

- (1) Name and address of applicant: Lockheed Martin Corporation
C/O Claude E. Wells
P.O. Box 4906
Baltimore, MD 21220
- (2) Description of need: Immediate needs to conduct aircraft testing which requires real-time Differential GPS information.
- (3) Type of operation to be conducted: Ground-to-air transmissions of radio signals from ground station using selected frequency.
- (4) Explanation of how facilities will be used: Radio transmission of RF synchronous data from a fixed ground location to an airborne platform to receive differential GPS corrections with aircraft flying within a 60 nautical mile radius of the ground station at Greenville, SC.
- (5) Times and dates of operation: Testing is currently scheduled to begin at the earliest possible time and is to continue during daylight hours on a normal work schedule with transmissions 20% of time for a period of six months.
- (6) Class of station and radio service: Ground/Mobile station in the Experimental Radio Services.
- (7) Location of transmitters: 1) Land site; Lockheed Martin Aeronautics Company, Greenville, SC; Donaldson Center Airport; 34-45-30 N, 082-22-35 W. 2) Mobile site airborne to 60 nautical miles of ground land site.
- (8) Number of fixed transmitters and mobile units. One fixed ground transmitter and one airborne receiver communicating within 60 nautical mile radius of the ground transmitter site.
- (9) Operating frequencies: 158.4125 MHz.
- (10) Output power of transmitters: 35 watts.
- (11) Proposed type of emission: F7D
- (12) Description of antenna: Transmitter (Gnd.) – quarter wave vertical whip, Receiver (Airborne) – quarter wave vertical blade.
- (13) Business or activity of applicant: Applicant is a manufacturer of aircraft and other aerospace products.
- (14) Equipment Mfg. and type: Pacific Crest Corp. model number RFM96W. FCC ID Number: KEARFM961502