TLS-PC

User Guide

VEEDER-ROOT

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Veeder-Root TLS-PC™ Software
Warranty Registration Card

To initiate a one year warranty on your TLS-PC software, be sure to complete this information and return to Veeder-Root. The form must be returned within 14 days of installation.

TLS-PC Software Version*: ＿＿＿＿＿＿＿＿＿   Date of Installation: ＿＿＿＿＿＿＿＿

TLS-PC Software Serial No.*: | *Affix serial no. sticker here* |

Installation Address: Contact Person (print):

＿＿＿＿＿＿＿＿＿＿＿＿＿＿   ＿＿＿＿＿＿＿＿＿＿＿＿＿
                                                              Signature:

＿＿＿＿＿＿＿＿＿＿＿＿＿＿   ＿＿＿＿＿＿＿＿＿＿＿＿＿
                                                              Title:

＿＿＿＿＿＿＿＿＿＿＿＿＿＿   ＿＿＿＿＿＿＿＿＿＿＿＿＿

＿＿＿＿＿＿＿＿＿＿＿＿＿＿

Please include your zip code or postal code and country.

After filling in your name, etc., remove card at perforation and mail.

TLS-PC Software Version*: ＿＿＿＿＿＿＿＿＿   Date of Installation: ＿＿＿＿＿＿＿＿

TLS-PC Software Serial No.*: | *Affix serial no. sticker here* |

*The software version number and serial number are printed on the disk label.
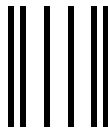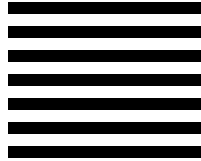
BUSINESS REPLY MAIL
FIRST CLASS MAIL   PERMIT NO. 4   ALTOONA, PA

POSTAGE WILL BE PAID BY THE ADDRESSEE

**ATTN CUSTOMER SERVICE DEPARTMENT
VEEDER ROOT CO
PO BOX 1673
ALTOONA PA 16603-9955**

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Technical Support (for Authorized Contractors only)	
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Overview

Veeder-Root's TLS-PC is a Microsoft® Windows® based application that allows you to monitor an operating TLS-300-PC (or TLS-300, TLS-350-PC (or TLS-350), TLS-350R-PC (or TLS-350R) Console (hereinafter called TLS Console), from an IBM® PC or compatible computer (hereinafter called PC) .

The TLS-PC software periodically polls the TLS Console and uses various system setup parameters to display a graphical representation of your station's tanks and related information. Polled data is also available in various on-screen reports. TLS Console alarms are monitored and when an alarm is detected, the TLS-PC triggers both audible and visual indicators.

Printouts of TLS-PC generated reports can easily be made on your existing office printer with a few clicks of the mouse. Also, you can choose to print any report to file for storage on your hard drive or a floppy disk.

Within the TLS Console Mode, you can reset the TLS Console's previously entered System Setup parameters.

Hardware and Software Requirements

To run TLS-PC software, your computer must have; an available serial port, a 486/33 or greater microprocessor, 4 megabytes of RAM, 2.5 megabytes of hard drive space, MS DOS 5.0 or later, and Microsoft Windows 3.1 or later. Your PC must be connected via an RS232 null-modem cable, or short-haul modem to the TLS Console. (Your Veeder-Root service contractor will select the proper interconnection method.) A printer is strongly recommended for printing out reports.

Alarm Response

TLS-PC can be used to silence alarm and warning conditions that occur on the TLS console. The Console Mode Screen is used to determine the cause of the condition and take corrective actions.

Related Manuals

576013-273	TLS-300, TLS-300C, & TLS-300i Setup Manual
576013-274	TLS-300, TLS-300C, & TLS-300i Operator's Manual
576013-610	TLS-350 & TLS-350R Operator's Manual
576013-623	TLS-350 & TLS-350R System Setup Manual

Data Monitored

TLS-PC stores and periodically receives updates of the following TLS Console system parameters:

❑ **Tank setup information** - tank label, capacity, diameter, maximum volume, high product limit, delivery needed limit, and low product limit.

❑ **Tank inventory levels** - volume, ullage, temperature compensated volume, product height, water volume, water height, and temperature.

Depending on which TLS console you have, you can select from a wide variety of reports both to view and to print (see Viewing and Printing Reports on page 25 for a detailed list of available reports):

❑ **Operation menu reports** - system status, inventory, delivery history, shift inventory, sensor status, test results, and BIR reports.

❑ **Setup menu reports** - system setup, tank setup, sensor setup, and BIR setup.

❑ **Diagnostic menu reports** - system revision level, tank diagnostic, sensor diagnostic, and alarm histories.

❑ **Regulatory menu report** - tank leak test history and sensor status.

Required Operator Training

Operation of TLS-PC requires that you be familiar with the Microsoft Windows environment and its terms, such as, icon, title bar, menu bar, sizing buttons, minimize, maximize, pointer, click, double-click, and drag. You should know how to open a menu, select a command, work with dialog boxes, and other basic Windows activities.

You do not need extensive database skills or special training to operate TLS-PC. This manual will provide the support you need to install and operate the application.

Getting Started

TLS Console Installation and System Setup

If your TLS Console is up and running, continue to the next paragraph. If you are installing the TLS Console, sensors, and TLS-PC software for the first time, you must install the TLS Console and sensors before installing TLS-PC software. Follow the procedures outlined in your Site Prep and Installation and System Setup manuals that are included with that equipment.

Important Notice About Reference Manuals

When using TLS-300/TLS-350/TLS-350R System Setup, Operator, and Site Preparation and Installation manuals with a TLS Console [Figure 1], references to front panel keypads and displays do not apply.
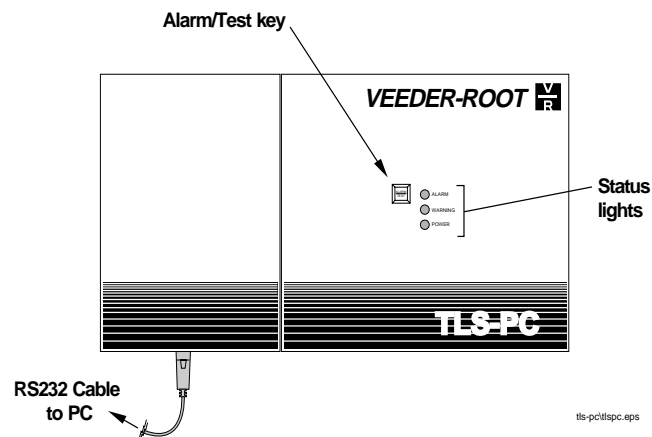

Figure 1. TLS-PC Console

The TLS Console functions identically to TLS Consoles having a front panel keypad and display; however, you must configure the TLS Console remotely using the TLS-PC software. After connecting the TLS Console via RS232 cable to a PC or compatible computer, you can enter all TLS Console system setup data while running TLS-PC software in the Console Mode.

When operating the TLS-PC software in the Console Mode, you will see on the monitor's screen, a graphical representation of the same keypads and display that are physically on the front panel of other TLS Consoles. When entering system setup data,

any reference to *pressing* a front panel key should be read as *clicking on* the identical screen displayed button after positioning the cursor over the button with the mouse. Data entries made in the TLS Console Mode are identical in every other way to data entries made pressing TLS Console front panel keys. Also, data appearing in the TLS-PC-generated front panel display will be identical to any data referenced in current TLS Console manuals as appearing in a console's front panel display.

The red ALARM/TEST key and the Status lights operate the same on this TLS Console as on all TLS Consoles.

