11.   Upgrading the DRM firmware

1. Install the DRM Firmware Updater software by unzipping the files to a known directory and clicking on the 'Setup' in the 'Installer' directory.
2. Disconnect the meter from the power supply and ensure that the **battery back-up is also turned OFF**; dip switches 7 and 8 in the OFF position, see figure 2 or 3
3. Set dipswitch 1& 2 to on position
4. Set dipswitch 3 to 8 to off position
5. Open the back meter panel, see figure 2 or 3
6. Switch E1 located at mother board card to update position. See Figure2 for the DRM-1 or Figure 3 DRM-1D
7. Connect the meter to the PC via the RS-232 cable.
8. To start the Firmware Updater software double clicking the 'Application.exe' icon in the known directory.(see next page for screen view)
    Set the PC Communications Port and load the supplied *.hex file,, i.e. "drm1-4769.hex" located in the known created directory for the software.
9. Select "send an answer " function 1 (Check)
10. Click on the Start (white arrow) to initialize the program.
11. Connect the meter to the power supply, the following information should appear in the File Read screen:
    C8051F0xx Firmware Updater
    1.   Test and Verify the New Updated Firmware file
    2.   Erase Flash and Update Firmware
    3.   Cancel Firmware Update
    ?   Print Command List
    Enter a Command >
12. If the menu does not appear, turn (disconnect) the power supply off, click on the stop (red point) icon and go back to item 10
13. Click on the "send 1" button
14. Check that the right hand window displays **Ready to receive**
15. Click on "send 2"
16. Check that the right hand window **displays "The file was verified and is good for update"** Enter command
17. Select "send an answer " function 2 (Update)
18. Click on "send 1"
19. Check that the right hand window displays **Ready to Receive**
20. Click on "send 2"
21. Check that the right hand window displays **"Firmware update complete"** and verify that the information in the window is exactly like figure 1 before removing the AC power
22. Disconnect the power supply and remove the serial/null cable.
23. Switch E1 located on the motherboard card 2143 to inverse "update" position (downward).
24. Connect the power supply and verify that the meter operates.
25. Ensure Dip Switches are set to the required operating positions