June 7, 2011

Attn: Application Examiner, Reviewing Engineer

Re: Tune-up Procedure

At installation, the system automatically configures its gain to compensate for coaxial cable loss between the IFEU and the RAUs. When the system is brought on-line, the pilots are used as reference signals for system to set its gain to the correct levels When an RAU is connected to any IFEU port, it will automatically be recognized and commanded into service. If an RAU is disconnected, the IFEU indicates disconnect with LED Red/Blank pattern on the corresponding port. The system will maintain RAU disconnects, even through a power cycle, and a user command will be required to clear the disconnect status. The purpose for this is to maintain the last valid RAU configuration (usually on commissioning) so that if any unit is accidentally disconnected (or powered off), that disconnect is indicated even if the Hub is power cycled. The Pilot tone will be two tones (Low and High end of band) used to adjust the gain and slope to compensate for 75 Ohm cable between the IFEU and the RAU. The Pilot tone will have an attenuator to set the pilot level to a constant fixed level over temperature. A calibration tone per band will be generated in the URH and sent to the RAU via the IFEU.

Sincerely,

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