Connecting Your PC to the TLS Console

A direct connect cable can be used between your computer (PC) and Console if the cable run is no longer than 50 feet (15.2 m). Cable runs longer than 50 feet can result in data errors, component damage, or both. If cable runs from the Console to the PC exceed 50 feet, two short-haul modems should be used, one at the PC and one at the console.

Direct Connect Via Cable

Turn off the TLS Console and your PC. Attach the male end of a null-modem cable to the RS-232 Board's 25-pin connector (DB25) under the left side of the unit. Attach the other end to the back of the PC [25-pin (DB25) or 9-pin (DB9) depending on which port is available]. Pin connections at each end of the null modem cable for the two types of PC connectors are as follows:

Console **DB25 on RS-232 Module** **Pin No. (Signal)**		**PC** **DB25 Connector** **Pin No. (Signal)**
2 (TX)	Connects to	3 (RX)
3 (RX)	"	2 (TX)
7 (Signal Ground)	"	7 (Signal Ground)

Console **DB25 on RS-232 Module** **Pin No. (Signal)**		**PC** **DB9 Connector** **Pin No. (Signal)**
2 (TX)	Connects to	2 (RX)
3 (RX)	"	3 (TX)
7 (Signal Ground)	"	5 (Signal Ground)

Short-Haul Modem Connection

For cable runs over 50 feet, we recommend an async short-haul modem, Black Box model ME800A, or equivalent. You can contact Black Box at P.O. Box 12800, Pittsburgh, PA 15241, phone: (724) 746-5500, or fax: (724) 746-0746 or via the internet, at: http://www.blackbox.com

Turn off the Console and your PC. See Figure 2 for a diagram detailing how to connect the Console to the PC using short-haul modems.
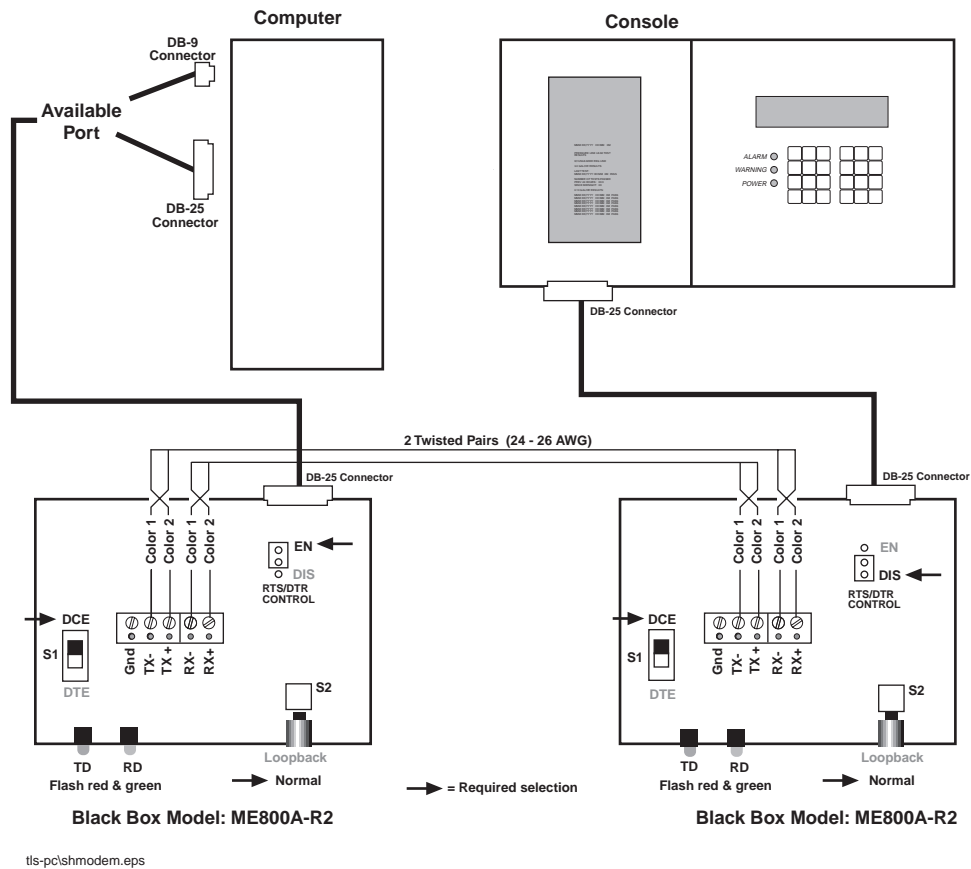

Figure 2. Connecting the Console to a PC via Short-Haul Modems

TLS-PC Software Installation

The TLS-PC software is contained on one 3.5" disk. To install TLS-PC, first run Windows as you normally would.

1. Insert your TLS-PC disk into the A: drive or the B: drive. From the Windows Program Manager, pull down the **File** menu and click on **Run**. The Run dialog box appears. Type the letter of the drive, followed by**:\setup.exe**. For example, the disk is in drive **A** [Figure 3]. Click on the **OK** button.
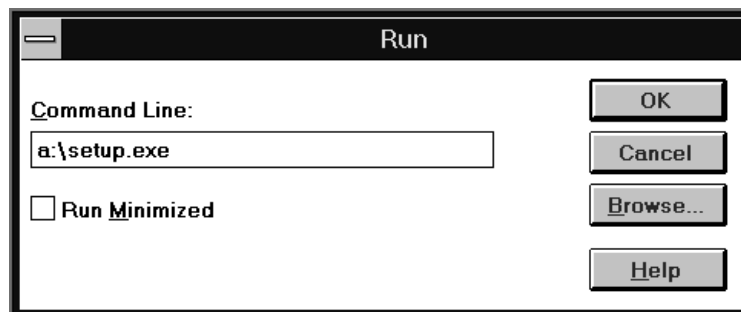

Figure 3. Run Dialog Box

2. The install software autoloads and the Welcome Screen appears [TLS-PC Installation Welcome Screen]].
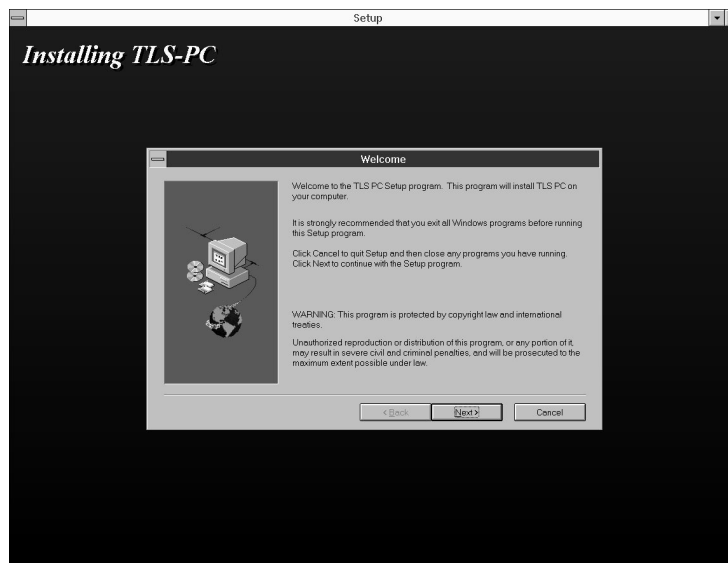
Figure 4. TLS-PC Installation Welcome Screen

3. After reading the instructions, if you need to close any existing applications first click on the minimize button (the down arrow button on the upper right of the setup screen). The TLS-PC icon becomes the setup icon on the desktop. Exit any open applications as recommended on the Welcome screen. When you have finished, double click on the setup icon, or simultaneously press the **Alt** and **Tab** keys to

return to the setup Welcome screen. Click on the **Next>** button to continue the TLS-PC installation.

