Response to E06-000107-1

1. Additional internal photos have been uploaded.
2. A revised test report has been uploaded.
3. The pole and meter mounted units are already certified (FCC ID: EO9SPIRIT). The install guide is a generic install guide for all our repeaters. The guys in documentation thought this "one manual for all" was best way to go. The unit we are certifying is the Decorative-Mount Repeater on pages 32 - 34. The unit is sealed. The antenna is inside of the molded casing and cannot be accessed by the installer with out breaking the unit. Please refer to page 2 of the install manual for statements regarding modification/repair. Please advise if this needs to be amended or adjusted in any way.
4. A revised test report has been uploaded.
5. A revised test report has been uploaded.
6. A revised test report has been uploaded.
7. The receiver of this device works with all Itron end point products. Typically these include both the 15.247 Centron which has approximately 200 kHz occupied bandwidth as well as our standard 15.249 end point with a 250 kHz occupied bandwidth. The stability over temperature requires another +/- 100 kHz thus 450 kHz is necessary for the receiver bandwidth. Available standard chip receivers utilize typically 500 kHz bandwidth- although they measure slightly less in reality.
8. The repeaters transmitter utilizes a 50 channel hopping table that is based on lower 8 bit of its ID. The device does not monitor the channel before it transmits. The device typically transmits immediately on reception and validation of a received message. The device increments to the next channel in its pseudo-random hopping table upon each transmission until it has completed the list of 50. No attempt is made by the unit to monitor the channel to avoid interference and no reordering of the transmit frequencies is utilized in order to avoid interference or coordinate around interference.
9. Please refer to pages 3 thru 6. Power measurements were taken between 115% and 95% of nominal. There are two plots for low, middle, and high channels. The highest power level found is on page 4 (27.91 dBm @ 920 MHz, 250VAC 60Hz) and was reported on page 18.

E06-000107-1 IC

1. A revised test report has been uploaded.
2. See the answer to item 3 above.