User ID dialog box, and FUELMASTER® will revert back to the User List dialog box.

ENCODE
- The ENCODE selection will initiate the encoding of a PROKEE® with information representative of the data presented on the User ID dialog box.

REISSUE
- The REISSUE selection will increment the re-issue count, and change the encoded information to No. The Encode selection may then be used to encode a PROKEE®.

UPDATE
- The UPDATE selection will initiate the re-encoding (information update) of a PROKEE® with information representative of the data presented on the User ID dialog box.

DELETE
- The DELETE selection will delete all information presented on the User ID dialog box, and FUELMASTER® will revert back to the User List dialog box.

CLOSE
- The CLOSE selection will cause FUELMASTER® to revert back to the User List dialog box without saving information found on the User ID dialog box.

AUTHORIZED
- NOTE: When NEW is selected the AUTHORIZED check box is disabled until the OK button is selected.
- Selection of the AUTHORIZED check box will authorize the User PROKEE®.
- NOT selecting the AUTHORIZE check box will cause the PROKEE®'s internal number to be placed on the PROKEE® lockout list.

General Tab
- The General page **(Fig 4.4)** contains three information boxes and twelve edit boxes.

LAST NAME & FIRST NAME
- These two 20-digit alphanumeric fields contain the user's first & last name.

MIDDLE INITIAL
- The single-digit alphanumeric Middle Initial field contains the user's middle initial.

SSN#
- The 11-digit alphanumeric SSN# field contains the user's SSN#.

AGENCY
- The 5-digit alphanumeric Agency field contains an agency associated with the user.

DEPARTMENT
- The 6-digit alphanumeric Department field contains a department associated with the user.

CUSTOMER ID
- Select the 9-digit alphanumeric Customer ID field from among those entered via Tables pull-down menu, Customer, Customer List dialog box, and Customer ID dialog box.
- The customer's name will be displayed next to the ID entry. If, under the Systems pull-down menu, Configuration, Configuration dialog box, Require Customer ID has NOT been selected, then any 9-digit alphanumeric Customer ID may be entered.

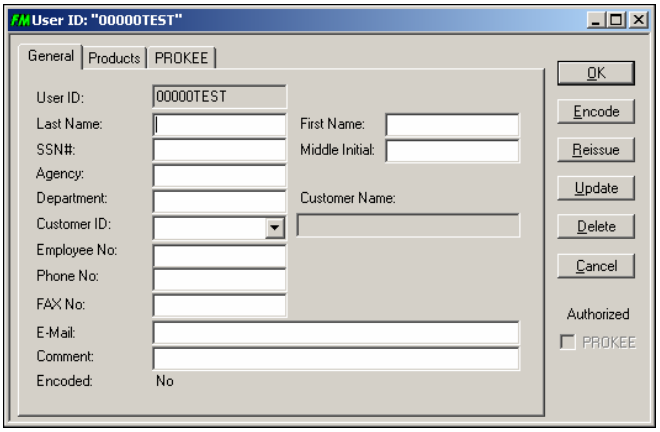

Fig 4.4

EMPLOYEE NUMBER

- The 11-digit alphanumeric Employee Number field contains the user's employee number.

PHONE NUMBER

- The 20-digit alphanumeric Phone Number field contains the user's phone number.

FAX NUMBER

- The 20-digit alphanumeric FAX Number field contains the user's FAX number.

E-MAIL

- The 50-digit alphanumeric e-mail field contains the user's E-mail address.

COMMENT

- The 50-digit alphanumeric Comment field contains comments.

USER ID

- The 9-digit numeric User ID field was entered via the User List dialog box, User ID edit box.

CUSTOMER NAME

- The 40-digit alphanumeric Customer Name field was entered via the Tables pull-down menu, Customer, Customer List dialog box, Customer ID dialog box.

ENCODED <Yes/No>

- The Encoded <Yes/No> information field presents the status of the User PROKEE®. PROKEE®s are encoded via the User ID dialog box, Encode function button.

Click on the Products tab for the Products tab page:

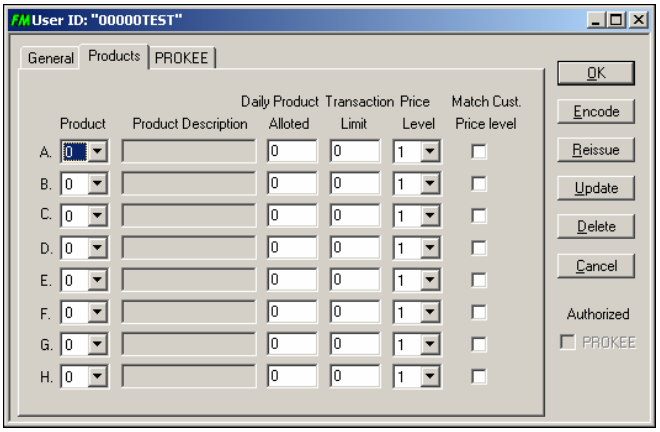

Fig 4.5

Products Page

- The Products page **(Fig 4.5)** contains information boxes, edit boxes and check boxes for eight product selections (A through H).

PRODUCT

- Select Product numbers via the Product combo boxes. The 2-digit numeric Product fields are entered via the Tables pull-down menu, Products, Products List dialog box, Product ID edit box.
- A product number must be selected from the existing Product Numbers

PRODUCT DESCRIPTION

- The 20-digit alphanumeric Product Description fields are entered via the Tables pull-down menu, Products, Products List dialog box, Product ID dialog box.
- The Product Description field is automatically entered by FUELMASTER® in the information box when the Product number is selected.

DAILY PRODUCT ALLOTMENT

- The 3-digit numeric Daily Product Allotment is the maximum amount of product this User can receive in a 24-hour period.
- If the daily transactions exceed the Daily Product Allotment, an exception message is generated when the transactions are downloaded from the FMU.
- The Daily Product Allotment cannot exceed 500 or the Maximum Product Allotment.
- The Maximum Product Allotment is a global setting from the Product database.
- The 3-digit numeric Maximum Product Allotment numbers are entered in the Tables pull-down menu, Products, Products List dialog box, Product ID dialog box.
- The most common Daily Product Allotment has been found to be approximately twice the User's tank size.

TRANSACTION LIMIT

- The 4-digit numeric Transaction Limit is used to terminate the transaction when the assigned limit is reached.
- The amount specified cannot exceed 255 or the Maximum Product Allotment.
- A good rule of thumb to follow is to use the size of the User's fuel tank.
- Even though this setting shuts off the dispensing hose, the user is still able to start a new transaction.
- If this field is left at zero (0), the key is considered to be an unlimited key with no quantity limits.
- For unlimited keys, an exception message is still generated if the daily transactions exceed the Daily Product Allotment specified.

PRICING LEVEL

- Select Pricing Levels via the Pricing Level combo boxes.
- The single-digit (1 through 8) numeric Pricing Levels are entered via the Tables pull-down menu, Products, Products List, and Product ID dialog boxes.
- Pricing Levels must be selected from the existing Pricing Levels. The initial default Pricing Level is 1.

MATCH TO DEFAULT PRICE LEVEL

- Selection of a Match to Default Price Level check box will cause the corresponding Pricing Level combo box to present the default pricing level of the selected customer.
- The Customer ID is selected via the Table pull-down menu, User, User List dialog box, User List dialog box, Customer ID edit box.

Click the PROKEE® tab for the PROKEE® tab page:

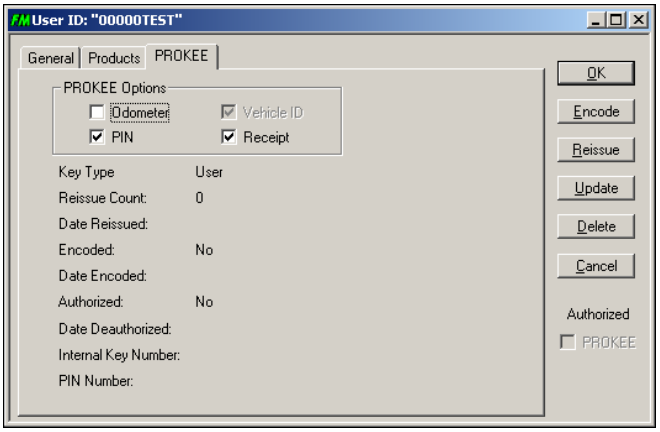

Fig 4.6

PROKEE Tab

- The PROKEE fields **(Fig 4.6)** set forth the keypad entries required for each key type and will override the default selections made via the System pull-down menu, Configuration, Configuration dialog box.

ODOMETER

- Selection of the ODOMETER option will require the user to enter an odometer reading on the FMU keypad prior to fueling;

PIN

- Note: The PIN is a number assigned to the PROKEE® by the FUELMASTER® program at the time the User record is created.
- The PIN cannot be altered by the user but will change each time the key is re-issued.
- While the user may set the key's PIN option, Syn-Tech Systems' Product Support personnel must activate the FMU's PIN option.
- Both the key option and the FMU system option must be set in order for the FMU to require PIN entry at the Fuel Island.
- Selection of the PIN option will require the user to enter a PIN on the FMU keypad prior to fueling;

USER ID

- Selection of the USER ID option will require the user to enter a User ID number on the FMU keypad prior to fueling;

RECEIPT

- If your FMU has a receipt printer option installed and active, selection of the RECEIPT option will allow the FMU to provide a receipt with each transaction.
- If the receipt printer option is selected, the FMU prompts the user with: DO YOU WANT A RECEIPT? The user may select YES or NO on the keypad.
- While the user may set the PROKEE®'s receipt option; Syn-Tech Systems' Product Support personnel must activate the FMU's receipt option.
- The FMU requires that this option be set in order to question whether a receipt is desired.

KEY TYPE

- Five key types are available: Vehicle, User, Supervisor, Tanker Truck, and Manual Issue. The type here will be User.

RE-ISSUE COUNT

- The re-issue count is a number representing the number of times a PROKEE® has been re-issued.
- This number is used by FUELMASTER® as a way to lockout non-current versions of a PROKEE®, and is non-resettable.

ENCODED <Yes/No>

- Whether or not the PROKEE® has been encoded.

DATE ENCODED

- The DATE ENCODED information field will display the date the PROKEE® was encoded.

AUTHORIZED <Yes/No>

- The AUTHORIZED information field will display the authorized/deauthorized status of the PROKEE®.

DATE AUTHORIZED/DEAUTHORIZED

- The DATE AUTHORIZED/DEAUTHORIZED information field will display the date the PROKEE® was authorized or deauthorized.

INTERNAL KEY NUMBER

- The INTERNAL KEY NUMBER information field will display the PROKEE®'s internal key number.
- This number is set by the FUELMASTER® software, and is non-resettable and non-changeable.

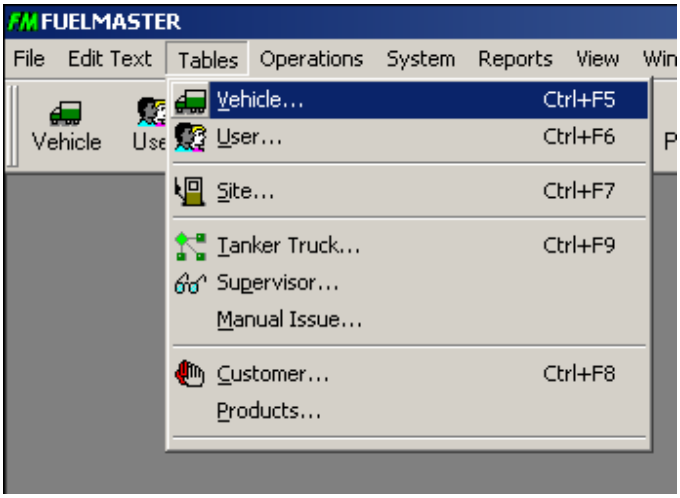

Fig 5.1

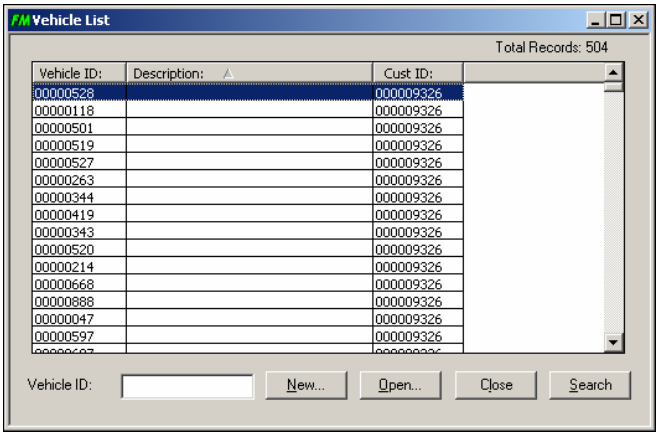

Fig 5.2

Chapter 5: Vehicle Database

The VEHICLE DATABASE contains records that store information about each vehicle or piece of equipment that uses the FUELMASTER® system.

- Click the Tables pull-down menu:
- Click the Vehicle selection in the Tables pull-down menu:

The Vehicle List dialog box contains four function buttons, a list box, and an edit box.

NEW

- The NEW function button allows a new vehicle record to the opened. A new vehicle ID must be entered in the Vehicle ID edit box prior to selection of New;

OPEN

- The OPEN function button opens an existing vehicle record. The vehicle record to be opened must be highlighted with a left click prior to the selection of Open;

CLOSE

- The CLOSE function button will close the Vehicle List dialog box; and,

SEARCH

- The SEARCH function button will search the existing vehicle database for the vehicle ID entered in the Vehicle ID edit box.

VEHICLE ID

- The vehicle ID is an 8-digit numeric field.

List Box:

- The List Box provides a list of existing vehicles by vehicle ID, description and customer ID.
- Highlighting a record and selecting the function button Open will open that vehicle record.
- The listed vehicular data, vehicle ID, description and customer ID, may be ordered alphanumerically by clicking on the field headers.

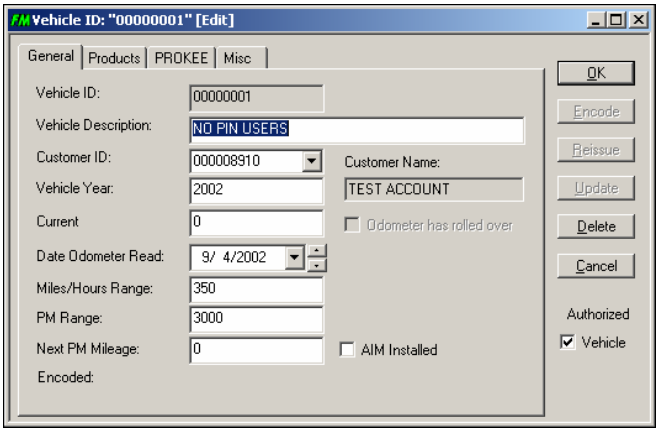

Fig 5.3

Click the New or Open button for the Vehicle ID tabbed dialog box: it contains: six function buttons, one check box, and four tabs or property pages.

OK

- The OK selection will save the vehicle information on the Vehicle ID dialog box, and FUELMASTER® will revert back to the Vehicle List dialog box.

ENCODE

- The ENCODE selection will initiate the encoding of a PROKEE® with information representative of the data presented on the Vehicle ID dialog box.

REISSUE

- The REISSUE selection will increment the re-issue count, and change the encoded information to No. The Encode selection may then be used to encode a PROKEE®.

UPDATE

- The UPDATE selection will initiate the re-encoding (information update) of a PROKEE® with information representative of the data presented on the Vehicle ID dialog box.

DELETE

- The DELETE selection will delete all information presented on the Vehicle ID dialog box, and FUELMASTER® will revert back to the Vehicle List dialog box.

CLOSE

The CLOSE selection will cause FUELMASTER® to revert back to the Vehicle List dialog box without saving information found on the Vehicle ID dialog box.

AUTHORIZED

  - *NOTE*: When NEW is selected the AUTHORIZED check box is disabled until the OK button is selected.
- Selection of the AUTHORIZED check box will authorize the vehicle PROKEE®.
- NOT selecting the AUTHORIZE check box will cause the PROKEE®'s internal number to be placed on the PROKEE® lockout list.

General Tab

- The General page contains three information boxes, eight edit boxes, and a check box.

VEHICLE DESCRIPTION

- The 40-digit alphanumeric Vehicle Description field is filled with a description of each vehicle.

CUSTOMER ID

- Select the 9-digit alphanumeric Customer ID field from among those entered via the Customer ID dialog box.
- The customer's name will be displayed next to the ID entry.
- If, under the Configuration dialog box, Require Customer ID has NOT been selected, then any 9-digit alphanumeric Customer ID may be entered.

VEHICLE YEAR

- The 4-digit numeric Vehicle Year field (1900 through 2100) has a default entry of the current year from the computer's clock. Enter the year the vehicle was manufactured or accept the default.

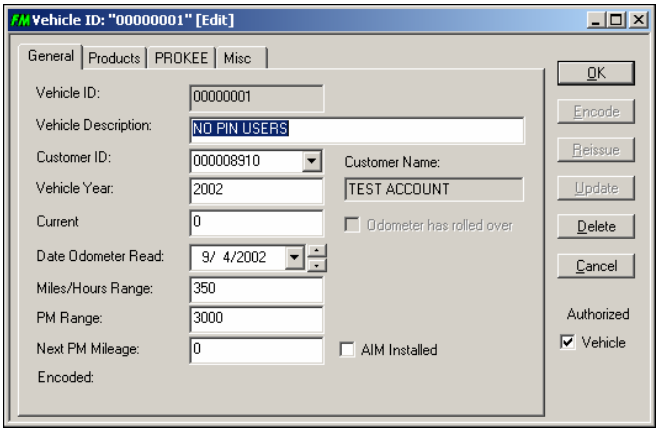

Fig 5.4

CURRENT ODOMETER

- The 6-digit numeric Current Odometer field should be filled with the current reading from the vehicle's odometer or chronometer if that information is readily available to you.
- This field is updated each time transactions are retrieved from the FUELMASTER® FMU if you are requiring your users to enter this information at the fuel island before fueling.

DATE ODOMETER READ

- The 6-digit numeric Date Odometer Read field (mm/dd/yy) has a default entry of the current date from the computer's clock.
- Like the Odometer/Chronometer, this field is updated with each fueling transaction.
- The yy field reflects the last two digits of the 4-digit year field. Click the bigger down arrow of the DATE ODOMETER READ combo box and full calendar will be presented showing the full 4-digits of the year.

MILES/HOURS RANGE

- The 4-digit numeric Miles/Hours Range field should be filled in with an estimated average miles or hours between fueling operations.
- An entry of 10-2550 is accepted. Most customers find it acceptable to establish several ranges and use only those.
- EXAMPLE: 250,500,750,1000 miles or 50,100,250,500 hours.
- Miles/Hours range is used in conjunction with the odometer reading stored on the PROKEE® to determine a valid odometer entry at the time of fueling.

Note: If the odometer read from the key is 30,000 miles and the Miles/Hours range on the key is 500 miles, a user entry of 31,000 is obviously too high since 500 miles of range added to the 30,000 current odometer equals 30,500, less than the entry of 31,000. A message is generated that this entry is too high and therefore in error. If, however, the user attempts to enter a new odometer reading of 28,000 miles, an error message is generated stating that the odometer entry is too low. This field attempts to enforce user accuracy when entering the current odometer reading that provides better and more accurate accounting information.

Yet another Note: FUELMASTER® FMUs support options for mileage checking. FuelMaster's® FMUs check the user entered current mileage, and will reject the entry the first time if the entered mileage is not within the programmed limits. Depending on the option selected, the lower limit is the previously entered limit or one mile above it. The upper limit is the MILES/HOURS RANGE. The FMU has two options available should the entered mileage NOT be within the selected range: Reject the first mileage entry should it be out of range and accept the second entry regardless the entered mileage; or, Reject ALL mileage entries should they be out of range (i.e., one doesn't get fuel unless one can enter a mileage within the desired range);

PM MILE RANGE

- The 6-digit numeric PM Mile Range field is limited to 10 through 40,000 and is used to specify the range between maintenance on the vehicle.
- After PM is completed on the vehicle, this value is added to the current odometer reading to calculate when the next PM is due.

NEXT PM MILEAGE

- The 6-digit numeric Next PM Mileage field represents the mileage at which the next preventive maintenance (PM) is due for the vehicle. If unknown, enter zero (0). If this feature is activated, this field is updated in the database when a PM Update transaction is received from the FMU. When you enter an odometer reading at the fuel island that is greater than the PM Mileage, you are prompted with a PM due message. When the transactions are retrieved from the FMU, the Central Controller generates a report that informs you that PM is due. This message continues to appear until PM is completed and the vehicle key is updated

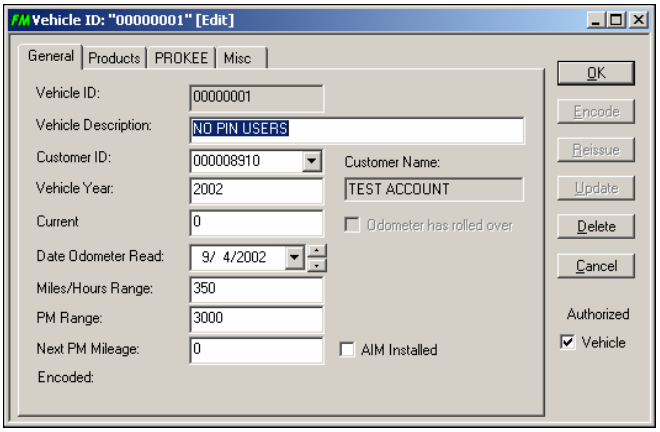

Fig 5.5

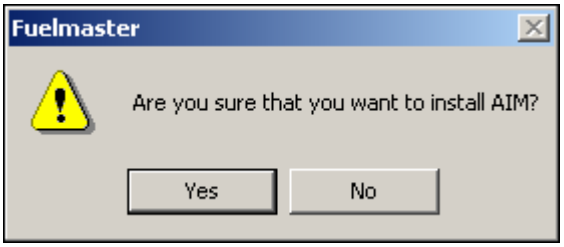

Fig 5.6

VEHICLE ID

- The 8-digit numeric Vehicle ID field was entered via the Vehicle List dialog box, Vehicle ID edit box.

CUSTOMER NAME

- The 40-digit alphanumeric Customer Name field was entered via the Tables pull-down menu, Customer, Customer List dialog box, Customer ID dialog box.

ENCODED <Yes/No>

- The Encoded <Yes/No> information field presents the status of the vehicle PROKEE®. PROKEE®s are encoded via the Vehicle ID dialog box, Encode function button.

AIM INSTALLED

- Click the Aim Installed Check Box if an AIM is to be installed in this vehicle.
- FUELMASTER® will ask for confirmation. Click Yes.
- FUELMASTER® will repaint the Vehicle ID tabbed dialog box. An AIM tab page and an AIM check box will have been added.

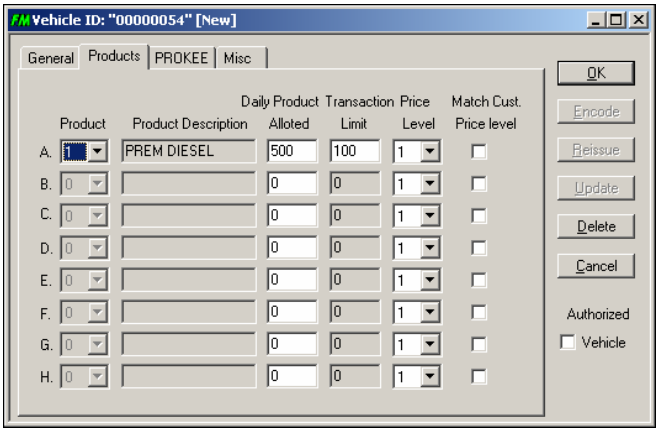

Fig 5.7

Products Tab

- The Products page **(Fig 5.7)** contains information boxes, edit boxes and check boxes for eight product selections (A through H).

PRODUCT

- Select Product numbers via the Product combo boxes.
- The 4-digit numeric Product fields are entered via the Tables pull-down menu, Products, Products List dialog box, Product ID edit box.
- A product number must be selected from the existing Product Numbers.

PRODUCT DESCRIPTION

- The 20-digit alphanumeric Product Description fields are entered via the Tables pull-down menu, Products, Products List dialog box, Product ID dialog box.
- The Product Description field is automatically entered by FUELMASTER® in the information box when the Product number is selected.

DAILY PRODUCT ALLOTMENT

- The 3-digit numeric Daily Product Allotment is the maximum amount of product this vehicle can receive in a 24-hour period.
- If the daily transactions exceed the Daily Product Allotment, an exception message is generated when the transactions are downloaded from the FMU.
- The Daily Product Allotment cannot exceed 500 or the Maximum Product Allotment.
- The Maximum Product Allotment is a global setting from the Product database.
- The 3-digit numeric Maximum Product Allotment numbers are entered in the Tables pull-down menu, Products, Products List dialog box, Product ID dialog box.
- The most common Daily Product Allotment has been found to be approximately twice the vehicle's tank size.

TRANSACTION LIMIT

- The 3-digit numeric Transaction Limit is used to terminate the transaction when the assigned limit is reached.
- The amount specified cannot exceed 255 or the Maximum Product Allotment. A good rule of thumb to follow is to use the size of the vehicle's fuel tank.
- Even though this setting shuts off the dispensing hose, the user is still able to start a new transaction.
- If this field is left at zero (0), the key is considered to be an unlimited key with no quantity limits.
- For unlimited keys, an exception message is still generated if the daily transactions exceed the Daily Product Allotment specified.

PRICING LEVEL

- Select Pricing Levels via the Pricing Level combo boxes.
- The single-digit (1 through 8) numeric Pricing Levels are entered via the Tables pull-down menu, Products, Products List, and Product ID dialog boxes.
- Pricing Levels must be selected from the existing Pricing Levels.
- The initial default Pricing Level is 1.

MATCH TO DEFAULT PRICE LEVEL

- Selection of a Match to Default Price Level check box will cause the corresponding Pricing Level combo box to present the default pricing level of the selected customer.
- The Customer ID is selected via the Table pull-down menu, Vehicle, Vehicle List dialog box, Vehicle List dialog box, Customer ID edit box.

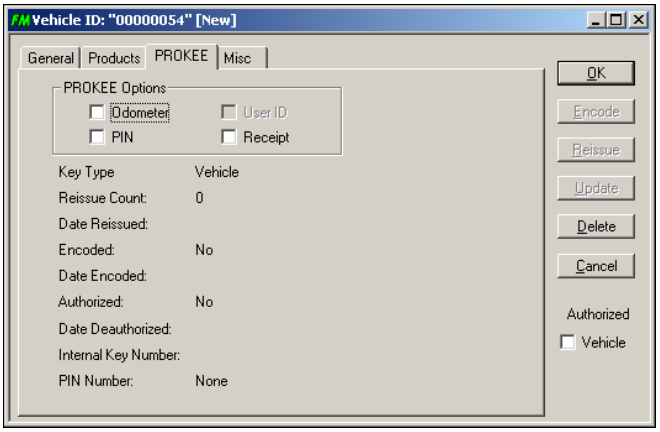

Fig 5.8

PROKEE Tab

- The PROKEE® page contains seven information fields and four check boxes.
- The check boxes are for the selection of options carried on the PROKEE®.
- These fields set forth the keypad entries required for each key type and will override the default selections made via the System pull-down menu, Configuration, Configuration dialog box.
- Entry to the Vehicle ID dialog box via the NEW function button on the Vehicle List dialog box will show the default selections.

ODOMETER

- You may select if the user is required to enter an odometer reading on the FMU keypad prior to fueling;

PIN

- Note: The PIN is a number assigned to the PROKEE® by the FUELMASTER® program at the time the Vehicle record is created. The PIN cannot be altered by the user but will change each time the key is re-issued.
- While the user may set the key's PIN option, Syn-Tech Systems' Product Support personnel must activate the FMU's PIN option.
- Both the key option and the FMU system option must be set in order for the FMU to require PIN entry at the Fuel Island.
- You may select if the user is required to enter a PIN on the FMU keypad prior to fueling;

USER ID

- Note: If your FUELMASTER® is a VMN system, the USER ID defaults to Yes and may not be changed.
- All vehicle keys require an authorized USER ID entry in a VMN system.
- You may select if the user is required to enter a User ID/Vehicle ID on the FMU keypad prior to fueling;

RECEIPT

- If your FMU has a receipt printer option installed and active, you may elect to have the FMU provide a receipt with each transaction.
- If you select the receipt printer option, the FMU prompts the user with: DO YOU WANT A RECEIPT? The user may select YES or NO on the keypad.
- While the user may set the key's receipt option, Syn-Tech Systems' Product Support personnel must activate the FMU's receipt option.
- The FMU requires that this option be set in order to question whether a receipt is desired.

Information Boxes:

- The seven information fields contain information relating to the PROKEE®'s encoded status.

KEY TYPE

- Five key types are available: Vehicle, User, Supervisor, Tanker Truck, and Manual Issue.

RE-ISSUE COUNT

- The re-issue count is a number representing the number of times a PROKEE® has been re-issued.
- This number is used by FUELMASTER® as a way to lockout non-current versions of a PROKEE®, and is non-resettable.

ENCODED <Yes/No>

- The ENCODED information field will display the encoded/not-encoded status of the PROKEE®.

DATE ENCODED

- The DATE ENCODED information field will display the date the PROKEE® was encoded.

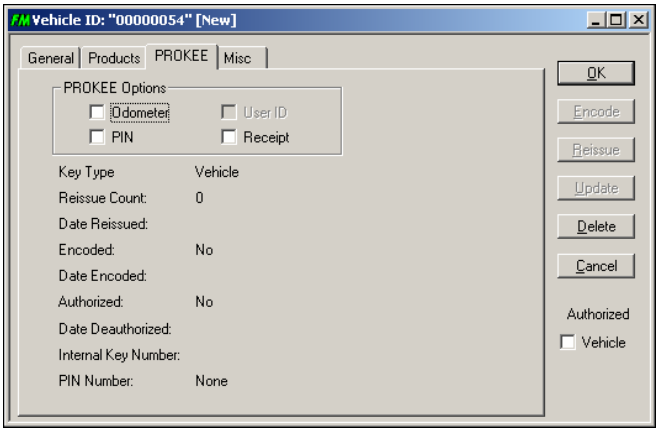

Fig 5.9

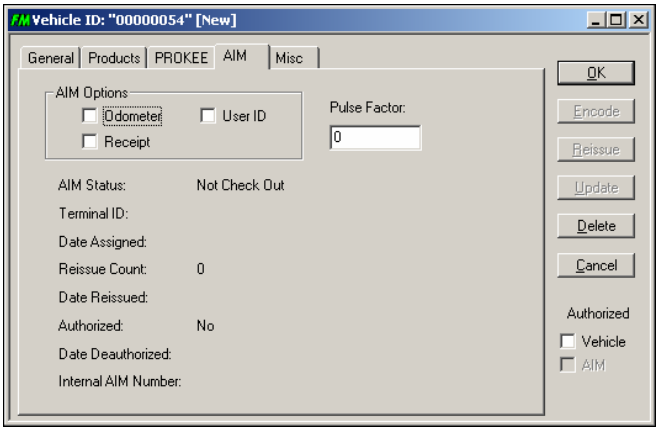

Fig 5.10

PROKEE Tab cont'd **(Fig 5.9)**

AUTHORIZED <Yes/No>

- The AUTHORIZED information field will display the authorized/deauthorized status of the PROKEE®.

DATE AUTHORIZED/DEAUTHORIZED

- The DATE AUTHORIZED/DEAUTHORIZED information field will display the date the PROKEE® was authorized or deauthorized.

INTERNAL KEY NUMBER

- The INTERNAL KEY NUMBER information field will display the PROKEE®'s internal key number.
- This number is set by the FUELMASTER® software, and is non-resettable and non-changeable.

AIM Tab

- Click the AIM tab for the AIM tab page: it contains eight information boxes, an edit box and three check boxes.

AIM STATUS

- There are three possible AIM Statuses; Not Checked Out, Checked Out and Programmed.
- Not Checked Out indicates the only copy of this AIM information is stored in the Central Controller.
- Checked Out indicates that a Workabout™ has checked out the AIM information.
- Programmed indicates that an AIM has been programmed by a Workabout™ and that the current copy of AIM data in the Central Controller corresponds with the date in the AIM.

TERMINAL ID

- The TERMINAL ID is the three digit numeric number assigned to each Psion Workabout™.
- When an AIM is checked out the Terminal ID of the Workabout™ checking out the AIM will be displayed in the TERMINAL ID field.

PULSE FACTOR

- The PULSE FACTOR is the number of pulses per mile generated by the vehicle's mileage pulser.
- This number can be entered here if it is known or it can be entered via the Psion Workabout™.

Check Boxes:

- The ODOMETER, RECEIPT, USER ID check boxes are used to select the options available with the AIM.
- Selection of ODOMETER will activate the AIM's autonomous mileage collecting and monitoring features.
- Selection of RECEIPT will initiate printing of a fueling receipt.
- User ID is NOT an option.

Click the Misc. tab for the Misc. tab page:

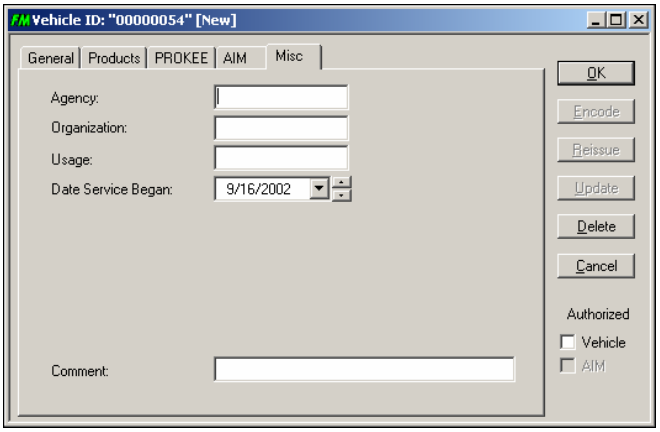

Fig 5.11

Miscellaneous Tab

- The Misc. page **(Fig 5.11)** contains ten edit boxes:

AGENCY

- The 5-digit alphanumeric AGENCY field should be filled with the vehicle's agency.
- (The term agency may mean department or something else in your organization.) It is a way to group vehicle records for report generation.

ORGANIZATION

- The 3-digit alphanumeric ORGANIZATION field should be filled with the vehicle's organization.
- It gives the opportunity to make sub-groupings of a vehicle's agency.

USAGE

- The 10-digit alphanumeric USAGE field should be filled with the usage of the described vehicle.

DATE SERVICE BEGINS

- The DATE SERVICE BEGINS field has a default entry of the current date from the computer's clock.
- Enter the date the vehicle began service or accept the default by pressing.

MISC 1-5:

- Titles to the Misc. fields are entered via the System pull-down menu, Configuration, Configuration dialog box.
- In this example, five fields have been titled: off-road, license number, rental/leased, sweepers, and yard tugs.
- The 15-digit alphanumeric MISC. fields are used to hold data specified for custom groupings.

COMMENT

- The 40-digit alphanumeric COMMENT field may be used for any type of information you may want to include.
- EXAMPLE: AUXILIARY GENERATOR ID TAG #4118.

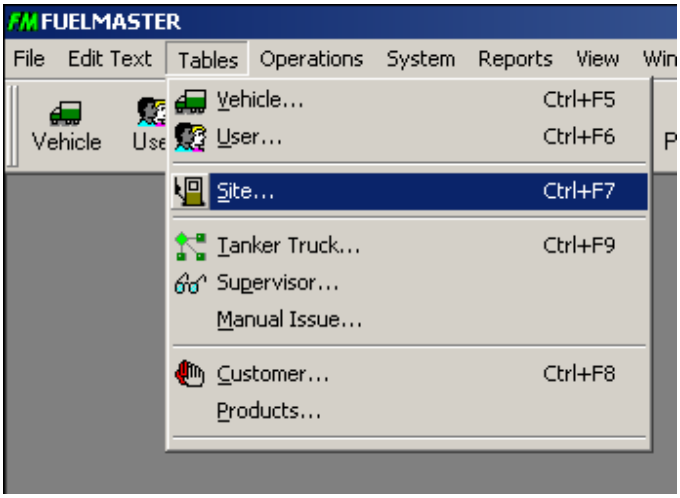

Fig 6.1

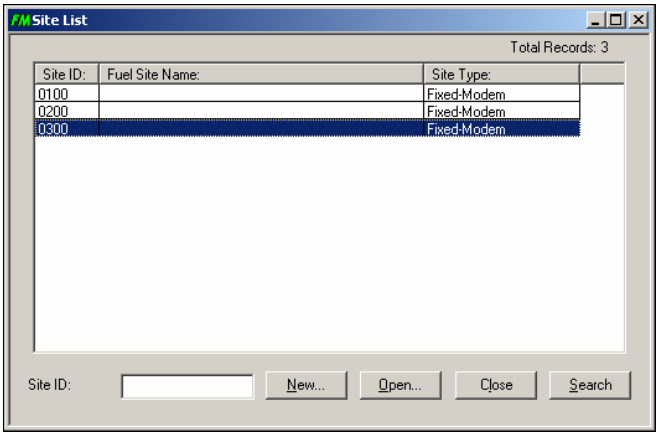

Fig 6.2

Chapter 6: Site Database

The SITE DATABASE contains records that store information about each FUELMASTER® equipped site, and is used as a reference for generating reports.