4. The Choose Destination Screen appears [Figure 5]. Follow the instructions to choose the directory in which you want to install TLS-PC. The default directory is c:\TANKGAGE. If this location suits you, click on the **Next>** button to begin the TLS-PC installation.

Important ☞   *When a newer (or the same) version of TLS-PC is loaded over an existing version, keep the same directory.*
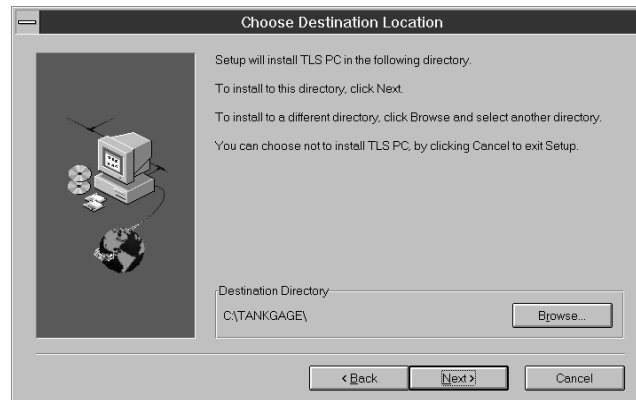
Figure 5. Choose Destination Location Screen

5. If you click on the **<Back** button, you go back to the previous screen; if you desire to exit the setup program, click on the **Cancel** button.
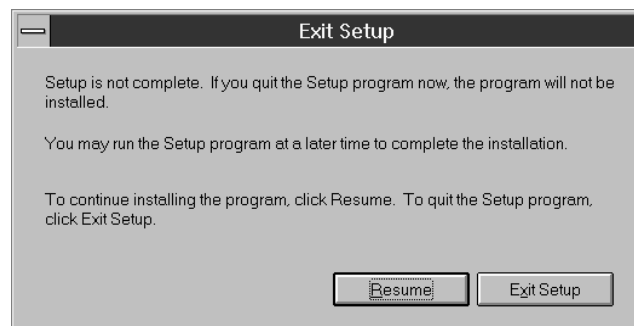

Figure 6. Exit Setup Screen

6. Clicking on the **Exit Setup** button stops the TLS-PC installation [Figure 6].

7. Click on the **Resume** button to continue the TLS-PC installation [Figure 6]. The Choose Destination Location Screen reappears [Figure 5].

8. If directory other than the default (TANKGAGE) is desired, click on the **Browse** button to select a different directory in which to save the TLS-PC program files. The Choose Directory Screen appears [Figure 7].
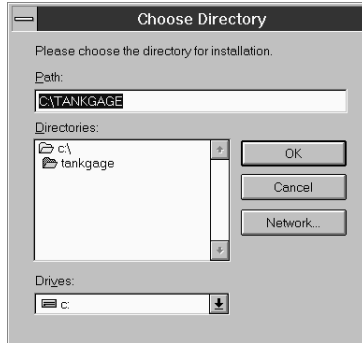
Figure 7. Choose Directory Screen

9. Type in your directory selection or choose an existing directory from the hard drive, then click the **OK** button to return to the Choose Directory Location screen. Click on the **Next>** button to begin the installation process.

10. The software is automatically installed on your computer. A dialog box illustrates the installation's progress [TLS-PC Installation Welcome Screen].

Figure 8. TLS-PC Software Installation-In-Progress Screen

11. When the software is installed a prompt screen appears [Figure 9].
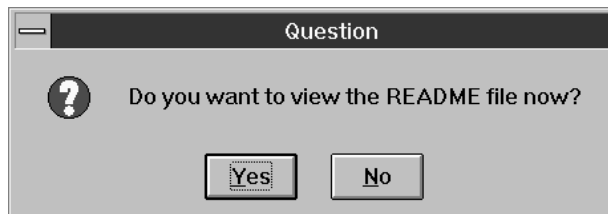
Figure 9. View Read Me File Prompt Screen

12. Clicking on the **Yes** button opens a text file which may contain important information about your TLS-PC software that is not in this manual. You should read this file before starting the TLS-PC program. After you read the text file and close its dialog box, the TLS-PC installation Information screen appears [TLS-PC Installation Welcome Screen]. Click on the OK button to exit the TLS-PC installation program.

Figure 10. TLS-PC Installation Information Screen

13. This completes the TLS-PC software installation.

Optional Feature Setups

Current Data Storage Interface

The Current Data Storage Interface (for TLS-300, TLS-350, and TLS-350R) is used for computer systems to access the current UST Monitoring Systems Data without the use of additional external electrical connections. This data is provided to the computer system from Veeder-Root's TLS-PC software.

The "current data" files may be used to copy report data into many software applications such as spreadsheets and database programs. This capability can be setup and used by Information Technology or Computer Specialists.

TLS-PC defaults with the Current Data Storage features turned ON. To disable the Current Data Storage functions, edit the following file using any standard text editor or the Windows Notepad (by changing the word "ON" to "OFF", individual features may be de-selected):

C:\WINDOWS\TANKGAGE.INI

To redirect Data Storage functions to a different subdirectory, change the storage path from C:\TANKGAGE to an existing subdirectory.

The following is a **sample** TLS-PC initialization (.ini) file:

```
[Data Storage Enable]
StoragePath=C:\TANKGAGE
sShortDate=MM/dd/yy
sTime=00:00:00
StartReportTime=00:00
INVENTRY=ON
ALARM_HISTORY=ON
ALARM_STATUS=ON
DELIVERY=ON
BIRPEROD=ON
BIRSHIFT=ON
SENSOR=ON
TANKTEST=ON
LINELEAK=ON
SETUP=ON

[Data Storage Timing]
INVENTRY_TIMING=5
ALARM_HISTORY_TIMING=6
ALARM_STATUS_TIMING=6
DELIVERY_TIMING=7
ADJ_DELIVERY_TIMING=7
BIRPEROD_TIMING=9
BIRSHIFT_TIMING=9
SENSOR_TIMING=8
TANKTEST_TIMING=11
LINELEAK_TIMING=11
SETUP_TIMING=11
```

Important ☞   *"sShortDate" shows a text picture of the Data Storage output format (i.e. MM/dd/yy).*
"sTime" identifies the single character time separator between hours, minutes, and
seconds (i.e. 08:30:00).
"StartReportTime" indicates when reports are generated (see Nos. 10 and 11 in Table 1
below).

To change the Data Storage timing interval, use the following table to determine which number should be used:

Important ☞ *When an inappropriate value has been assigned to the Data Storage timing value, the default value will be used.*

Table 1. Data Storage Timing Intervals

Number	Interval
0	undefined, use default
1	once every 30 seconds
2	once every minute
3	once every five minutes
4	once every ten minutes
5	once every thirty minutes
6	after alarm status change
7	after a delivery is complete
8	once every hour
9	once every even hour
10	once every three hours, starting after user defined parameter StartReportTime
11	once per day, just after user defined parameter StartReportTime

For more detailed information, refer to the *Current Data Storage Interface Manual* for *TLS-300/350/350R Monitoring Systems*.

