



25 October 2005

TUV America, Inc. TCB  
10040 Mesa Rim Road  
San Diego  
Ca 92121

Dear Ms. Evans,

Reference (a) FCC Letter dated 4 January 2005  
Reference (b) What is was Then  
Reference (c) What it is Now

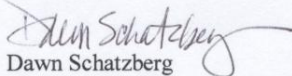
Thank you for your assistance in our request to file and process our application for a Class II permissive change for our 1kW Power Amplifier System, CTX-1000.

The CTX-1000 is used in test aircraft for long-range ground-to-air voice communications. As described in Enclosure (1), due to replacing an obsolete power supply, the CTX-1000 did not pass Section 87.139(c) of the FCC rules. Both Cubic and our customer have been unsuccessful in locating an alternate supplier for an FCC-compliant HF radio that meets our needs for aircraft testing.

The point of failure was the 13<sup>th</sup> harmonic. At the tested frequency, the amplifier was out of specification, at -60dBc PEP. At various frequencies the problem may be as much as 6 dBm. This translates into an absolute level of around 4mW from a total of 1000W. Enclosure (2) and (3) are plots of both passing and non-passing tests.

Please contact me at (858) 505-2717 if you have any questions or need additional information.

Best regards,

  
Dawn Schatzberg  
Cubic Defense Applications