- Click the Tables pull-down menu:
- Click the Site selection in the Tables pull-down menu:

NEW

- The NEW function button allows a new Site record to the opened. A new Site ID must be entered in the Site ID edit box prior to selection of New;

OPEN

- The OPEN function button opens an existing Site record. The Site record to be opened must be highlighted with a left click prior to the selection of Open;

CLOSE

- The CLOSE function button will close the Site List dialog box; and,

SEARCH

- The SEARCH function button will search the existing Site database for the Site ID entered in the Site ID edit box.

SITE ID

- Site IDs are four digit alphanumeric unless the site is to be an automated mobile site in which case the Site ID must be a four digit numeric.
- The FUELMASTER® software will pad ID entries that are entered with less than four digits with spaces.
- Spaces are NOT numeric characters, and therefore not acceptable as the Site ID for an automated Mobile truck site.
- The Site ID of a Mobile Automated Truck must have all 4 numeric digits entered in the SITE ID field.

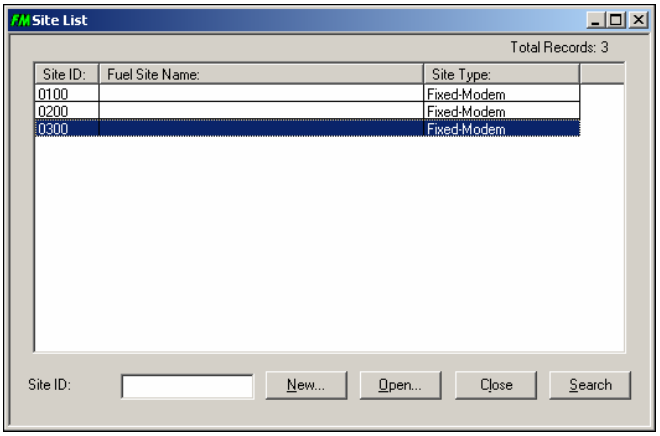

Fig 6.3

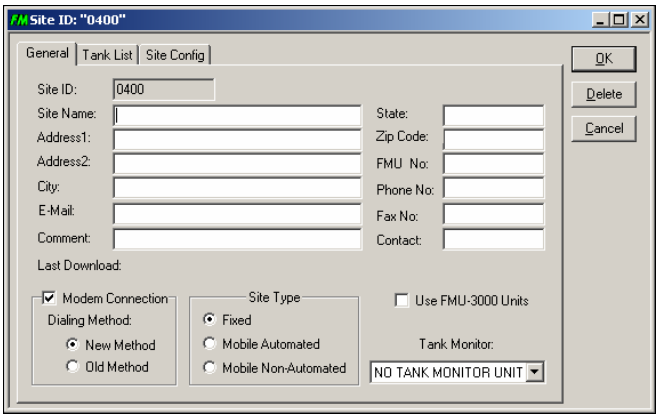

Fig 6.4

List Box:

- The List Box provides a list of existing vehicles by site ID, fuel site name and phone number.
- Highlighting a record (clicking on the site vehicle), and selecting the function button Open will open that site record.
- The listed site data, site ID, fuel site name and phone number, may be ordered alphanumerically by clicking on the list's field headers, site ID, fuel site name and phone number.

Click the New or Open button for the Site ID tabbed dialog box: it contains three function buttons, and four tabs or property pages.

NOTE:

- One of the most common ERRORS is to enter the FMU's phone number in the Phone No. edit box and to enter an ID number for the FMU, such as FMU number 12, in the FMU No. edit box.
- The FMU's phone number shall be entered in the FMU No. edit box.
- The number entered in the FMU No. edit box is the number that the software will dial to communicate with the FMU.

SAVE

- The SAVE selection will save the Site information on the Site ID dialog box, and FUELMASTER® will revert back to the Site List dialog box.

DELETE

- The DELETE selection will delete all information presented on the Site ID dialog box, and FUELMASTER® will revert back to the Site List dialog box.

CANCEL

- The CANCEL selection will cause FUELMASTER® to revert back to the Site List dialog box without saving information found on the Site ID dialog box.

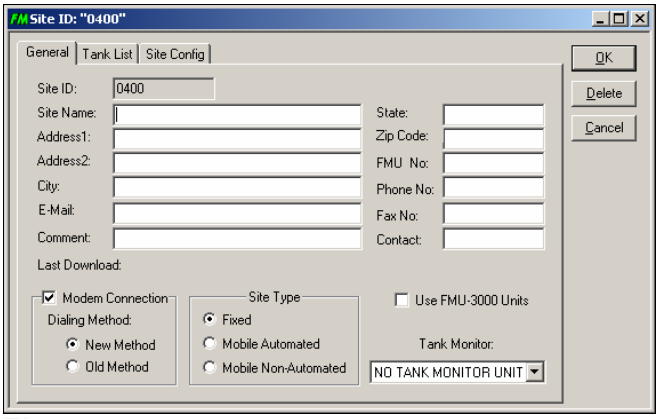

Fig 6.5

General Tab

- The General page contains fourteen edit boxes, two information edit boxes, four radio buttons and a check box.

SITE NAME

- The 40-digit alphanumeric SITE NAME field should be used for the site name.

ADDRESS 1

- The 40-digit alphanumeric ADDRESS 1 field should be used for the primary address of the site.

ADDRESS 2

- The 40-digit alphanumeric ADDRESS 2 field should be used for the secondary address of the site.

CITY

- The 40-digit alphanumeric CITY field should be used for the city within which the site is located.

STATE

- The 2-digit alphanumeric STATE field should be used for the 2-digit abbreviation of the state with in which the site is located.

ZIP CODE

- The 10-digit alphanumeric ZIP CODE field should be used for ZIP Code of the site.

FMU NO.

- The 25-digit alphanumeric FMU NO. field shall be used for the telephone number of the phone line connected to the FMU's modem. This is The Phone Number the software will dial to connect to the MFU.

PHONE NO.

The 25-digit alphanumeric PHONE NO. field should be used for the telephone number where an individual representing the site can be contacted.

FAX NO.

The 25-digit alphanumeric FAX NO. field should be used for the telephone number of a FAX machine of an individual representing the site.

E-MAIL

The 40-digit alphanumeric E-MAIL NO. field should be used for the e-mail address of an individual representing the site.

COMMENT

The 40-digit alphanumeric COMMENT field may be used for any type of information you may want to include.

CONTACT

The 30-digit alphanumeric CONTACT field should be used for the name of an individual representing the site.

TANK MONITOR

The TANK MONITOR combo box is used to select the type of Tank Monitor that is installed at the site. Information for the selected Tank Monitor can then be viewed, entered and edited via the Tank Monitor Tab.

SITE ID

The 8-digit numeric Site ID field was entered via the Site List dialog box, Site ID edit box.

LAST DOWNLOAD

The LAST DOWNLOAD information box will display the date of the last download from this site.

MODEM CONNECTION

Dialing Method – Select either New or Old dialing Method with the Radio Box (select New).

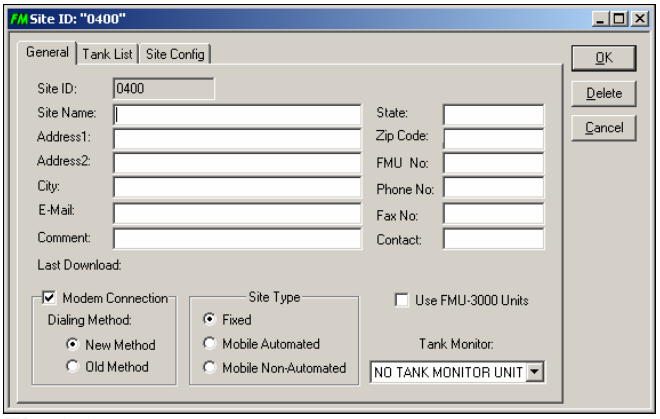

Fig 6.6

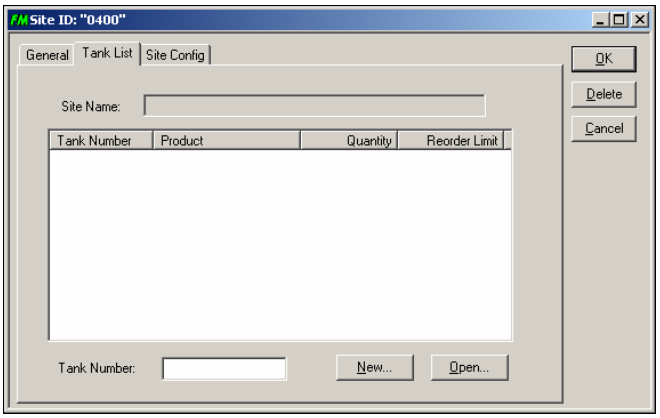

Fig 6.7

FIXED
- Check the FIXED radio button if the site is a fixed site.

MOBILE AUTOMATED
- NOTE: Should the MOBILE AUTOMATED selection not be selectable, it's because an invalid site ID has been entered in the prior dialog box.
- Check the MOBILE AUTOMATED radio button if the site is an automated mobile site.

MOBILE NONAUTOMATED
- Check the MOBILE NONAUTOMATED radio button if the site is a non-automated mobile site.

MODEM CONNECTION
- Check the MODEM CONNECTION check box if the site has a modem in the FMU (if it is a Master FMU, it will have one).

USE FMU-3000 UNITS
- Check the USE FMU-3000 UNITS if the FUELMASTER® 3000 FMU hardware will be installed at this site.

Click on the Tank List tab for the Tank List tab page:

Tank List Tab

SITE NAME
- The 40-digit SITE NAME field was entered via the Tables pull-down menu, Site, Site ID, General Tab page, Site Name edit box.

TANK NUMBER
- The TANK NUMBER field was entered via the Tables pull-down menu, Site, Site ID, Tank List tab page, Tank ID dialog box, Tank Name edit box.

PRODUCT
- The PRODUCT field was entered via the Tables pull-down menu, Site, Site ID, Tank List tab page, Tank ID dialog box, Product combo box.

REORDER LIMIT
- The REORDER LIMIT field was entered via the Tables pull-down menu, Site, Site ID, Tank List tab page, Tank ID dialog box, Reorder Limit edit box.

TANK NUMBER
- The Tank NUMBER is a 2-digit numeric field.

NEW
- The NEW function button allows a new Tank Number record to the opened.
- A new Tank ID must be entered in the Tank ID edit box prior to selection of New;

OPEN
- The OPEN function button opens an existing Tank record.
- The Tank record to be opened must be highlighted with a left click prior to the selection of Open;

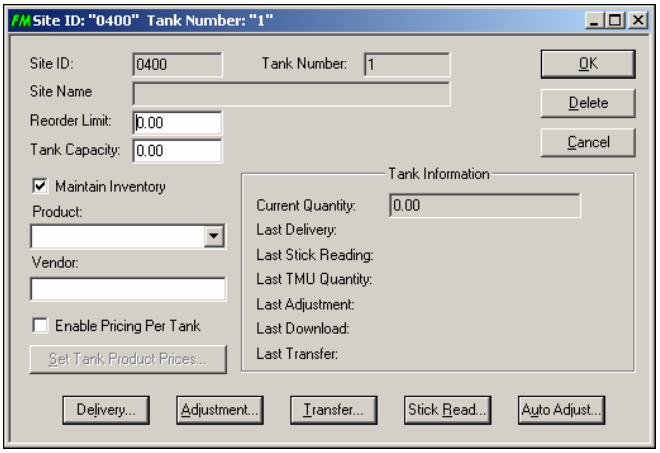

Fig 6.8

Tank List Page

- Click the New or Open button for the Tank List page: it contains eight function buttons, ten information boxes, one check box, and three edit boxes.

REORDER LIMIT

- The value is defined when the tank created. When the quantity in the tank falls below this value, the Central Controller operator is informed (in the Download Exception Report) that the product for this tank needs to be reordered.

TANK CAPACITY

- The fuel capacity of the tank will be entered in the 15-digit alphanumeric TANK CAPACITY field.

PRODUCT

- Select Product number via the Product combo box.
- The 4-digit numeric Product field was entered via the Tables pull-down menu, Products, Products List dialog box, Product ID edit box.
- A product number must be selected from the existing Product Numbers.

MAINTAIN INVENTORY

- Click the check box for the FUELMASTER® system to maintain an ongoing fuel balance in this tank.
- It deducts any fuel transactions from inventory when the FMU is downloaded and adds any drops or adjustments that are performed.

PRODUCT DESCRIPTION

- The 20-digit alphanumeric Product Description fields are entered via the Tables pull-down menu, Products, Products List dialog box, Product ID dialog box.
- The Product Description field is automatically entered by FUELMASTER® in the information box when the Product number is selected.

SITE ID

- The 8-digit numeric Site ID field was entered via the Site List dialog box, Site ID edit box.

SITE NAME

- The 40-digit SITE NAME field was entered via the Tables pull-down menu, Site, Site ID, General Tab page, Site Name edit box.

TANK NUMBER

- The TANK NUMBER field was entered via the Tables pull-down menu, Site, Site ID, Tank List tab page, Tank ID dialog box, Tank Name edit box.

LAST DELIVERY

- This indicates the date, time, and quantity of the last time fuel was added to this tank.

LAST STICK READING

- This indicates the date, time, and quantity of the manual last stick reading by the operator was entered for this tank.

LAST TMU QUANTITY

- This indicates the date, time, and quantity of the last value reported from an installed Tank Level Monitoring Unit (TMU) was entered for this tank

LAST ADJUSTMENT

- This indicates the date, time, and quantity of the last adjustment entered for this tank.

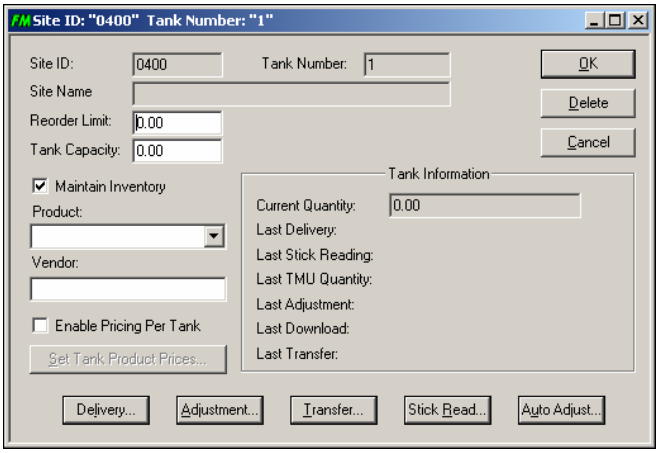

Fig 6.9

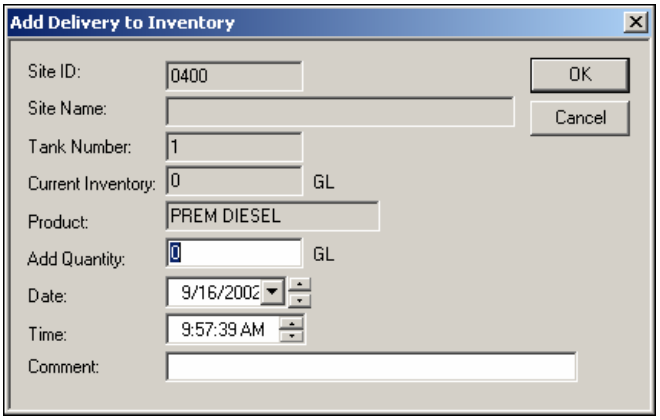

Fig 6.10

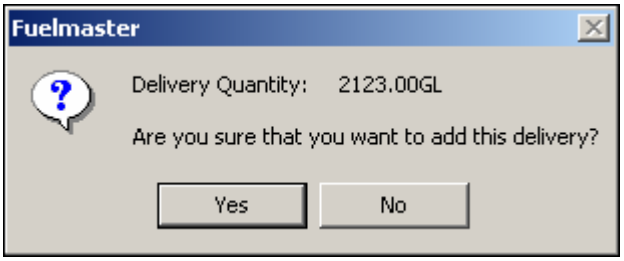

Fig 6.11

LAST DOWNLOAD

- This indicates the date, time, and quantity of the last download of transactions from the FMU at this site. It indicates that fuel transactions have been recorded from this tank.

LAST TRANSFER

- This indicates the date, time, and quantity of the last transfer into or out of this tank. If the amount is negative, the fuel was transferred out of the tank. If the amount is positive, the fuel was transferred into the tank.

SAVE

- The SAVE selection will save the Site information on the Site ID dialog box, and FUELMASTER® will revert back to the Site List dialog box.

DELETE

- The DELETE selection will delete all information presented on the Site ID dialog box, and FUELMASTER® will revert back to the Site List dialog box.

CANCEL

- The CANCEL selection will cause FUELMASTER® to revert back to the Site List dialog box without saving information found on the Site ID dialog box.

DELIVERY

- Note: One can't add a delivery to a tank until that tank has been added to the system.

Add Delivery Page

- Click the Delivery button to add a deliver to a tank: it contains two function buttons, five information boxes, and four edit boxes.

OK

- The OK selection will save the delivery information on the Add Delivery to Inventory dialog box, and FUELMASTER® will revert back to the Site ID dialog box.

CANCEL

- The CANCEL selection will cause FUELMASTER® to revert back to the Site ID dialog box without saving information entered on the Add Delivery to Inventory dialog box.

SITE ID

- The 8-digit numeric Site ID field was entered via the Site List dialog box, Site ID edit box.

SITE NAME

- The 40-digit SITE NAME field was entered via the Tables pull-down menu, Site, Site ID, General Tab page, Site Name edit box.

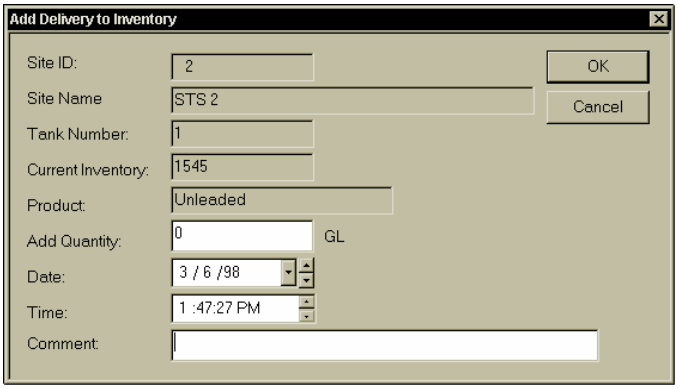

Fig 6.12

TANK NUMBER

- The TANK NUMBER field was entered via the Tables pull-down menu, Site, Site ID, Tank List tab page, Tank ID dialog box, Tank Name edit box.

CURRENT INVENTORY

- The amount of fuel in each tank is maintained by FUELMASTER® and for a given tank number is displayed by in the CURRENT INVENTORY field.

PRODUCT

- The 20-digit alphanumeric Product Description fields are entered via the Tables pull-down menu, Products, Products List dialog box, Product ID dialog box.

ADD QUANTITY

- NOTE: The fuel added to the tank in the ADD QUANTITY field must be smaller than the tank capacity.
- The fuel added to the tank will be entered in the 15-digit alphanumeric ADD QUANTITY field.

DATE

- The 8-digit numeric DATE field (mm/dd/yyyy) is used to enter the date of the fuel was delivered. The DATE field has a default entry of the current date from the computer's clock.

TIME

- The TIME field is used to enter the time the fuel was delivered. Enter the time of the deliver in this as hh:mm:ss. Use military time. Example: 15:30:00 is 3:30:00 PM

COMMENT

- The 40-digit alphanumeric COMMENT field may be used for any type of information you may want to include.

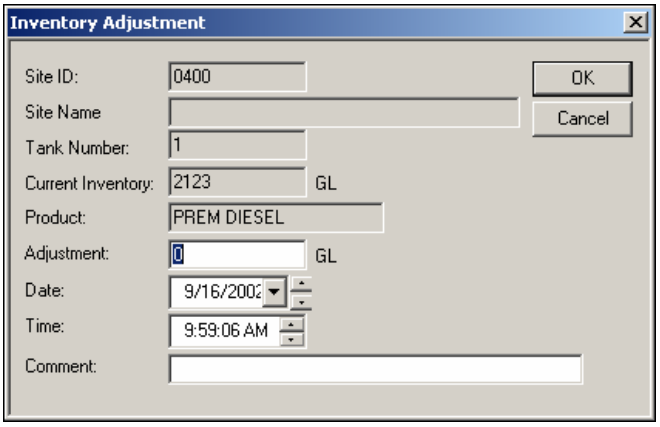

Fig 6.13

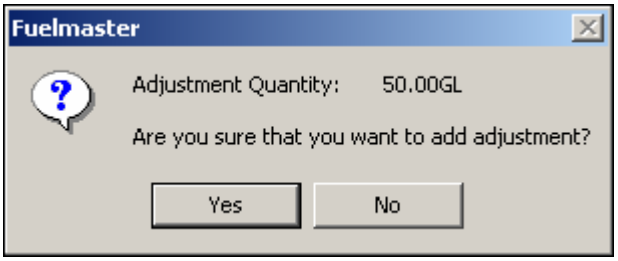

Fig 6.14

Select OK or Cancel to return to the Site ID dialog box.

- If OK was selected the entered data will appear in the appropriate information boxes on the Site ID dialog box

<u>Tank Adjustment Page</u>

- Click the Adjustment button to adjust the tank quantity:
- The Inventory Adjustment dialog box **(Fig 6.13)** contains two function buttons, five information boxes, and four edit boxes.

OK

- The OK selection will save the delivery information on the Inventory Adjustment dialog box, and FUELMASTER® will revert back to the Site ID dialog box.

CANCEL

- The CANCEL selection will cause FUELMASTER® to revert back to the Site ID dialog box without saving information entered on the Inventory Adjustment dialog box.

SITE ID

- The 8-digit numeric Site ID field was entered via the Site List dialog box, Site ID edit box.

SITE NAME

- The 40-digit SITE NAME field was entered via the Tables pull-down menu, Site, Site ID, General Tab page, Site Name edit box.

TANK NUMBER

- The TANK NUMBER field was entered via the Tables pull-down menu, Site, Site ID, Tank List tab page, Tank ID dialog box, Tank Name edit box.

CURRENT INVENTORY

- The amount of fuel in each tank is maintained by FUELMASTER® and for a given tank number is displayed by in the CURRENT INVENTORY field.

PRODUCT

- The 20-digit alphanumeric Product Description fields are entered via the Tables pull-down menu, Products, Products List dialog box, Product ID dialog box.

ADJUSTMENT

- The fuel quantity adjustment will be entered in the 15-digit alphanumeric ADJUSTMENT field.

DATE

- Enter the date of the adjustment in this as mm/dd/yyyy.

TIME

- Enter the time of the adjustment in this as hh:mm:ss. Use military time. Example: 15:30:00 is 3:30:00 PM

COMMENT

- The 40-digit alphanumeric COMMENT field may be used for any type of information you may want to include.

Select OK or Cancel to return to the Site ID dialog box.

- If OK was selected the entered data will appear in the appropriate information boxes on the Site ID dialog box

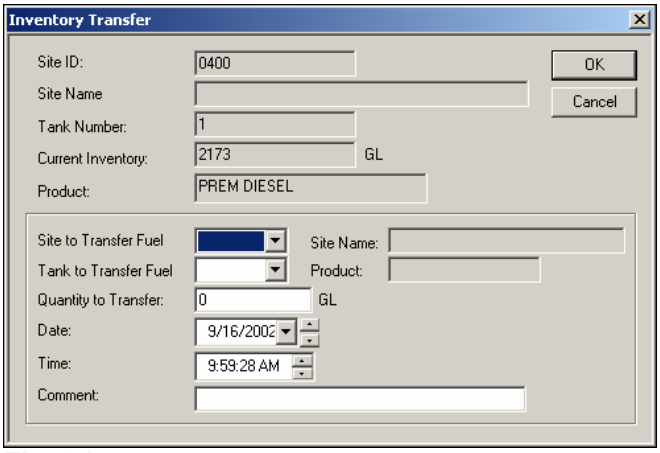

Fig 6.15

Tank Transfer Page

- Click the TRANSFER button to record a fuel transfer between tanks:
- The Inventory Transfer dialog box**(Fig 6.15)** contains two function buttons, seven information boxes, and six edit boxes.

OK

- The OK selection will save the delivery information on the Inventory Transfer dialog box, and FUELMASTER® will revert back to the Site ID dialog box.

CANCEL

- The CANCEL selection will cause FUELMASTER® to revert back to the Site ID dialog box without saving information entered on the Inventory Transfer dialog box.

SITE ID

- The 8-digit numeric Site ID field was entered via the Site List dialog box, Site ID edit box.

SITE NAME

- The 40-digit SITE NAME field was entered via the Tables pull-down menu, Site, Site ID, General Tab page, Site Name edit box.

TANK NUMBER

- The TANK NUMBER field was entered via the Tables pull-down menu, Site, Site ID, Tank List tab page, Tank ID dialog box, Tank Name edit box.

CURRENT INVENTORY

- The amount of fuel in each tank is maintained by FUELMASTER® and for a given tank number is displayed by in the CURRENT INVENTORY field.

PRODUCT

- The 20-digit alphanumeric Product Description fields are entered via the Tables pull-down menu, Products, Products List dialog box, Product ID dialog box.

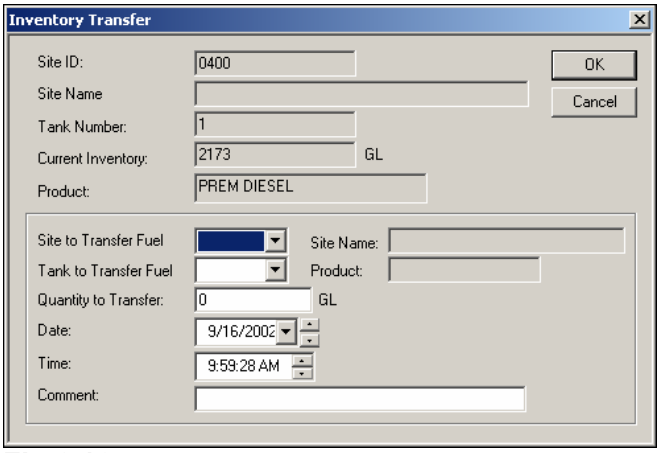

Fig 6.16

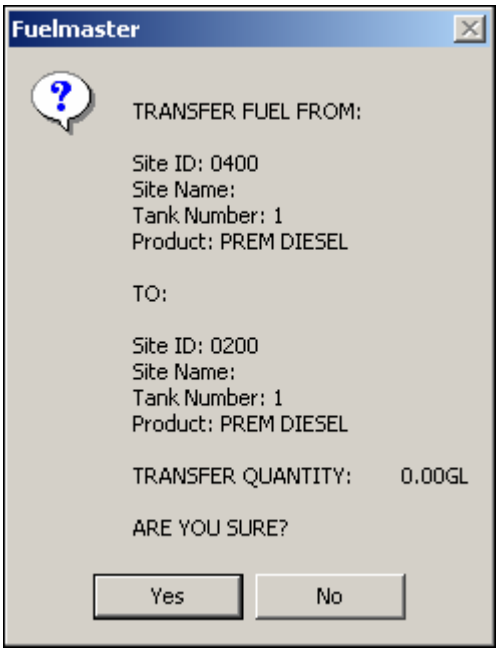

Fig 6.17

SITE TO TRANSFER FUEL TO

- Select a site to transfer fuel to using the 'Site To Transfer Fuel To" combo box.

SITE NAME (Information Box associated with SITE TO TRANSFER FUEL TO edit box)

- The 40-digit SITE NAME field was entered via the Tables pull-down menu, Site, Site ID, General Tab page, Site Name edit box.
- The Site Name field is automatically entered by FUELMASTER® in the information box when a site is selected in the combo box "Site to Transfer Fuel To".

TANK TO TRANSFER FUEL TO

- Select a tank to transfer fuel to using the "Tank To Transfer Fuel To" combo box.

PRODUCT (Information Box associated with TANK TO TRANSFER FUEL TO edit box)

- The 20-digit alphanumeric Product Description field is entered via the Tables pull-down menu, Products, Products List dialog box, Product ID dialog box.
- The Product Description field is automatically entered by FUELMASTER® in the information box when a tank is selected in the combo box "Tank to Transfer Fuel To".

QUANTITY TO TRANSFER

- The quantity of fuel to transfer between tanks will be entered in the 15-digit alphanumeric Quantity to Transfer field.

DATE

- Enter the date of the transfer as mm/dd/yyyy.

TIME

- Enter the time of the transfer hh:mm:ss. Use military time.

COMMENT

- The 40-digit alphanumeric COMMENT field may be used for any type of information.

Select OK or Cancel to return to the Site ID dialog box.

- If OK was selected the entered data will appear in the appropriate information boxes on the Site ID dialog box.

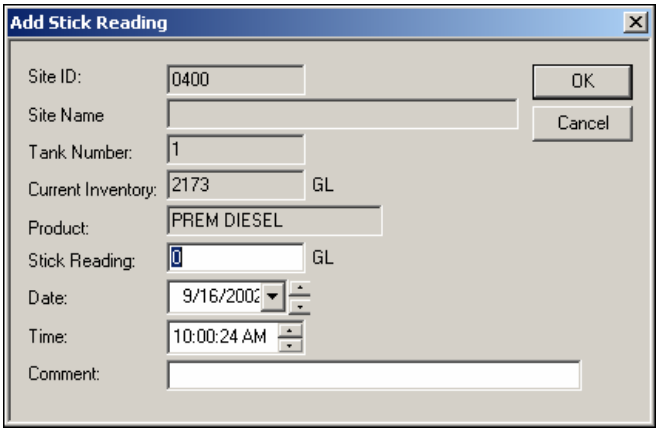

Fig 6.18

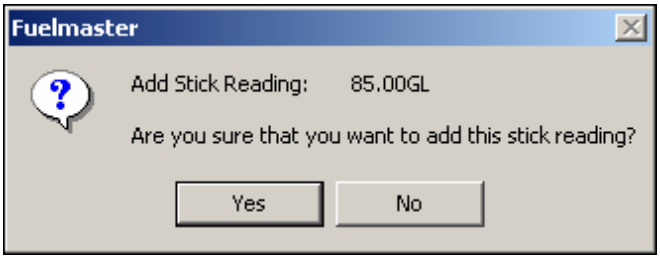

Fig 6.19

Stick Read Page

- Click the STICK READ button to enter a stick reading for a tank:
- The Add Stick Reading dialog box contains two function buttons, five information boxes, and four edit boxes.

OK

- The OK selection will save the information on the Add Stick Reading dialog box, and FUELMASTER® will revert back to the Site ID dialog box.

CANCEL

- The CANCEL selection will cause FUELMASTER® to revert back to the Site ID dialog box without saving information entered on the Add Stick Reading dialog box.

SITE ID

- The 8-digit numeric Site ID field was entered via the Site List dialog box, Site ID edit box.

SITE NAME

- The 40-digit SITE NAME field was entered via the Tables pull-down menu, Site, Site ID, General Tab page, Site Name edit box.

TANK NUMBER

- The TANK NUMBER field was entered via the Tables pull-down menu, Site, Site ID, Tank List tab page, Tank ID dialog box, Tank Name edit box.

CURRENT INVENTORY

- The amount of fuel in each tank is maintained by FUELMASTER® and for a given tank number is displayed by in the CURRENT INVENTORY field.

PRODUCT

- The 20-digit alphanumeric Product Description fields are entered via the Tables pull-down menu, Products, Products List dialog box, Product ID dialog box.

STICK READING

- NOTE: The stick reading must be smaller than the tank capacity.
- The stick reading will be entered in the 15-digit alphanumeric ADD QUANTITY field.

DATE

- Enter the date of the stick reading in this as mm/dd/yyyy.

TIME

- Enter the time of the stick reading in this as hh:mm:ss. Use military time.

COMMENT

- The 40-digit alphanumeric COMMENT field may be used for any type of information you may want to include.

Select OK or Cancel to return to the Site ID dialog box.

- If OK was selected the entered data will appear in the appropriate information boxes on the Site ID dialog box

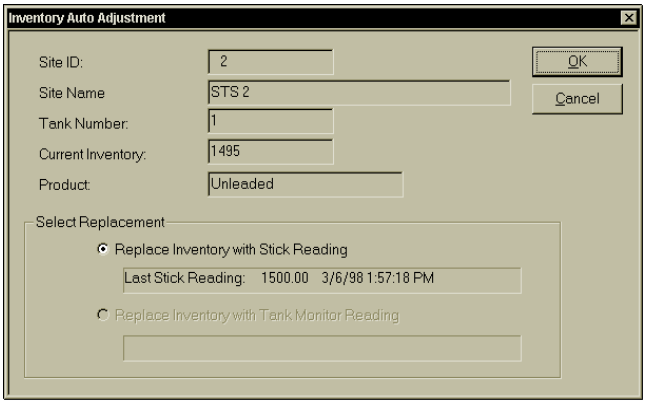

Fig 6.20

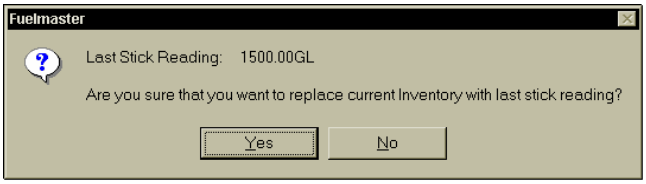

Fig 6.21

Auto Adjust Page

- Click the AUTO ADJUST button to select the method of tank inventory adjustment:
- The Inventory Auto Adjustment dialog box contains two function buttons, seven information boxes, and two radio buttons.

OK

- The OK selection will save the information on the Inventory Auto Adjustment dialog box, and FUELMASTER® will revert back to the Site ID dialog box.

CANCEL

- The CANCEL selection will cause FUELMASTER® to revert back to the Site ID dialog box without saving information entered on the Inventory Auto Adjustment dialog box.

SITE ID

- The 8-digit numeric Site ID field was entered via the Site List dialog box, Site ID edit box.

SITE NAME

- The 40-digit SITE NAME field was entered via the Tables pull-down menu, Site, Site ID, General Tab page, Site Name edit box.

TANK NUMBER

- The TANK NUMBER field was entered via the Tables pull-down menu, Site, Site ID, Tank List tab page, Tank ID dialog box, Tank Name edit box.

CURRENT INVENTORY

- The amount of fuel in each tank is maintained by FUELMASTER® and for a given tank number is displayed by in the CURRENT INVENTORY field.

PRODUCT

- The 20-digit alphanumeric Product Description fields are entered via the Tables pull-down menu, Products, Products List dialog box, Product ID dialog box.

REPLACE INVENTORY WITH SICK READING

- The fuel added to the tank will be entered in the 15-digit alphanumeric ADD QUANTITY field.

LAST STICK READING (Information Box associated with REPLACE INVENTORY WITH SICK READING edit box)

- This information field will display the last Stick Reading quantity and the time and date of that reading.

REPLACE INVENTORY WITH TANK MONITOR READING

- Enter the date of the deliver in this as mm/dd/yyyy.

LAST TANK MONITOR READING (Information Box associated with REPLACE INVENTORY WITH TANK MONITOR READING edit box)

- This information field will display the last Tank Monitor Reading quantity and the time and date of that reading.

Select OK or Cancel to return to the Site ID dialog box.

- If OK was selected the entered data will appear in the appropriate information boxes on the Site ID dialog box.

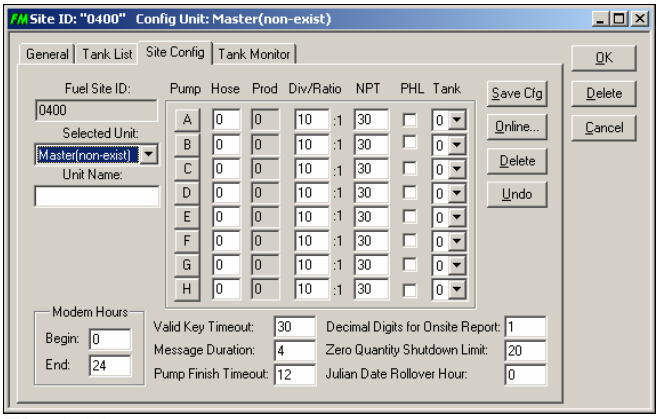

Fig 6.22

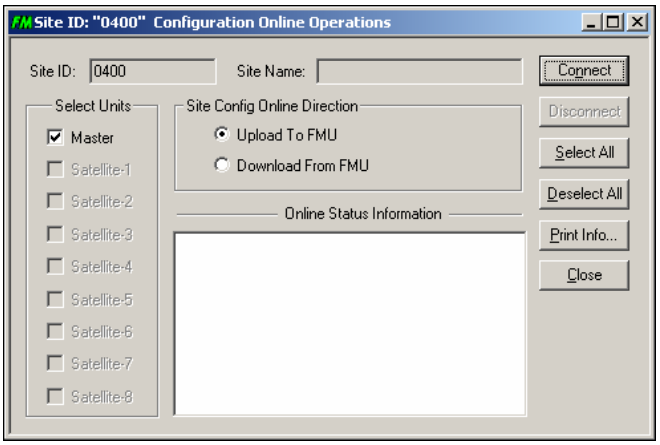

Fig 6.23

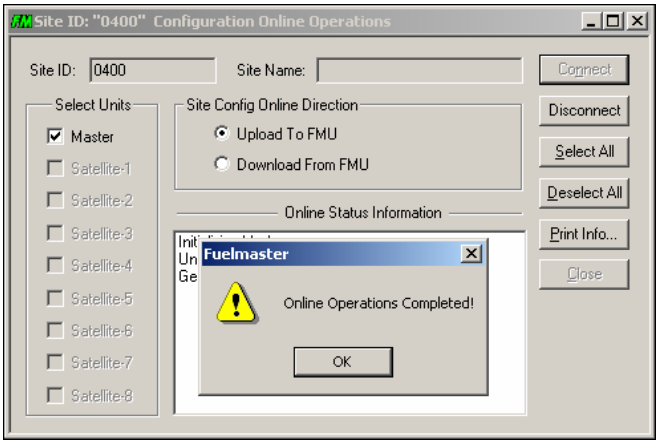

Fig 6.24

Click the SITE CONFIG. tab for the SITE CONFIG. tab page: it contains information boxes, edit boxes and check boxes for eight product selections (A through H); four function buttons, one information box; and, ten edit boxes.