Operating the TLS-PC Program

Important ☞ *The TLS Console must be programmed before bringing up the TLS-PC software.*

In the Windows Program Manager screen, double click on the TLS-PC Group icon and the TLS-PC group window appears. If the TLS-PC software was installed correctly, your group window should look like the group window in TLS-PC Installation Welcome Screen.
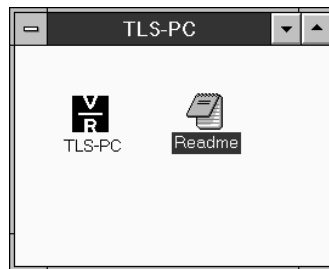

Figure 11. TLS-PC Group Window

TLS-PC Main Screen

Double click on the TLS-PC icon to start the program. The TLS-PC application starts up and the TLS-PC Main Screen appears [TLS-PC Installation Welcome Screen].
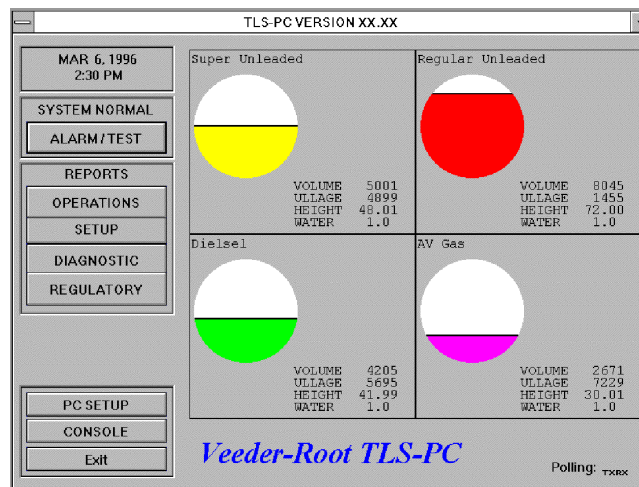

Figure 12. TLS-PC Main Screen

On the left side of the Main Screen from the top down you see:

Date and Time Section

The current date and time (from your internal PC clock) are shown here.

System Status Section

This section of the Main Screen displays SYSTEM NORMAL, ALARM, or COMM ERROR messages, and contains an ALARM/TEST button.

SYSTEM NORMAL Message

When the TLS Console is operating normally (no alarms), you will see the words SYSTEM NORMAL.

ALARM Message (All Alarms)

When an alarm is detected by the TLS Console, and polled by TLS-PC, the words SYSTEM NORMAL change to the word ALARM which flashes white then red, and the PC's internal speaker beeps. You can turn off the PC beeping by clicking on the **ALARM/TEST** button. (Clicking on this button turns off the beeper only. The word ALARM continues to flash until the problem causing the alarm has been corrected.)

Important ☞ *It is possible that a new alarm may beep and flash after the initial one has been turned off and corrected. If this happens, just repeat the above instructions as needed.*

ALARM Message (VLLD Alarms Only)

These alarms only occur if you have a Volumetric Line Leak Detector (VLLD). When an alarm is signaled, the following sequence of events will occur.

1. The words SYSTEM NORMAL change to the word ALARM which flashes white then red, and the PC's internal speaker beeps. Click on the **ALARM/TEST** button to silence the audible alarm. (Clicking on this button turns off the beeper only. (The word ALARM continues to flash until the problem causing the alarm has been corrected.)

2. A Priority Alarm window appears, in this example there is a VLLD alarm [Figure 13 on page 17].   Cover the dispenser handles or take other measures to prevent them from being lifted. If a pump handle is lifted during the LVP (Line Verification Procedure) test, the submersible pump will again be shut down and the alarms reactivated.
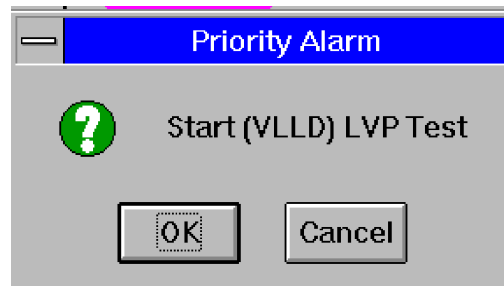
Figure 13. VLLD Priority Alarm Window

3. If you click on the **CANCEL** button, the Priority Alarm window disappears from the screen, but no corrective action is taken.   Click on the **OK** button to initiate a LVP test on the sensor (VLLD) that caused the alarm condition. The Priority Alarm window disappears from the screen and a Test Status window appears to confirm that the LVP test is underway [Figure 14]. Click on the **OK** button to clear the dialog box.
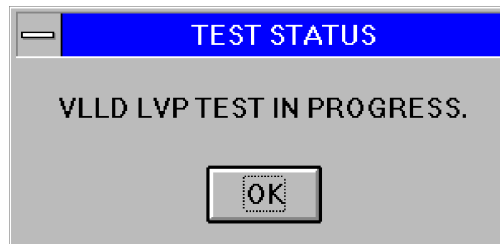

Figure 14. VLLD Test Status Window

The time required to perform this test depends on whether 3.0 gph, 0.20 gph, or 0.10 gph pressure tests were entered during System Setup (a 0.10 gph test requires the most time to perform).

4. If the LVP test was successful and the alarm is reset (i.e., it was a false alarm), the word ALARM will be replaced by SYSTEM NORMAL in the System Status section of the Main Screen.

5. If the LVP test fails, you will hear a beep until you click on ALARM/TEST. The word ALARM will continue to flash in the System Status section of Main Screen [Figure 12 on page 15].

Another method of monitoring this alarm is to click on the **OPERATIONS** button in the REPORTS section of the Main Screen (Figure 12 on page 15. For more detailed information see Figure 22 on page 23), then click on **SYSTEM STATUS** in the REPORTS scroll window in the top center of the OPERATIONS REPORTS MENU screen. Once you have the SYSTEM STATUS report on the screen, you will see the alarm message LINE LEAK SHUTDOWN, GRS- LINE TEST FAIL (If the alarm resets, this message is erased).

6. If the alarm does not reset, you must call a trained technician who can verify and correct the problem before reenabling the line leak detector.

ALARM Message (PLLD and WPLLD Alarms Only)

These alarms only occur if you have a Pressure Line Leak Detector (PLLD) or a Wireless Pressure Line Leak Detector (WPLLD). When an alarm is signaled, the following sequence of events will occur:

1. The words SYSTEM NORMAL changes to the word ALARM which flashes white then red, and the PC's internal speaker beeps. Click on the **ALARM/TEST** button to silence the audible alarm. (Clicking on this button turns off the beeper only. The word ALARM continues to flash until the problem causing the alarm has been corrected.)

2. A Priority Alarm window appears; in the following examples there are PLLD [Figure 15] and WPLLD [Figure 16] alarms. Cover the dispenser handles or take other measures to prevent them from being lifted. If a pump handle is lifted during the Reenable test, the submersible pump will again be shut down and the alarms reactivated.
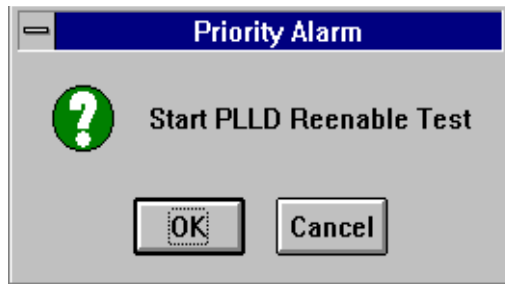
Figure 15. PLLD Priority Alarm Window
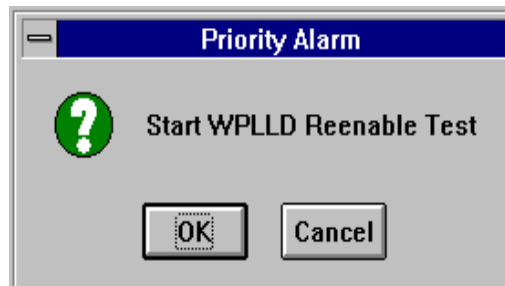
Figure 16. WPLLD Priority Alarm Window

3. If you click on the **CANCEL** button, the Priority Alarm window disappears from the screen, but no corrective action is taken.   Click on the **OK** button to initiate a Reenable test on the sensor (PLLD or WPLLD) that caused the alarm condition. The Priority Alarm window disappears from the screen and a Test Status window appears to confirm that the Reenable test is underway [Figure 17 on page 19 and Figure 18 on page 19]. Click on the **OK** button to clear the dialog box.

