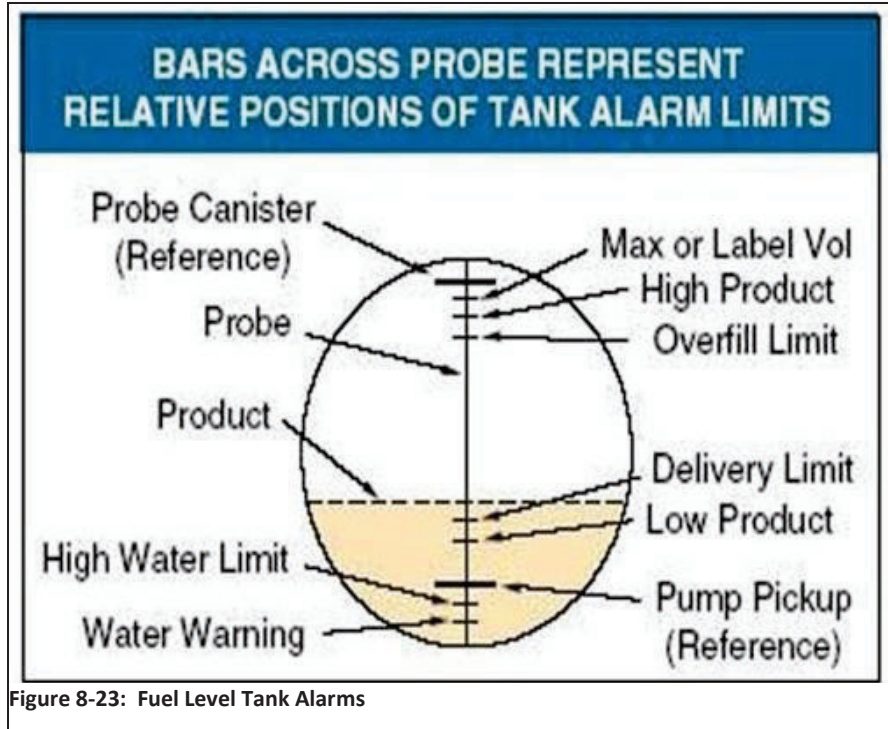### 8.7.1   Overfill Alarm Troubleshooting Steps

Steps	Procedures

1. An overfill may cause the Vacuum Pump to seize, which may cause the Vacuum Pump motor to trip out on the thermal overloads.

2. If an Overfill Alarm Activates while a test is running:
    - The test will terminate.
    - The Fault and Alarm Screen is displayed and the Overfill Alarm box will display RED.
    - An underground storage tank overfill is a serious situation that could damage internal components in the GREEN MACHINE.
    - An overfill might happen if the delivery person fails to stop fueling, ignoring both the overfill limit and the high-product limit.
    - VST has determined that overfill protection is needed to reduce the chance of gasoline entering the GREEN MACHINE.
    - Below are the precautionary measures taken to protect the GREEN MACHINE against an overfill situation:
        - The VST Control Panel will disable the GREEN MACHINE when the UST level reaches the OVERFILL Alarm setting (OVERFILL: 90%) when the relay contacts open at the Fuel Management System.
        - Eventually, as fuel is dispensed, the product would drop below the OVERFILL Alarm threshold thereby resetting the relay and re-enabling the GREEN MACHINE.
        - The Fuel Management System OVERFILL ALARM will not guarantee that the GREEN MACHINE is protected from gasoline entering it.

3. The table below lists the VST recommended alarm settings for the tank level.

Position of Tank Alarm Limits	VST Recommended Alarm Settings
Overfill Limit	90%

Figure 8-23: Fuel Level Tank Alarms

Overfill Report				
Date:				
Contractor Name:				
Contractor Company:				
GDF Name:				
Address:				
City:	State:		ZIP Code:	
GDF Contact Person Name:				
GDF Contact Person Title:				
GDF Contact Person Phone:				
GDF Contact Person E-mail:				
Overfill Details				
Date of Overfill:				
Octane of the fuel being dispensed:				
Serial Number of the GREEN MACHINE:				

8.8 Digital Storage Alarm

- The GREEN MACHINE will operate when there is a Digital Storage Alarm, but the USB Drive will not or cannot record the data.

- The Digital Storage Alarm will activate when the following items occur:

  1. A Digital Storage Drive (USB Drive) is not installed in the PLC slot.
     OR

  2. When the Digital Storage Drive (USB Drive) is not inserted into the PLC slot properly. **See Figure 8-24**

- Correct the above problem(s), and the Digital Storage Alarm will clear.

Figure 8-24: USB Drive for Digital (data) Storage