Site Configuration Page

FUEL SITE ID

- The Fuel Site ID field is an 8-digit number, and was entered in the Site ID edit box on the Site List dialog box.

SAVE

- The SAVE selection will save the Site information on the Site ID dialog box, and FUELMASTER® will revert back to the Site List dialog box.

ONLINE

- The Online selection will bring up the Site ID Configuration Upload/Download dialog box. **(Fig 6.23)**
- This dialog box will allow the site data as entered in to Central Controller to be uploaded (i.e., transferred from the Central Controller to an FMU) or the site information as stored in an FMU to downloaded (i.e., transferred to the Central Controller).

Site ID Configuration Upload/Download

Connect

- The Connect selection will initiate the online data transfer sequence (i.e., the Central Controller will dial the FMU). The progress of the dialing/data transfer sequence will be displayed on the Online Status Information list box.
- Upon completion of the online sequence a Finished Online Sequence, FUELMASTER® will so state in a message box.

Select All

- The Select All selection will check all active Select Units check boxes.

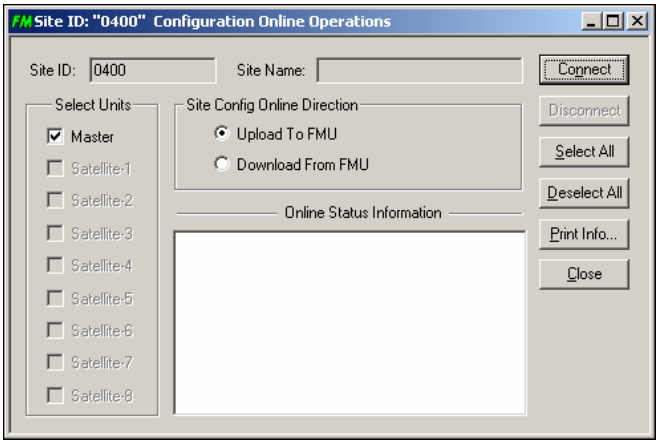

Fig 6.25

Deselect All

- The Deselect All selection will remove the checks from all active Select Units check boxes.

Cancel

- The CANCEL selection will cause FUELMASTER® to revert back to the Site Configuration Tab dialog box without saving information entered on the Site ID Configuration Upload/Download dialog box.

Site ID

- The Fuel Site ID field is an 8-digit number, and was entered in the Site ID edit box on the Site List dialog box.

Site Name

- The 40-digit SITE NAME field was entered via the Tables pull-down menu, Site, Site ID, General Tab page, Site Name edit box.

Upload

- The Upload selection will direct the Central Controller to send the information presented on the Site ID Configuration Upload/Download dialog box to the selected FMU.

Download

- The Download selection will direct the Central Controller to receive the current configuration information from the selected FMU. This received information will be presented on the Site ID Configuration Upload/Download dialog box.

Master

- The Master selection corresponds to the Master FMU configured on the Site Configuration page. Check the Master check box to Upload or download configuration.

Satellite 1-8

- Satellite selections are only those configured on the Site Configuration Page. Select to Upload or Download hose configuration.

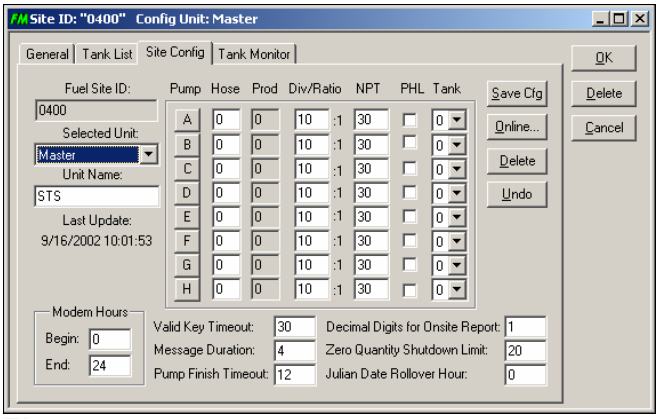

Fig 6.26

Cont'd from Site ID/Site Configuration Tab dialog box. **(Fig 6.26)**

DELETE

- The DELETE selection will delete all information presented on the Site ID dialog box, and FUELMASTER® will revert back to the Site List dialog box.

REFRESH

- The REFRESH selection will cause any changed entries on the Site ID/Site Configuration Tab to revert back the data at the time of the last save command.

Product Selection (Hoses A through H):

HOSE

- *Note:* If you have multiple sites, it is common practice to number the hoses consecutively from one site to the next.
- For example: Site #1 uses hoses 1,2,3, and Site #2 uses hoses 5,6,7,8. This allows the Central Controller operator to see where the fueling occurred at a glance.
- If you have more than 63 hoses, this doesn't work for your system.
- Pumps A-H must be assigned a hose number.
- When initiating a transaction at the FMU, the user is prompted to select a hose using the assigned number.
- Valid pump numbers must be from 1 to 63. No duplicate hose numbers can exist at one site.
- If you have multiple FMUs (Masters and Satellites), each must have different hose numbers.
- If a hose does not exist, leave the hose number set to zero (0).

PRODUCT

- Product numbers are selected via the Tank combo boxes.
- The 4-digit numeric Product fields are entered via the Tables pull-down menu, Products, Products List dialog box, Product ID edit box.
- The tank numbers and their correlation with products was entered via the Tables pull-down menu, Site, Site List, Site ID/Tank List page, Site ID/Tank number dialog box (i.e., select a tank number and the product for that tank has predetermined).

DIV/RATIO

- Enter the pulser divide ratio for this hose. Each hose at your fuel site must have this device (pulser) that generates pulses as the fuel is dispensed.
- These pulses are counted by the FMU and stored in the transaction memory.
- When downloaded, the Central Controller then calculates a quantity from this count based on the value stored in the divide ratio field.
- Most pulsers on the market today are either 100:1 or 10:1, with 10:1 being the most common.
- Some pulsers have other divide rate values; FUELMASTER® can accommodate divide ratios from 1:1 to 9999:1.
- If the DIV/RATIO does not match that of the pulser, the quantity calculated upon download will be incorrect.
- Examples of DIV/RATIO: 10:1 pulser produces 10 pulses for every unit (gal.) 100:1 pulser produces 100 pulses for every unit (gal.)

NPT (No Pulse Timeout)

- The No Pulse Timeout field should be defined as the amount of time between the hose being authorized by the FMU and the first pulse being received by the FMU.
- If no pulses are received by the FMU in the defined amount of time (due to pulser failure or too much time being taken by the user), the transaction is terminated and begins a new transaction.

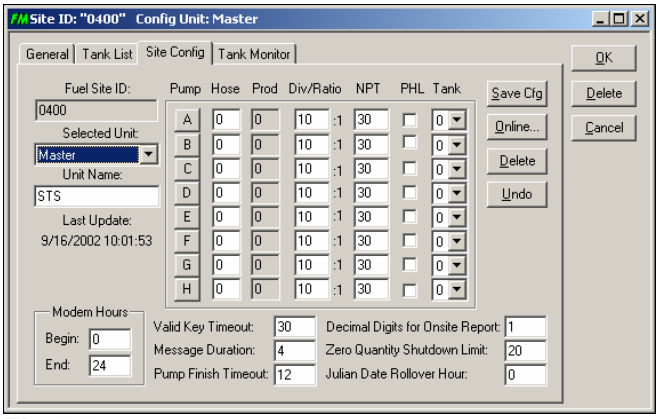

Fig 6.27

- A good rule of thumb for this value is to determine how long it takes (once the hose has been selected) for you to walk to the dispenser, remove the gas cap, turn on the dispenser, insert the fuel hose and squeeze the nozzle trigger to start pumping.
- This field supports from 5 to 255 seconds and can be set differently for each hose.
- The most common setting is 30 - 45 seconds.
- You might try this and then adjust it later if found to be too long or short.
- Note however, that in the case of a failed pulser, fuel can be dispensed without being counted.
- Therefore, you do not want to set this value too high because a larger quantity of fuel may be dispensed before shutting down the hose.

PHANDLE (Pump Handle)

- NOTE: Setting Pump Handle to NO might be a problem with some dispensers and pulsers that produce pulses during the meter reset cycle. Pump handle YES is the most preferred method.
- Note: The wiring (control) method dictates the pump handle detect setting. Certain conditions must be met in order to use Pump Handle set to YES. Check with your installer for the control method used.
- The Pump Handle field indicates whether a pump handle should be monitored for this hose.
- A YES in this field indicates that the pump handle should be detected and that the FMU should prompt you as to when to turn the pump handle on. The unit does not start looking for pulses until the pump handle has been turned on.
- A NO in this field means that a pump handle should not be detected.
- The FMU begins looking for pulses as soon as the hose is authorized for use.

TANK

- Note: The tank inventory must be created before the site can be configured.
- Note: Improper entries in this field will result in inaccurate inventory calculations.
- Enter the tank number that corresponds to the selected hose. When you enter a value, the Central Controller automatically assigns the

product code defined for the selected tank number.

UNIT NAME

- The Unit Name field must contain a unique, descriptive name assigned to this unit.
- When creating the unit record, the unit name is automatically set to the description of the fuel site as defined in the Site Database.
- If this is the master unit, this should be left as it appears. If your site also utilizes satellite FMUs, the unit names for these should be modified to include the unit number or other descriptive term that sets one unit name apart from another.
- This field is used by the communications portions of the program to determine whether the site dialed matches the site selected.

SELECT UNIT

- The Select Unit combo box allows the Master FMU and up to 8 Satellites FMUs to be configured individually.

MODEM ANSWER BEGINNING HOUR / MODEM ANSWER ENDING HOUR

- Note: When the FMU answers the modem (phone), there is and exchange of passwords that prevents un-authorized connection to the FMU.
- These two fields control when the FMU will respond to modem communications with the Central Controller program.
- The FMU modem only answers the phone between the beginning hour to the ending hour. These values should be entered in military time.

VALID KEY CARD TIMEOUT

- Note: If you set your VALID KEY TIME OUT value too high, the following incident may occur on an FUELMASTER® 2000:
- The VALID KEY TIME OUT is set to 255 seconds. You insert a PROKEE® in an FUELMASTER® 2000, make the appropriate FMU entries, and select a hose. Before leaving the FMU to turn on the pump handle, you accidentally push the PROKEE® into the socket as you were attempting to remove it. This results in the PROKEE® being read again and a new transaction being initiated. After you walk away and begin fueling, another operator walks up and inserts a PROKEE® into the socket without looking at the FMU display. The FMU ignores this new key insertion because it's already waiting for a keypad entry. When the second operator enters information and selects a hose, fuels and then leaves, the result is that both transactions are charged to the first PROKEE® (vehicle).
- The Valid Key Card Timeout field is defined as the amount of time allotted between inserting a PROKEE® to begin a transaction at the FUELMASTER® 2500 and dispensing fuel. This value must take into consideration the number of prompts that require a keypad response from the user before fueling. This field supports from 5 to 255 seconds. The most common setting is 30 to 45 seconds. In a FUELMASTER® 2000 this value is reset to zero after each keypad entry. This field needs to be long enough to handle the largest amount of entry required, but not too long or problems may result.

MESSAGE DURATION

- The FMU generates many different messages on the FMU display. The Message Duration field defines the length of time in seconds that each message remains on the display. The field supports from 1 to 10 seconds, with 4 seconds being the most common setting.

PUMP FINISH TIMEOUT

- NOTE: If the pump handle field is set to NO, specifying a PUMP FINISH TIME OUT value that is too high could result in a second user arriving immediately after the first being able to continue dispensing fuel since the hose could still be active. If the pump handle field is set to YES, a high value in this field does not present a problem since the transaction ends when the pump handle is turned off.
- The Pump Finish Timeout field is defined as the amount of time the hose remains active between pulses. If the delay in receiving pulses from the pulser reaches this value, the hose is shut down, the transaction is recorded and the FMU awaits a new transaction. The most common setting for this field is 15 to 20 seconds, but values ranging from 5 to 255 seconds are supported.

DECIMAL DIGITS FOR ONSITE REPORT

- If the on-site printer option has been installed at this site, the Decimal Digits for Onsite

Report field controls how the transaction fuel quantity is presented. This field supports either tenths (set to 1) or hundredths (set to 2).

ZERO QUANTITY SHUTDOWN

- Note: If a pulser becomes defective and no longer sends pulses for the FMU to count, the pump still dispenses (unrecorded) fuel for the length of time that the NO PULSE TIMEOUT is set. If you have a long NO PULSE TIME OUT of 45 seconds and a zero quantity shutdown value of 5, a total of 3 3/4 minutes of fuel can be dispensed (usually 10 or more gallons) before the hose is taken out of service (shutdown).
- The Zero Quantity Shutdown field specifies the number of Zero Quantity transactions a hose can produce before the FMU disables the hose. A Zero Quantity transaction is produced when the FMU has authorized a hose and then does not receive any pulses before the transaction is completed (either by time-out or pump handle turned off). This field supports a setting of 1 to 50. The most common settings are from 2 to 4. When a hose that has been shutdown by the FMU due to Zero Quantity transactions is selected for fueling, the message HOSE HAS BEEN SHUTDOWN. PLEASE ALERT SUPERVISOR is displayed.

JULIAN DATE ROLLOVER HOUR

- Note: Should the Julian Date Rollover Hour be set to 0600, transactions occurring from midnight to 6:00AM, for example on 3/22/97, will be listed as having occurred on 3/21/97. Although these transactions occurred after those transactions occurring from 6:00AM 3/21/97 to 12 midnight 3/21/97, they will appear on reports as having occurred before them.
- The Julian Date Rollover Hour is the hour, specified in military time, that the FMU uses to indicate the start of a new date. Some users want all fueling transactions that occur during the night to reflect a date of the prior day. To have the date to rollover at midnight, this field should be set to 0 (zero).

IMPORTANT NOTES ABOUT FUEL SITE CONFIGURATION RECORDS:

- Each of the hose and product definitions in the configuration must match the wiring location for each hose in the FMU. (Wiring locations are shown as pump A, B, C, etc.) An error here could cause you problems. For example: if you select hose #1 (which is defined in the configuration to be connected to pump #A) and the hose is actually connected to pump #B, when the FMU authorizes pump #A, the hose you have in your hand does not dispense product.
- The divide ratio stored in the Fuel Site configuration MUST be the same as the divide ratio of the pulser device, or incorrect quantities are recorded, For example: most pulser devices have a ration of 10:1, which means 10 pulses equates to 1 unit (gallon). If the pulser that is producing 10 pulses per gallon of fuel dispensed and the configuration is set to 100:1, then the resulting transaction quantity could be 1/10 of the amount actually pumped.

The configuration stored in the Central Controller MUST match the configuration stored in the FMU at the Fuel Site. If the configurations do not match, when the transactions are downloaded, an error in hose numbering, tank assignments, or divide rations could result in transactions with incorrect products, inventory errors, and incorrect quantities being reported.

The best method to ensure that the site configurations match is to make sure to upload any changes made in the Central Controller to the FMU and to upload any changes made at the FMU to the Central Controller program. It is recommended that a copy of the configuration records is printed and filed.

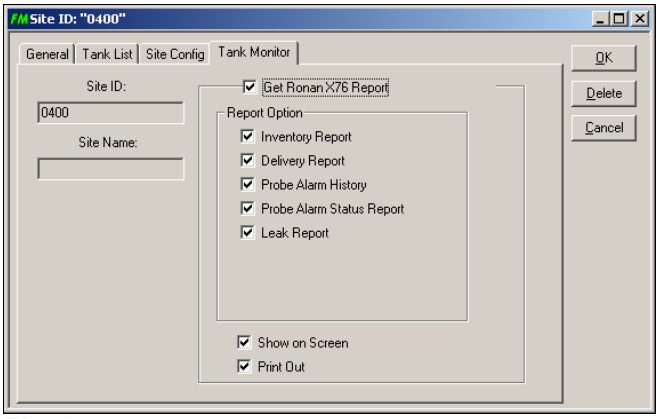

Fig 6.28

Tank Monitor Tab

Click the Tank Monitor tab for the Tank Monitor tab page:

- The Tank Monitor is selected on the Site ID dialog Box, General Tab and the Tank Monitor Combo Box.
- For this example the Veeder Root TLS350 was selected. In this example, the Tank Monitor tabbed dialog box contains two information boxes and ten check boxes:

SITE ID

- The Fuel Site ID field is an 8-digit number, and was entered in the Site ID edit box on the Site List dialog box.

SITE NAME

- The 40-digit SITE NAME field was entered via the Tables pull-down menu, Site, Site ID, General Tab page, Site Name edit box.

GET VEEDER ROOT REPORT

- Selection of the GET VEEDER ROOT REPORT Check Box will enable the other Check Boxes.

SHOW ON SCREEN & PRINT

- The SHOW ON SCREEN and PRINT OUT Check Boxes define the output options available.

REPORT OPTIONS

- Under the category of REPORT OPTIONS are Check Boxes defining the available options for the selected Tank Monitor.

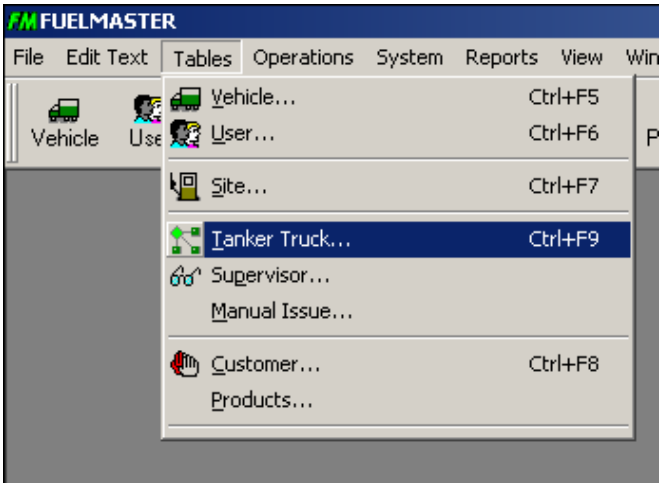

Fig 7.1

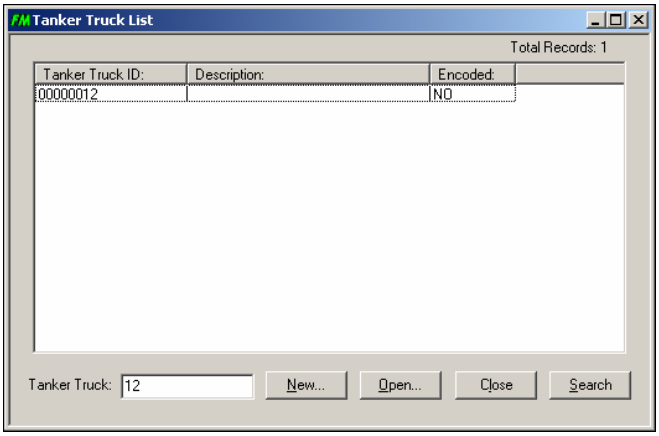

Fig 7.2

Chapter 7: Tanker Truck Database

The TANKER TRUCK DATABASE contains records that store information about each Tanker Truck that uses the FUELMASTER® system. Besides being the controlling source for the encoding and re-issuing of Tanker Truck PROKEES®, it is also used as a reference for generating reports.

- Click the Tables pull-down menu:
- Click the Tanker Truck selection in the Tables pull-down menu:

The Tanker Truck List dialog box contains four function buttons, a list box, and an edit box.

NEW

- The NEW function button allows a new Tanker Truck record to the opened. A new Tanker Truck ID must be entered in the Tanker Truck ID edit box prior to selection of New;

OPEN

- The OPEN function button opens an existing Tanker Truck record. The Tanker Truck record to be opened must highlighted with a left click prior to the selection of Open;

CLOSE

- The CLOSE function button will close the Tanker Truck List dialog box; and,

SEARCH

- The SEARCH function button will search the existing Tanker Truck database for the Tanker Truck ID entered in the Tanker Truck ID edit box.

TANKER TRUCK ID

The Tanker Truck ID is an 8-digit numeric field.

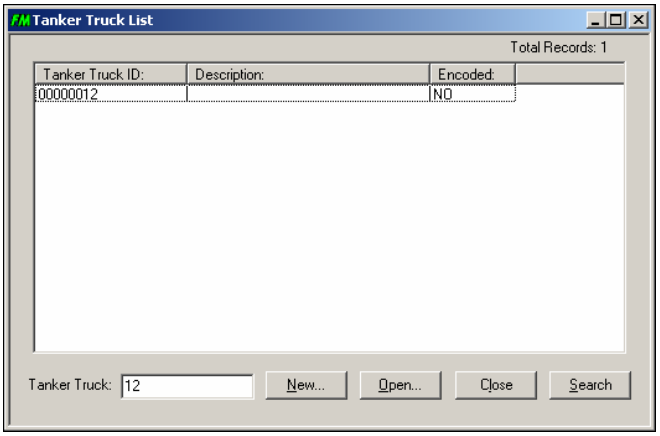

Fig 7.3

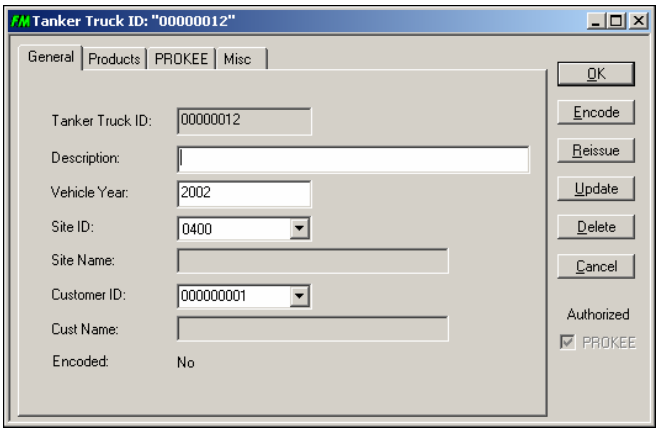

Fig 7.4

LIST BOX

- The List Box **(Fig 7.3)** provides a list of existing tanker trucks by tanker truck ID, description and encoded. Highlighting a record and clicking Open will open that tanker truck record.
- The listed data may be re-ordered alphanumerically by clicking on the list's column headers.

Click the New or Open button for the Tanker Truck ID tabbed dialog box: **(Fig 7.4)** it contains: six function buttons; one check box; and, four tabs or property pages.

OK

- The OK selection will save the Tanker Truck information on the Tanker Truck ID dialog box, and FUELMASTER® will revert back to the Tanker Truck List dialog box.

ENCODE

- The ENCODE selection will initiate the encoding of a PROKEE® with information representative of the data presented on the Tanker Truck ID dialog box.

REISSUE

- The REISSUE selection will increment the re-issue count, and change the encoded information to No.
- The Encode selection may then be used to encode a PROKEE®.

UPDATE

- The UPDATE selection will initiate the re-encoding (information update) of a PROKEE® with information representative of the data presented on the Tanker Truck ID dialog box.

DELETE

- The DELETE selection will delete all information presented on the Tanker Truck ID dialog box, and FUELMASTER® will revert back to the Tanker Truck List dialog box.

CLOSE

- The CLOSE selection will cause FUELMASTER® to revert back to the Tanker Truck List dialog box without saving information found on the Tanker Truck ID dialog box.

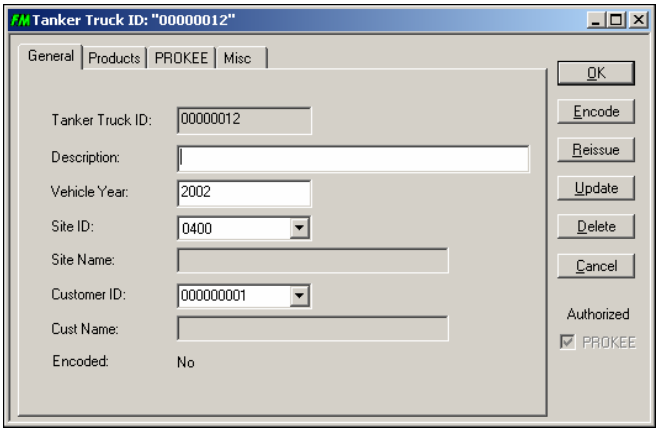

Fig 7.5

AUTHORIZED

- *NOTE*: When NEW is selected the AUTHORIZED check box button is disabled until the OK button is selected.
- Selection of the AUTHORIZED check box will authorize the Tanker Truck PROKEE®. NOT selecting the AUTHORIZE check box will cause the PROKEE®'s internal number to be placed on the PROKEE® lockout list.

The General page **(Fig 7.5)** contains four information boxes and four edit boxes.

DESCRIPTION

- The 40-digit alphanumeric Tanker Truck Description field is filled with a description of each Tanker Truck.

VEHICLE YEAR

- The 4-digit numeric Tanker Truck Year field (1900 through 2100) has a default entry of the current year from the computer's clock. Enter the year the Tanker Truck was manufactured or accept the default.

SITE ID

- Select the 4-digit alphanumeric Site ID field from among those entered via Tables pull-down menu, Site, Site List dialog box, and Site ID dialog box. The Site's name will be displayed below the ID entry.

CUSTOMER ID

- Select the 9-digit alphanumeric Customer ID field from among those entered via Tables pull-down menu, Customer, Customer List dialog box, and Customer ID dialog box.
- The customer's name will be displayed under the ID entry. If, under the Systems pull-down menu, Configuration, Configuration dialog box, Require Customer ID has NOT been selected, them any 9-digit alphanumeric Customer ID may be entered.

TANKER TRUCK ID

- The 8-digit numeric Tanker Truck ID field was entered via the Tanker Truck List dialog box, Tanker Truck ID edit box.

SITE NAME

- The 40-digit alphanumeric Customer Name field was entered via the Tables pull-down menu, Site, Site List dialog box, Site ID dialog box.

CUSTOMER NAME

- The 40-digit alphanumeric Customer Name field was entered via the Tables pull-down menu, Customer, Customer List dialog box, Customer ID dialog box.

ENCODED <Yes/No>

- The Encoded <Yes/No> information field presents the status of the Tanker Truck PROKEE®. PROKEE®s are encoded via the Tanker Truck ID dialog box, Encode function button.

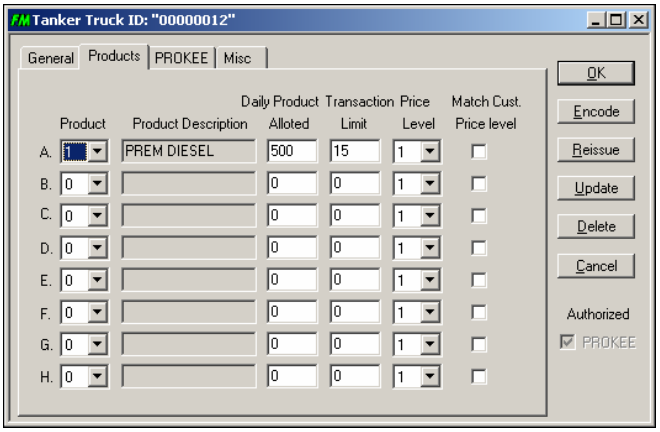

Fig 7.6

Click on the Products tab for the Products tab page: it contains information boxes, edit boxes and check boxes for eight product selections (A through H).

PRODUCT

- Select Product numbers via the Product combo boxes.
- The 4-digit numeric Product fields are entered via the Tables pull-down menu, Products, Products List dialog box, Product ID edit box.
- A product number must be selected from the existing Product Numbers

PRODUCT DESCRIPTION

- The 20-digit alphanumeric Product Description fields are entered via the Tables pull-down menu, Products, Products List dialog box, Product ID dialog box.
- The Product Description field is automatically entered by FUELMASTER® in the information box when the Product number is selected.

DAILY PRODUCT ALLOTMENT

- The 3-digit numeric Daily Product Allotment is the maximum amount of product this Tanker Truck can receive in a 24-hour period.
- If the daily transactions exceed the Daily Product Allotment, an exception message is generated when the transactions are downloaded from the FMU.
- The Daily Product Allotment cannot exceed 500 or the Maximum Product Allotment.
- The Maximum Product Allotment is a global setting from the Product database.
- The 3-digit numeric Maximum Product Allotment numbers are entered in the Tables pull-down menu, Products, Products List dialog box, Product ID dialog box. The most common Daily Product Allotment has been found to be approximately twice the Tanker Truck's tank size.

TRANSACTION LIMIT

- The 3-digit numeric Transaction Limit is used to terminate the transaction when the assigned limit is reached.
- The amount specified cannot exceed 255 or the Maximum Product Allotment.
- A good rule of thumb to follow is to use the size of the Tanker Truck's fuel tank.
- Even though this setting shuts off the dispensing hose, the user is still able to start a new transaction.
- If this field is left at zero (0), the key is considered to be an unlimited key with no quantity limits.
- For unlimited keys, an exception message is still generated if the daily transactions exceed the Daily Product Allotment specified.

PRICING LEVEL

- Select Pricing Levels via the Pricing Level combo boxes.
- The single-digit (1 through 8) numeric Pricing Levels are entered via the Tables pull-down menu, Products, Products List, and Product ID dialog boxes.
- Pricing Levels must be selected from the existing Pricing Levels. The initial default Pricing Level is 1.

MATCH TO DEFAULT PRICE LEVEL

- Selection of a Match to Default Price Level check box will cause the corresponding Pricing Level combo box to present the default pricing level of the selected customer.
- The Customer ID is selected via the Table pull-down menu, Tanker Truck, Tanker Truck List dialog box, Tanker Truck List dialog box, Customer ID edit box.

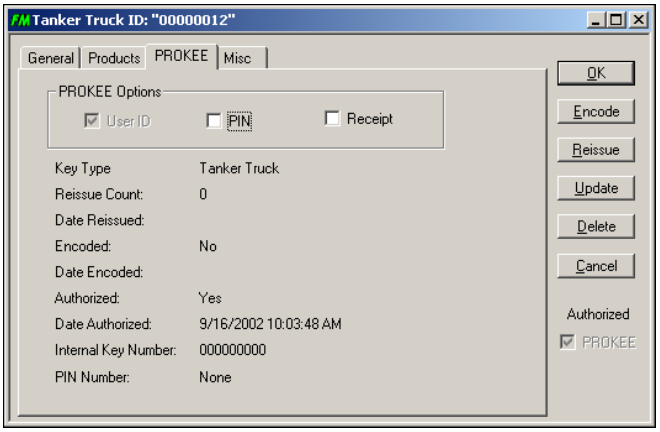

Fig 7.7

Click the PROKEE® tab for the PROKEE® tab page: it contains seven information fields and three check boxes.

Check Boxes:

- The check boxes are for the selection of options carried on the PROKEE®. These fields set forth the keypad entries required for each key type.

USER ID

- *Note:* If your FUELMASTER® is a VMN system, the USER ID defaults to Yes and may not be changed. All Tanker Truck keys require an authorized USER ID entry in a VMN system.
- You may select if the user is required to enter a User ID on the FMU keypad prior to fueling;

PIN

- *Note*: The PIN is a number assigned to the PROKEE® by the FUELMASTER® program at the time the Tanker Truck record is created. The PIN cannot be altered by the user but will change each time the key is re-issued.
- While the user may set the key's PIN option, Syn-Tech Systems' Product Support personnel must activate the FMU's PIN option.
- Both the key option and the FMU system option must be set in order for the FMU to require PIN entry at the Fuel Island.
- You may select if the user is required to enter a PIN on the FMU keypad prior to fueling;

RECEIPT

- If your FMU has a receipt printer option installed and active, you may elect to have the FMU provide a receipt with each transaction. If you select the receipt printer option, the FMU prompts the user with: DO YOU WANT A RECEIPT? The user may select YES or NO on the keypad.
- While the user may set the key's receipt option, Syn-Tech Systems' Product Support personnel must activate the FMU's receipt option.]
- The FMU requires that this option be set in order to question whether a receipt is desired.

KEY TYPE

- Five key types are available: Vehicle, User, Supervisor, Tanker Truck, and Manual Issue. The type here will be Tanker Truck.

RE-ISSUE COUNT

- The re-issue count is a number representing the number of times a PROKEE® has been re-issued. This number is used by FUELMASTER® as a way to lockout non-current versions of a PROKEE®, and is non-resettable.

ENCODED <Yes/No>

- The ENCODED information field will display the encoded/not-encoded status of the PROKEE®.

DATE ENCODED

- The DATE ENCODED information field will display the date the PROKEE® was encoded.

AUTHORIZED <Yes/No>

- The AUTHORIZED information field will display the authorized/deauthorized status of the PROKEE®.

DATE AUTHORIZED/DEAUTHORIZED

- The DATE AUTHORIZED/DEAUTHORIZED information field will display the date the PROKEE® was authorized or deauthorized.

INTERNAL KEY NUMBER

- The INTERNAL KEY NUMBER information field will display the PROKEE®'s internal key number.
- This number is set by the FUELMASTER® software, and is non-resettable and non-changeable.

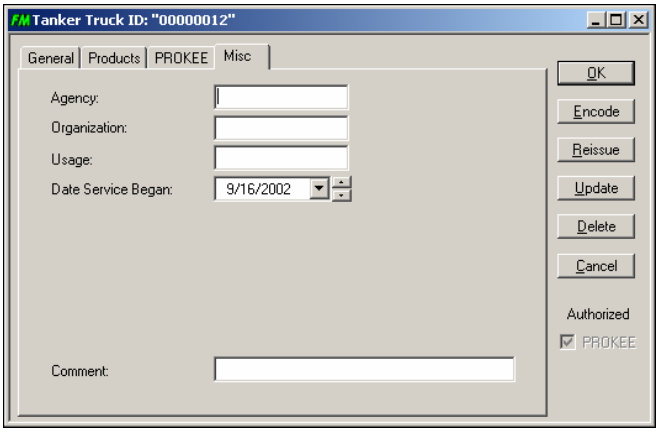

Fig 7.8

Click the Misc. tab for the Misc. tab page: **(Fig 7.8)** it contains five edit boxes.

AGENCY

- The 5-digit alphanumeric AGENCY field should be filled with the Tanker Truck's agency.
- The term agency may mean department or something else in your organization.
- It is a way to group Tanker Truck records for report generation.

ORGANIZATION

- The 3-digit alphanumeric ORGANIZATION field should be filled with the Tanker Truck's organization.
- It gives the opportunity to make sub-groupings of a Tanker Truck's agency.

USAGE

- The 10-digit alphanumeric USAGE field should be filled with the usage of the described Tanker Truck.

DATE SERVICE BEGINS

- The DATE SERVICE BEGINS field has a default entry of the current date from the computer's clock.
- Enter the date the Tanker Truck began service or accept the default by pressing.

COMMENT

- The 40-digit alphanumeric COMMENT field may be used for any type of information you may want to include.
- EXAMPLE: AUXILIARY GENERATOR ID TAG #4118.

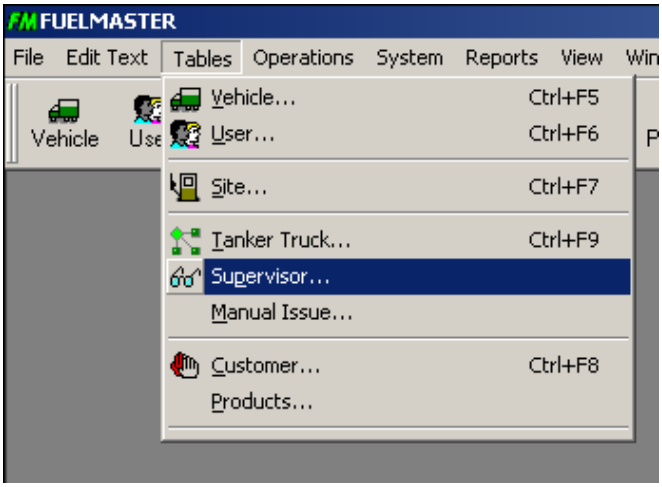

Fig 8.1

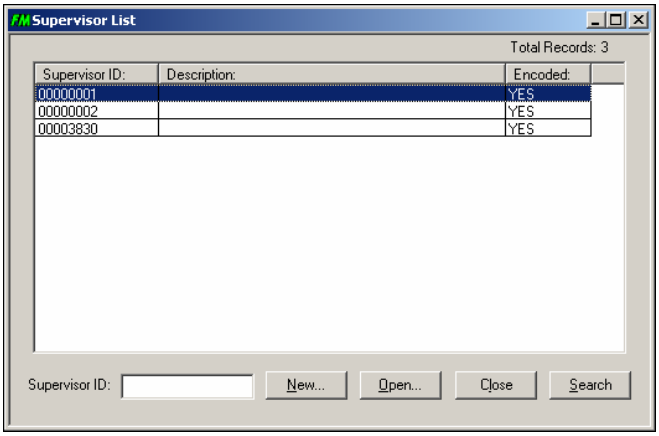

Fig 8.2

Chapter 8: Supervisor Database

The SUPERVISOR DATABASE contains records that store information about each Supervisor that uses the FUELMASTER® system. It is used as the controlling source for the encoding and re-issuing of Supervisor PROKEES® and as a reference for generating reports.

- Click the Tables pull-down menu:
- Click the Supervisor selection in the Tables pull-down menu:

The Supervisor List dialog box contains four function buttons, a list box, and an edit box.