Figure 17. PLLD Test Status Window

Figure 18. WPLLD Test Status Window

The time required to perform this test depends on whether 3.0 gph, 0.20 gph, or 0.10 gph pressure tests were entered during System Setup (a 0.10 gph test requires the most time to perform).

4. If the Reenable test was successful and the alarm is reset (i.e., it was a false alarm), the word ALARM will be replaced by SYSTEM NORMAL in the System Status section of the Main Screen.
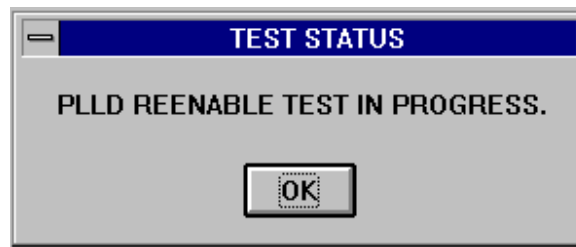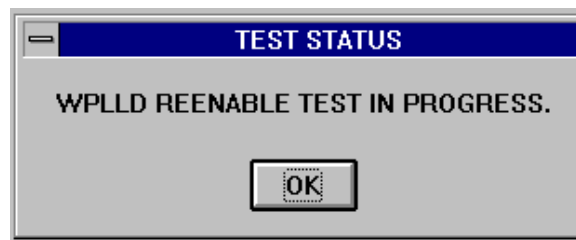
5. If the Reenable test fails, you will hear a beep until you click on ALARM/TEST. The word ALARM will continue to flash in the System Status section of Main Screen [Figure 12 on page 15].

Another method of monitoring this alarm is to click on the **OPERATIONS** button in the REPORTS section of the Main Screen (Figure 12 on page 15. For more detailed information see Figure 22 on page 23), then click on **SYSTEM STATUS** in the REPORTS scroll window in the top center of the OPERATIONS REPORTS MENU screen. Once you have the SYSTEM STATUS report on the screen, you will see the alarm message PLLD (or WPLLD) SHUTDOWN ALARM, GROSS LINE FAIL (If the alarm resets, this message is erased).

6. If the alarm does not reset, you must call a trained technician who can verify and correct the problem before reenabling the line leak detector.

COMM ERROR Message

When the communication link between the console and the PC is broken for longer than 5 minutes; a TLS-PC ERROR window appears in the center of the monitor warning the operator of a Communications Timeout [Figure 19 on page 20], the words SYSTEM NORMAL in the ALARM section of the main screen changes to COMM ERROR and flashes red and white, and the PC internal speaker beeps. You can remove the Communications Timeout window by clicking on the **OK** button; however, the

words COMM ERROR continue to flash and the PC internal speaker beeps until the communications problem has been corrected.

Figure 19. Communications Timeout Window

REPORTS Section

The **REPORTS** section contains buttons to access four report categories; Operations, Setup, Diagnostics, and Regulatory (discussed in greater detail in the Viewing and Printing Reports section below).

PC SETUP Button

Click on the **PC SETUP** button and the PC Setup Screen appears. This screen lets you setup the communication link between your PC and the TLS Console. Also on this screen are tank color selections that appear on the Main Screen [Figure 20].
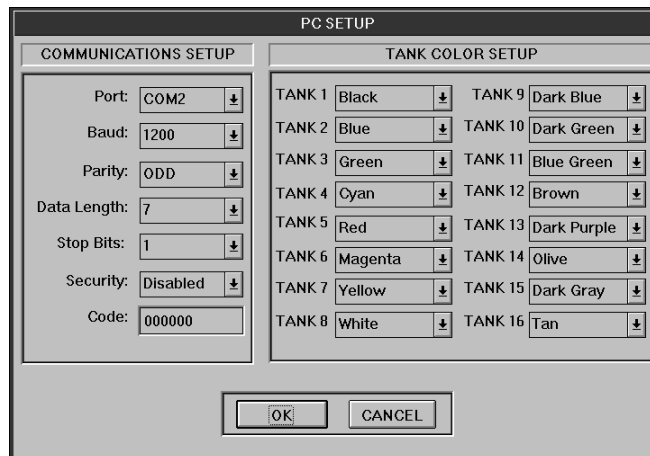

Figure 20. PC Setup Screen

COMMUNICATIONS SETUP Section

You must verify that each of the settings visible in the COMMUNICATIONS SETUP section of the PC SETUP screen are correct (click on the arrow to the right of the window to see additional options).

❑ **Port** - Enter the local PC communication port number you used to connect to the TLS Console. Options are COM1, 2, 3, or 4.

The following settings must match the TLS Console settings. Console default settings are shown in Figure 20 on page 20.   If different settings were entered during System Setup, enter those settings. If no changes were entered, use the default settings:

❑ **Baud** - 1200 (Options are 300, 1200, 2400, 4800, or 9600)

❑ **Parity** - ODD (Options are EVEN, ODD, or NONE)

❑ **Data Length** - 7 (Options are 7 or 8)

❑ **Stop Bits** - 1 (Options are 1 or 2)

❑ **Security** - The default selection for this window is DISABLED. *If the TLS Console has security enabled then you must select ENABLED. Failure to do so will result in no communication between your PC and the TLS Console.*

❑ **Code** - Enter the TLS Console's six-digit security code if security is enabled.   All zeros should be entered if security is disabled.

Important ☞ *For additional communications information, refer to the TLS System Setup manual.*

TANK COLOR Setup

Examine the default tank color assignments visible in the TANK COLOR SETUP section of the PC SETUP screen [Figure 20 on page 20]. Tank numbers correspond to tank number designations that were entered during the TLS Console System Setup procedure. The colors represent product levels in the respectively numbered tank cross sections on the Main Screen and on the Tank Detailed Information screens. Accept or change the default colors shown in the windows for the tanks in your facility. To make a change, click on the arrow button to the right of the color window and click on the desired color.

Important ☞ *For consistency, you may wish to use the color code used by the station to identify their tanks.*

When you finish, click on the OK button to return to the Main Screen.

CONSOLE Button

Clicking on the CONSOLE button displays the Console Mode Screen [Figure 21].
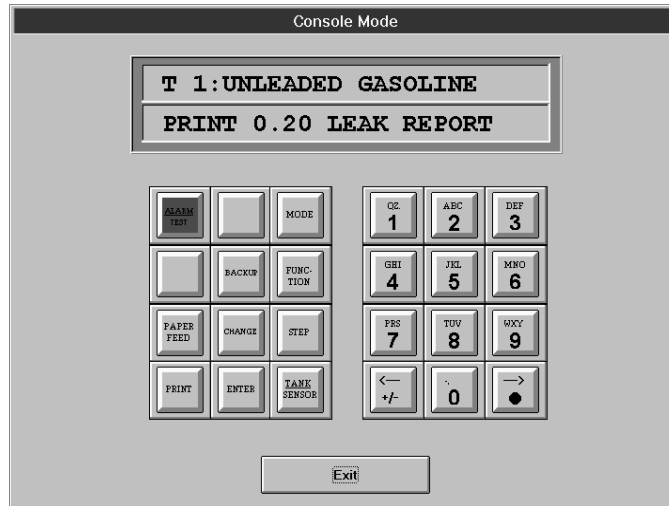
Figure 21. Console Mode Screen

From this screen you can enter any TLS Console command (when the display asks you to press a key, you click on the similarly named button instead).

