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Approvals		Date	ECN Release		
DRAWN	Y Lau	06/25/2002	Lassen SQ Firmware Upgrade Instructions		
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I. Lassen SQ firmware field upgrade tools and requirement

The following is required for firmware upgrade:

- PC with RS232 serial port (com) which can support at least 9600 and 115,200 baud
- Lassen SQ Starter Kit Interface Unit OR a RS422 to RS232 conversion harness
- Suitable power supply for Lassen SQ receiver or Starter Kit Interface Unit

II. Firmware upgrading procedures

1. Copy both the SQ_Load.exe and SQ.rom into the same directory in which you want to have them stored. If a previous version of SQ.rom already exists in the directory, rename it to something with reference to its release version before copying the new version over; e.g. rename old SQ.rom to SQ_1-00.rom if it is release 1.00.
2. Connect the serial ports of the Starter Kit Interface Unit and the PC with a RS232 cable.
3. Turn on the power supply to the Lassen SQ.
4. Confirm operation of the receiver by running TSIPchat or SQ_Monitor.
5. If the baud rate is not set to 9600, set it to 9600 using key-board command “U” in TSIPchat or using the [Configure]/[Serial Port] menu in SQ_Monitor.
6. After receiver operation is confirmed, close the TSIPchat or SQ_Monitor program before proceeding to step 7.
7. Leave the receiver power on and then run the SQ_Load program by double clicking the .exe file.
8. The flash programming should take about one minute (for an average PC) to complete.
9. To run the receiver in normal operation again, power cycle the receiver is required.