NEW

- The NEW function button allows a new Supervisor record to the opened. A new Supervisor ID must be entered in the Supervisor ID edit box prior to selection of New;

OPEN

- The OPEN function button opens an existing Supervisor record. The Supervisor record to be opened must highlighted with a left click prior to the selection of Open;

CLOSE

- The CLOSE function button will close the Supervisor List dialog box; and,

SEARCH

- The SEARCH function button will search the existing Supervisor database for the Supervisor ID entered in the Supervisor ID edit box.

SUPERVISOR ID

- The Supervisor ID is 7-digit alphanumeric field.

List Box:

- This provides a list of existing supervisors by supervisor ID, description and encoded. Highlighting a record and selecting the Open button will open that supervisor record. The listed supervisor data may be re-ordered by clicking on the list's field headers.

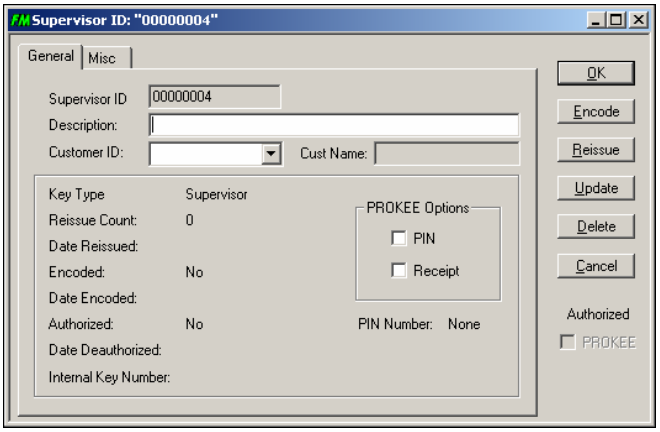

Fig 8.3

Click the New or Open button for the Supervisor ID tabbed dialog box: it contains: six function buttons; three check boxes; two edit boxes; and, six information Boxes.

OK

- The OK selection will save the Supervisor information on the Supervisor ID dialog box, and FUELMASTER® will revert back to the Supervisor List dialog box.

ENCODE

- The ENCODE selection will initiate the encoding of a PROKEE® with information representative of the data presented on the Supervisor ID dialog box.

REISSUE

- The REISSUE selection will increment the re-issue count, and change the encoded information to No.
- The Encode selection may then be used to encode a PROKEE®.

UPDATE

- The UPDATE selection will initiate the re-encoding (information update) of a PROKEE® with information representative of the data presented on the Supervisor ID dialog box.

DELETE

- The DELETE selection will delete all information presented on the Supervisor ID dialog box, and FUELMASTER® will revert back to the Supervisor List dialog box.

CLOSE

- The CLOSE selection will cause FUELMASTER® to revert back to the Supervisor List dialog box without saving information found on the Supervisor ID dialog box.

AUTHORIZED

- *Note:* When NEW is selected the AUTHORIZED check box is disabled until the OK button is selected.
- Selection of the AUTHORIZED check box will authorize the Supervisor PROKEE®.
- NOT selecting the AUTHORIZE check box will cause the PROKEE®'s internal number to be placed on the PROKEE® lockout list.

PIN

- *Note:* The PIN is a number assigned to the PROKEE® by the FUELMASTER® program at the time the Supervisor record is created.
- The PIN cannot be altered by the Supervisor but will change each time the key is re-issued.
- While the Supervisor may set the key's PIN option, Syn-Tech Systems' Product Support personnel must activate the FMU's PIN option.
- Both the key option and the FMU system option must be set in order for the FMU to require PIN entry at the Fuel Island.
- You may select if the Supervisor is required to enter a PIN on the FMU keypad prior to fueling;

RECEIPT

- If your FMU has a receipt printer option installed and active, you may elect to have the FMU provide a receipt with each transaction.
- If you select the receipt printer option, the FMU prompts the Supervisor with: DO YOU WANT A RECEIPT? The Supervisor may select YES or NO on the keypad.
- While the Supervisor may set the key's receipt option, Syn-Tech Systems' Product Support personnel must activate the FMU's receipt option.
- The FMU requires that this option be set in order to question whether a receipt is desired.

DESCRIPTION

- The 40-digit alphanumeric Description field is available for user designated information.

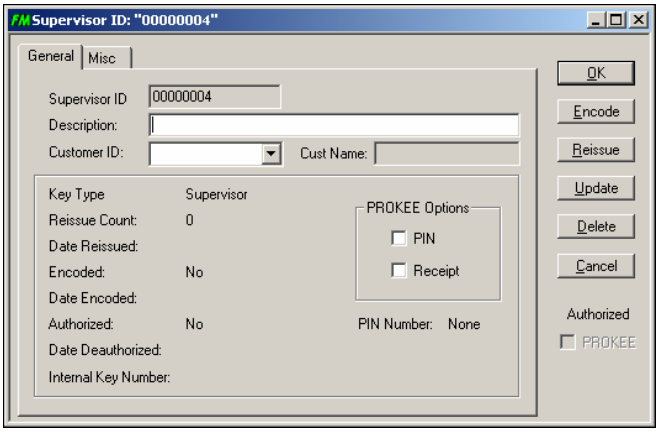

Fig 8.4

CUSTOMER ID

- Select the 9-digit alphanumeric Customer ID field from among those entered via Tables pull-down menu, Customer, Customer List dialog box, and Customer ID dialog box.
- The customer's name will be displayed under the ID entry. If, under the Systems pull-down menu, Configuration, Configuration dialog box, Require Customer ID has NOT been selected, them any 9-digit alphanumeric Customer ID may be entered.

The information fields contain information relating to the PROKEE®'s encoded status.

KEY TYPE

- Five key types are available: Vehicle, User, Supervisor, Tanker Truck, and Manual Issue. The type here will be Supervisor.

RE-ISSUE COUNT

- The re-issue count is a number representing the number of times a PROKEE® has been re-issued.
- This number is used by FUELMASTER® as a way to lockout non-current versions of a PROKEE®, and is non-resettable.

ENCODED <Yes/No>

- The information ENCODED field will display the encoded/not-encoded status of the PROKEE®.

DATE ENCODED

- The DATE ENCODED information field will display the date the PROKEE® was encoded.

AUTHORIZED <Yes/No>

- The information field will display the authorized/deauthorized status of the PROKEE®.

DATE AUTHORIZED/DEAUTHORIZED

- The information field will display the date the PROKEE® was authorized or deauthorized.

INTERNAL KEY NUMBER

- The information field will display the PROKEE®'s internal key number.
- This number is set by the FUELMASTER® software, and is non-resettable and non-changeable.

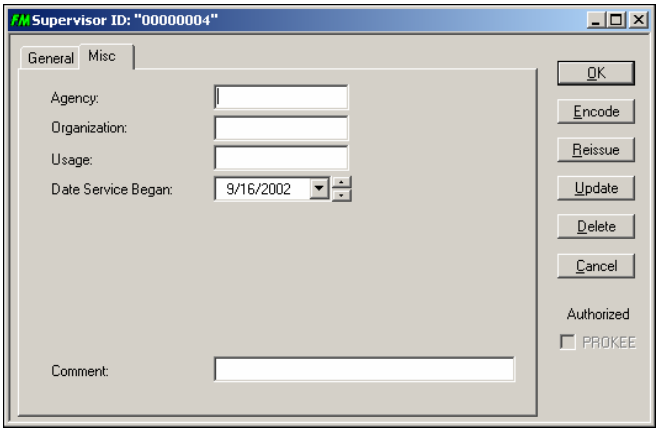

Fig 8.5

Click on the Misc. tab for the Misc. tab page: **(Fig 8.5)** it contains five edit boxes.

AGENCY

- The 5-digit alphanumeric AGENCY field should be filled with the Tanker Truck's agency.
- The term agency may mean department or something else in your organization.
- It is a way to group Tanker Truck records for report generation.

ORGANIZATION

- The 3-digit alphanumeric ORGANIZATION field should be filled with the Tanker Truck's organization.
- It gives the opportunity to make sub-groupings of a Tanker Truck's agency.

USAGE

- The 10-digit alphanumeric USAGE field should be filled with the usage of the described Tanker Truck.

DATE SERVICE BEGINS

- The DATE SERVICE BEGINS field has a default entry of the current date from the computer's clock.
- Enter the date the Tanker Truck began service or accept the default by pressing.

COMMENT

- The 40-digit alphanumeric COMMENT field may be used for any type of information you may want to include.
- EXAMPLE: AUXILIARY GENERATOR ID TAG #4118.

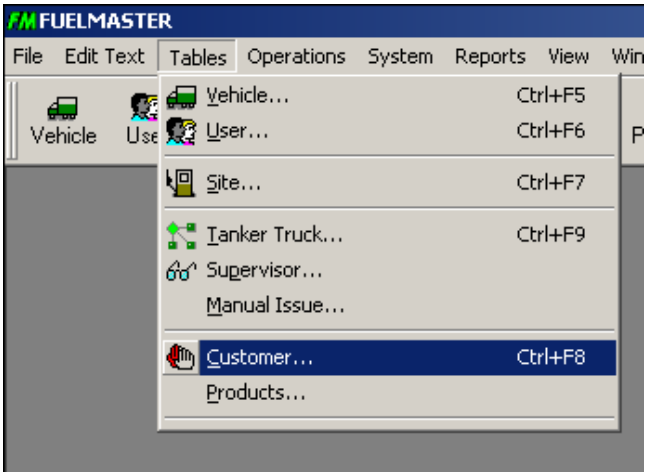

Fig 9.1

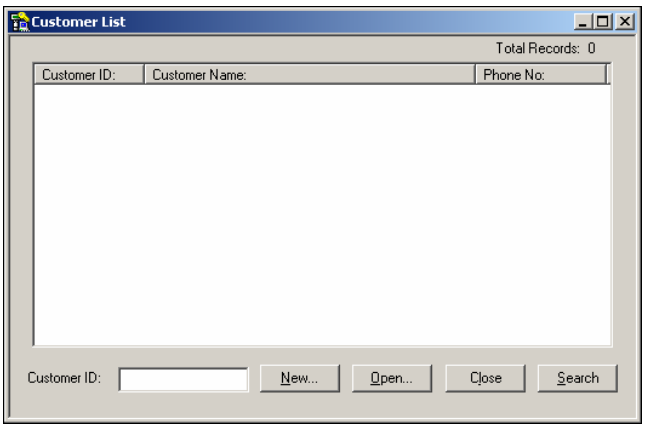

Fig 9.2

Chapter 9: Customer Database

- Click the Tables pull-down menu:**(Fig 9.1)**
- Click the Customer selection in the Tables pull-down menu:

- The Customer List dialog box contains four function buttons, a list box, and an edit box. **(Fig 9.2)**

Function Buttons:

NEW
- The NEW function button allows a new Customer record to the opened. A new Customer ID must be entered in the Customer ID edit box prior to selection of New;

OPEN
- The OPEN function button opens an existing Customer record. The Customer record to be opened must highlighted with a left click prior to the selection of Open;

CLOSE
- The CLOSE function button will close the Customer List dialog box; and,

SEARCH
- The SEARCH function button will search the existing Customer database for the Customer ID entered in the Customer ID edit box.

CUSTOMER ID
- The Customer ID is 8-digit alphanumeric field.

List Box:
- The List Box provides a list of existing customers by customer ID, customer name and phone number.
- Highlighting a record (clicking on the desired customer), and selecting Open will open that customer record.
- The listed customer data, customer ID, customer name and phone number, may be ordered alphanumerically by clicking on the list's field headers, customer ID, customer name and phone number.

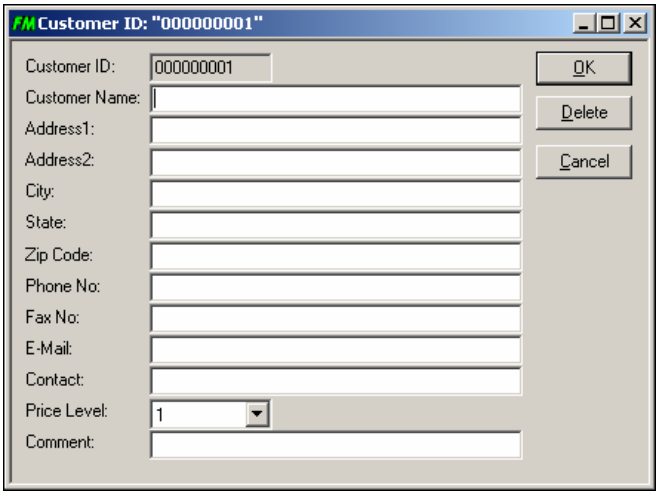

Fig 9.3

Function Buttons:

SAVE
- The SAVE selection will save the Customer information on the Customer ID dialog box, and FUELMASTER® will revert back to the Customer List dialog box.

DELETE
- The DELETE selection will delete all information presented on the Customer ID dialog box, and FUELMASTER® will revert back to the Customer List dialog box.

CANCEL
- The CANCEL selection will cause FUELMASTER® to revert back to the Customer List dialog box without saving information found on the Customer ID dialog box.

Information Box:

CUSTOMER ID
- The 8-digit numeric Customer ID field is entered via the Customer List, Customer ID edit box.

Edit Box:

CUSTOMER NAME
- The 40-digit alphanumeric Customer Name field was entered via the Tables pull-down menu, Customer, Customer List dialog box, Customer ID dialog box.

ADDRESS 1
- The 40-digit alphanumeric ADDRESS 1 field should be used for the primary address of the site.

ADDRESS 2
- The 40-digit alphanumeric ADDRESS 2 field should be used for the secondary address of the site.

CITY
- The 40-digit alphanumeric CITY field should be used for the city within which the site is located.

STATE
- The 2-digit alphanumeric STATE field should be used for the 2-digit abbreviation of the state with in which the site is located.

ZIP CODE
- The 10-digit alphanumeric ZIP CODE field should be used for ZIP Code of the site.

PHONE NUMBER
- The 20-digit alphanumeric Phone Number field contains the Customer's phone number.

FAX NUMBER
- The 20-digit alphanumeric FAX Number field contains the Customer's FAX number.

E-MAIL
- The 50-digit alphanumeric e-mail field contains the Customer's E-mail address.

CONTACT
- The 30-digit alphanumeric CONTACT field should be used for the name of an individual representing the site.

PRICE LEVEL
- The Price Level combo box allows the selection of the fuel pricing level granted this customer. The various pricing level are entered via Table pull-down menu, Products, Products List dialog box, Product ID dialog box, Adjustment edit box.

COMMENT
- The 50-digit alphanumeric Comment field contains comments.

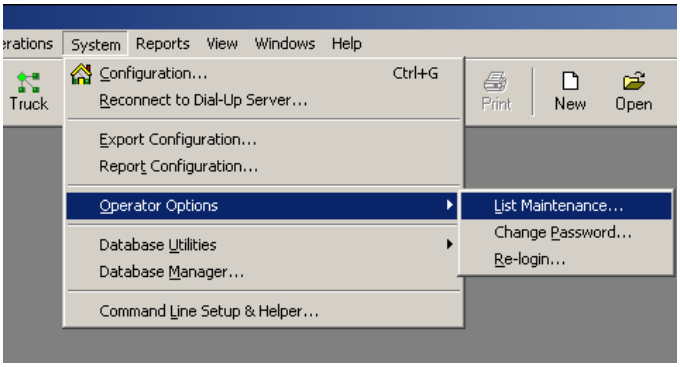

Fig 10.1

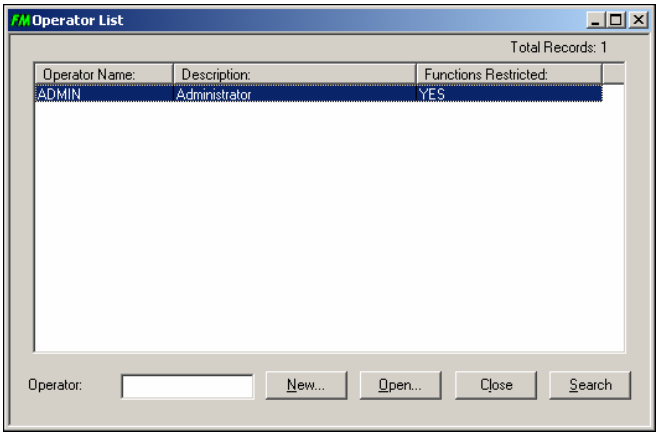

Fig 10.2

Chapter 10: Operator Database

The OPERATOR DATABASE contains records that store information about operators with clearance to use the FUELMASTER® software program.

- Click the System pull-down menu and highlight Operator Options **(Fig 10.1)**
- Click the List Maintenance selection on the fly-out menu:

The Operator List dialog box **(Fig 10.2)** contains four function buttons, a list box, and an edit box.

NEW
- The NEW function button allows a new Operator record to the opened.
- A new Operator ID must be entered in the Operator ID edit box prior to selection of New;

OPEN
- The OPEN function button opens an existing Operator record.
- The Operator record to be opened must highlighted with a left click prior to the selection of Open;

CLOSE
- The CLOSE function button will close the Operator List dialog box; and,

SEARCH
- The SEARCH function button will search the existing Operator database for the Operator ID entered in the Operator ID edit box.

OPERATOR ID
The Operator ID is 8-digit numeric field.

List Box
- The List Box provides a list of existing operators by operator ID, and description. Highlighting a record and selecting Open will open that operator record.
- The list may be re-ordered by clicking on the list's field headers.

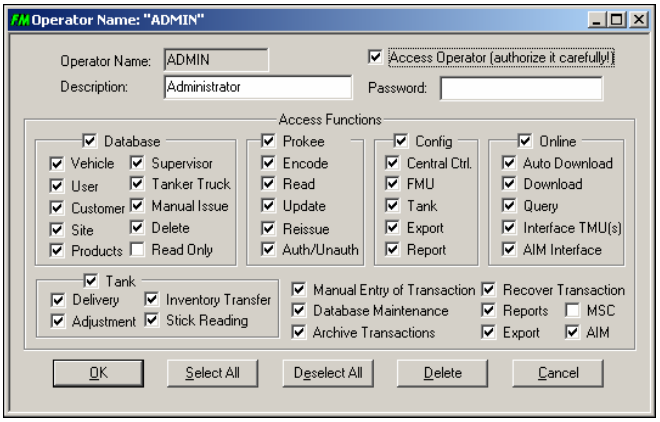

Fig 10.3

Click the New or Open button for the Operator ID dialog box: **(Fig 10.3)** it contains three function buttons, one information box, two edit boxes, and thirty check boxes.

OK

- The OK selection will save the Operator information on the Operator ID dialog box, and FUELMASTER® will revert back to the Operator List dialog box.

DELETE

- The DELETE selection will delete all information presented on the Operator ID dialog box, and FUELMASTER® will revert back to the Operator List dialog box.

CANCEL

- The CANCEL selection will cause FUELMASTER® to revert back to the Operator List dialog box without saving information found on the Operator ID dialog box.

OPERATOR ID

- The 8-digit numeric OPERATOR ID field was entered via the Operator List dialog box, Operator ID edit box.

OPERATOR NAME

- The 40-digit alphanumeric System Owner's Name field should be used for the systems owner's name.

PASSWORD

- The operator's logon password shall be entered into the 20-digit alphanumeric PASSWORD field. Once saved, should this operator's Operator ID dialog box be revisited, the Password edit box will appear blank.

Check Boxes

- The thirty check boxes control the operator's access to the FUELMASTER® program's features and functions.
- Example: If the VEHICLE DATABASE check box is NOT checked, the operator will be denied access to the vehicle database.

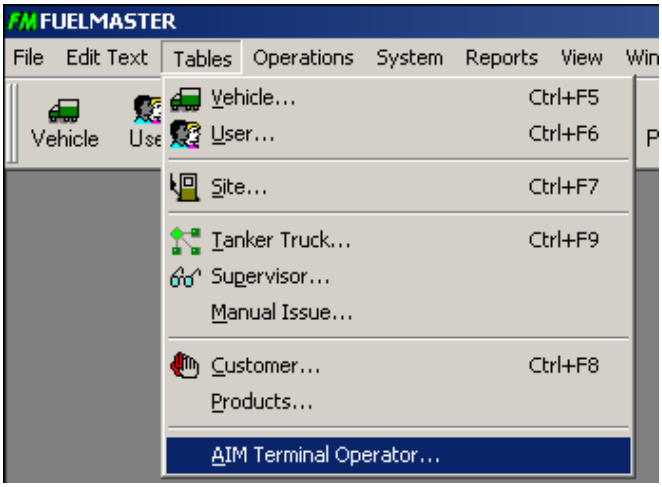

Fig 11.1

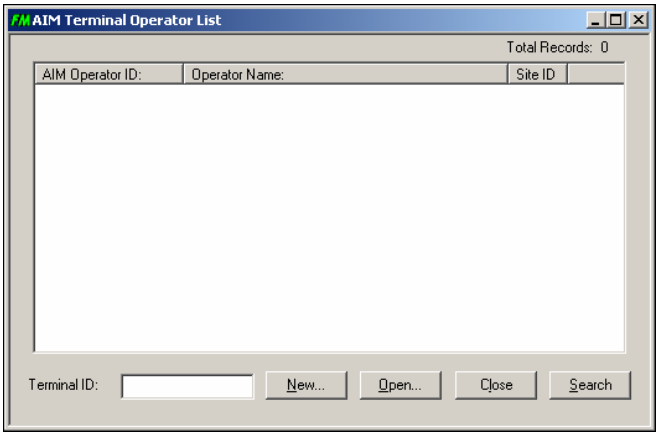

Fig 11.2

Chapter 11: AIM Terminal Operator

- Click the Tables pull-down menu**(Fig 11.1)**
- Click the AIM Terminal Operator selection in the Tables pull-down menu:
- This will display the AIM Terminal Operator box **(Fig 11.2)**

Function Buttons:

NEW
- The NEW function button allows a new three digit numeric AIM Terminal ID record to be opened. A new AIM Terminal ID must be entered in the AIM Terminal ID edit box prior to selection of New;

OPEN
- The OPEN function button opens an existing AIM Terminal ID record. The AIM Terminal ID record to be opened must highlighted with a left click prior to the selection of Open;

CLOSE
- The CLOSE function button will close the AIM Terminal ID List dialog box; and,

SEARCH
- The SEARCH function button will search the existing AIM Terminal ID database for the AIM Terminal ID entered in the edit box.

Edit Box:
- The AIM TERMINAL ID is a 3-digit numeric field.

List Box:
- The List Box provides a list of existing products by AIM Operator ID, Operator Name and Site ID.
- Highlighting a record (clicking on the desired product), and selecting the function button Open will open that record.
- The listed records by AIM Operator ID, Operator Name and Site ID may be ordered alphanumerically by clicking on the list's field headers.

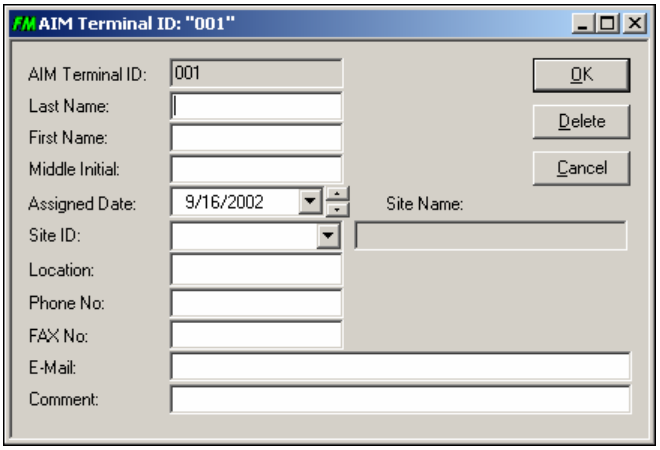

Fig 11.3

The Terminal ID dialog box **(Fig 11.3)** contains: three function buttons, two information boxes, and ten edit boxes.

OK
- The OK selection will save the Terminal ID information, and FUELMASTER® will revert back to the Terminal ID List dialog box.

DELETE
- The DELETE selection will delete all information presented on the Terminal ID dialog box, and FUELMASTER® will revert back to the Terminal ID List dialog box.

CANCEL
- The CANCEL selection will cause FUELMASTER® to revert back to the Terminal ID List dialog box without saving information found on the Terminal ID dialog box.

Information Boxes:

TERMINAL ID
- The 3-digit numeric TERMINAL ID field is entered via the Terminal ID List, Terminal ID edit box. It contains the numeric ID used to identify each Workabout™ in the system.

SITE NAME
- The 40-digit alphanumeric SITE NAME was entered on the SITE ID dialog Box, General page. It will be displayed here by FUELMASTER® when the Site ID is selected via the Site ID combo box.

Edit Boxes:

LAST NAME
- The 20-digit alphanumeric Last Name field contains the last name of the individual who has this Workabout™.

FIRST NAME
- The 20-digit alphanumeric First Name field contains the first name of the individual who has this Workabout™.

MIDDLE INITIAL
- The 20-digit alphanumeric Middle Initial field contains the middle initial of the individual who has this Workabout™.

ASSIGNED DATE
- The ASSIGNED DATE field contains the date this Workabout™ was assigned a Terminal ID.

SITE ID
- The 4-digit numeric SITE ID field was entered via the Site List dialog box, Site ID edit box.

LOCATION
- The 20-digit alphanumeric Location field can be used for a descriptive location of the Workabout™.

PHONE NO.
- The 20-digit alphanumeric Phone Number field contains the phone number associated with the individual assigned the AIM.

FAX NO.
- The 20-digit alphanumeric FAX Number field contains the FAX number associated with the individual assigned the AIM.

E-MAIL.
- The 20-digit alphanumeric Phone Number field contains the phone number associated with the individual assigned the AIM.

COMMENT
- The 50-digit alphanumeric Comment field contains user defined comments.

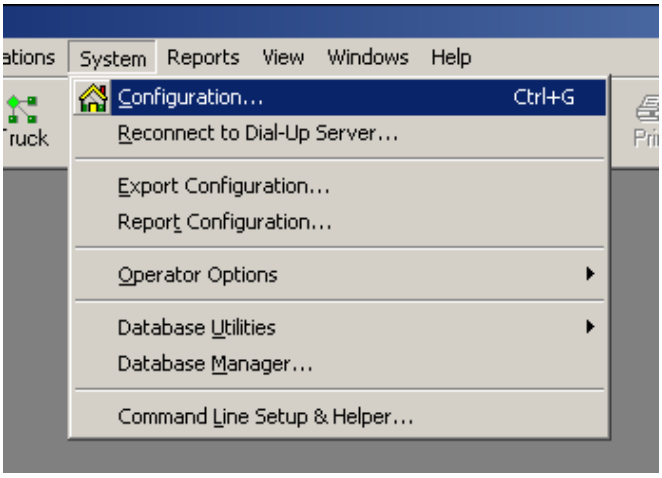

Fig 12.1

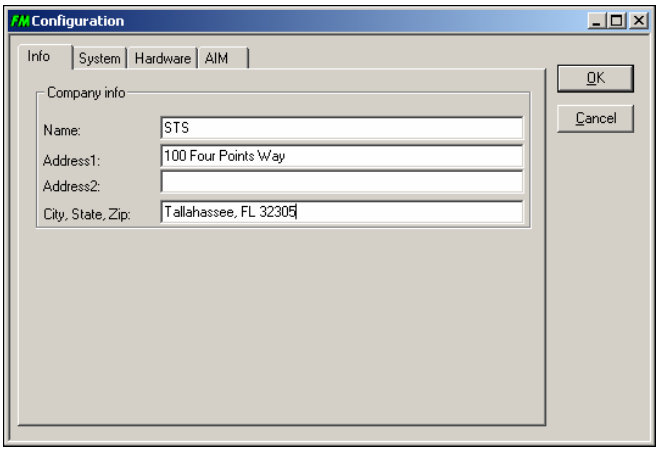

Fig 12.2

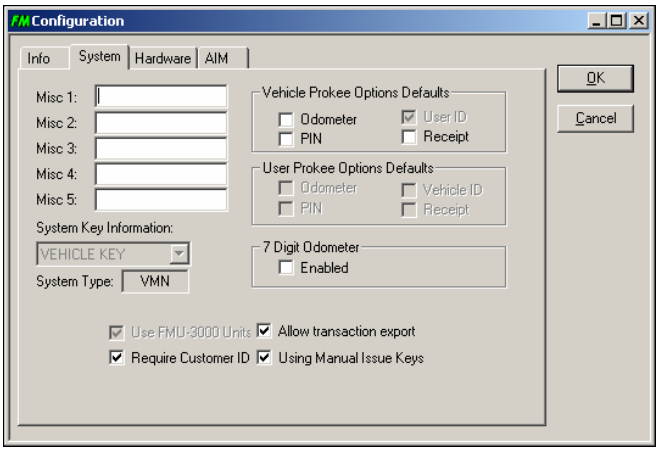

Fig 12.3

Chapter 12: Configuration

The CONFIGURATION MENU contains records that store information about the way the FUELMASTER® system is configured for a specific application and configuration.

- Click the System pull-down menu: **(Fig 12.1)**
- Click the Configuration selection in the System pull-down menu for the Configuration Tabbed dialog box:

The Configuration tabbed dialog box **(Fig 12.2)** contains two function buttons, and two tabs.

OK

- The OK selection will save the System Configuration information and FUELMASTER® will close the Configuration dialog box.

CANCEL

- The CANCEL function button will close the Configuration dialog box.

<u>System Tab</u>

MISC 1 THROUGH 5

- These fields designate how the MISC. fields will be utilized. These fields are customizable by the operator to offer additional record keeping details to the FUELMASTER® system. These fields can be used in the reports offered by the FUELMASTER® program to provide an additional level of grouping.
- Each record provides a 15-character data field for use. Some examples are: Tax Exempt Status, On/Off Road Vehicle, Job Site, Primary Driver, etc. These fields may be left blank if you do not wish to use them.

SYSTEM KEY INFORMATION

The SYSTEM KEY INFORMATION Edit Box contains the type of key selected for use by FUELMASTER®. This information was entered during the initial start up of FUELMASTER® and is no longer changeable.

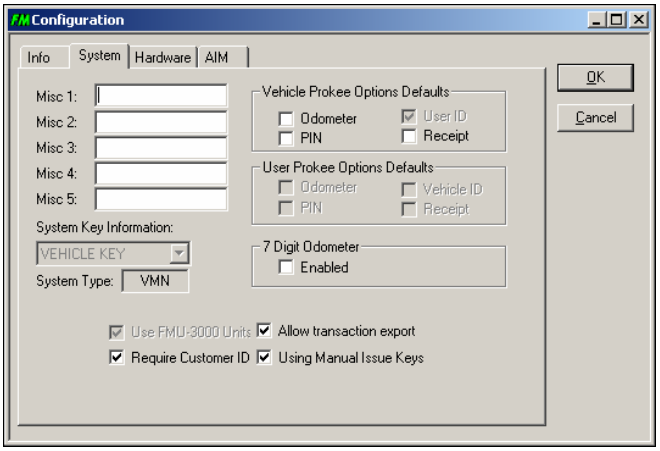

Fig 12.4

SYSTEM TYPE

- The SYSTEM TYPE Edit Box **(Fig 12.3)** contains the system type, VMN, COM, or VVI being used by FUELMASTER®. This information was entered during the initial start up of FUELMASTER® and is no longer changeable.

NAME

- The 40-digit alphanumeric System Owner's Name field should be used for the systems owner's name.

ADDRESS 1

- The 40-digit alphanumeric ADDRESS 1 field should be used for the primary address of the system owner.

ADDRESS 2

- The 40-digit alphanumeric ADDRESS 2 field should be used for the secondary address of the system owner.

CITY, STATE, ZIP

- The 40-digit alphanumeric CITY, STATE, ZIP field should be used for the city, state, and zip code within which the system owner is located.

VEHICLE PROKEE® OPTION DEFAULTS
ODOMETER

- Selection of the ODOMETER option will require the user to enter an odometer reading on the FMU keypad prior to fueling;

PIN

- Note: The PIN is a number assigned to the PROKEE® by the FUELMASTER® program at the time the User record is created. The PIN cannot be altered by the user but will change each time the key is re-issued. While the user may set the key's PIN option, Syn-Tech Systems' Product Support personnel must activate the FMU's PIN option. Both the key option and the FMU system option must be set in order for the FMU to require PIN entry at the Fuel Island.
- Selection of the PIN option will require the user to enter a PIN on the FMU keypad prior to fueling;

USER ID

- Selection of the USER ID option will require the user to enter a User ID number on the FMU keypad prior to fueling;

RECEIPT

- If your FMU has a receipt printer option installed and active, selection of the RECEIPT option will allow the FMU to provide a receipt with each transaction. If the receipt printer option is selected, the FMU prompts the user with: DO YOU WANT A RECEIPT? The user may select YES or NO on the keypad. While the user may set the PROKEE®'s receipt option, Syn-Tech Systems' Product Support personnel must activate the FMU's receipt option. The FMU requires that this option be set in order to question whether a receipt is desired.

ODOMETER

- Selection of the ODOMETER option will require the user to enter an odometer reading on the FMU keypad prior to fueling;

PIN

- Note: The PIN is a number assigned to the PROKEE® by the FUELMASTER® program at the time the User record is created. The PIN cannot be altered by the user but will change each time the key is re-issued. While the user may set the key's PIN option, Syn-Tech Systems' Product Support personnel must activate the FMU's PIN option. Both the key option and the FMU system option must be set in order for the FMU to require PIN entry at the Fuel Island.
- Selection of the PIN option will require the user to enter a PIN on the FMU keypad prior to fueling;

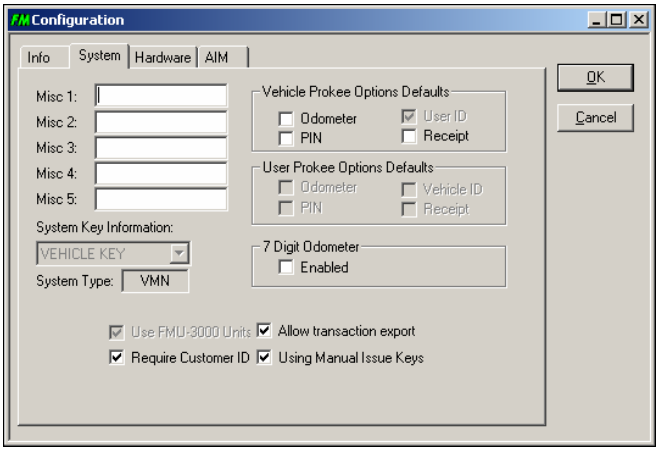

Fig 12.5

USER ID

- Selection of the USER ID option will require the user to enter a User ID number on the FMU keypad prior to fueling;

RECEIPT

- If your FMU has a receipt printer option installed and active, selection of the RECEIPT option will allow the FMU to provide a receipt with each transaction.
- If the receipt printer option is selected, the FMU prompts the user with: DO YOU WANT A RECEIPT? The user may select YES or NO on the keypad.
- While the user may set the PROKEE®'s receipt option, Syn-Tech Systems' Product Support personnel must activate the FMU's receipt option.
- The FMU requires that this option be set in order to question whether a receipt is desired.

REQUIRE CUSTOMER ID

- This check box is used to designate whether user and vehicle records should be associated with a customer.
- Check if user and vehicle records MUST contain a valid customer ID.
- You may still associate users and vehicles to customer records, but the entry is not required to complete the record.

ALLOW TRANSACTION EXPORT

- If you intend to import FUELMASTER® transactions into another program (i.e. fleet maintenance software), check this check box.
- The Central Controller program uses this information to determine whether to store downloaded transactions in a separate file for exporting purposes.
- The transaction data is written to an ASCII formatted file.

USING MANUAL ISSUE

- This selection indicates if your system uses manual issue keys.
- Visiting vehicles, rentals, shop equipment, or anything else that does not have a key encoded for it often uses these keys.
- A check places restrictions on the types of characters you can use when entering your vehicle IDs.
- If checked only numeric characters can be used when building the vehicle database.
- *Note*: When a manual issue key is used to start a fuel transaction, the user is asked to enter an equipment number (vehicle ID) to indicate what is receiving the fuel.
- Since the FMU keypad does not support alphabetic characters, any vehicle or equipment that uses a manual issue key must be defined in the database with a numeric only vehicle ID.
- If you do not define a record in the database for the vehicle, you cannot run reports on its fuel usage.
- You can set up a single ID to be used with manual issue keys, but this results in all of the fuel transactions initiated by the manual issue key being lumped together.

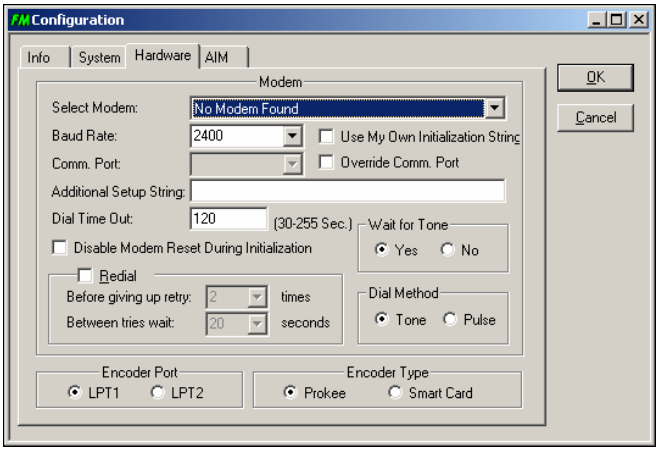

Fig 12.6

Click on the Hardware tab for the Hardware tab page: **(Fig 12.5)** it contains; four edit boxes, one check box, and thirteen radio buttons.

