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April 19, 2007

Description of changes to certified system under FCC ID: DO4EMRLDUP and DO4EMRLDPX

The following changes were implemented to the system, Liberty PX antenna with Emerald transmitter electronics, certified under **FCC ID: DO4EMRLDUP**: and **FCC ID: DO4EMRLDPX.**

1) 4-turn bifiliar wire on toroid cores (Fair Rite P/N 5943000601) installed as extension to Liberty PX antenna leads; Fair-Rite P/N 2861-000-202 binocular cores previously installed on originally certified system has been removed.

2) Two CheckPro Manager VisiPlus modules attached to Liberty PX antenna, instead of one in certified system. Wiring to Visiplus modules is up the center of the Liberty PX antenna, instead of along sides of the antenna in originally certified system.

3) External power supply used in new system is Energy Star compliant version of Checkpoint P/N 7375794, instead of pre-Energy star version of same in certified system.

4) Emerald *61 electronics, with 2/12/07 firmware version is used in the new system, instead of Emerald *40 electronics with 10/13/06 firmware in originally certified system. Note that Emerald electronics comprises the Main PCB and CPU PCB. The most significant changes to Emerald *61 Main PCB relative to Emerald *40 Main PCB is that Tuning capacitor values are revised in TX and RX circuits:

 - In TX circuit, C2, C17 changed from 220 pF to 120 pF or 100 pF. C11, C23 changed from 220 pF to 150 pF or 68 pF. In RX circuit, C504, C505 changed from 68 pF to 56 pF or 12 pF. Other Main board changes are:

 - Pullup added to global alarm disable (J48 pin 8);

 - Added connection from CPU FPGAs to voltage supervisor master reset (U6 pin 3);

 - Revised pinout of modem connector (J51).

As for Emerald *61 CPU PCB relative to Emerald *40 CPU PCB, changes implemented are:

 - Revised crystal (Y3) from 7168499 to 7222795, and

 - Added connection from FPGAs (U1 pin C1, U7 pin D9) to Min board voltage supervisor master reset.

5) On Emerald *61 electronics end of CheckPro Manager VisiPlus cable pair, two turns (1 pass) of Fair Rite P/N 0431167281 installed instead of one Fair Rite P/N 0431167281 installed on one CheckPro Manager VisiPlus cable with 4 turns (or 3 passes) in originally certified system.

Please consider these changes in respect of the Class II Permissive Change application for the system identified. Note that the Liberty PX with Emerald electronics certified under FCC ID:DO4EMRLDPX is same as FCC ID:DO4EMRLDUP with exception of a Symbol CB3000 Wireless bridge and a Checkpoint designed 5/12 Vdc power adapter module added.

Thank you.

Thorofare, NJ , date 4/20/07

Place of Issue

Seal and signature of applicant