Important ☞ *This screen allows selective changes to the TLS Console's System Setup and allows you to access all operation and diagnostic functions available in the console.* Click on the Exit button to return to the Main Screen.

POLLING TXRX

Important ☞ *Communication setup using the PC Setup function must first be done before communication between the PC and TLS Console will occur.*

The words POLLING TXRX on the lower right side of the Main Screen indicate when TLS-PC transmits and receives updates from the TLS Console. TX blinks red when a request is transmitted and RX blinks red when a reply is received. This feature can assist in troubleshooting TLS-PC communication errors. For example, if you see blinking TX and no blinking RX, you could have dissimilar BAUD selections, a bad null modem cable, a faulty RS-232 Comm board, a bent or broken cable connector pin, or an inoperative TLS Console.

Tank Detailed Information Screens

On the Main Screen, click on any tank. The Tank Detailed Information screen for that tank appears [Figure 22].
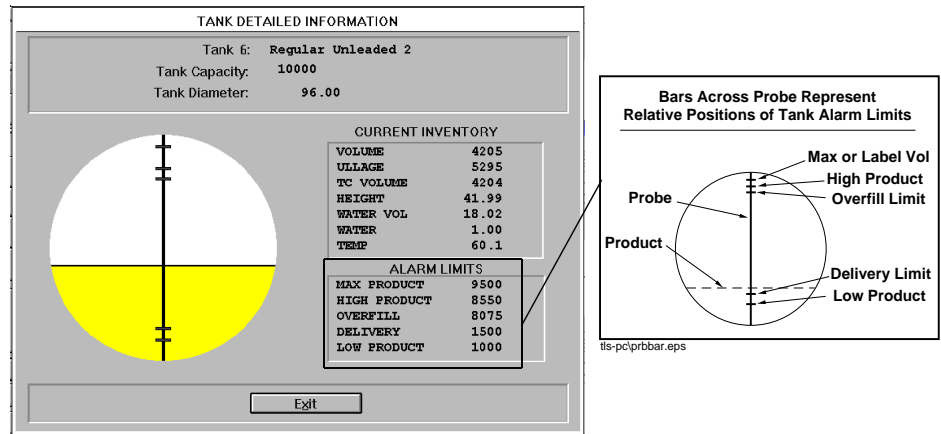
Figure 22. Tank Detailed Information Screen

In addition to displaying more physical tank data than is shown on the Main Screen, the Tank Detailed Information screen also shows the tank's current alarm limits. Click on the Exit button to return to the Main Screen. One at a time, click on each of the other tanks. As you view each Tank Detailed Information screen you will see similar information for that tank. Return to the Main Screen.

EXIT Button

Clicking on the Exit button quits the TLS-PC program.

TLS-PC Minimize Icon

You have completed the start-up procedure for TLS-PC. At this point you can stay in the Main Screen (the current condition), or you can click on the minimize button (the TLS-PC application is running, but the computer displays another active application and the TLS-PC icon is visible on the desktop or on the task bar. [Figure 23]).

Figure 23. TLS-PC Program Icon

Operator Response to Alarm Conditions

The operator must respond immediately to alarm conditions indicated by the TLS console and/or TLS-PC software program.

When an alarm or warning condition occurs, the TLS console sounds an audible alarm and the alarm and/or warning light indicators flash. (When available, the console displays information concerning the condition.)

The TLS software periodically polls the TLS console for alarm conditions. When the TLS-PC is in the Main Screen and the TLS console is not reporting an alarm, "SYSTEM NORMAL" is displayed on the screen. When TLS-PC is minimized (i.e. the TLS-PC application is running but its window is reduced to an icon at the bottom of the screen), the TLS-PC icon is continuously visible. If TLS-PC is in the Main Screen and an alarm or warning is detected, the "SYSTEM NORMAL" message changes to a flashing "ALARM" message and the internal PC speaker beeps. The TLS-PC icon flashes on and off and the internal speaker beeps, when the program is operating in the minimized state.

Important ☞ *Whenever the TLS-PC program is running and an alarm condition occurs, the internal speaker begins beeping.*

The operator may silence the TLS console audible alarm by selecting the **ALARM/ TEST** button on the Main Screen. The operator should enter the Console Mode Screen by selecting the **CONSOLE** button on the Main Screen. The error message displayed on the Console Mode Screen describes the alarm and/or warning condition. The operator must refer to the Troubleshooting section of the *TLS-350 and TLS-350R Operator's Manual* to determine the appropriate corrective actions.

Viewing and Printing Reports

The content and availability of each TLS-PC report is dependent upon the equipment contained in the system and the parameters that were entered during the TLS Console's System Setup procedure.

You can print out any TLS-PC report to your office printer at any time. You can also print any of these reports to file, saving the report on your hard drive.

Report Categories

Beneath the REPORTS section of the Main Screen are buttons for four report categories. The report(s) contained within each category are listed in the following tables.

Table 2.   Operational Menu Reports

OPERATIONAL MENU REPORTS	REPORT AVAILABILITY (Y=Yes, N=No, O=Optional)				
	TLS-PC 300i with Sensors	TLS-PC 300	TLS-PC-350	TLS-PC 350R with Line Leak	TLS-PC 350R
System Status	Y	Y	Y	Y	Y
Inventory	Y	Y	Y	Y	Y
Delivery	Y	Y	Y	Y	Y
Shift	Y	Y	Y	Y	Y
Tank Leak Test	Y	Y	Y	Y	Y
Tank CSLD Test	Y	N	Y	Y	Y
Liquid Sensor Status	Y	N	Y	Y	Y
Vapor Sensor Status	N	N	Y	Y	Y
Groundwater Sensor Status	N	N	Y	Y	Y
2Wire CL Sensor Status	N	N	Y	Y	Y
3Wire CL Sensor Status	N	N	Y	Y	Y
Universal Sensor Status	Y	Y	N	N	N
VLLD Test Results	N	N	Y	Y	N
PLLD Test Results	N	N	Y	Y	N
WPLLD Test Results	N	N	Y	Y	N
Fuel Management Report	N	N	O	O	O
BIR-Daily Row Report	N	N	N	Y	Y
BIR-Daily Column Report	N	N	N	Y	Y
BIR-Shift Row Report	N	N	N	Y	Y
BIR-Shift Column Report	N	N	N	Y	Y
BIR-Periodic Row Report	N	N	N	Y	Y
BIR-Periodic Column Report	N	N	N	Y	Y

Table 3.   Setup Menu Reports

SETUP	REPORT AVAILABILITY (Y = Yes, N = No)				
MENU REPORTS	TLS-PC 300i with Sensors	TLS-PC 300	TLS-PC-350	TLS-PC 350R with Line Leak	TLS-PC 350R
System Setup	Y	Y	Y	Y	Y
Tank Setup	Y	Y	Y	Y	Y
Liquid Sensor Setup	Y	N	Y	Y	Y
Vapor Sensor Setup	N	N	Y	Y	Y
Groundwater Sensor Setup	N	N	Y	Y	Y
2Wire CL Sensor Setup	N	N	Y	Y	Y
3Wire CL Sensor Setup	N	N	Y	Y	Y
Universal Sensor Setup	Y	Y	N	N	N
VLLD Sensor Setup	N	N	Y	Y	N
PLLD Sensor Setup	N	N	Y	Y	N
WPLLD Sensor Setup	N	N	Y	Y	N
BIR Setup	N	N	N	Y	Y