DIAL TIME OUT

- For modem systems, specify the amount of time the modem should wait for a connection after dialing the FMU.
- The Central Controller program supports from 1 to 255 seconds, with 30 being the most common setting.

ADDITIONAL SETUP STRING

- If additional information is required to configure a particular modem for communications with an FMU, it is entered in the ADDITIONAL SETUP STRING Edit Box.

REDIAL

- Check the REDIAL check box is the FUELMASTER® program is to redial, if on the initial trial the line was busy or the FMU failed to answer.

BEFORE GIVING UP (times)

- When the Central Controller program fails for some reason to make a connection with an FMU, the program will redial.
- This field specifies how many times the program will retry.

BETWEEN TRIES WAIT (seconds)

- When the Central Controller program fails for some reason to make a connection with an FMU, there is a short delay before re-dialing the FMU.
- This field specifies the amount of time in seconds the program should delay between re-dialing your FMU(s).

COMM PORT – COM 1 THROUGH 4

- For modem systems, enter the serial port (COM port) your modem is using.
- The Central Controller program supports COM1, COM2, COM3 or COM4.

DIAL METHOD – TONE/PULSE

- For systems using a modem, if a touch-tone phone system is to be used, click TONE.
- If a pulse phone system is to be used, click PULSE

BAUD RATE – 300/1200/2400

- For modem systems, specify the baud rate (speed the modem uses to communicate with the FUELMASTER® FMUs).
- *NOTE*: If you are using a tank monitor interface, the TMU and the FUELMASTER® system must be configured for the same baud rate.

WAIT TONE - <YES/NO>

- YES will cause FUELMASTER® to wait until it detects a dial tone before it dials.
- With the selection of NO, the FUELMASTER® will not look for a dial tone prior to dialing.
- The NO selection is the required if the PC and the FMU are connected via a ring-down box.

Prokee Encoder Port – LPT1/LPT2

- For modem systems, specify the parallel port to which your PROKEE® encoder is connected.
- For modem systems, only LPT1 & LPT2 are supported.
- *Note:* If your PC has only one installed parallel port and you are using it for a parallel printer, you may choose one of the following options:
    - install a second parallel port so one will exist for the printer and one for the PROKEE® encoder;
    - swap the cables back and forth depending on which you need at the time; or,
    - purchase an A/B switch box so you can connect to your selected hardware, depending on the operation being performed.

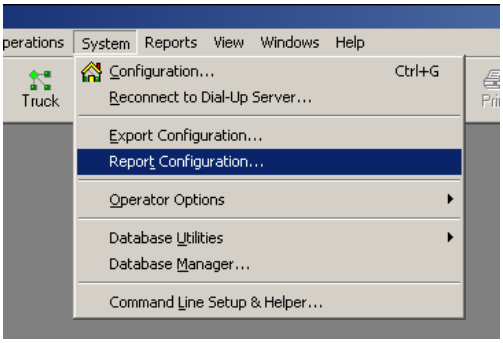

Fig 13.1

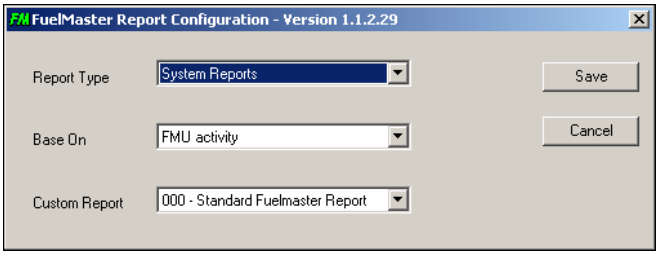

Fig 13.2

- Click the System pull-down menu:
- Click the Report Configuration selection in the System pull-down menu for the Report Configuration dialog box:
    - it contains two function buttons, and three combo boxes.

- Once the individual type of report is selected, selected Save.
- When a report is selected in the Reports pull-down menu and that report has been designated a custom report, it will be compiled as a custom report. The type of custom report is selected in the Custom Report combo box.

Save
- The Save selection will save the selected Report Configuration and FUELMASTER® will close the Report Configuration dialog box.

CANCEL
- The CANCEL function button will close the Report Configuration dialog box.

Report Type
- Listed under Report Type and Based On combo boxes are all the types of reports listed under the Reports pull-down menu.

Chapter 13: Report Configuration

The REPORT CONFIGURATION MENU allows the selection of custom reports. Via the Report Type and Based On Combo Boxes, Individual custom reports may be selected.

System Reports – Based On
- Site ID

Transaction Reports – Based On
- Most Recent Transactions
- Vehicle Information
- User Information
- Site Information
- Customer Information
- Transaction Code

Invoices – Based On
- Vehicle Information
- User Information
- Site Information
- Customer Information

Site Reports – Based On
- Site Information
- Inventory
- Delivery

Vehicle Reports – Based On
- Vehicle Information
- Efficiency
- Authorized
- Unauthorized

User Reports – Based On
- User Information
- Authorized
- Unauthorized

Customer Reports – Based On
- Customer Information

Utility Reports – Based On
- Utility Key Information
- Authorized
- Unauthorized

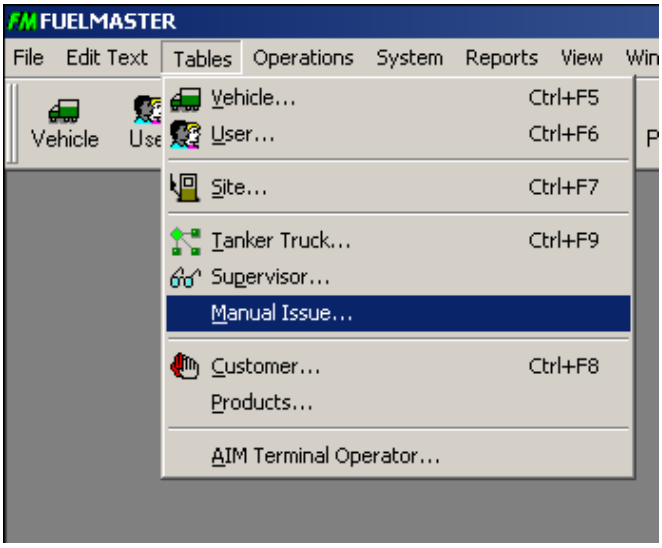

Fig 14.1

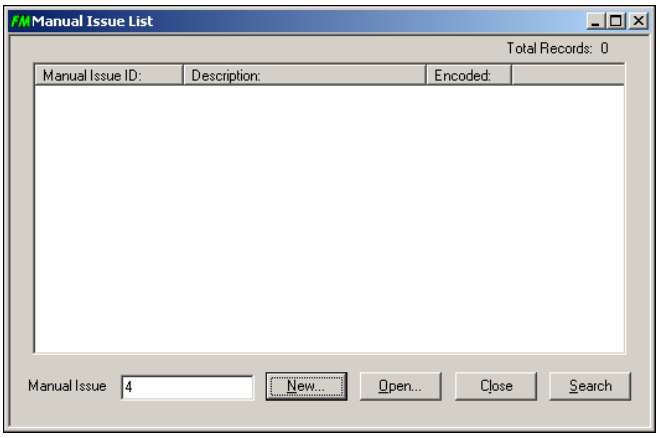

Fig 14.2

Chapter 14: Manual Issue Database

The MANUAL ISSUE DATABASE contains records that store information about each Manual Issue that uses the FUELMASTER® system. It is the controlling source for the encoding and re-issuing of Manual Issue PROKEES®, it is also used as a reference for generating reports.

- Click the Tables pull-down menu:
- Click the Manual Issue selection in the Tables pull-down menu:**(Fig 14.1)**

The Manual Issue List dialog box **(Fig 14.2)** contains four function buttons, a list box, and an edit box.

NEW
- The NEW function button allows a new Manual Issue record to the opened. A new Manual Issue ID must be entered in the Manual Issue ID edit box prior to selection of New;

OPEN
- The OPEN function button opens an existing Manual Issue record. Highlight the selected record and click OPEN.

CLOSE
- The CLOSE function button will close the Manual Issue List dialog box.

SEARCH
- The SEARCH button will search the existing Manual Issue database for the Manual Issue ID entered in the Manual Issue ID edit box.

MANUAL ISSUE ID
- The Manual Issue ID is 8-digit numeric field.

LIST BOX
- The List Box provides a list of existing manual issue keys by manual issue ID, description and encoded. Highlighting a record and selecting Open will open that manual issue record. The data may be ordered clicking on the list's field headers.

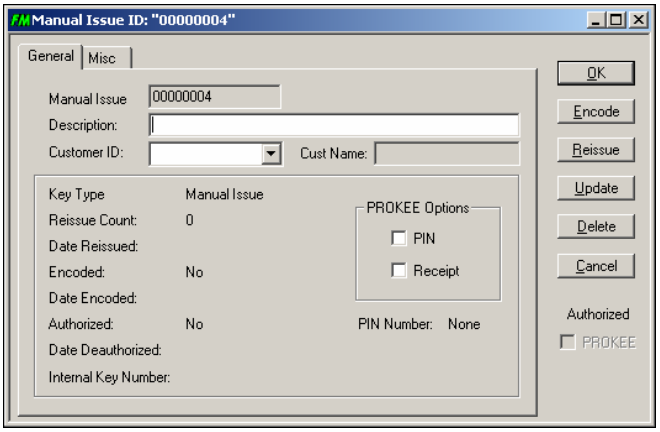

Fig 14.3

Click the New or Open button for the Manual Issue ID tabbed dialog box: **(Fig 14.5)** it contains: six function buttons, one check box, and two tabs.

OK

- The OK selection will save the Manual Issue information on the Manual Issue ID dialog box, and FUELMASTER® will revert back to the Manual Issue List dialog box.

ENCODE

- The ENCODE selection will initiate the encoding of a PROKEE® with information representative of the data presented on the Manual Issue ID dialog box.

REISSUE

- The REISSUE selection will increment the re-issue count, and change the encoded information to No.
- The Encode selection may then be used to encode a PROKEE®.

UPDATE

- The UPDATE selection will initiate the re-encoding (information update) of a PROKEE® with information representative of the data presented on the Manual Issue ID dialog box.

DELETE

- The DELETE selection will delete all information presented on the Manual Issue ID dialog box, and FUELMASTER® will revert back to the Manual Issue List dialog box.

CLOSE

- The CLOSE selection will cause FUELMASTER® to revert back to the Manual Issue List dialog box without saving information found on the Manual Issue ID dialog box.

AUTHORIZED

- NOTE: When NEW is selected the AUTHORIZED check box is disabled until the OK button is selected.
- Selection of the AUTHORIZED check box will authorize the Manual Issue PROKEE®.
- NOT selecting the AUTHORIZE check box will cause the PROKEE®'s internal number to be placed on the PROKEE® lockout list. .

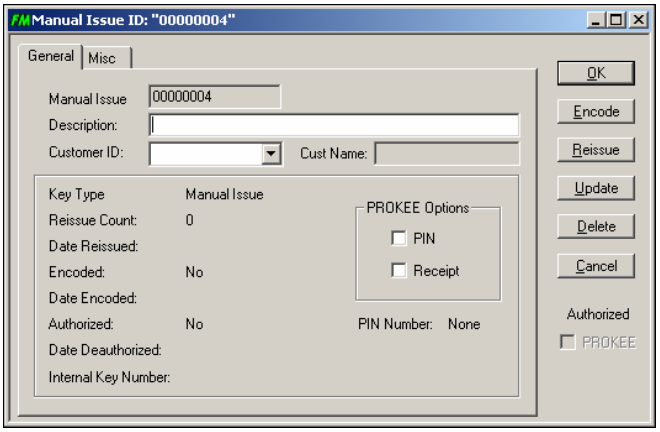

Fig 14.4

The General page **(Fig 14.5)** contains two edit boxes, nine information boxes and two check boxes

PIN

- Note: The PIN is a number assigned to the PROKEE® by the FUELMASTER® program at the time the Supervisor record is created.
- The PIN cannot be altered by the Supervisor but will change each time the key is re-issued. While the Supervisor may set the key's PIN option, Syn-Tech Systems' Product Support personnel must activate the FMU's PIN option.
- Both the key option and the FMU system option must be set in order for the FMU to require PIN entry at the Fuel Island.
- You may select if the Supervisor is required to enter a PIN on the FMU keypad prior to fueling.

RECEIPT

- If your FMU has a receipt printer option installed and active, you may elect to have the FMU provide a receipt with each transaction.
- If you select the receipt printer option, the FMU prompts the Supervisor with: DO YOU WANT A RECEIPT? The Supervisor may select YES or NO on the keypad.
- While the Supervisor may set the key's receipt option; Syn-Tech Systems' Product Support personnel must activate the FMU's receipt option.
- The FMU requires that this option be set in order to question whether a receipt is desired.

DESCRIPTION

- The 40-digit alphanumeric Description field is available for user designated information.

CUSTOMER ID

- Select the 9-digit alphanumeric Customer ID field from among those entered via Tables pull-down menu, Customer, Customer List dialog box, and Customer ID dialog box. The customer's name will be displayed under the ID entry. If, under the Systems pull-down menu, Configuration, Configuration dialog box, Require Customer ID has NOT been selected, them any 9-digit alphanumeric Customer ID may be entered.

KEY TYPE

- Five key types are available: Vehicle, User, Supervisor, Tanker Truck, and Manual Issue. The type here will be Supervisor.

RE-ISSUE COUNT

- The re-issue count is a number representing the number of times a PROKEE® has been re-issued.
- This number is used by FUELMASTER® as a way to lockout non-current versions of a PROKEE®, and is non-resettable.

ENCODED <Yes/No>

- The information ENCODED field will display the encoded/not-encoded status of the PROKEE®.

DATE ENCODED

- The DATE ENCODED information field will display the date the PROKEE® was encoded.

AUTHORIZED <Yes/No>

- The AUTHORIZED information field will display the authorized/deauthorized status of the PROKEE®.

DATE AUTHORIZED/DEAUTHORIZED

- The DATE AUTHORIZED/DEAUTHORIZED information field will display the date the PROKEE® was authorized or deauthorized.

INTERNAL KEY NUMBER

- The INTERNAL KEY NUMBER information field will display the PROKEE®'s internal key number.
- This number is set by the FUELMASTER® software, and is non-resettable and non-changeable.

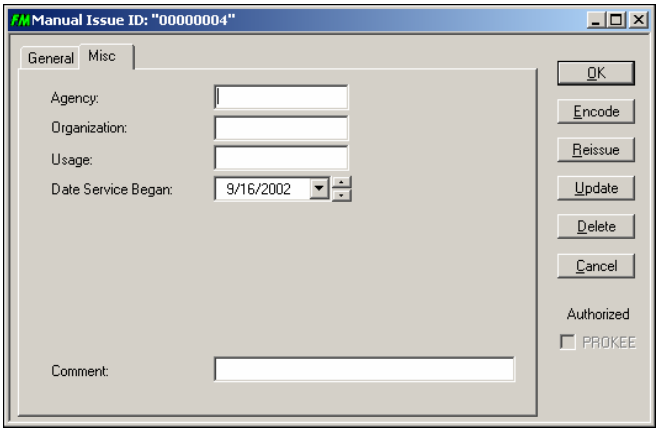

Fig 14.5

Click on the Misc. tab for the Misc. tab page:

The Misc. page **(Fig 14.5)** contains five edit boxes.

AGENCY

- The 5-digit alphanumeric AGENCY field should be filled with the Tanker Truck's agency.
- The term agency may mean department or something else in your organization.
- It is a way to group Tanker Truck records for report generation.

ORGANIZATION

- The 3-digit alphanumeric ORGANIZATION field should be filled with the Tanker Truck's organization.
- It gives the opportunity to make sub-groupings of a Tanker Truck's agency.

USAGE

- The 10-digit alphanumeric USAGE field should be filled with the usage of the described Tanker Truck.

DATE SERVICE BEGINS

- The DATE SERVICE BEGINS field has a default entry of the current date from the computer's clock.
- Enter the date the Tanker Truck began service or accept the default by pressing.

COMMENT

- The 40-digit alphanumeric COMMENT field may be used for any type of information you may want to include.
- EXAMPLE: AUXILIARY GENERATOR ID TAG #4118.

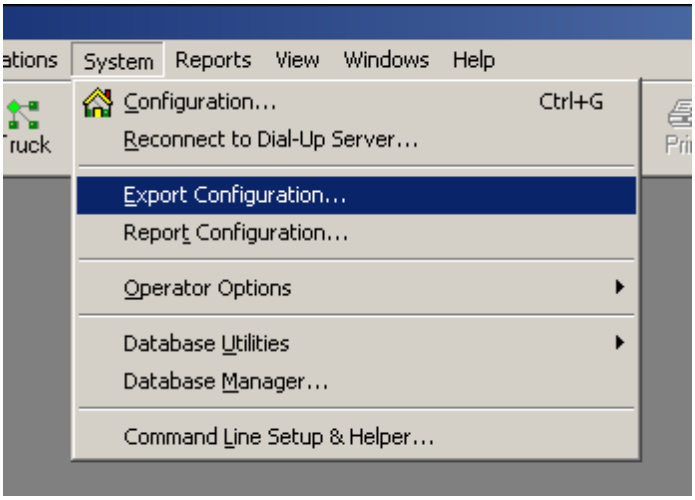

Fig 15.1

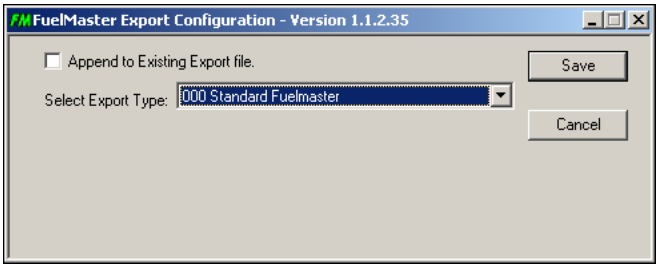

Fig 15.2

Examples of available Export Types

- Standard FUELMASTER®
- City of Hampton
- City of Elizabeth Town
- Navy PWC
- RTA
- Arizona DOT
- Highlands County
- City of Homestead
- City of Raleigh
- Thomas Transfer
- Yankee Gas
- Panama City
- Coraluzzo Petroleum Transporters
- Polk County
- Lemoore NAS
- Detroit Edison
- Fleetmas
- Bell Atlantic
- Charleston NWS
- Chatham County
- City of Dothan
- Corpus Christie
- DLA/DDRE
- Pennsy Supply
- WS Thomas Transfer
- PCTransport
- WalMart

Chapter 15: Export Configuration

EXPORT CONFIGURATION MENU – The EXPORT CONFIGURATION MENU contains a listing of the available types of export configurations.

- Click the System pull-down menu: **(Fig 15.1)**
- Click the Export Configuration selection in the System pull-down menu for the Export Configuration dialog box:

The Export Configuration dialog box **(Fig 15.2)** contains two function buttons, and a combo box.

Function Buttons:

Save
The Save selection will save the selected Export Type and FUELMASTER® will close the Export Configuration dialog box.

CANCEL
The CANCEL function button will close the Export Configuration dialog box.

Combo Box:

Select Export Type
Expand the Combo Box to a list box. The list box contains all the allowable Export Types. The current available types are listed to the left:

Check Box

Append to Existing Export File
Sets to Export to be added onto the end of and existing file instead of replacing it with the new file.

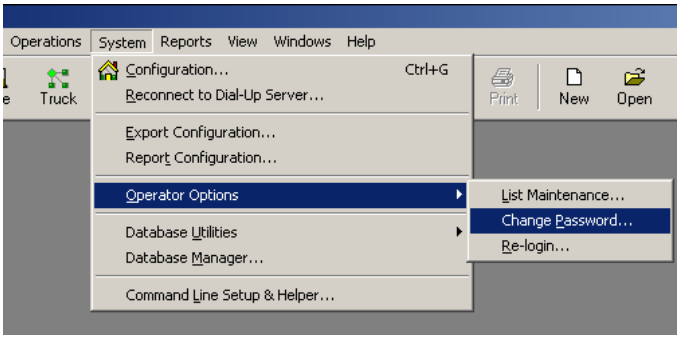

Fig 16.1

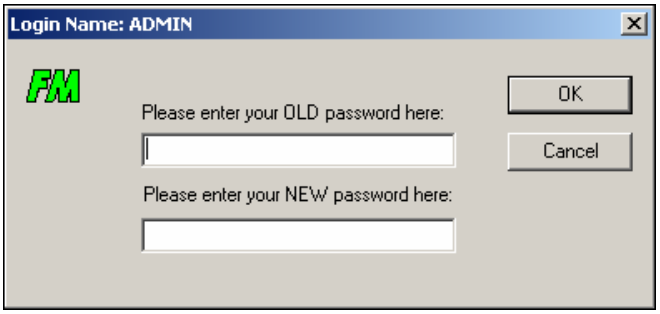

Fig 16.2

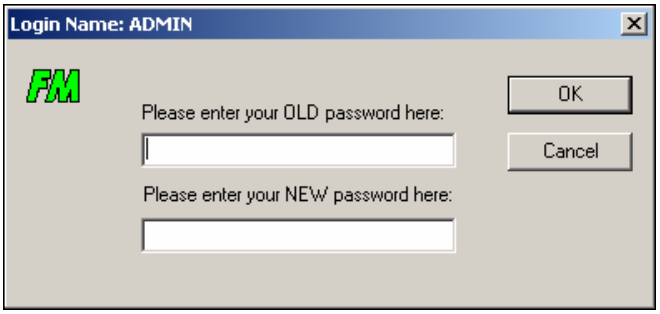

Fig 16.3

Fig 16.4

Fig 16.5

Chapter 16: Change Password

The CHANGE PASSWORD MENU allows the system's password to be changed.

- Click the System pull-down menu and highlight Operator Options: **(Fig 16.1)**
- Click the Change Password selection on the fly-out menu:

The Login Name dialog box contains two function buttons and two edit boxes.

OK

- The OK function button will change the password and close the Login Name dialog box.

CANCEL

- The CANCEL function button will close the Login Name dialog box without changing the password.

ENTER OLD PASSWORD

- In the ENTER OLD PASSWORD field enter the old password. **(Fig 16.2)**

ENTER NEW PASSWORD

1. In the ENTER NEW PASSWORD field enter the new password. **(Fig 16.2)**
2. Click the OK button or press <Enter> after entering the new password and FUELMASTER® will ask that the new password be re-entered: **(Fig 16.3)**
3. Re-enter the new password and Click the OK button or press <Enter> and FUELMASTER® will change the password to the newly entered password.
4. Click the OK to continue. **(Fig 16.4)**

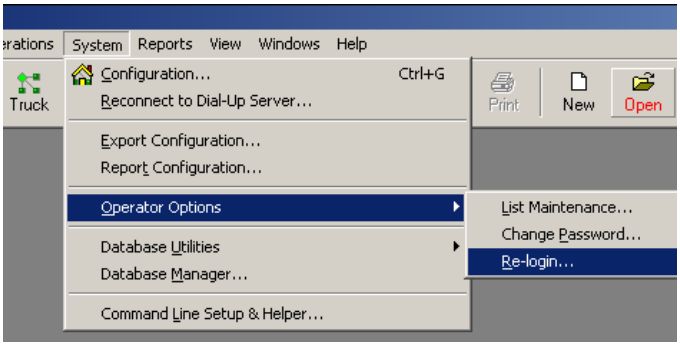

Fig 17.1

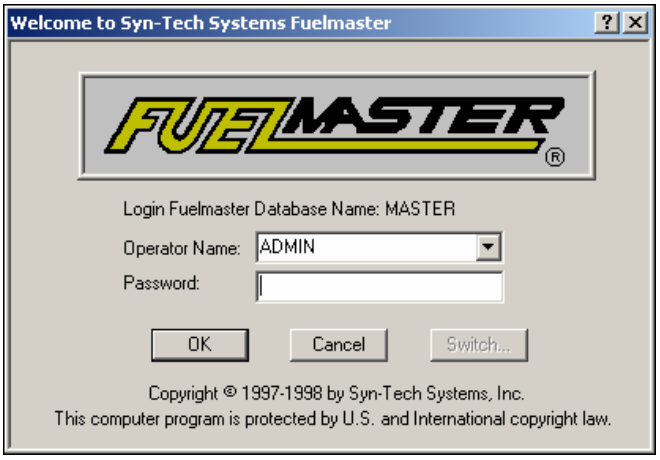

Fig 17.2

Chapter 17: Re-login

To re-login to FUELMASTER® without exiting the program, use the RE-LOGIN MENU.

- Click the System pull-down menu and highlight Operator Options: **(Fig 17.1)**
- Click the Re-login selection on the fly-out menu:

The Login Name dialog box **(Fig 17.2)** contains two function buttons and two edit boxes.

OK
- The OK function button will initiate logon to the FUELMASTER® program.

CANCEL
- The CANCEL function button will close the Login dialog box without exiting the prior logon of the FUELMASTER® program.

USER NAME
- In the USER NAME field enter the name entered via the System pull-down menu, Operator dialog box, Operator List dialog box, Operator ID dialog box, and Operator Name edit box.

PASSWORD
- In the PASSWORD field enter the password entered via the System pull-down menu, Operator dialog box, Operator List dialog box, Operator ID dialog box, and Password edit box.
- The Password could have been entered via the System pull-down menu, Password dialog box, and OLD/NEW Password edit boxes.

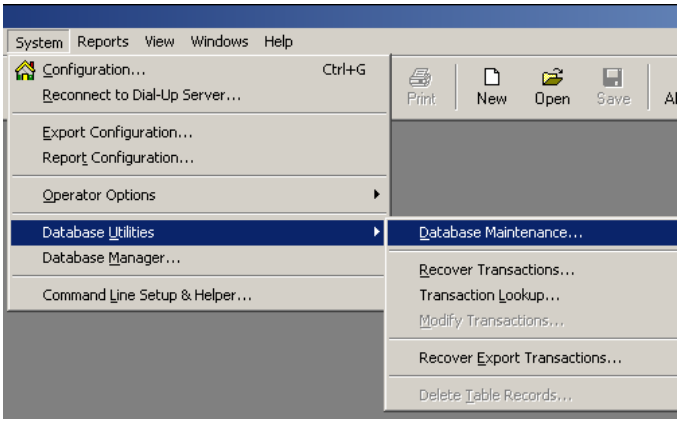

Fig 18.1

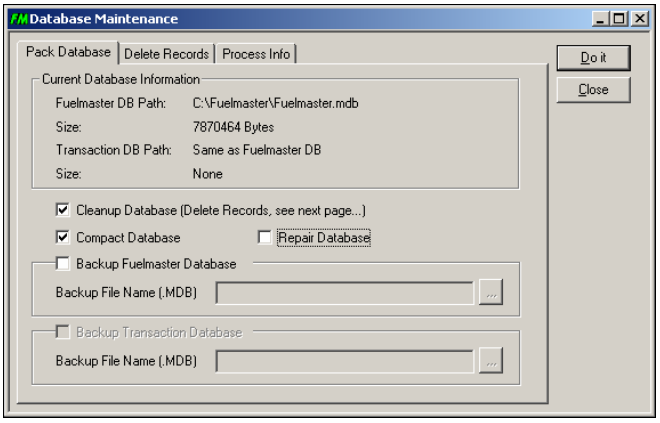

Fig 18.2

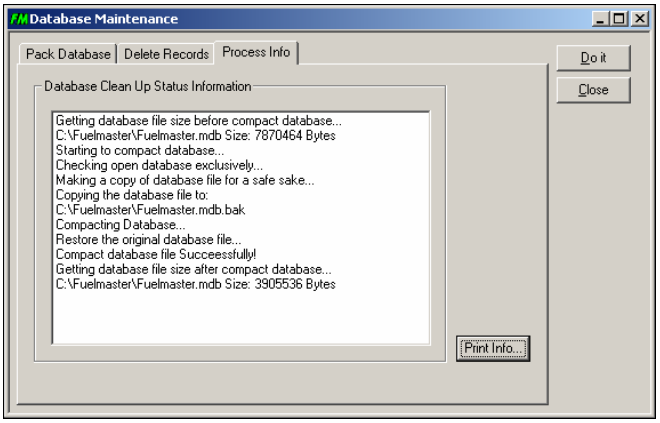

Fig 18.3

Chapter 18: Database Maintenance

The DATABASE MAINTENANCE MENU dialog box features various methods of repair, cleanup and compacting of FuelMaster.mdb.

- Click the System pull-down menu:
- Click the Database Maintenance selection in the Database submenu of the System pull-down menu **(Fig 18.1)**

Should any databases be open FUELMASTER® will prompt the operator to close the database prior to proceeding with database maintenance.

The Database Maintenance dialog box **(Fig 18.2)** contains two function buttons, and four tabs or property pages.

OK

- The GO function button will initiate executing of selected database maintenance items.

CANCEL

- The CANCEL function button will close the Database maintenance dialog box without executing selected database maintenance.

Pack Database tab

CURRENT DATABASE Information

- *PATH* displays directory location where the database is saved.
- *Size* displays the current file size of the database.

REPAIR DATABASE

- Checking the “Repair Database” box and clicking OK will cause the FUELMASTER® software program to REPAIR the current database.
- This will execute the repair process and will display the Process Info page list box showing the sequence of events in the repair process. **(Fig 18.3)**

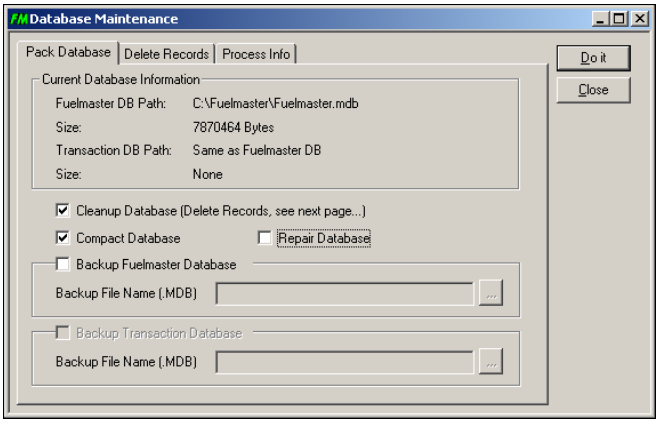

Fig 18.5

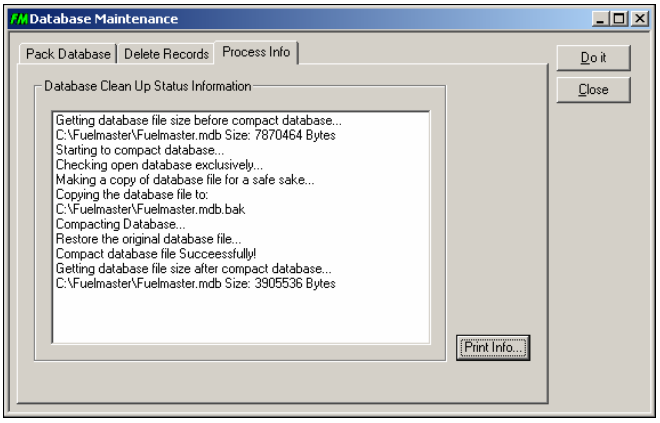

Fig 18.6

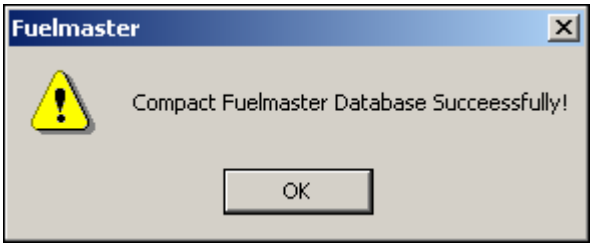

Fig 18.7

CLEANUP DATABASE

- The CLEANUP DATABASE selection plus OK will cause the FUELMASTER® software program to CLEANUP the current database in accordance with the selections made on the Delete Records page.
- After selecting OK, the FUELMASTER® software will execute the cleanup process and will display the Process Info page list box showing the sequence of events in the cleanup process.

COMPACT DATABASE

- The COMPACT DATABASE selection plus OK will cause the FUELMASTER® software program to compress the current database.
- After selecting OK, the FUELMASTER® software will execute the compress process and will display the Process Info page list box showing the sequence of events in the compress process.

BACKUP DATABASE

- The BACKUP DATABASE selection plus OK will cause the FUELMASTER® software program to back up the current to a file name entered in the ENTER BACKUP DATABASE FILE NAME (.MDB) edit box.
- After selecting OK, the FUELMASTER® software will execute the backup process and will display the Process Info page list box showing the sequence of events in the backup process.

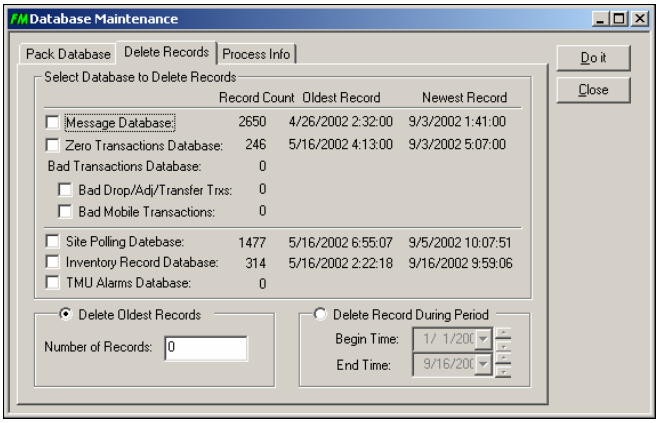

Fig 18.8

Click on the Delete Records tab for the Delete Records tab page:

The Delete Records page **(Fig 18.8)** contains four information boxes, six check boxes, two radio buttons, and three edit boxes:

INFO BOXES

- The Information Boxes; RECORD COUNT, OLDEST RECORD, and LATEST RECORD provide information on the transactions associated each check box.

MESSAGE DATABASE

- Transactions in the MESSAGE DATABASE, as defined by the Delete Oldest Records or Delete Record During Period Radio Boxes, will be deleted via a check in the MESSAGE DATABASE Check Box and a CLICK on OK.

ZERO TRANSACTIONS DATABASE

- Transactions in the ZERO TRANSACTIONS DATABASE, as defined by the Delete Oldest Records or Delete Record During Period Radio Boxes, will be deleted via a check in the ZERO TRANSACTIONS DATABASE Check Box and a CLICK on OK.

BAD DROP/ADJUSTMENT/TRANSFER TRANSACTION

- Transactions in the BAD DROP/ADJUSTMENT/TRANSFER TRANSACTION, as defined by the Delete Oldest Records or Delete Record During Period Radio Boxes, will be deleted via a check in the BAD DROP/ADJUSTMENT/TRANSFER TRANSACTION Check Box and a CLICK on OK.

BAD MOBILE TRANSACTIONS

- Transactions in the BAD MOBILE TRANSACTIONS, as defined by the Delete Oldest Records or Delete Record During Period Radio Boxes, will be deleted via a check in the BAD MOBILE TRANSACTIONS Check Box and a CLICK on OK.

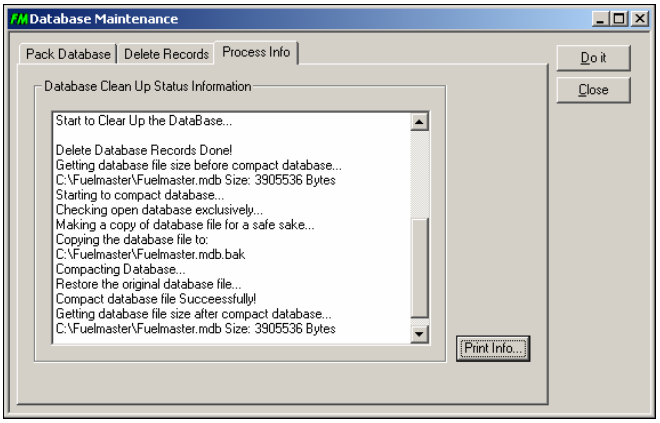

Fig 18.9

SITE ONLINE POLLING REPORT DATABASE

- Transactions in the SITE ONLINE POLLING REPORT DATABASE, as defined by the Delete Oldest Records or Delete Record During Period Radio Boxes, will be deleted via a check in the SITE ONLINE POLLING REPORT DATABASE Check Box and a CLICK on OK.

INVENTORY RECORD DATABASE

- Transactions in the INVENTORY RECORD DATABASE, as defined by the Delete Oldest Records or Delete Record During Period Radio Boxes, will be deleted via a check in the INVENTORY RECORD DATABASE Check Box and a CLICK on OK.

DELETE OLDEST RECORDS

- This selects the oldest transactions to be deleted.
- How many of the oldest transaction to be deleted is defined via the RECORD NUMBERS Edit box.
- The transactions to be deleted correspond to those defined by the Check Boxes.

DELETE RECORD DURING PERIOD

- This selects transactions between two dates to be deleted. The BEGIN TIME and END TIME Edit boxes define the dates. Transactions with the date defined in the END TIME Edit Box WILL NOT be deleted only those prior to the time specified
- The transactions to be deleted correspond to those defined by the Check Boxes.

Click on the Process Info tab **(Fig 18.9)** for the Process Information tab page: it contains an information box, and a function button:

DATABASE CLEAN UP STATUS INFORMATION

- Information pertaining to the deletion of the selected transactions will be displayed in the information box.

PRINT INFO

- It will send the information in the DATABASE CLEAN UP STATUS INFORMATION info. box to the PC's printer.

