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Approvals	Date	ECN Release		
DRAWN	03/21/2005	Lassen iQ Firmware Upgrade Instructions		
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				A

TABLE OF CONTENTS

I. LASSEN IQ FIRMWARE FIELD UPGRADE TOOLS AND REQUIREMENT..... 3

II. FIRMWARE UPGRADING PROCEDURES 3

I. Lassen iQ 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 iQ Starter Kit Interface Unit OR a RS422 to RS232 conversion harness
- Suitable power supply for Lassen iQ receiver or Starter Kit Interface Unit

II. Firmware upgrading procedures

1. Copy both the iQ_Load.exe and iQ.rom into the same directory in which you want to have them stored. If a previous version of iQ.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 iQ.rom to iQ_1-10.rom if it is release 1.10.
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 iQ.
4. Confirm operation of the receiver by running TSIPchat or iQ_Monitor.
5. Serial port setting must be 9600-8-Odd-1 and protocol must be TSIP IN/OUT. If not, then reset them to such by using key-board command “U”(packet 0xBC) in TSIPchat or using the [Configure]/[Serial Port] menu in iQ_Monitor.
6. After receiver operation is confirmed, close the TSIPchat or iQ_Monitor program before proceeding to step 7.
7. Leave the receiver power on and then run the iQ_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, it is required to power cycle the receiver.