Table 4.   Diagnostics Menu Reports

DIAGNOSTICS	REPORT AVAILABILITY (Y=Yes,N=No)				
MENU REPORTS	TLS-PC 300i with Sensors	TLS-PC 300	TLS-PC-350	TLS-PC 350R with Line Leak	TLS-PC 350R
System Revision Level	Y	Y	Y	Y	Y
Tank Diagnostic	Y	Y	Y	Y	Y
Liquid Sensor Diag	Y	N	Y	Y	Y
Vapor Sensor Diag	N	N	Y	Y	Y
Groundwater Sensor Diag	N	N	Y	Y	Y
2Wire CL Sensor Diag	N	N	Y	Y	Y
3Wire CL Sensor Diag	N	N	Y	Y	Y
Universal Sensor Diag	N	N	Y	Y	Y
VLLD Sensor Diag	N	N	Y	Y	Y
PLLD Sensor Diag	N	N	Y	Y	Y
WPLLD Sensor Diag	N	N	Y	Y	Y
System Priority History	Y	Y	Y	Y	Y
System NonPriority History	Y	Y	Y	Y	Y
Tank Alarm History	Y	Y	Y	Y	Y
Liquid Alarm History	Y	N	Y	Y	Y
Vapor Alarm History	N	N	Y	Y	Y
Groundwater Alarm History	N	N	Y	Y	Y
2Wire CL Alarm History	N	N	Y	Y	Y
3Wire CL Alarm History	N	N	Y	Y	Y
Universal Alarm History	Y	Y	N	N	N
VLLD Alarm History	N	N	Y	Y	N
PLLD Alarm History	N	N	Y	Y	N
WPLLD Alarm History	N	N	Y	Y	N

Table 5.   Regulatory Menu Reports

REGULATORY	REPORT AVAILABILITY (Y=Yes,N=No)				
MENU REPORTS	TLS-PC 300i with Sensors	TLS-PC 300	TLS-PC-350	TLS-PC 350R with Line Leak	TLS-PC 350R
Tank Leak Test History and Sensor Status (Combined)	Y	Y	Y	Y	Y

To View A Report

To view a report, you first select the report category in which the desired report is contained. For example, you want to see an Inventory report which is in the OPERATIONS reports category. Click on the OPERATIONS button in the REPORTS section of the Main Screen. The OPERATONAL REPORTS MENU appears [Figure 24].
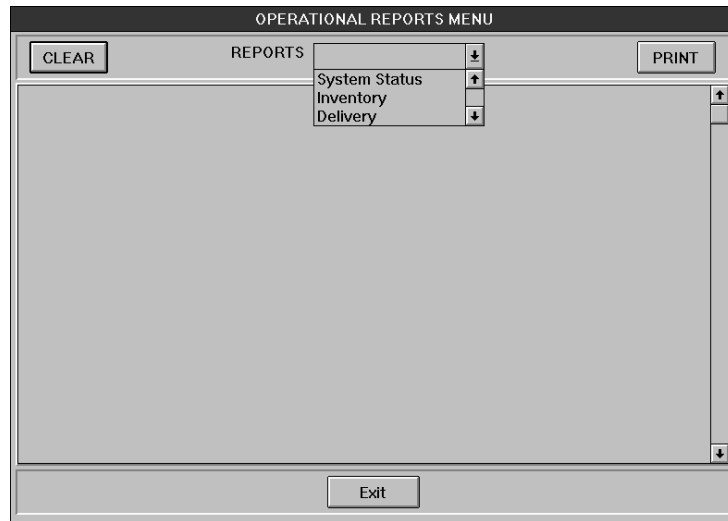

Figure 24. Operational Report Menu

Click on the arrow button to the right of the REPORTS window to see the list of available reports. Notice that only three reports appear in the list at any time. Click on the scroll bar down arrow (right of the list) to scroll through the entire list. Click on the scroll bar up arrow to scroll up to the Inventory report. Click on Inventory to select that report. The report appears on the screen [Figure 25].
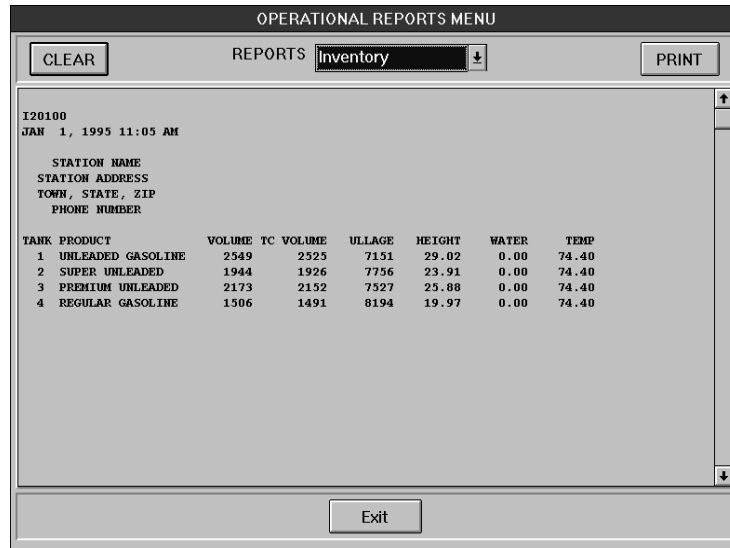

Figure 25. Inventory Report

Should the lines generated by a report exceed the number visible on the screen, click on the scroll bar's up and down arrows (right of the screen) to scroll through the entire report. Clicking on the CLEAR button clears the screen.

To Print Out A Report

Once a report is displayed, you can print a copy or copies by clicking on the PRINT button in the upper right hand corner. The Print Screen appears [Figure 26].
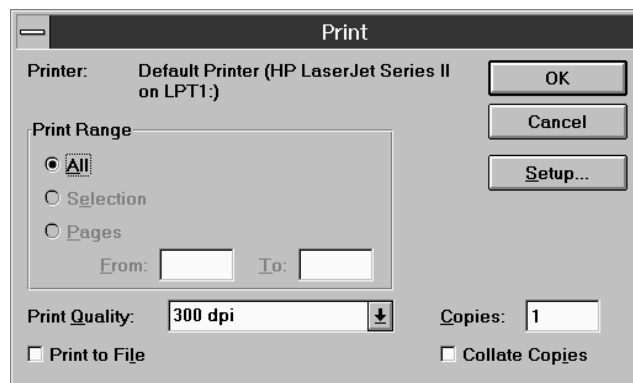

Figure 26. Print Screen

To initially setup your printer to process TLS-PC report requests, click on the Setup button and the Print Setup Screen appears [Figure 27].
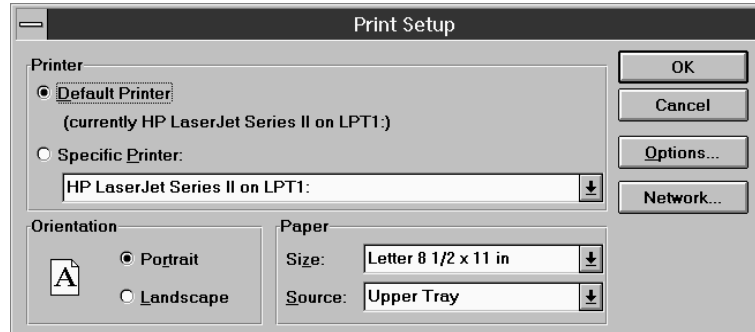

Figure 27. Print Setup Screen

Make the necessary selections to identify your printer type, paper orientation, size, etc. Click on the Options button and the Print Options Screen appears [Figure 28].
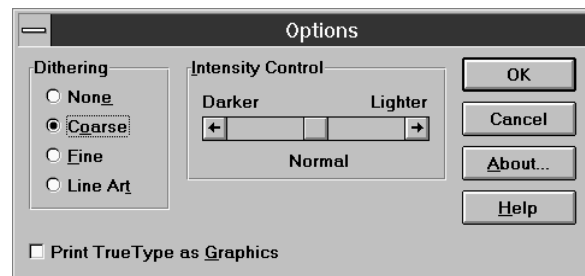

Figure 28. Print Setup Options Screen

The Print Setup Options Screen prompts you for additional print choices depending on your printer type. Make selections if necessary and click on the OK button to return to the Print Setup Screen. After making the required choices, click on the OK button to return to the Print Screen. After making the required choices, click on the OK button to print out your report.