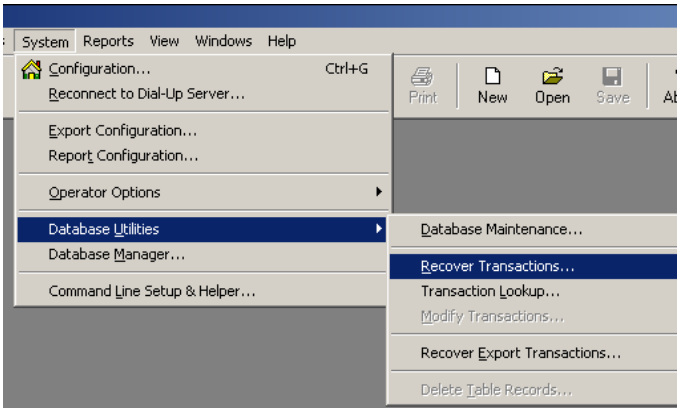

Fig 19.1

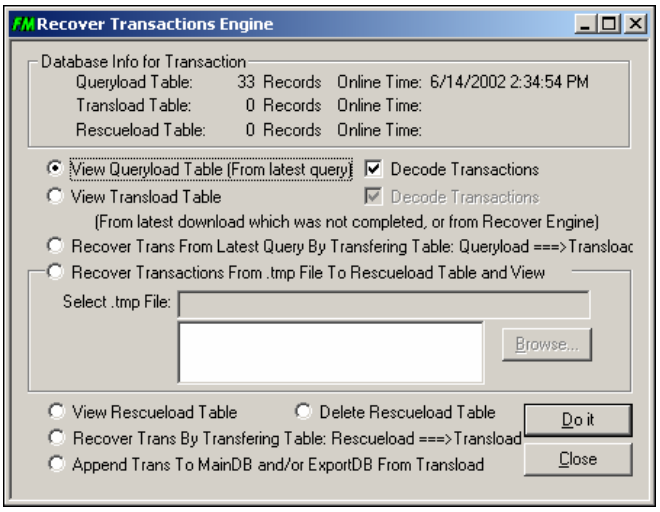

Fig 19.2

OK

- The OK selection will cause FUELMASTER® to append the selected transactions listed in the Main database to be end of the Export database.

CANCEL

- The CANCEL selection will cause FUELMASTER® to close the Recover Export Transactions dialog box.
- Select Transactions to Recover from MainDB to ExportDB:

SELECT ONLINE TIME

- To append specific transactions listed in the Main database to the Export database Click the SELECT ONLINE TIME Radio Box.

Chapter 19: Recover Export Transactions

The RECOVER EXPORT TRANSACTIONS section allows prior transactions listed in the Main database to be appended to the Export database.

- Click the System pull-down menu: **(Fig 19.1)**
- Click the Recover Export Transactions selection in the System pull-down menu:

The Recover Export Transactions dialog box **(Fig 19.2)** contains: two function buttons; three radio buttons, a list box, and two combo boxes.

ONLINE TIME

- The List Box below ONLINE TIME will list the time and date of past transactions in the MainDB.
- To append specific transactions listed in the Main database to the Export database, DOUBLE CLICK on the time and date of the selected transaction.
- This will cause it to be shown in the ONLINE TIME List Box. Click OK, and the selected transaction will be appended to the Export database.

RANGE for ONLINE TIME

- To append a range of transactions listed in the Main database to the Export database Click the RANGE for ONLINE TIME Radio Box.

Edit Boxes

- The Edit Boxes START DAY and END DAY are used in conjunction with RANGE for ONLINE TIME to specify the time period between which transactions listed in the Main database will be appended to the Export.

ALL TRANSACTIONS

- To append all transactions listed in the Main database to the Export database select ALL TRANSACTIONS.

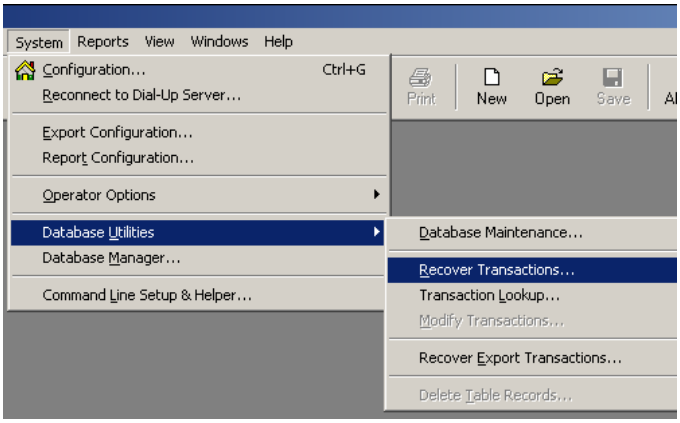

Fig 20.1

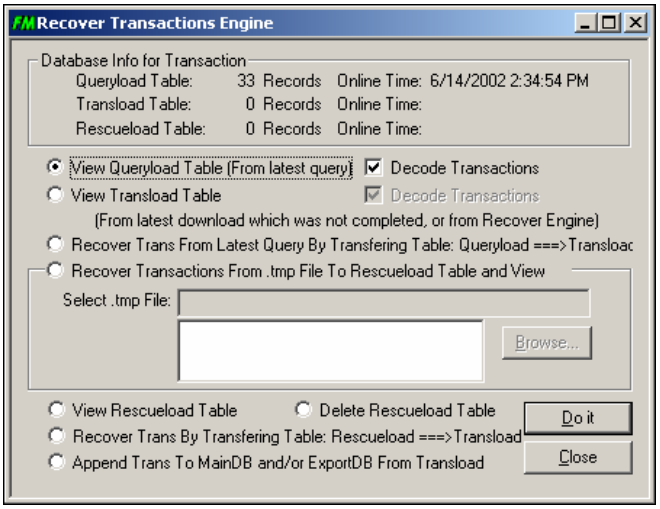

Fig 20.2

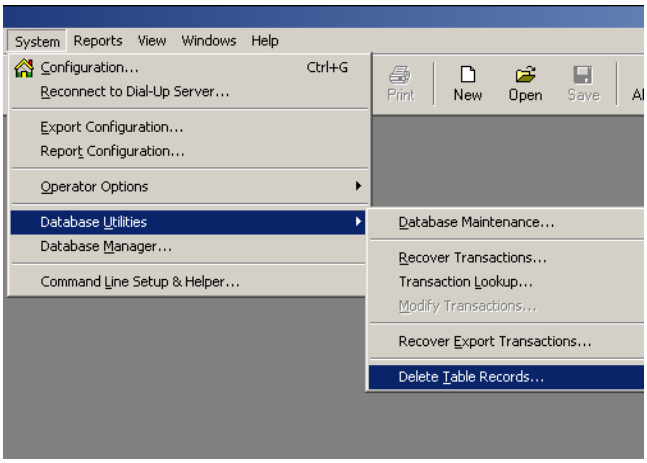

Fig 20.3

Chapter 20: Delete Table Records

The DELETE TABLE RECORDS dialog box allows the deletion of transaction records from FuelMaster.mdb.

Caution: Use of this feature is NOT recommended. Please Call Syntech Customer Support before attempting to use this option.

Note: The DELETE TABLE RECORDS requires that the RECOVER TRANSACTIONS engine be running (i.e., the RECOVER TRANSACTIONS ENGINE dialog box shall be showing).

- Click the System pull-down menu: **(Fig 20.1)**
- Click the Database Utilities Option
- Click the Recover Transactions selection from the fly-out menu
- This will display the Recover Transaction Engine Dialog Box**(Fig 20.2)**

To access Delete Table Records:

- Click the System pull-down menu:
- Click the Delete Table Records selection in the System pull-down menu: **(Fig 20.3)**

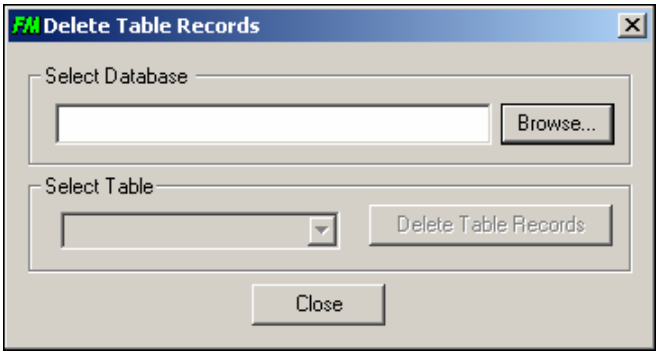

Fig 20.4

Fig 20.5

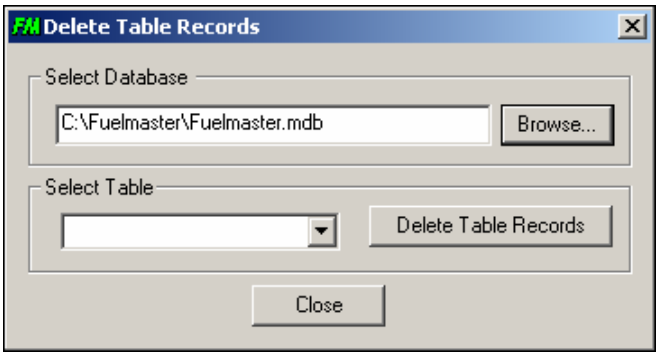

Fig 20.6

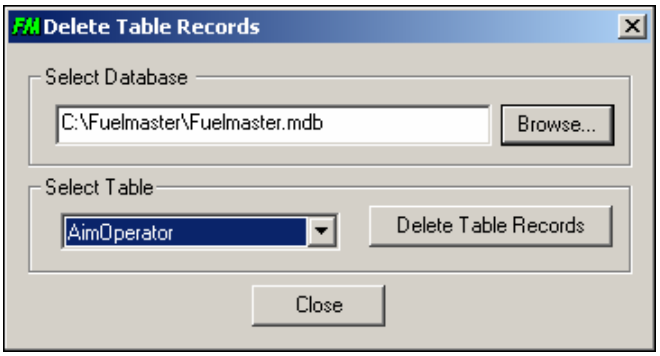

Fig 20.7

The software will display a box asking you to select the database to look in. **(Fig 20.4)**

1. Click Browse for a Browse dialog box and move to the Fuelmaster directory. **(Fig 20.5)**
2. Highlight Fuelmaster.mdb and Click Open **(Fig 20.5)**
3. Use the Select Table combo box to select desired table. **(Fig 20.6)**

Caution: Use of this feature can be dangerous. Please Call Syntech Customer Support before attempting to use this option.

4. Click Delete Table Records and the contents of the selected table will be deleted. **(Fig 20.7)**
5. Click OK and Click Done in the pop up window

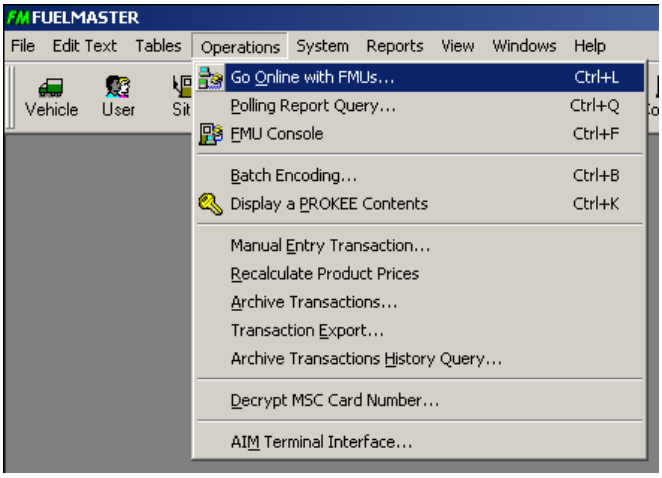

Fig 21.1

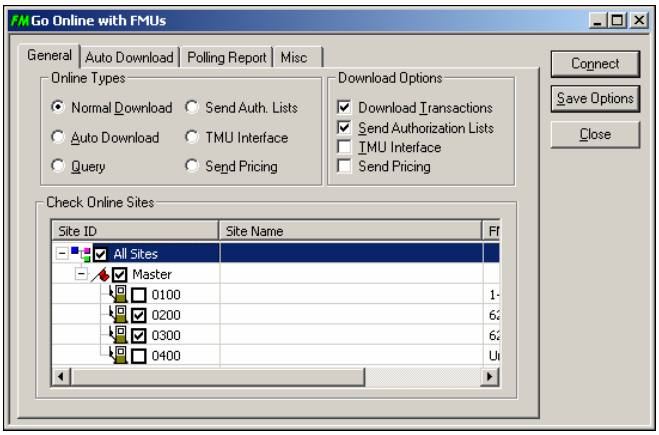

Fig 21.2

Chapter 21: Go Online with FMUs

The GO ONLINE WITH FMUs dialog box features the online function associated with upload and download operations of the FUELMASTER® software.

- Click the Operations pull-down menu:**(Fig 21.1)**
- Click the Go Online with FMUs selection in the Operations pull-down menu:**(Fig 21.2)**

The Go Online with FMUs dialog box contains: three function buttons; and, four tabs or property pages.

Function Buttons:

CONNECT
The CONNECT selection will cause FUELMASTER® to initiate communication with those FMUs with check marks in their Site ID check boxes.

SAVE OPTIONS
The SAVE OPTIONS selection will cause the array of check marks as displayed on the Go Online with FMUs dialog box to be save.

CANCEL
The CANCEL selection will cause FUELMASTER® to close the Go Online with FMUs dialog box without saving any information changed on the Go Online with FMUs dialog box.

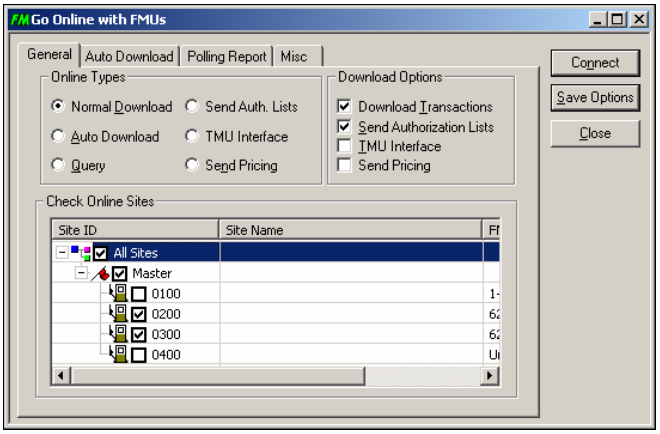

Fig 21.3

The General page contains two function buttons, five radio buttons, three check boxes, a list box, and a check box for each site.

Function Buttons:

SELECT ALL

- The select all selection will cause check marks to be placed in all Site ID check boxes.

DESELECT ALL

- The deselect all selection will cause check marks to be removed from all Site ID boxes.

ONLINE TYPES

NORMAL DOWNLOAD

- This includes both download of transactions from the FMU to the FUELMASTER® software, upload of authorization lists to the FMU, and interface with Tank Monitor Units.
- To initiate a normal download, check normal download and click connect

AUTO DOWNLOAD

- This option includes both download of transactions from the FMU to the FUELMASTER® software and upload of authorization lists to the FMU.
- The auto download will be initialed by the FUELMASTER® software at the time and data specified on the auto download page/tab.
- To set up auto download check auto download on the General page/tab; set the appropriate time and date on the auto download page/tab; check READY TO AUTO DOWNLOAD on the auto download page/tab; and, click Connect.

Query

- QUERY copies the transaction form an FMU to the FUELMASTER® software, and leaves the original stored transactions in the FMU. To initiate a QUERY, check QUERY and CLICK CONNECT.

SEND AUTHORIZATION LISTS

- Send authorization lists sends the current authorization lists from the FUELMASTER® software to an FMU. To initiate a send authorization lists, check send authorization lists and click connect.

TMU INTERFACE

- TMU interface connects to an FMU and then passes through to a TMU. TMU reports are then sent from the TMU to the FUELMASTER® software program. To initiate a TMU interface, check TMU interface and click connect.

Send Pricing

- Sends all product, customer, and tank pricing options to the FMU

Check Boxes:

- A normal download can accomplish three functions: download transactions, send authorization lists, and TMU interface.
- The download options check boxes may be used to select/deselect each of these normal download operations.

List Box:

- The check online sites list box will provide a list of sites in the database a short description of each comprised of: Site ID (with check boxes), Site Name, and Modem Number.
- To go on line with a site place a check in the Site ID check box and click connect.

Click on the Auto Download tab for the Auto Download tab page:

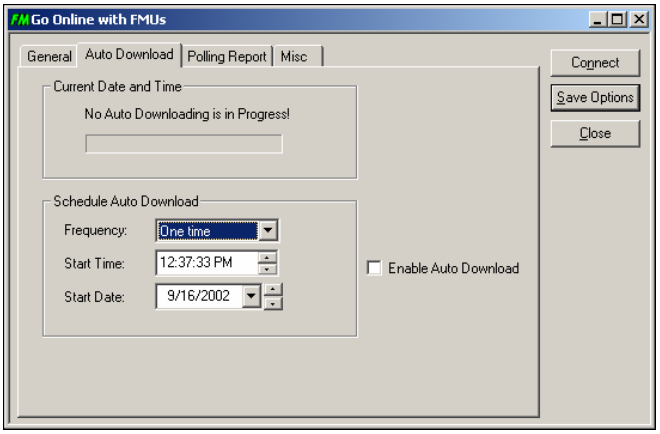

Fig 21.4

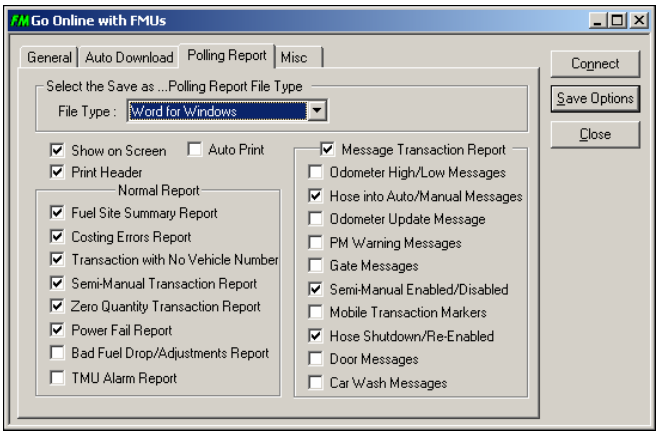

Fig 21.5

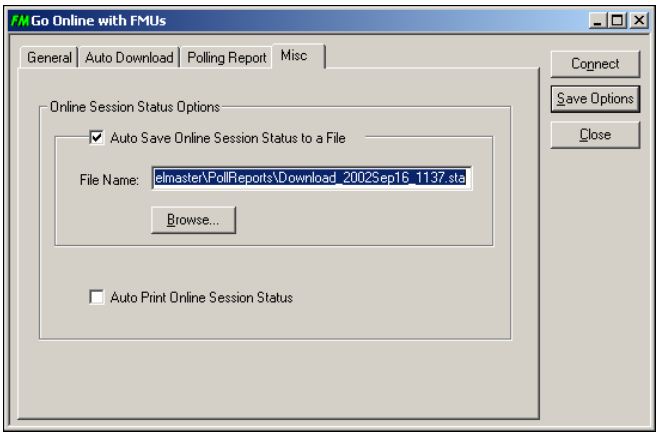

Fig 21.6

Auto Download Page (Fig 21.4)

Edit Boxes:

- The ENTER AUTO DOWNLOADING DATE AND TIME Edit Boxes: START DATE and START TIME, allow the entry of the time and date of and Auto Download.

Check Box:

- To initiate an AUTO DOWNLOAD check the READY TO AUTO DOWNLOAD Check Box and Click Connect.

Information Box:

- After initiating an AUTO DOWNLOAD via the READY TO AUTO DOWNLOAD Check Box and Click Connect, the CURRENT DATE AND TIME Information Box will state Auto Download is in Progress and will display the time and date of when the Auto Download will occur.

Polling Report Page (Fig 21.5)

Combo Box:

- The FILE TYPE Combo Box is used to select the type of file for the polling report.

Check Boxes:

- The first three check boxes, SHOW ON SCREEN, PRINT HEADER, and AUTO PRINT define where the Polling Report will be displayed. Check the ones where display of the polling report is desired.

Normal Reports:

- Each has a check box and may be selected/de-selected as desired.

Message Transaction Reports

Each has a check box and may be selected/de-selected as desired.

Miscellaneous page: (Fig 21.6)

Edit Box:

- The FILE NAME Edit Box will display the file name of any downloaded reports.

Check Boxes:

- The AUTO SAVE and AUTO PRINT Check Boxes allow automatic saving and printing feature to be selected or de-selected.

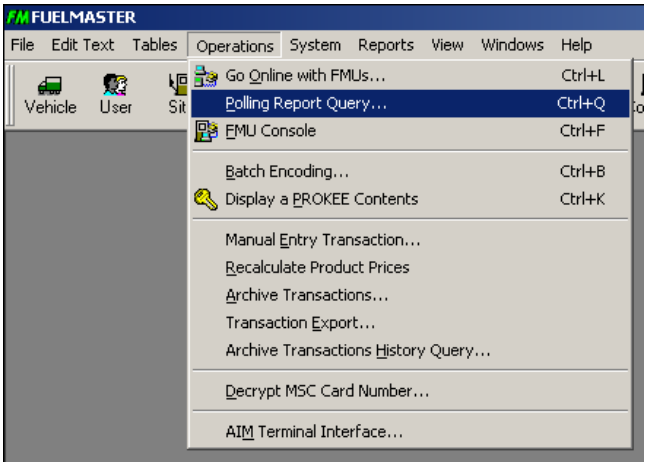

Fig 22.1

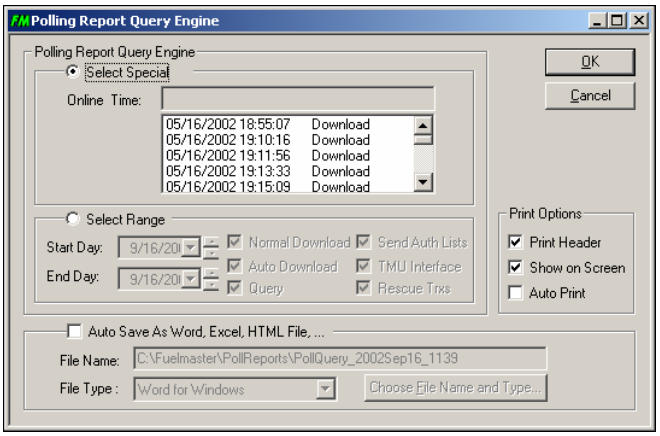

Fig 22.2

OK

- The OK selection will cause FUELMASTER® to re-generate the selected polling reports.

CANCEL

- The CANCEL selection will cause FUELMASTER® to close the Polling Report Query dialog box **(Fig 22.2)**without generating any polling reports.

SELECT SPECIAL

- To re-generate a specific polling report Click the SELECT RANGE Radio Box.

ONLINE TIME

- The List Box below ONLINE TIME will list all FUELMASTER® to FMU communications. To re-generate a specific polling report, DOUBLE CLICK on the selected polling report. This will cause it to be shown in the ONLINE TIME List Box. Click OK, and the report will be generated.

Chapter 22: Polling Report Query

The POLLING REPORT QUERY allows prior polling reports to be re-generated.

- Click the Operations pull-down menu: **(Fig 22.1)**
- Click the Polling Report Query selection in the Operations pull-down menu:

SELECT RANGE

- Use the edit boxes start day and end day in conjunction with select range to specify the time period between which polling reports will be generated.
- Use the check boxes normal download, auto down-load, query, send auto lists, and TMU interface are used in conjunction with select range to specify which type of polling report are desired.

Print Options:

- The Print Options Check Boxes PRINT HEADER, SHOW ON SCREEN, and AUTO PRINT are used to define how the poling reports will be displayed.

Auto Save:

- The AUTO SAVE selection defines the file address, name and type to the polling report.
- Select the AUTO SAVE AS WORD, EXCEL, HTML, FILE, to send the polling report to a file.

FILE NAME

- The default name and address is c:\fuelmaster\PollReports\PollQuery_ttttmmmdd_yyyy
- Should this need to be changed, Click the CHOOSE FILE NAME AND TYPE Function Button. FUELMASTER® will generate a Save TO File window in which a new name and address can be entered.

FILE TYPE

- Select in which format the file will be saved. (Example: Word for Windows).

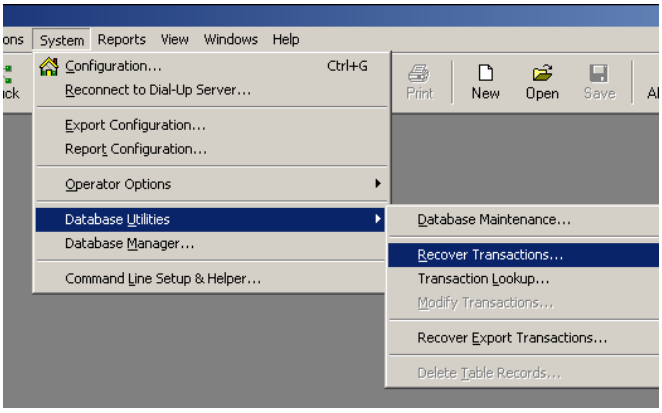

Fig 23.1

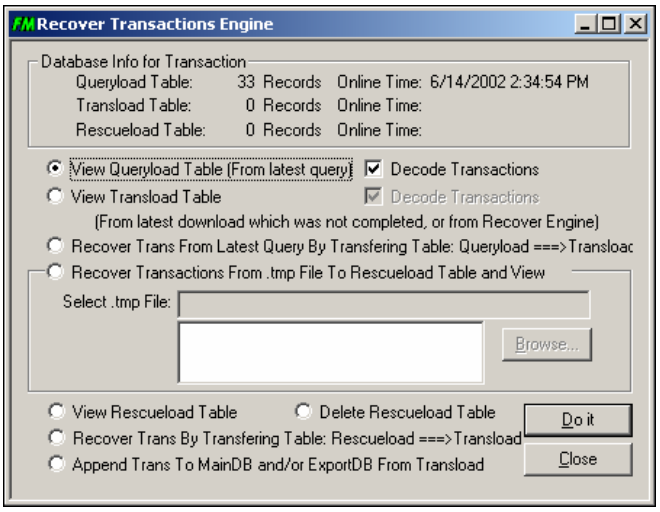

Fig 23.2

<u>Recover Transactions Engine</u> (Fig 23.2)

This dialog box contains three function buttons; eight radio buttons, a check box, a list box, and an information box.

OK

- The OK selection will cause FUELMASTER® to initiate transaction recovery from the selected tables.

CANCEL

- The CANCEL selection will cause FUELMASTER® to close the Recover Transactions Engine dialog box without recovery of transactions from selected tables.

Database Info for Transaction

An information box that presents the number of record and the Online Time associated with the transactions in three tables of the database; Queryload, Transload and Rescueload Tables.

Chapter 23: Recovering Transactions

RECOVER TRANSACTIONS – The RECOVER TRANSACTIONS dialog box allows transactions to be recovered from the FUELMASTER database and from temporary files if they have otherwise been lost.

- Click the Operations pull-down menu: **(Fig 23.1)**
- Click the Recover Transactions selection in the Operations pull-down menu:

View Queryload Table (From latest query)

- The VIEW QUERYLOAD TABLE selection will present on the PC's screen the transaction information stored in the Queryload Table from the last download.
- Check decode transactions to add to the queryload table downloaded transaction data the other database information required to make a complete transaction.

View Transload Table

- This election will present on the PC's screen the transaction information stored in the Transload Table from the last download.
- Check Decode Transactions to add to the transload table downloaded transaction data the other database information required to make a complete transaction.

Recover Transactions from Latest Query by Transferring Table Queryload ===> Transload

- This selection will copy the selected transaction from the Queryload Table to the Transload Table.
- Once in the Transload Table they may be copied to the MainBD and/or the ExportDB via the last option in this dialog box or one can wait until the next normal download. FUELMASTER® will inform the user that transaction data already exists in the Transload Table and one can then elect to transfer both the new and the older transaction data to the MainBD and/or the ExportDB at that time.

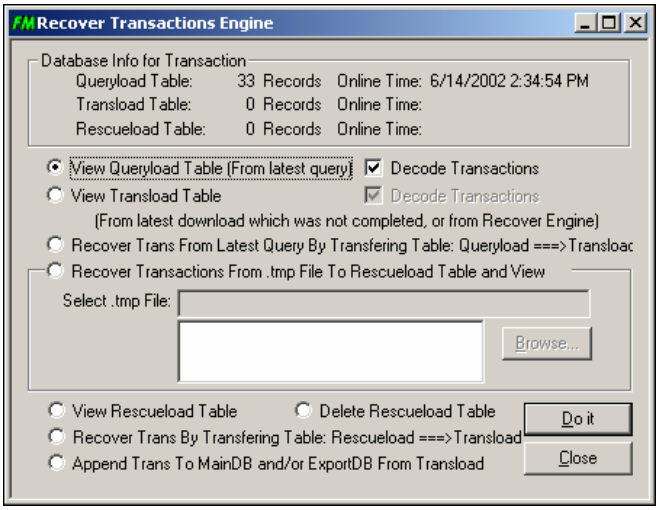

Fig 23.3

Recover Transactions From .tmp File To Rescueload table and View

- When transaction data is downloaded or queried it is first put in a .tmp file.
- The transaction data in the .tmp file is then copied to the appropriate Queryload or Transload Table.
- The RECOVER TRANSACTIONS FROM .TMP FILE TO RESCUELOAD TABLE AND VIEW selection will copy the selected transaction from the *.tmp file to the Rescue Table.
- Once in the Rescueload Table the transactions may be copied to the Transload Table via the second to last option in this dialog.
- Once in the Transload Table they may be copied to the MainBD and/or the ExportDB via the last option in this dialog box or one can wait until the next normal download. FUELMASTER® will inform the user that transaction data already exists in the Transload Table and one can then elect to transfer both the new and the older transaction data to the MainBD and/or the ExportDB at that time.
- When Recover Transactions From .tmp File to Rescueload table and View has been selected, the appropriate .tmp file can be selected via the Select .tmp List box.

View Rescueload Table

- This allows one to view the transactions contained in the Rescueload Table.

Delete Rescueload Table

- This allows one to delete the transactions contained in the Rescueload Table.

Recover Transactions by Transferring Table Rescueload ===> Transload

- This selection will copy the transaction data in the Rescueload Table to the Transload table where it can be copied to the MainBD and/or the ExportDB.

Append Transaction to MainDB and/or ExportDB from Transload

- This selection will copy transaction data from the Transload Table to the MainBD and/or the ExportDB.
- One can elect this option or one can wait until the next normal download. FUELMASTER® will inform the user that transaction data already exists in the Transload Table and one can then elect to transfer both the new and the older transaction data to the MainBD and/or the ExportDB at that time.

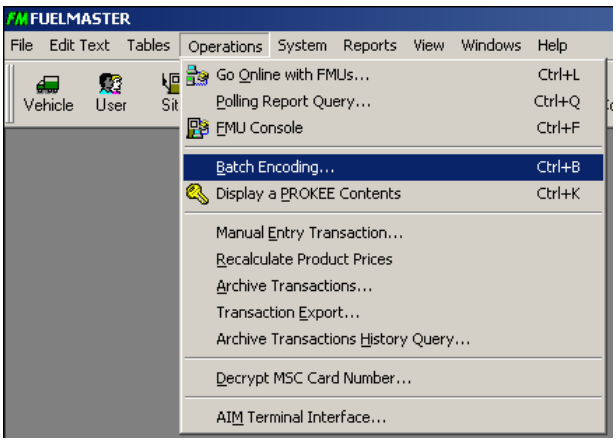

Fig 24.1

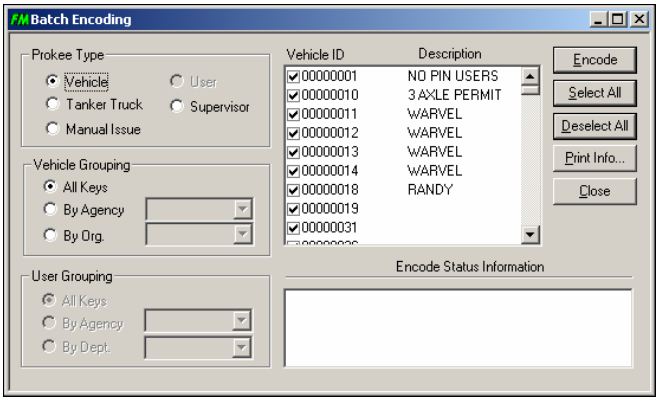

Fig 24.2

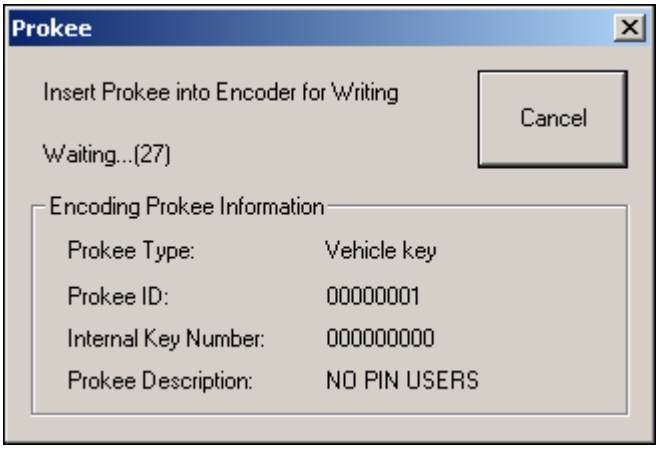

Fig 24.3

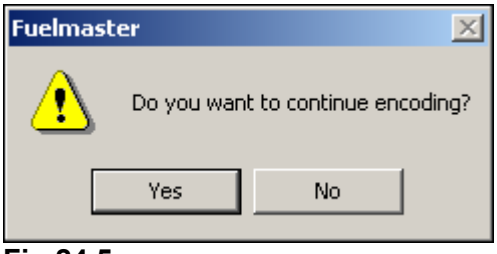

Fig 24.5

Chapter 24: Batch Encoding

BATCH ENCODING MENU – The BATCH ENCODING dialog box allows individual or batch of PROKEEs® to be encoded. PROKEEs® may be selected in batches based on type, groupings, organization, etc.

- Click the Operations pull-down menu: **(Fig 24.1)**
- Click the BATCH ENCODING selection in the Operations pull-down menu:

The Batch Encoding dialog box **(Fig 24.2)** contains: five function buttons; eleven radio buttons, a list box, an information box, four edit boxes, and check boxes for ID and description for each key.

Function Buttons:

ENCODE

- The ENCODE selection will cause FUELMASTER® to initiate encoding of the selected keys.
- Insert a PROKEE® in the Encoder. Upon successful encoding of the PROKEE®, FUELMASTER® will confirm **(Fig 24.3)**
- Click OK to continue.
- Or, Click the Cancel Button and FUELMASTER® will ask whether to continue with the encoding:
- Click No to quit Encoding keys. **(Fig 24.5)**

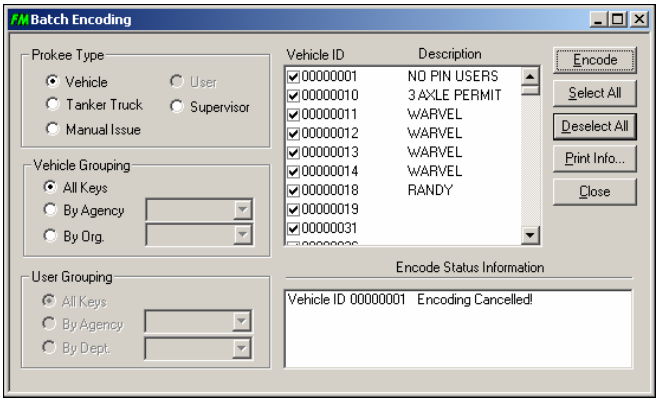

Fig 24.6

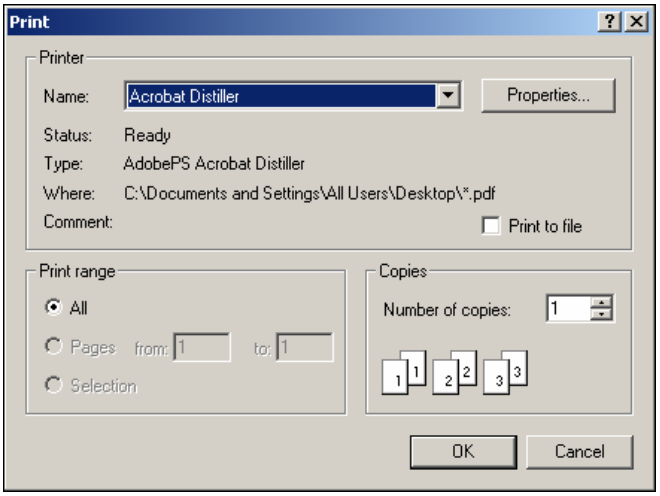

Fig 24.7

- Should a problem occur during encoding, FUELMASTER® will present a message box with suggestions on how to troubleshoot an encoding problem.

SELECT ALL

- The SELECT ALL selection will cause check marks to be placed in all check boxes within the information box.

DESELECT ALL

- The DESELECT ALL selection will cause all check marks to be removed from all check boxes within the information box.

PRINT INFO (Fig 24.7)

- The PRINT INFO selection will send the results of the encoding to the printer as a FUELMASTER® Batch Encode Report.
- Upon selection of PRINT INFO, a confirmation dialog box will be presented.
- Click OK to confirm printing.

CANCEL

- The CANCEL selection will cause FUELMASTER® to close the Batch Encoding dialog box without saving any information changed on the Batch Encoding dialog box.

PROKEE® Type:

- Select the type of PROKEE® to be encoded: VEHICLE, TANK TRUCK, MANUAL ISSUE, USER, or SUPERVISOR.
- Available selections will depend on the type or system selected.

