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January 25, 2007

Federal Communications Commission
Office of Engineering Technology
445 12th Street SW
Washington, DC 20554

Dear Sir,

This letter will serve to address FCC correspondence letter 32206 and also 32231 regarding the type certification for the PTI UTX3K Ultra broadcast transmitter. The associated FCC ID number is PW2UTX3KULTRA.

Specifically, the correspondence letters identified above seek additional information on how the transmitter is configured regarding whether integral components are the same for both frequency ranges of the proposed grant frequencies.

As the technical consultant for Pineapple Technology Inc., they have authorized me to provide the information which should help resolve this question. It is my technical opinion that only one set of test data needs to be submitted for both frequency ranges 470-608 MHz and 614-806 MHz based upon the design of the unit.

The design of the unit is such that the amplifier works over the entire 470-806 MHz with no change of parts. The only frequency dependent parts within the transmitter are circulators attached to the output of the individual amplifiers, the channel filter in the exciter, and transmitter final bandpass filter.

The circulators are passive devices and consist of the same block of ferrite with different tuning capacitors to optimize the frequency response in three frequency ranges in the 470-806 band. Each has the exact same set of specifications. These circulators are purchased by PTI from manufacturers who have already optimized the response before shipment to PTI.

The exciter filter is a passive device and consists of one item that is tuned per operating channel. The filter is ordered and delivered to PTI based upon the operating channel.

Likewise the transmitter final bandpass filter is the same block of material but it is tuned to the desired operating channel and supplied by the manufacturer to PTI.

The performance obtained at any test frequency within the entire range of 470-806 MHz will be representative of each transmitter shipped.

If there are any clarifications needed or you have any questions please give me a call at the number above.

Sincerely,

Greg Best
President

Cc Robert Artigo, Pineapple Technology Inc.