To Print A Report To File

To save any report to your hard drive (or a floppy disk), first display the report you want to save. Click on the PRINT button in the upper right corner of the screen. After the Print Screen [Figure 26 on page 28] reappears, click in the empty Print to File box. An X appears in the box. Click the OK button and the Print-To-File Screen will appear [Figure 29].
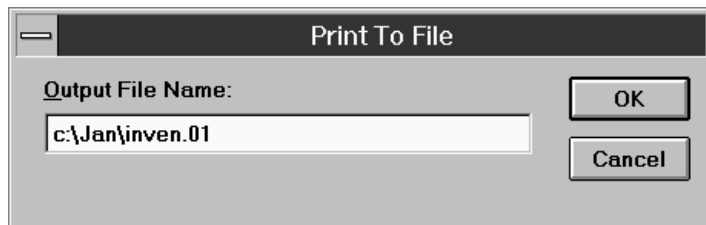

Figure 29. Print-To-File Screen

Type in a path\file name for the report. For example, you decide to establish monthly directories on your "C" hard drive containing TLS-PC reports, further separated by the day of the month. Today is January 1 and you want to print-to-file a copy of the Inventory Report and save it on your hard drive. You type c:\Jan\inven.01 and click the OK button. A file of the inventory report is saved in the designated location on your hard drive, and you are returned to the Report Screen. Click on the Exit button to return to the Main Screen.

Printing Out A Stored Report

You can print out a report once you print it to file; however, you can only print one report at a time, and you must enter a dos command screen in Windows to do so. The procedure to print out a stored report file is as follows:

❑ You need to show drive designation and directory.

❑ Make Program Manager the active window. Double click on the **Main** group icon.

❑ Double click on the **MS-DOS Prompt** icon.

❑ Type **print**, press the space bar, type the report's path and file name, then press **Enter**.

❑ Repeat this process to print additional copies or different reports.

❑ Type **exit** then press the **Enter** key to return to Windows.

BIR Manual Adjustments

For TLS-PC systems with Basic Inventory Reconciliation (BIR), you can enter manual BIR adjustments from TLS-PC as follows.

1. From the Main Screen, click on the **OPERATIONS** button in the REPORTS section. The OPERATIONS REPORTS MENU screen appears [Figure 1].
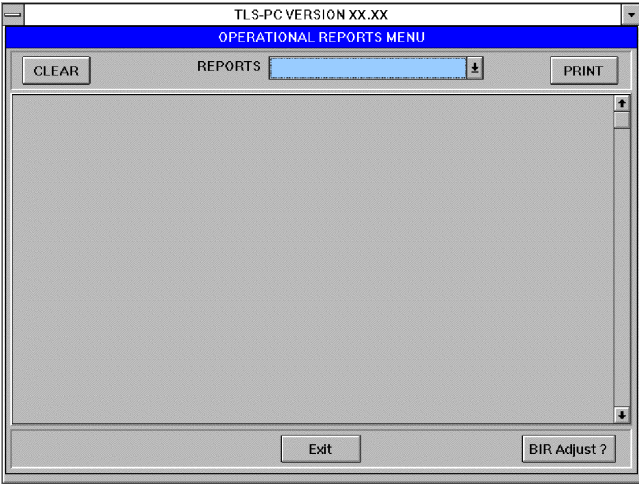

Figure 30. Operations Report Menu

2. Click on the **BIR Adjust?** button. The Set Manual Adjustment Value window appears on the REPORTS window [Figure 31].
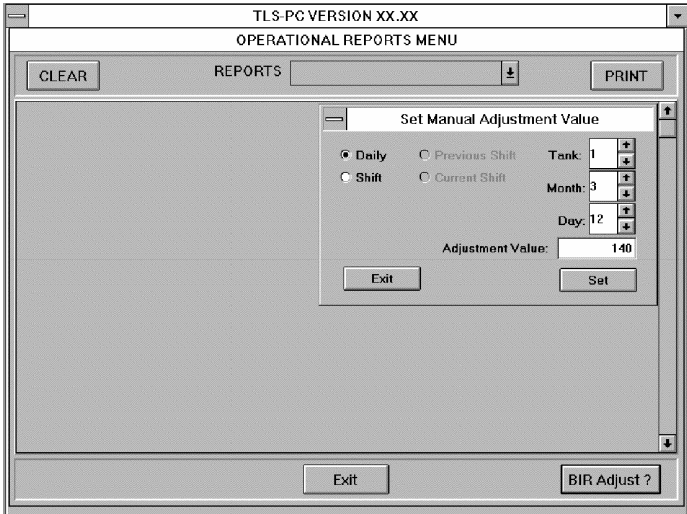

Figure 31. Set Manual Adjustment Value Window

3. First select either Shift (then you must select Previous Shift or Current Shift) or Daily, the Tank number for which the adjustment will be entered, the Closing Month and Day, and then enter in the Adjustment Value window, the amount of adjustment (e.g., gallons, liters, or imperial gallons - depending on the units entered in System Setup) for the selected day.

4. Click on the **SET** button to enter the BIR adjustment value into the system. The current date and time; and the tank number, product label, adjustment closing date, and adjusted volume appears on the REPORTS screen [Figure 32].
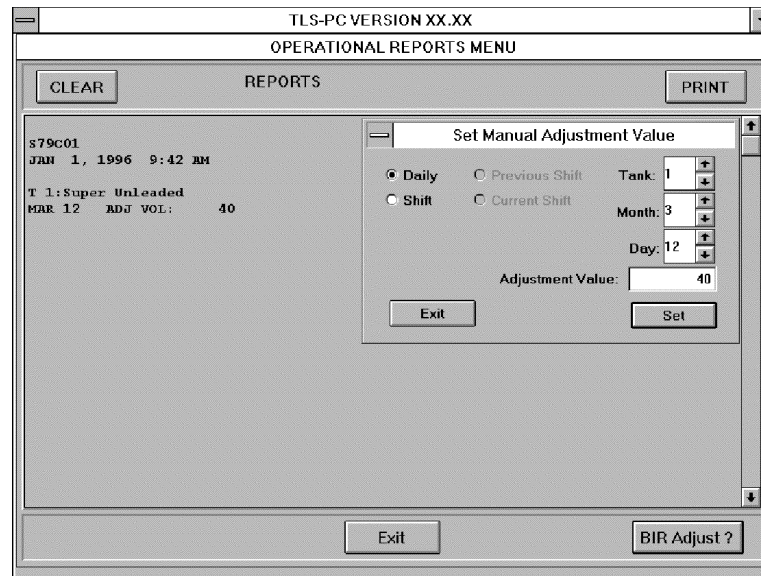

Figure 32. BIR Manual Adjustment Entered

5. Click on the **Exit** button in the Set Manual Adjustment Value window to remove this window. Click on the **Exit** button on the OPERATIONAL REPORTS MENU to return to the Main Screen.

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