Vehicle/Tank Truck/Manual Issue/User/Supervisor Grouping:

- The heading for this selection will match the type of PROKEE® selected. Select a group from among the desired PROKEE® type: ALL KEY, BY AGENCY, or BY ORGANIZATION.

User Type:

- Should a User PROKEE® type be selected, batches of User PROKEE®s may be selected based on: ALL KEY, BY AGENCY, or BY DEPARTMENT.

- As PROKEE® type and groupings are selected, the selected PROKEE®s will be listed by VEHICLE, USER, TANK TRUCK, MANUAL ISSUE, or SUPERVISOR ID and DESCRIPTION in the List Box.
- A Check Box will appear with each listed ID and DESCRIPTION.
- The Check Box can be used via a cursor, the Select ALL and Deselect ALL Buttons to select from the IDs displayed in the List Box.

ENCODE STATUS

- The Information Box will display encoded status as each selection is encoded.

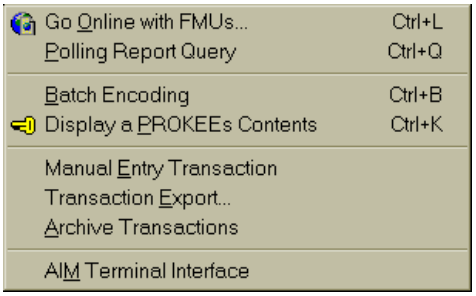

Fig 25.1

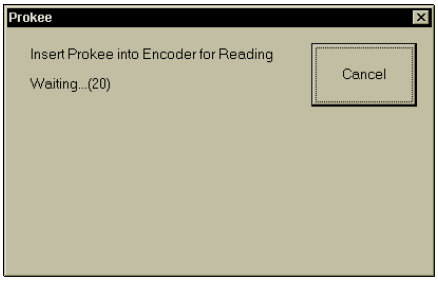

Fig 25.2

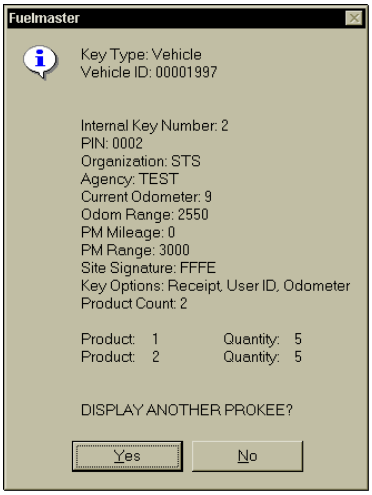

Fig 25.3

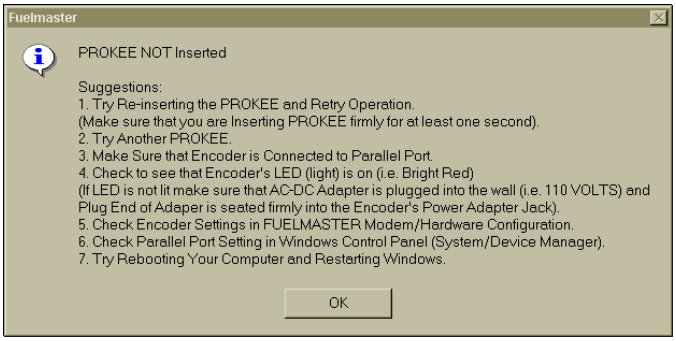

Fig 25.4

Chapter 25: Display a PROKEE®'s Contents

1. Click the Operations pull-down menu:
2. Click the DISPLAY A PROKEE®'s® CONTENTS selection in the Operations pull down menu, and FUELMASTER® will initiate reading of a PROKEE®.
3. Insert a PROKEE® and its contents will be displayed.
4. The DISPLAY A PROKEE®'s CONTENTS dialog box contains all the information encoded on that particular PROKEE.
5. Should a problem occur during encoding, FUELMASTER® will present a message box with suggestions on how to troubleshoot an encoding problem.

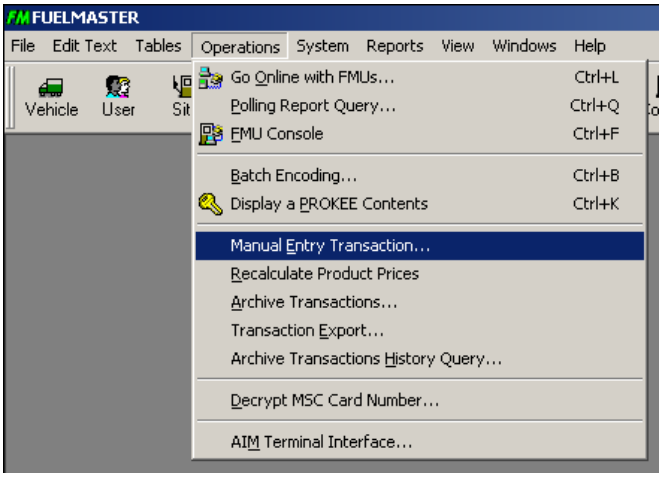

Fig 26.1

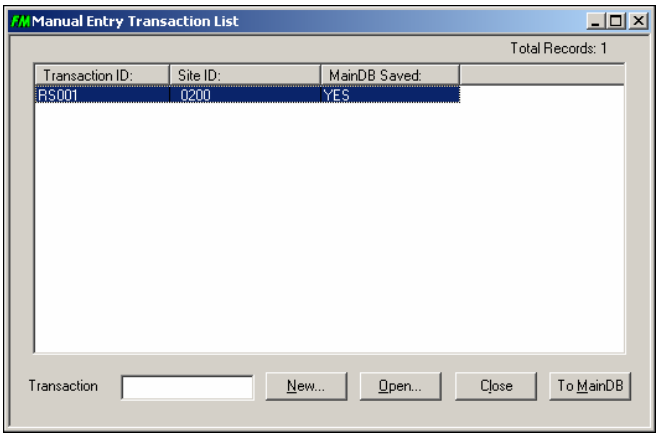

Fig 26.2

Edit Box:

- The Transaction ID is 5-digit numeric field used to label each manually entered transaction.

List Box:

- The List Box provides a list of existing transactions by transaction number, vehicle ID and Site ID.
- Highlighting a record (clicking on the desired transaction), and selecting the function button Open will open that transaction record.
- The listed transactions by transaction number, vehicle ID and Site ID, may be ordered alphanumerically by clicking on the list's field headers, transaction number, vehicle ID and Site ID.
- Click the New or Open button for the Manual Transaction Entry ID dialog box:

Chapter 26: Manual Transaction Entry

- Click the Operations pull-down menu: **(26.1)**
- Click the Manual Transaction Entry selection in the Operations pull-down menu:

The Manual Transaction Entry List dialog box **(Fig 26.2)** contains four function buttons, a list box, and an edit box.

Function Buttons:

NEW

- The NEW function button allows a new Manual Transaction Entry record to the opened.
- A new Manual Transaction Entry ID must be entered in the Manual Transaction Entry ID edit box prior to selection of New;

OPEN

- The OPEN function button opens an existing Manual Transaction Entry record.
- The Manual Transaction Entry record to be opened must highlighted with a left click prior to the selection of Open;

CLOSE

- The CLOSE function button will close the Manual Transaction Entry List dialog box; and,

EXPORT

- The EXPORT function button will export all transaction that have not yet been exported and will ask if it is desired to delete ALL transactions from the Manual Entry Transaction List.
- If the response is YES, EXPORT will delete ALL transactions from the Manual Entry Transaction List.

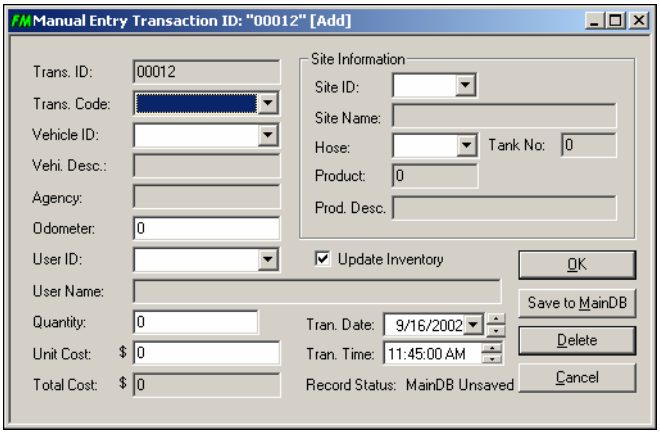

Fig 26.3

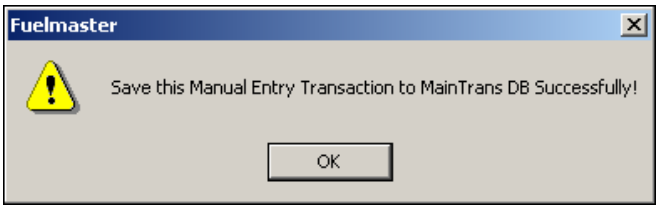

Fig 26.4

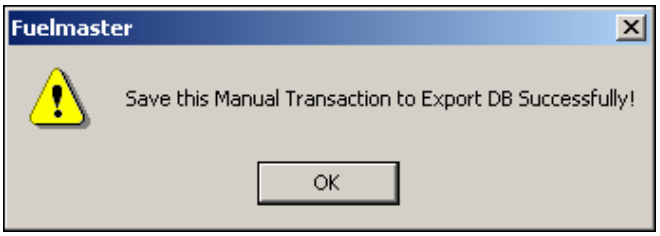

Fig 26.5

The Manual Transaction Entry ID dialog box **(Fig 26.3)** contains: four function buttons; ten information boxes; and, eleven edit boxes.

Function Buttons:

- ***NOTE:*** There are three databases, or lists of manually entered transactions:
  - Manual Entry List - the list of transactions as seen on the Manual Transaction Entry List dialog box and presented individually on the Manual Entry of Transaction dialog box;
  - Main Database - the list of all transactions including manually entered transactions in the main transaction database; and,
  - Export Database - the list of manually entered transactions in the export database.

SAVE TO MAIN DATABASE

- The Save to Main Database selection will save the information in the Manual Transaction Entry ID dialog box in the Main Database, the Export database, and in the Manual Entry List database. FUELMASTER® will revert back to the Manual Transaction Entry List dialog box.
- Click the Save to Main Database function button and FUELMASTER® will save the manually entered transaction to the Main Database, and will acknowledge this with a message box:
- Click OK and FUELMASTER® will save the manually entered transaction to the Export Database, and will acknowledge this with a message box:
- Click OK and FUELMASTER® will revert back to the Manual Transaction Entry List dialog box.

OK

- The OK selection will save the information on the Manual Transaction Entry ID dialog box in the Manual Entry List (i.e., a listing of the data appearing on the Manual Transaction Entry dialog box will appear on the Manual Transaction Entry List dialog box). FUELMASTER® will then revert back to the Manual Transaction Entry List dialog box.

DELETE

- The DELETE selection will delete all information presented on the Manual Transaction Entry ID dialog box, and FUELMASTER® will revert back to the Manual Transaction Entry List dialog box.

CANCEL

- The CANCEL selection will cause FUELMASTER® to revert back to the Manual Transaction Entry List dialog box without saving information found on the Manual Transaction Entry ID dialog box..

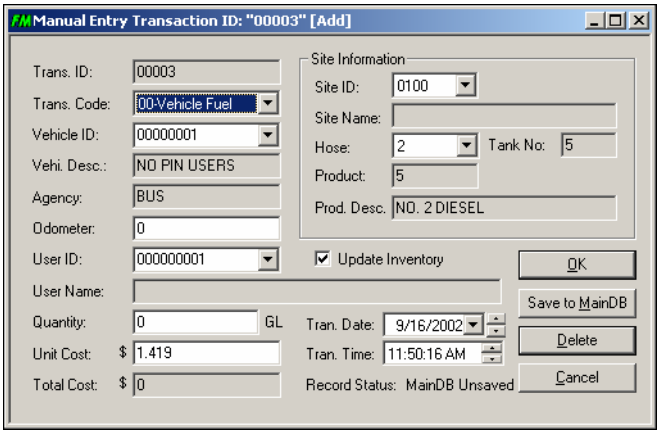

Fig 26.6

Edit Boxes:

TRANSACTION CODE

- The TRANSACTION CODE combo box is used to select the type transaction code for the fuel dispensed.
- The Transaction Code is selected from existing Transaction Codes that are hard coded into the FUELMASTER® program.
- Upon selecting the Transaction Code, FUELMASTER® will fill-in the Transaction Name Information box.

VEHICLE ID

- The VEHICLE ID combo box is used to select a Vehicle ID from the list of existing Vehicle IDs. Upon selecting the Vehicle ID, FUELMASTER® will fill-in the Vehicle Name and Agency Information boxes.

ODOMETER

- The 10-digit ODOMETER field is used to enter the vehicle's odometer reading at the time of the fueling transaction.

USER ID

- The USER ID combo box is used to select a User ID from the list of existing User IDs.
- Upon selection of the User ID, FUELMASTER® will fill-in the User Name Information Box.

SITE ID

- The SITE ID combo box is used to select a Site ID from the list of existing Site IDs.
- Upon selection the Site ID, FUELMASTER® will fill-in the Site Name Information Box.

HOSE

- The Hose number ID combo box is used to select a Hose number from the list of existing Hose numbers.
- Upon selection the Hose number, FUELMASTER® will fill-in the Tank Number, the Product and the Product Description Information Boxes.

QUANTITY

- The 15-digit QUANTITY field is used to enter the fuel quantity dispensed.

UNIT COST

- The 15-digit UNIT COST field is used to enter the cost per unit of the fuel dispensed (i.e., $/GL, etc.).

TOTAL COST

- The 15-digit TOTAL COST field is used to enter the total cost of the fuel dispensed.

TRANSACTION DATE

- The 8-digit numeric TRANSACTION DATE field (mm/dd/yyyy) is used to enter the date of the fueling transaction.
- The TRANSACTION DATE field has a default entry of the current date from the computer's clock.

TRANSACTION TIME

- The TRANSACTION TIME field is used to enter the time of the fueling transaction.
- Enter the time of the deliver in this as hh:mm:ss.
- Use military time.
- Example: 15:30:00 is 3:00:00 PM

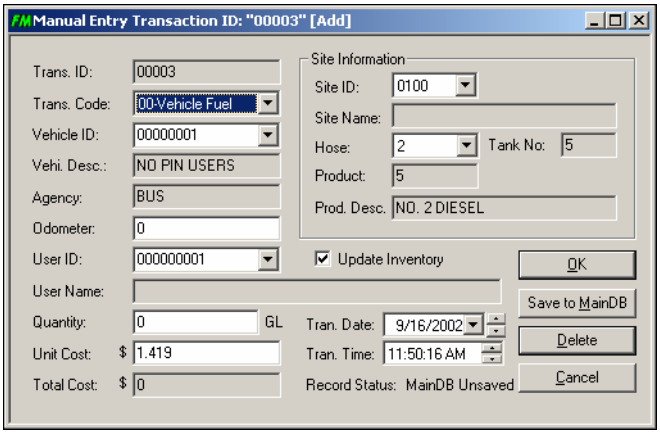

Fig 26.7

EXPORTED

- The EXPORTED information box displays the exported status of the manually entered transaction. “Exported” appearing in the Export information box indicates that the transaction has been added to the Export database.

TRANSACTION NUMBER

- The 5-digit TRANSACTION NUMBER field was entered via the Tables pull-down menu, Manual Transaction Entry, Transaction List dialog box, and the Transaction edit box. The FUELMASTER® program will fill the field when the NEW or OPEN function boxes are selected from the Transaction List dialog box.

TRANSACTION NAME

- The TRANSACTION NAME field is hard coded into the FUELMASTER® program.
- The FUELMASTER® program will fill the field when a Transaction Code selected from the Transaction Code combo box.

VEHICLE NAME

- The VEHICLE NAME field was entered via the Tables pull-down menu, Vehicle, Vehicle List dialog box, the Vehicle ID/General page, and the Vehicle Description edit box.
- The FUELMASTER® program will fill the field when a Vehicle ID is selected from those in the Vehicle ID combo box.

AGENCY

- The AGENCY field was entered via the Tables pull-down menu, Vehicle, Vehicle List dialog box, the Vehicle ID/Misc page, and the Agency edit box.
- The FUELMASTER® program will fill the field when a Vehicle ID is selected from those in the Vehicle ID combo box.

USER NAME

- The USER NAME field was entered via the Tables pull-down menu, User, User List dialog box, the User ID/General page, and the User name edit box.
- The FUELMASTER® program will fill the field when a User ID is selected from those in the Vehicle ID combo box.

SITE NAME

- The SITE NAME field was entered via the Tables pull-down menu; Site, Site List dialog box, the Site ID/General page, and the Site Name edit box.
- The FUELMASTER® program will fill the field when a Site ID is selected from those in the Site ID combo box.

PRODUCT

- The PRODUCT field was entered via the Tables pull-down menu; Product, Product List dialog box, and the Product ID edit box. The FUELMASTER® program will fill the field when both a Hose number is selected from those in the Hose combo box and a Site ID is selected form the Site ID combo box.

TANK NUMBER

- The TANK NUMBER field was entered via the Tables pull-down menu, Site, Site List dialog box, Site ID/Tank List page, and the Tank ID edit box.
- The FUELMASTER® program will fill the field when both a Hose number is selected from those in the Hose combo box and a Site ID is selected form the Site ID combo box.

PRODUCT DESCRIPTION

- The PRODUCT DESCRIPTION field was entered via the Tables pull-down menu; Product, Product List dialog box, Product ID dialog box, and the Product Description edit box.
- The FUELMASTER® program will fill the field when both a Hose number is selected from those in the Hose combo box and a Site ID is selected form the Site ID combo box.

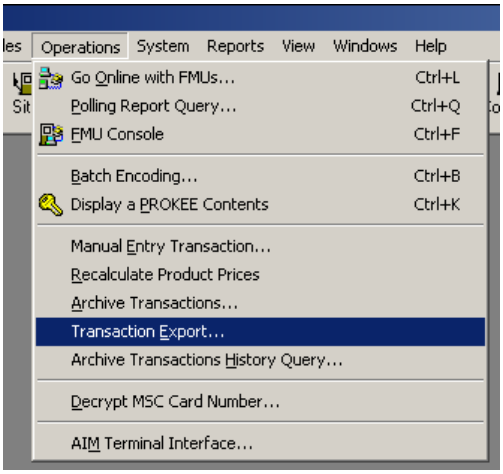

Fig 27.1

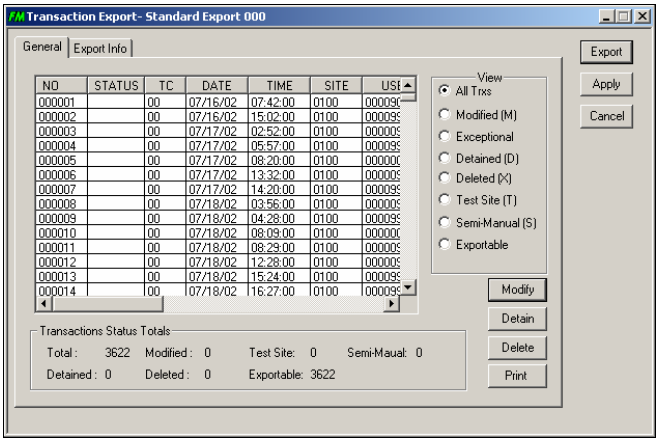

Fig 27.2

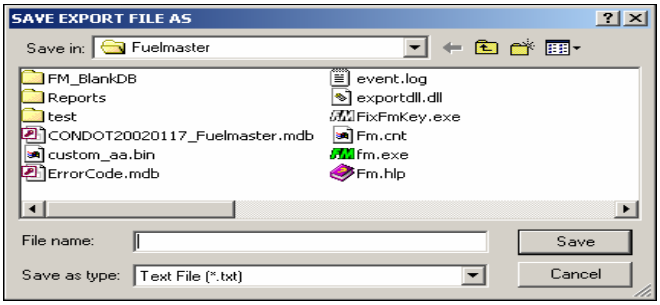

Fig 27.3

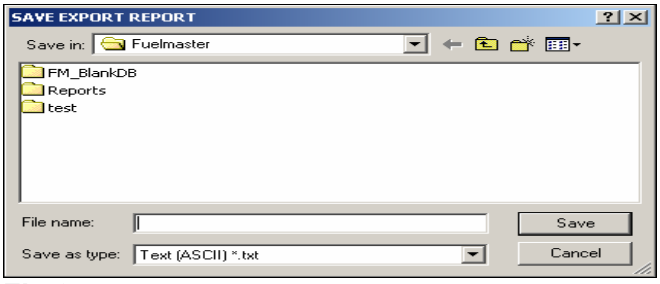

Fig 27.4

Chapter 27: Transaction Export

TRANSACTION EXPORT MENU – The TRANSACTION EXPORT MENU allows transaction to be modified and exported.

- Click the Operations pull-down menu:
- Click the Transaction Export selection in the Operations pull-down menu: **(Fig 27.1)**

The Transaction Export dialog box **(Fig 27.2)** contains three function buttons, and three tabs or property pages.

Function Buttons:

EXPORT

- The EXPORT function button will initiate TRANSACTION EXPORT of the selected Transaction Export items.
- When Export is selected FUELMASTER® will present a dialog box **(Fig 27.3)** so the name and address of the export file can be specified.
- Upon selection of Open, FUELMASTER® will present a dialog box **(Fig 27.4)** so the name and address of the export report file can be specified.
- Upon selection of Save, FUELMASTER® will export the selected transactions to the specified export file, save the export report to the specified report file, display the report file on the screen (if this option is selected), and sent the report to the printer (if this option is selected).

APPLY

- The APPLY function will cause changes to be incorporated.

CANCEL

- The CANCEL function button will close the Transaction Export dialog box without executing Transaction Export.

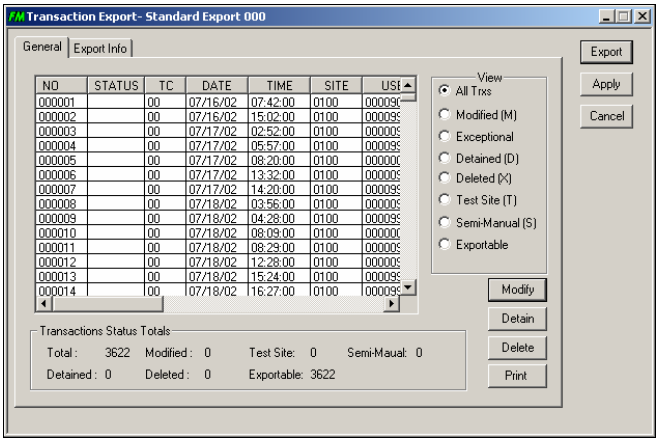

Fig 27.6

The General tabbed dialog box contains four function boxes, an information box, eight radio boxes, and a list box.

Information Box:

TRANSACTION STATUS

- The TRANSACTION STATUS information box contains general information about the transaction listed in the List Box. Included are; Total transactions, and the Numbers of Transactions Modified, Test Site, Semi-manual, Detained, Deleted, and Exportable.

Radio boxes: The selection of a radio box defines which transaction will be displayed in the List Box.

ALL TRANSACTIONS

- Selection of the ALL TRANSACTIONS Radio Button will cause all transactions to be displayed in the List Box.

MODIFIED

- Selection of the MODIFIED Radio Button will cause just transactions that have been modified to be displayed in the List Box.

EXCEPTIONAL

- Selection of the EXCEPTIONAL Radio Button will cause just all transactions that DO NOT have a Transaction Code of 00 to be displayed in the List Box. Definition: Exceptional – those transactions that DO NOT have a Transaction Code of “00”.

DETAINED

- Selection of the DETAINED Radio Button will cause just transactions that have been detained to be displayed in the List Box. Definition: Detained – these transactions will not be exported.

DELETED

- Selection of the DELETED Radio Button will cause just transactions that have been marked for Deletion to be displayed in the List Box.

TEST SITE

- Selection of the TEST SITE Radio Button will cause just transactions that have been retrieved from a test site to be displayed in the List Box. Definition: Test Site – A site, designate as a test site via the Test Site Page, used for practice. Transactions from a test or practice site CAN NOT be exported.

SEMI-MANUAL

- Selection of the SEMI-MANUAL Radio Button will cause just Semi-Manual transactions to be displayed in the List Box.

EXPORTABLE

- Selection of the EXPORTABLE Radio Button will cause just transactions that are exportable to be displayed in the List Box. Definition: Exportable – these transactions exclude Detained, Test Site, and Deleted transactions.

List box:

- List Box contains transaction information which includes: Transaction Number, Status, Transaction Code, Date, Time, Site Number, User ID, Vehicle ID, Odometer, Agency, Hose, Product, Quantity, Unit Cost and Total Cost.

Function Buttons:

MODIFY

- Selection of the MODIFY Button will cause the selected transaction information to be displayed in an Export – Modify Transaction dialog box. The displayed Transaction data may then be modified.

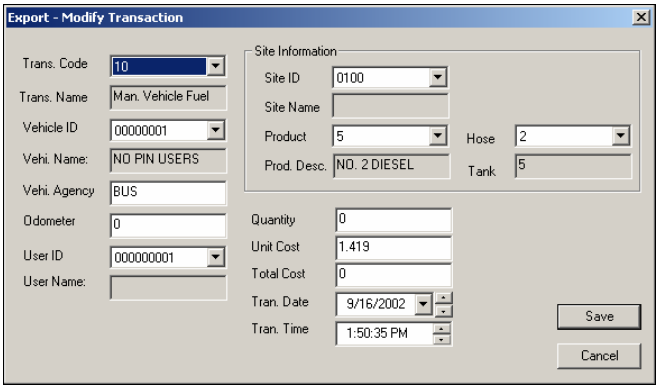

Fig 27.7

SAVE

- Selection of the SAVE Button will cause the modified transaction to be saved and FUELMASTER® will revert back to the Transaction Export dialog box.

DETAIN

- Selection of the DETAIN Button will cause the selected transaction's Status to be changed to Detained.
- With a Status of Detained the selected transaction CAN NOT be exported.

ADD

- Selection of the ADD Button will cause FUELMASTER® to display an empty Export – Modify Transaction dialog box.
- Transaction information can be entered into this dialog box.
- Upon selection of the Save Button the entered transaction will be added to the Transactions Export List.

DELETE

- Selection of the DELETE Button will cause FUELMASTER® to mark for deletion the selected transaction.
- Selecting a transaction already marked for deletion and then selecting the DELETE Button cause the selected transaction to no longer be marked for deletion.
- The transactions marked for deletion will be deleted when Export is selected.

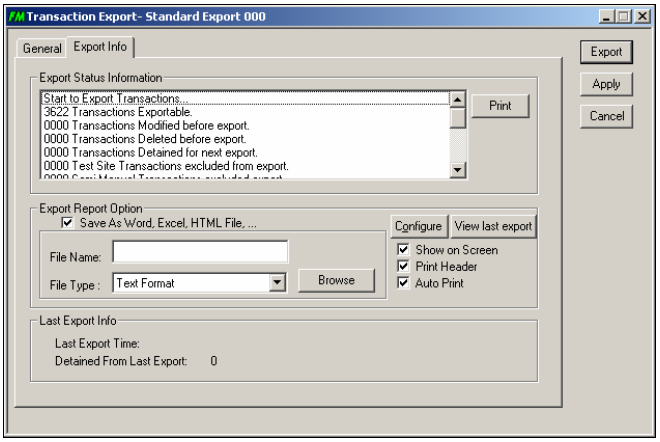

Fig 27.8

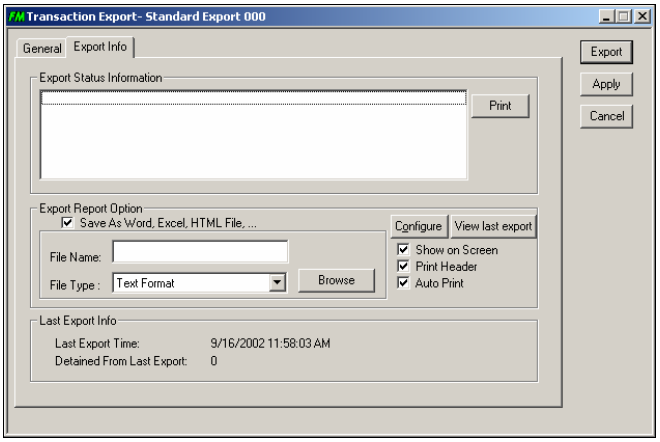

Fig 27.9

Click on the Export Info tab for the Export Information tab page:

The Export Info page contains an information box; four check boxes, two edit boxes, and a function button:

Information Box:

EXPORT STATUS INFORMATION

- After the Export option is selected. Information pertaining to the export of the selected transactions will be displayed in the Export Status information box.

Export Report Option:

- The Export Report Option allows the file type and its address to be pre-selected prior to initiating an export.

Check Boxes:

- Selection of the SAVE AS WORD, EXCEL, or HTML FILE Check Box will activate the Export Report Option.

SHOW ON SCREEN

- Selection of the SHOW ON SCREEN Check Box will cause the Export Report to be displayed on the screen.

PRINT HEADER

- Selection of the PRINT HEADER Check Box will cause a header to be added to the export report.
- The header information is entered into the database via the Configuration/Systems dialog box; edit boxes: name, Address1, Address2 and City, State, Zip.

AUTO PRINT

- Selection of the AUTO PRINT Box will cause the Export Report to be automatically be sent to the printer.

Edit Boxes:

File Name & File Type

- Allow a file type and a file name for the exported file to be designated prior to commencement of the export function.

Function Button:

BROWSE

- Will open a dialog to allow an address and a name to be selected for the exported file.

Last Export Information:

- The Last Export Information Box displays the time of the last export, and the number of transaction detained from the last export.

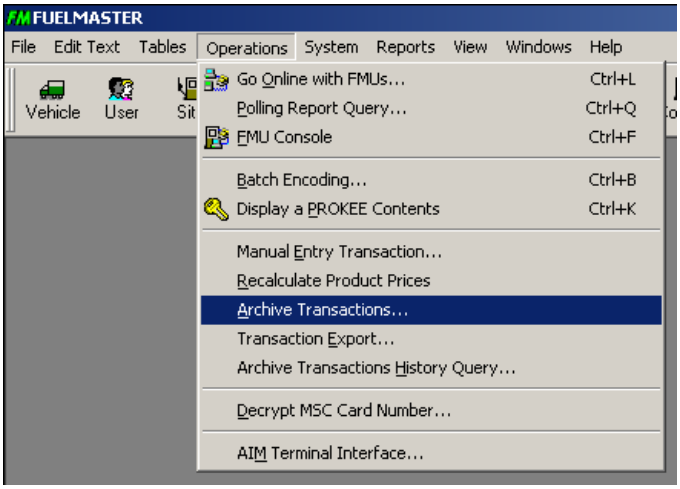

Fig 28.1

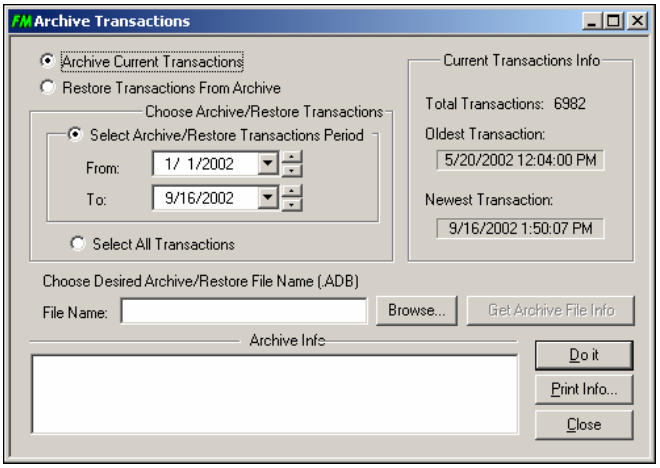

Fig 28.2

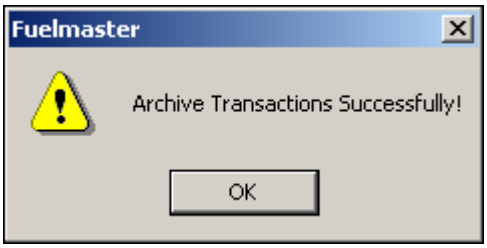

Fig 28.3

Chapter 28: Archive Transactions

The ARCHIVE TRANSACTION MENU allows transactions to be archived.

- Click the Operations pull-down menu: **(Fig 28.1)**
- Click the Archive Transaction selection in the Operations pull-down menu:

The Archive Transaction dialog box**(Fig 28.2)** contains three function buttons, four radio buttons, three edit boxes, and three information boxes.

Function Buttons:

OK

- The OK function button will initiate ARCHIVE TRANSACTION of the selected Archive Transaction items.
- If successful a confirmation box will appear letting you know the Archive was successful. **(Fig 28.3)**

PRINT INFORMATION

- Selection of the PRINT INFORMATION Button will send the Archive Information to the printer.

CANCEL

- The CANCEL function button will close the Archive Transaction dialog box without executing selected Archive Transaction.

Radio boxes:

ARCHIVE CURRENT TRANSACTIONS

- The ARCHIVE CURRENT TRANSACTIONS Radio Box selection defines the window's operation to be; Archive not Restore.

RESTORE TRANSACTIONS FROM ARCHIVE

- The RESTORE TRANSACTIONS FROM ARCHIVE Radio Box selection defines the window's operation to be; Restore not Archive.

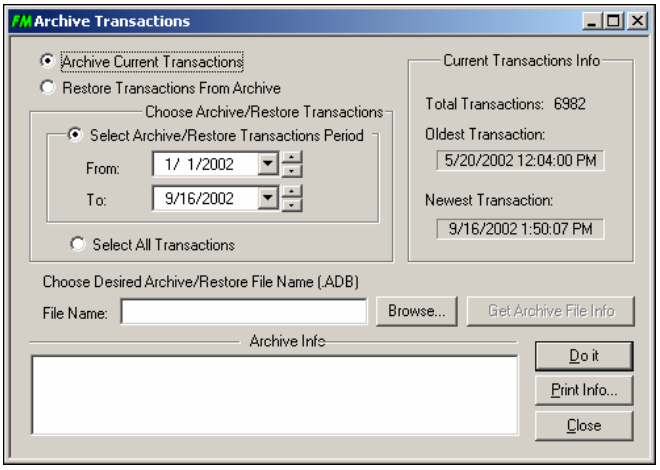

Fig 28.4

Archive Dialog Box cont'd **(Fig 28.4)**

SELECT ARCHIVE/RESTORE TRANSACTIONS PERIOD

- The SELECT ARCHIVE/RESTORE TRANSACTIONS PERIOD Radio Box selection defines the window's operation to be; select from a selectable date period versus selecting ALL TRANSACTIONS.

All Transactions

- The All Transactions Radio Box selection defines the window's operation to be; select all transactions versus selecting transaction from a selectable date period

Edit Boxes:

FROM & TO

- The From & To Edit Boxes allow a transaction from within a selectable period of time to be selected for archiving.
- To use these Edit Boxes, the Select Archive/Restore Transactions Period Radio Button must be selected.

CHOOSE DESIRED ARCHIVE/RESTORE FILE NAME (.ADB) - FILE NAME

FILE NAME

- Allows input of the name and address of the archived file. The Button with the ",,,," is the Browse Button (in camouflage).

Information Boxes:

ARCHIVE INFORMATION

- The ARCHIVE INFO Information Box will display information associated with the archiving of transactions.

CURRENT TRANSACTION INFO

- Total Transactions, Oldest Transactions, and Latest Transactions information is displayed in the Current Transaction Info Information Box.

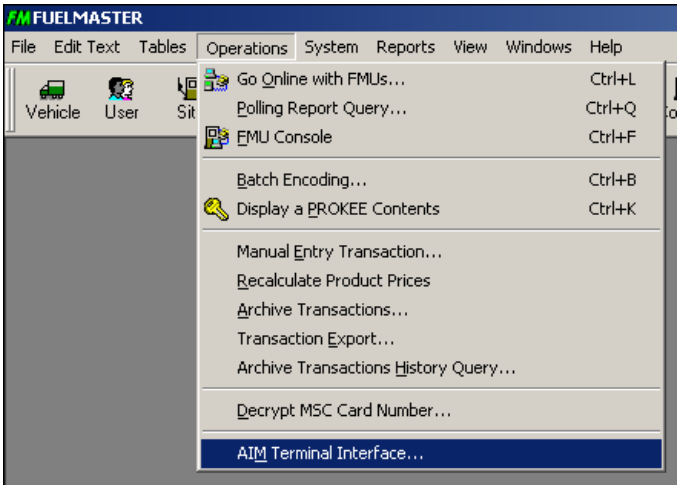

Fig 29.1

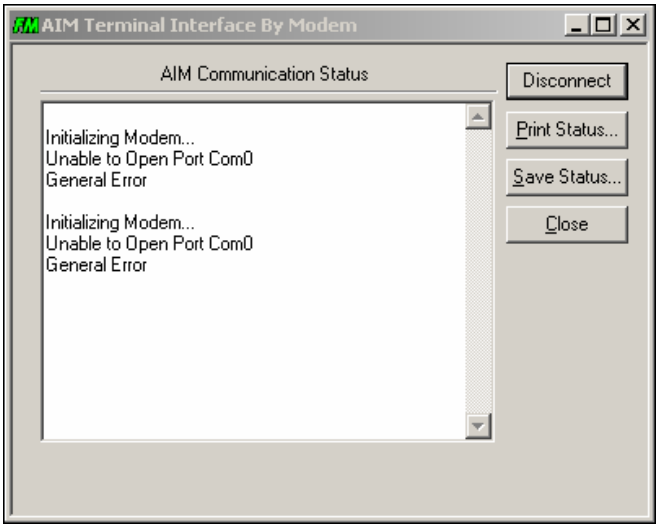

Fig 29.2

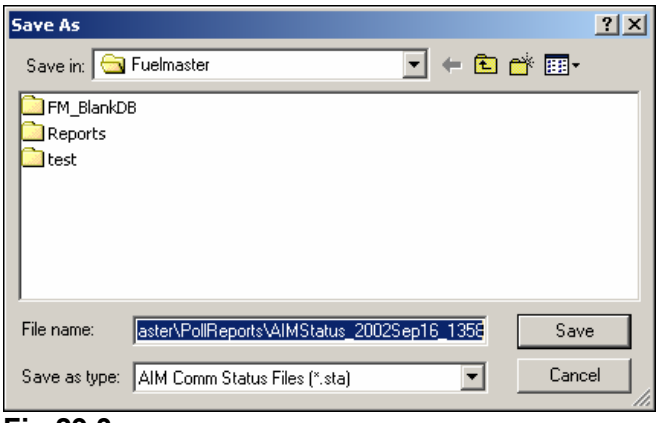

Fig 29.3

Chapter 29: AIM Terminal Interface

The AIM Terminal Interface Menu directs the PC to wait for a telephone call from a Psion Workabout™.

