

June 19, 2002

Federal Communications Commission  
Office of Engineering and Technology  
Equipment Approval Services

RE : Application for Class II Permissive Change  
Attached Form 731 – Application for Class II Permissive Change  
FCC ID : LLB6327

Dear Sir or Madam :

Hexagram Inc. is the holder of the Grant of Certification for the LLB6327 telemetry transmitter. Hexagram Inc. wishes to make variations to the electrical construction of the LLB6327 telemetry transmitter which it presently manufactures. This application for Class II permissive change is made pursuant to 2.1043(b)(2) of the Commissions rules.

Hexagram Inc. is required to make the modifications to the LLB6327 due to obsolescence of two of the semiconductor devices used in its construction. The semiconductor devices to be replaced by this Class II permissive change application include the RF preamplifier device and RF final amplifier device. Changes to these devices is summarized below.

RF preamplifier - previous device INA54063 – new device BGA612  
RF final amplifier – previous device TRF8011 – new device SGA9189

Along with these semiconductor devices, numerous associated resistors, capacitors and inductors used for impedance matching and harmonic rejection are also required to change. Due to improved device efficiency, the power consumption of the circuit has also been reduced. Optimization of the circuitry also allows the LLB6327 device to meet the technical emissions requirements of 90.210(d) without the use of the previous RF emissions shield.

Complete information on all proposed changes to the LLB6327 device are documented in the attached circuit schematics and internal photographs.

The modified LLB6327 was tested for conformance to the technical requirements of 90.201 Subpart I-General Technical Standards. Results of tests of the characteristics affected by the change are attached to this application. The modified LLB6327 was found to be in conformance with all technical requirements of 90.201.

Sincerely,

Lawrence M. Sears  
Director of Technology