- Click the Operations pull-down menu:**(Fig 29.1)**
- Click the AIM Terminal Interface selection in the Operations pull-down menu:

The AIM Terminal Interface dialog box **(Fig 29.2)**contains four function buttons, and an information box.

Upon selection FUELMASTER® will initialize the modem and wait for an incoming call from a Psion Workabout™.

Function Buttons:

DISCONNECT

- The Disconnect selection will release the modem for other uses and FUELMASTER® will no longer look for an incoming call.

PRINT STATUS

- The Print Status selection will print the information displayed in the information box.

SAVE STATUS

- The Save Status selection will save the status information to a file.
- Upon selection of Save Status FUELMASTER® will display a Save As **(Fig 29.3)** dialog box where the file name and directory may be selected.

CLOSE

- The Close selection will become active after the Disconnect function has been selected, and it will cause FUELMASTER® to exit the AIM Terminal Interface function.

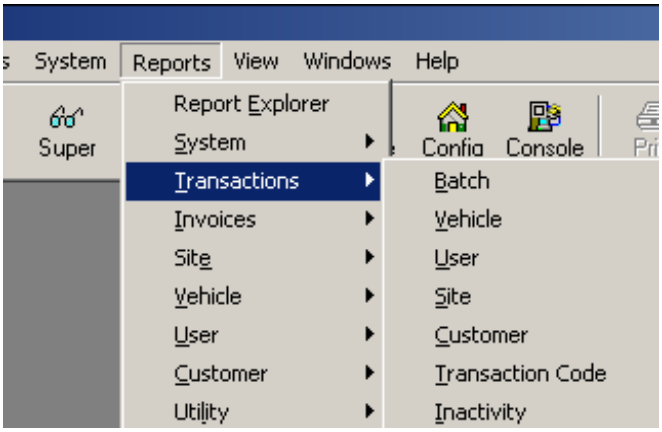

Fig 30.1

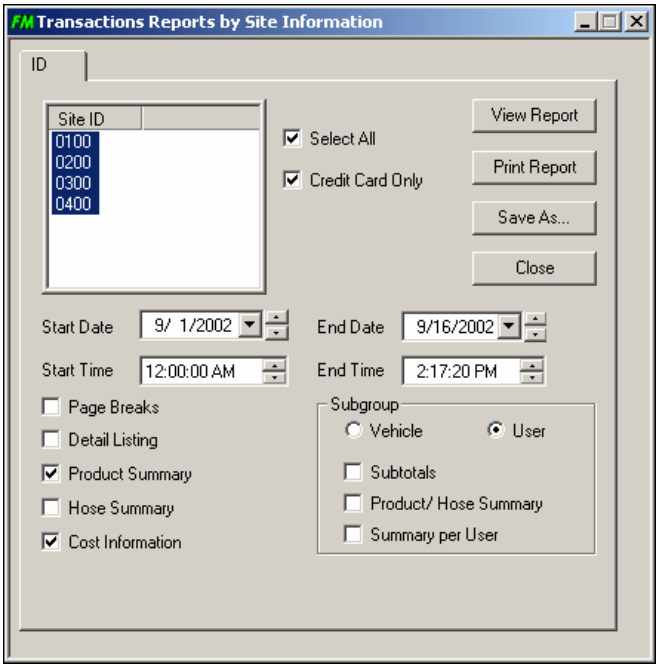

Fig 30.3

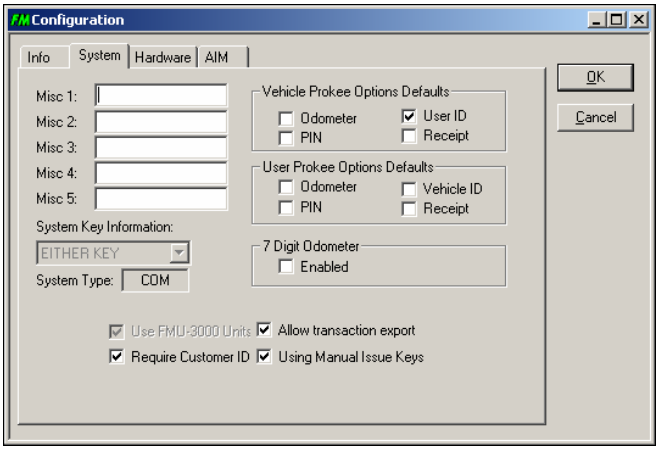

Fig 30.4

Chapter 30: Reports Menus

The REPORTS MENUS allows the generation and printing of reports.

- Click the Reports pull-down menu: **(Fig 30.1)**
- Eight categories of reports are available:

○ System ○ Transactions ○ Invoices ○ Site	○ Vehicle ○ User ○ Customer ○ Utility

- Within each of the eight categories are subcategories.
- Some such as System and Customer have only one subcategory and other such as Transactions have six subcategories.
- There are twenty-five subcategories of reports to select from.
- Click on any Reports subcategory, of the twenty-five available in the Reports pull-down menu to bring up a Reports dialog box. **(Fig 30.1)**

Example:

- The Transactions Report by Site Information has one tab page, ID.
- Others such as Transaction Reports by Vehicle Information have four tab pages, ID, Agency, Organization and Usage plus tab pages corresponding to the Miscellaneous Fields list in titled Configuration dialog box. **(Fig 30.4)**
- In this example Tag Number, Off-road, Construction, Temporary, and On-loan.
- Those Miscellaneous fields left blank in the Configuration dialog box will not appear as tabbed pages.

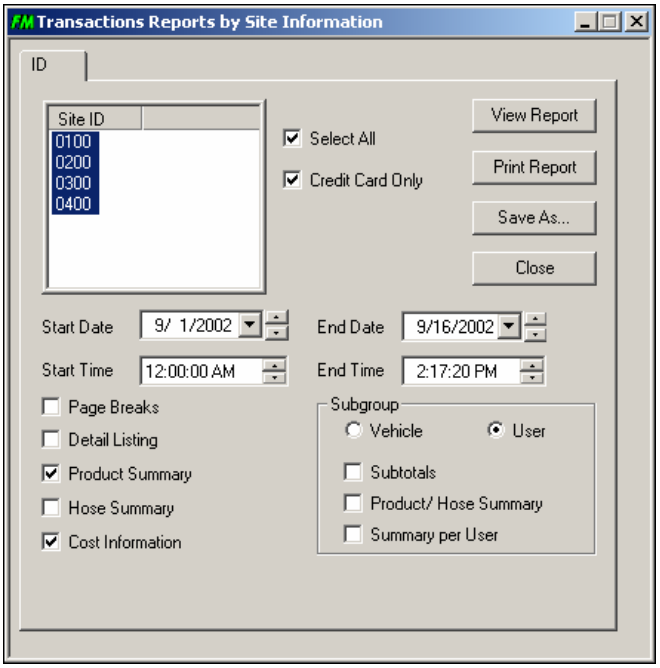

Fig 30.5

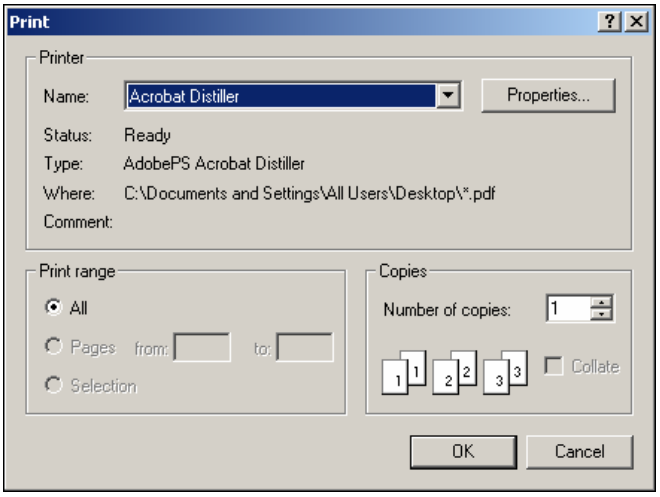

Fig 30.6

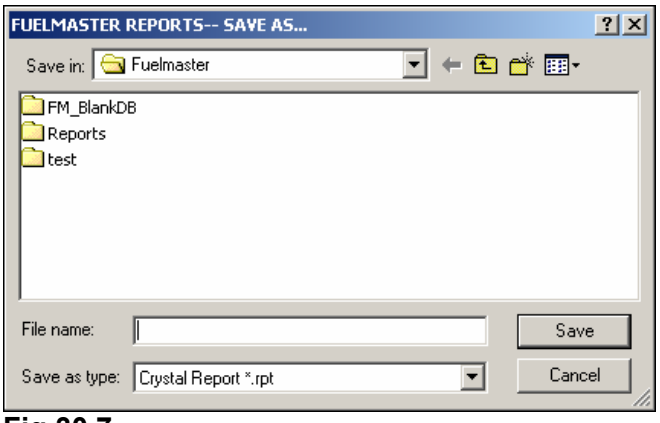

Fig 30.7

The typical property page **(Fig 30.5)** contains four function boxes, eight check boxes, two radio boxes, a list box, and four edit boxes.

VIEW
- The VIEW function button will allow a selected report to be viewed.

PRINT
- The PRINT function button will send the selected report to the printer without displaying the report on screen. **(Fig 30.6)**

SAVE AS….
- The SAVE AS…. function button allows reports to be saved to files. **(Fig 30.7)**
- The name, directory, and type of file are selectable via the SAVE AS…. function button.

CANCEL
- The CANCEL function button will close the System Activity Report dialog box.

LIST ALL
- A check in the LIST ALL check box will cause all selections in the Site list box to be highlighted.
- This will cause all site listings to be Viewed, Printed or Saved As…, depending of the selection.

CREDIT CARD ONLY
- Selection of the CREDIT CARD ONLY check box will cause only credit card transaction to appear in the Site ID list box.

PAGE BREAKS
- Selection of the PAGE BREAKS check box will cause page breaks to be inserted in the printed reports.

DETAIL LISTING
- Selection of the DETAIL LISTING check box will cause individual listing of the details of each transaction.
- If DETAIL LISTING is not selected only the overall totals will be listed in the summaries.

PRODUCT SUMMARY
- Selection of the PRODUCT SUMMARY check box will cause product usage to be summarized at the end of each report.

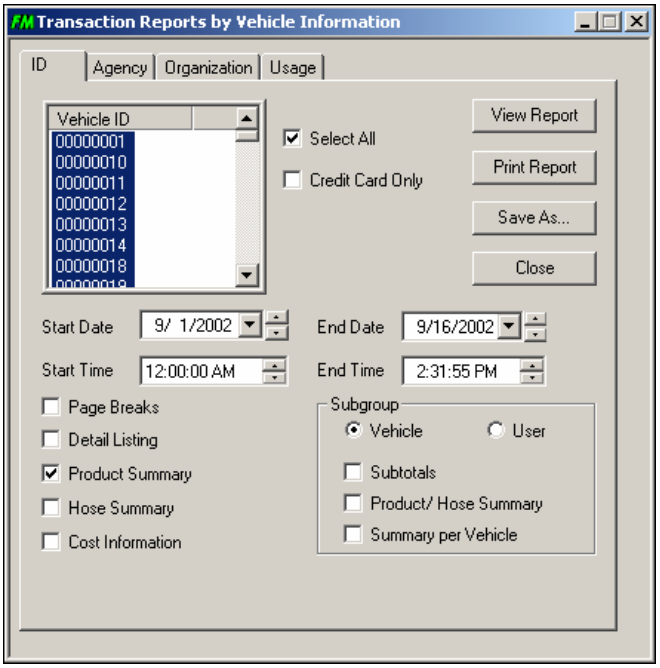

Fig 30.8

HOSE SUMMARY

- Selection of the HOSE SUMMARY check box will cause hose usage to be summarized at the end of each report.

COST INFORMATION

- Selection of the COST INFORMATION check box will cause cost information to be listed both individually and summarized with each report.

SUBTOTALS

- When subgroups of vehicles or users are selected, selection of the SUBTOTALS check box will cause product usage to be summarized for each selected subgroup.

PRODUCT/HOSE SUMMARY

- When subgroups of vehicles or users are selected, selection of the PRODUCTS/HOSE SUMMARY check box will cause product and hose usage to be summarized for each selected subgroup.

SITE

- The SITE list box contains a list of the sites meeting selected criteria.
- The site ID checked will be Viewed, Printed or Saved As…, depending of the selection. Individual sites may be highlighted or they all may be highlighted via the LIST ALL check box.

START DATE

- The START DATE defines the initial date that will be included in the report.
- Highlighting portions of the date and typing in new numbers will change the date or the larger down arrow will bring up a calendar as shown below and the date may be selected from the calendar.
- Additionally, the date may be raised or lowered via the smaller up/down arrows adjacent the edit box.

START TIME

- The START TIME defines the initial time that will be included in the report.
- Highlighting portions of the time and typing in new numbers will change the time or the time may be raised or lowered via the up/down arrows adjacent the edit box.

END DATE

- The END DATE defines the ending date that will be included in the report.
- Highlighting portions of the date and typing in new numbers will change the date or the larger down arrow will bring up a calendar as shown below and the date may be selected from the calendar.
- Additionally, the date may be raised or lowered via the smaller up/down arrows adjacent the edit box.

END TIME

- The END TIME defines the ending time that will be included in the report.
- Highlighting portions of the time and typing in new numbers will change the time or the time may be raised or lowered via the up/down arrows adjacent the edit box.

Radio boxes:

- The Radio Boxes, VEHICLE and USER, are used when it is desired to break up a report into subgroups.
- The subgroups being VEHICLES and USERS.
- Once selected, reports usage information may be further defined via the SUBTOTALS and PRODUCT/HOSE SUMMARY Check Boxes.

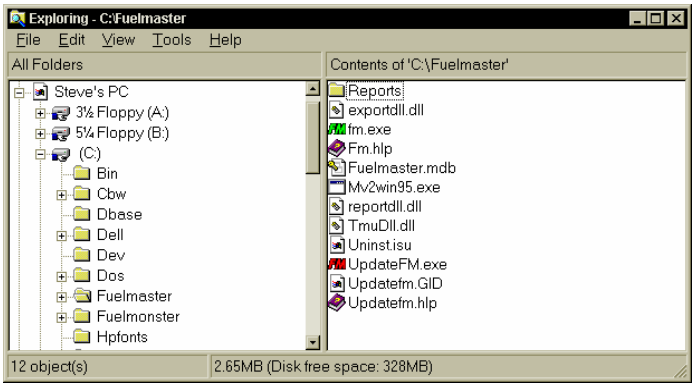

Fig 31.1

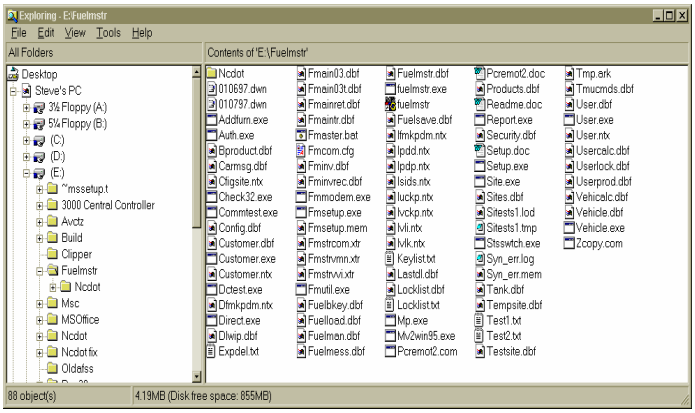

Fig 31.2

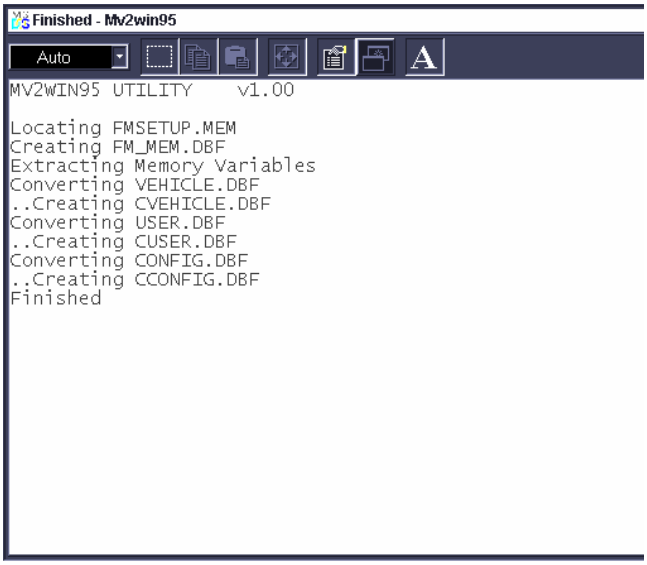

Fig 31.3

Chapter 31: DOS Database Conversion

The DOS DATABASE CONVERSION selection will convert older FUELMASTER® DOS/Dbase III files to the new Microsoft Access format.

CAUTION: Make a backup of all *.dbf files prior to proceeding.

1) Exit FUELMASTER®.
2) Click Start on the Taskbar, and start Windows Explorer.
3) Move to the c:\fuelmaster directory.
4) Copy Mv2win95.exe to the directory which contains the old FUELMASTER® *.dbf files.
    a. In this example, the old FUELMASTER® *.dbf files are in the e:\fuelmaster directory.
5) In the old FUELMASTER® *.dbf files directory, Double Click Mv2win95.exe. Mv2win95.exe will open a DOS window and convert existing *.dbf files.
6) Click the DOS window Close box (the “X”).

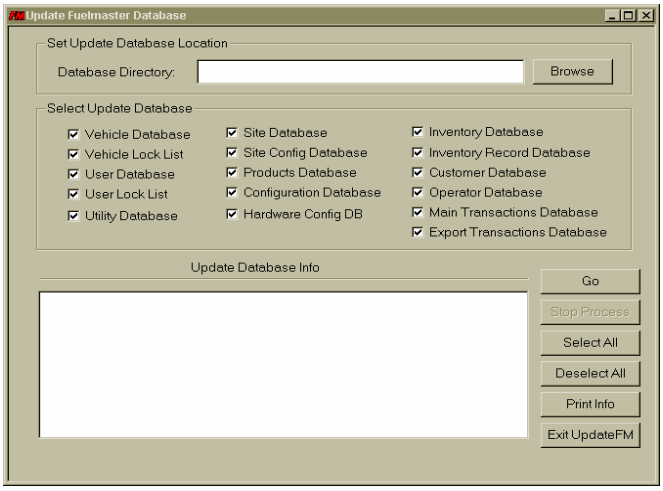

Fig 31.4

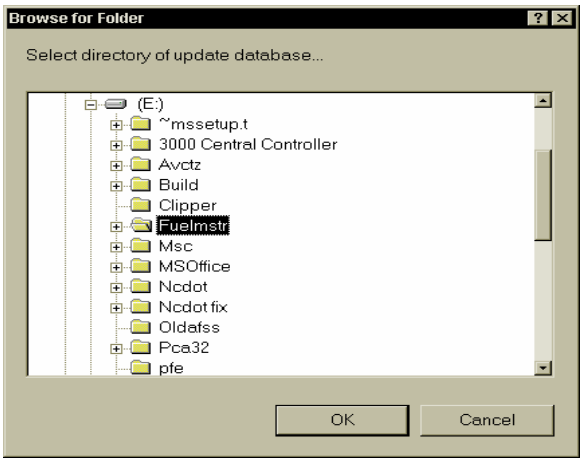

Fig 31.5

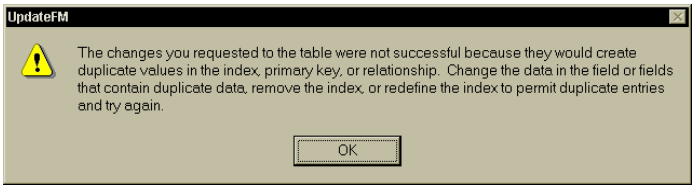

Fig 31.6

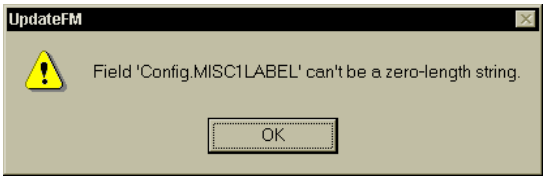

Fig 31.7

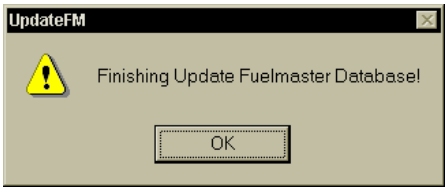

Fig 31.8

7. In the c:\fuelmaster directory, Double Click UpDateFM.exe. UpDateFM.exe will present an Update FUELMASTER® Database dialog box. **(Fig 31.4)**
8. Click Browse and a Browse for Folder dialog will be presented. **(Fig 31.5)**
9. Highlight the directory containing the old FUELMASTER® *.dbf files and the converted *.dbf files.
10. In this example the *.dbf files are in the e:\Fuelmstr directory.
11. Click OK.
12. Click Select ALL and Click GO.
    a. UpDateFM.exe will execute the transfer of data from the converted FUELMASTER® *.dbf files to the c:\fuelmaster\fuelmaster.mdb database.
    b. UpDateFM.exe will display the progress of the data transfer in the UpDate Database Info Information Box.
    c. If data CANNOT be transferred, message dialog boxes will be presented.
    d. UpDateFM.exe will NOT generate duplicate files. **(Fig 31.6)**
    e. UpDateFM.exe will NOT enter data in files which have a format difference.**(Fig 31.7)**
13. When the conversion is complete **(Fig 31.8)** Click OK to proceed.
14. On the UpDate FUELMASTER® Database dialog Box Click Print Info.
    a. The printed file will provide a record of what happened in the conversion process. Things which were NOT transferred can also be identified.

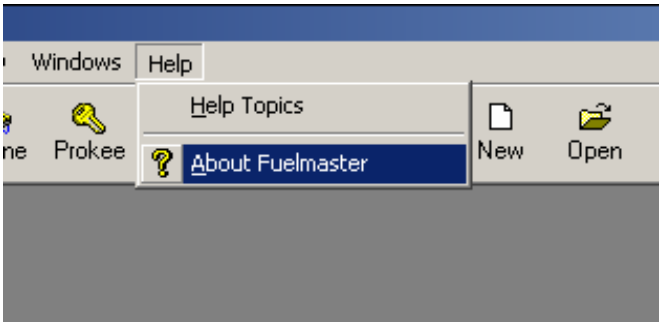

Fig 32.1

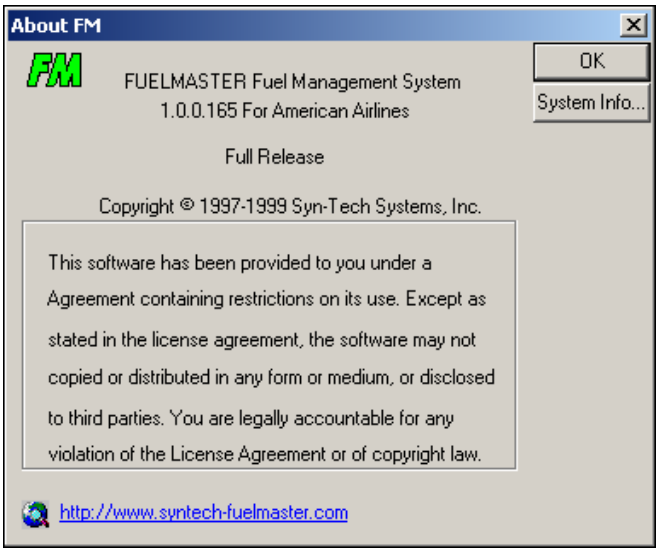

Fig 32.2

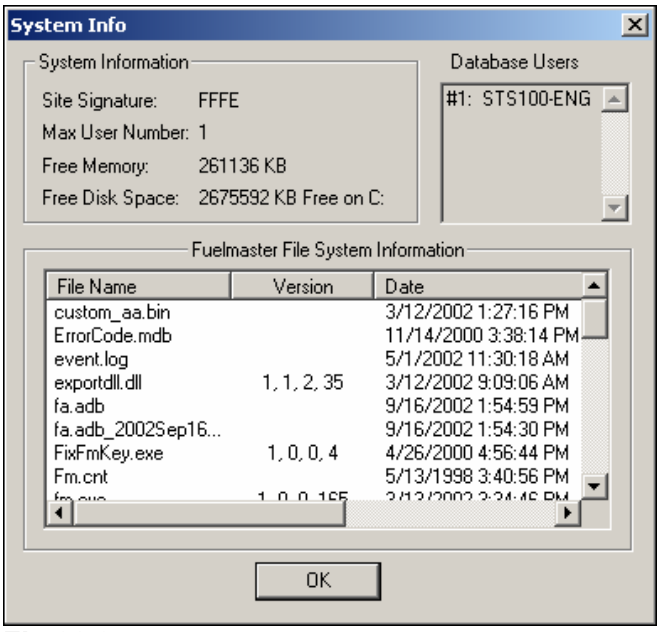

Fig 32.3

Chapter 32: System Info

The SYSTEM INFO section provides the use access to general information about the FUELMASTER® software product.

- Click the Help pull-down menu:**(Fig 32.1)**
- Click the About Fuelmaster® selection in the Help pull-down menu:

Click the System Info button on the About FM dialog box **(Fig 32.2)** and information about the FUELMASTER® software package and supporting files will be displayed in a System Info dialog box.**(Fig 32.3)**

Appendix A
GLOSSARY

ADJ: Adjust

Agency (User Record): Code identifying the agency the user belongs to; up to seven alphanumeric characters (lower level than Department).

Agency (Vehicle Record): Code identifying the agency the vehicle belongs to; up to five alphanumeric characters (higher level than Organization).

Automotive Information Module (AIM): The FUELMASTER® 3000 System component mounted in a vehicle. It contains vehicle peculiar information, captures vehicle odometer information, interrogated dispenser-nozzle mounted RF/ID Tags, and transmits this information to and FMU.

Allotment: Amount allowed.

Archive: Procedure for removing selected database file information to another file; may also be transferred to a diskette (not the same as the DOS command "Archive").

Arrow keys: Keys with up, down, left, and right arrows on PC keyboard; used to move cursor.

Automated: Transactions are recorded by FMU, and the Central Controller can download stored transaction data.

Boot: DOS action; resets computer. "Hot" boot can be initiated by simultaneously depressing CTRL, ALT, and DEL keys or, on some computers, by depressing RESET button. "Cold" boot initiated by turning off, then turning on computer.

Central Accounting Office: Location of Central Controller.

Central Controller: An IBM-compatible PC set-up for operation of the FUELMASTER® software.

CHRON (or CHRONO): Chronometer

Configuration (CONFIG): Process by which an FMU or Central Control is programmed for specific applications. The FMU may be configured at The FMU with the Supervisor Key or at Central Controller by an operator with a supervisor password; the Central Controller may only be configured by an operator with a supervisor password.

COST1: One of eight cost levels (COST1 through COST8); cost per unit for a specific product.

CNG: Compressed natural gas

Commercial (COMM or COM): Standard operating program for FMU and Central Controller; User ID number is not verified, only recorded. COM program in Central Controller can be identified by COM v### in upper right corner of each menu screen display.

Customer: Outside user not entered in vehicle or user database; entered in customer database.

Customer ID: Up to nine alphanumeric characters entered to identify a specific customer.

D (connection): Direct connect

Database(s): File(s) stored in the Central Controller with vehicle, user, customer, or site information. Database information is unique for every system, and entered by the Central Controller operator.

Deauthorize: Removes vehicle/user/customer authorization to access dispenser with PROKEE, but maintains vehicle/user/customer record in database (see also Delete).

Dec: Decrease

Delete (vehicle/user/customer/site). Deletes vehicle/user/customer/site record from database (see also Deauthorize).

Department (User Record): Code identifying the department the user belongs to; up to six alphanumeric characters (higher level than Agency).

Direct connect: FMU and Central Controller are tied together by a hard wire link. Only one MFMU may be direct connected to a Central Controller.

Dispenser: Fuel or oil dispensing unit located on a service island and possessing one or more dispensing hoses.

Div/Ratio: Setting (1**:**1 - 9999**:**1) programmed into the FMU that determines the number of pulses required to count one product unit (i.e., 10**:**1 pulser produces 10 pulses for every unit).

Either Key: Describes an operation requiring use of either a vehicle key or a user key to access an FMU

Encoding: Process by which information is transferred to memory in a PROKEE.

Enter or <ENTER>: "Enter" key on PC keyboard

EQ: Equipment

Esc or <ESC>: "Escape" key on PC keyboard

Exit: Leave displayed menu to next higher menu, or when in main menu, to leave operating program.

Export: Procedure for transferring transaction database data to an ASCII file. Exported transaction data is removed from transaction database.

Fixed site (F site): Site with one or more ground-mounted FMUs.

FuelMaster®: Registered name of the Syn-Tech Systems, Inc., Fuel Management System.

Fuel Management Software: Software program loaded into Central Controller hard drive to develop the Central Controller operating program.

Fuel Management Unit (FMU): System component located on service island that receives key inputs and activates dispensers. Performs other functions dependent upon whether FMU is a Master or a Satellite (See MFMU and SFMU).

Function Key: Keys on PC keyboard preceded with "F" (i.e., F1, F2, F3, etc.); sometimes referred to as "hot key".

GL: Gallon

hh:mm: Hours, minutes (2-digits each)

hhmmss: Hours, minutes, seconds (2-digits each)

Hose: Dispensing hose on dispenser.

ID: Identifier

Inc: Increase

Inventory: Quantity of product in a storage tank at any given time.

Julian Date Rollover Hour: Hour of day (0-24) programmed into the FMU that determines when the next accounting day begins.

Key: PROKEE®.

Key ID: Up to 8 alphanumeric characters entered to identify a specific vehicle. If Manual Issue option is selected in Central Controller configuration, Key ID will be numbers (same as Vehicle ID).

Hot-Key: Function key (F1, F2, etc.) on PC keyboard which selects a display of information peculiar to each menu accessed.

LCD: Liquid crystal display

Main Menu: First menu that appears when an authorized operator accesses the Central Controller operating program.

Manual Issue Key: Utility PROKEE® developed to issue products to non-key holders; contains no restrictions on product types or quantities.

Master Fuel Management Unit (MFMU)**:** System component located on service island that receives key inputs, activates dispensers, and communicates with SFMU(s) and Central Controller.

MAX: Maximum

Megabyte: One million bits of information.

Message Duration Time Out: Time limit (1-10 seconds) programmed into the FMU that determines the length of time some messages are displayed on the LCD. Does not apply to all messages/displays.

Military time: Based on a 24-hour clock (i.e., midnight is 0000, noon is 1200, 1:00 P.M. is 1300, 6:00 P.M. is 1800, etc.)

MISC: Miscellaneous

mmddyy: Month, day, year (2-digits each)

Mobile Automated Site (M site): Mobile tanker trucks equipped with FMU for recording transaction data, and can download transaction data to a communication station.

Mobile Non-Automated Site (L site): Mobile tanker trucks not equipped with an FMU. All transaction data is manually recorded for later manual entry into an FMU.

Modem Answer Beginning Hour: Hour of day (0-24) programmed into an MFMU that allows communications with the Central Controller to begin.

Modem Answer Ending Hour: Hour of day (0-24) programmed into an MFMU that terminates communications with the Central Controller.

Modem connection (M): FMU and Central Controller are tied together with telephone lines. FMU and Central Controller have modems for sending/receiving information through telephone lines. Any number of MFMUs may be modem connected to a Central Controller.

N: No

N (connection): No communication link

No-Pulse Timeout Setting: (5-255 seconds) programmed into the FMU that determines when a transaction is terminated if a product is not dispensed after a dispenser hose is activated.

ODOM: Odometer

Operator: An individual who performs the task.

Organization (Vehicle Record): Code identifying the organization the vehicle belongs to; up to three alphanumeric characters (lower level than Agency).

Owner: An individual, group of individuals, or organization possessing ownership and final authority.

Password: Up to eight alphanumeric characters that must be entered to gain access to the FUELMASTER® program after installation; both Supervisor and Operator passwords are used. Only one password is needed to access the program, but a Supervisor password is needed to change passwords.

PC: IBM-compatible personal computer

PH: Pump handle

PIN: Personal identification number

PM: Preventive maintenance

Product (PROD): Substance dispensed, or to be dispensed, from a dispenser hose.

Program: Action or device from which computer memory is filled, or revised.

PROKEE®: Registered trade name for access keys to the FMUs that come in three types: Vehicle, Lube Truck, and Supervisor.

Pulser: Dispenser device that transmits cost and volume of product dispensed to FMU.

Pump: Dispenser.

Pump Finish Time Out: Time period (5-255 seconds) programmed into the FMU that determines when a dispenser hose is automatically turned off after product dispensing.

Pump Handle: Switch located on dispenser; also referred to as Pump Reset Switch. Setting in FMU configuration which tells FMU when to look for pulses; if Y set, pump handle switch must be activated before FMU looks for pulses.

QT: Quart

QTY: Quantity

Query: Procedure for using Central Controller to review (or print) transaction data stored in FMU; does not remove transaction data from FMU, nor

upload transaction data into Central Controller database.

Receipt printer: Optional device added to FMU that prints a receipt for users after dispensing transactions.

Records: Collection of data peculiar to a specific vehicle, user, customer, or site.

Re-Encode: Procedure for encoding a re-issued key.

Re-Issue: Procedure for re-authorizing a key record that was previously deauthorized because the key was lost or stolen. Permits a key to be encoded with all the same key record information without authorizing use of previously issued lost/stolen key.

Restore: Procedure for returning archived data to a database (not the same as the DOS command "Restore").

Satellite Fuel Management Unit (SFMU): System component located on service island that receives key inputs, activates dispensers, and relays transaction data through the MFMU(s).

Service Island: Location where FMUs and dispensers are positioned for easy access by a vehicle.

Servicing Site: Term to describe the location of the service island(s) and station house.

Supervisor Key: Utility PROKEE® developed for use by a supervisor to configure FMUs, perform servicing site troubleshooting and system diagnostic tests, to issue products to non-key holders, to update product quantity in FMU memory, and to extract on-site reports

STS: Default password provided with new FuelMaster® Central Controller software; also abbreviation for Syn-Tech Systems, Inc.

Syn-Tech: Syn-Tech Systems, Incorporated

Tanker Truck Key: Utility PROKEE® developed for use by a mobile tanker truck driver to fill a tanker truck from an FMU-controlled dispenser

Tanker Truck: Truck with fuel storage tank for taking fuel to remote fueling locations; may be automated with attached FMU, or non-automated and require manual entry of each transaction.

TMU: Tank Monitor Unit.

Transaction: Action that updates FMU memory either as the result of product dispensing or through manual entry of information.

Transaction Code (TC): 2-digit code used to distinguish types of transactions.

Two key: Describes operation requiring use of both a vehicle key and user key to access an FMU

Units: Unit of measure for products; designated by two letters (i.e., GL for gallons, QT for quarts, etc.).

User ID: Up to 9 alphanumeric characters entered to identify a specific user. If Manual Issue option is selected in Central Controller configuration, User ID must be numbers.

User key: PROKEE® assigned to a User.

Utility Key: A Supervisor, a Manual Issue, or a Tanker Truck key.

Valid Key Time Out: Time limit (5-255 seconds) programmed into the FMU for terminating a transaction if a dispenser hose is not selected after PROKEE® insertion.

Vehicle Key: PROKEE® assigned to a vehicle and used to obtain product from a dispenser hose through an FMU.

Vehicle ID: Up to 8 alphanumeric characters entered to identify a specific vehicle. If Manual Issue option is selected in Central Controller configuration, Vehicle ID must be numbers (same as Key ID).

Verifiable Miscellaneous Number (VMN): Optional operating program for FMU and Central Controller; when User ID number is entered, authorization list in FMU is checked to confirm the user is authorized. VMN program in Central Controller can be identified by VMN v### in upper right corner of each menu screen display.

Work*about*™: The FUELMASTER® 3000 system component used to program an AIM – a hand held computer.

Y: Yes

Zero Quantity Shutdown No: Setting (1-50) programmed into the FMU that determines the number of zero-quantity transactions that may be recorded before terminating a dispenser hose's product dispensing capabilities. Feature prevents continued use of system if FMU is not recording transaction information (i.e., defective pulser).