

Rockwell

October 1, 1998

Federal Communication Commission
Experimental Radio Services
P.O. Box 358320
Pittsburgh, PA 15251-5315

Madame/Sir:

Pursuant to Sections 5.202 and 5.56 of the Commission's Rules and Regulations, Rockwell Collins, Inc. (Rockwell Collins) hereby requests a Special Temporary Authorization to commence flight testing operations for the testing and development of a new VHF data link protocol.

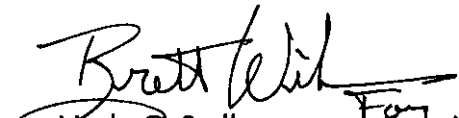
1. The applicant is Rockwell Collins, Inc., 1300 Wilson Boulevard, Suite 200, Arlington, VA 22209
2. This STA is needed to allow continued testing and development of a new aeronautical data link. Rockwell Collins began flight testing a new aeronautical data link on April 1, 1998, for testing and development. This application seeks authorization for operations identical to those under our recent STA (file number: S-3430-EX-98) with the addition of a new emission designator. The Aerospace & Flight Coordinating Council has provided a new frequency recommendation covering the new emission designator.
3. The type of operations under the requested STA will be testing and development pursuant to Section 5.202 (c), (g) and (h).
4. The purpose of operations under the requested STA is to continue testing and development of the capabilities and functionality of a new VHF data link protocol.
5. Operations under the requested STA will be sporadic and noncontinuous, twenty-four hours per day, for the period between October 1, 1998, and February 28, 1999.
6. Operations under the requested STA will be fixed and mobile. The fixed unit will be an aeronautical and fixed radio station, call sign KMC6. The mobile unit will be a flight test aircraft, tail number N206PD.

7. Operations under the requested STA will be conducted in the vicinity of Melbourne, Florida, within a 150 mi radius of the new base station. The new base station will be located at the Rockwell Collins facilities at 1100 w. Hibiscus Boulevard, Melbourne, Florida (28° 05' 10" N, 80° 38' 29" W). Pursuant to the attached Frequency Recommendation, the mobile unit will transmit only while flying at altitudes of 10,000 feet or below.
8. The equipment to be used under this STA includes two type accepted Collins VHF-900D transceivers modified to include the new data link transmission protocol.
9. Rockwell Collins has received temporary recommendation from AFTRCC to use a flight test frequency, 123.425 MHz in the Melbourne area for the period October 1, 1998, until February 28, 1998.
10. The maximum transmitter power is 30 watts from the base and 30 watts from the mobile.
11. Operations under the requested STA will use emission types 13K0A2D and 14K0G1DE.
12. The base station antenna, a vertically polarized ground plane type antenna, will be installed on the roof of an existing building at the Rockwell Collins facilities described above. The mobile antenna will be a typical aircraft VHF antenna.

A Form 159 is enclosed along with our check for \$45.00. It is requested that a date-stamped copy of this letter be returned to the undersigned. A duplicate copy of this letter and a stamped envelope are enclosed for this purpose.

Please direct any questions to Mr. Brett Wilson of this office at (703) 516-8223.

Respectfully submitted,


Linda C. Sadler

Director, Governmental & Regulatory Affairs

cc: Carl Huie, FCC – via facsimile
Ray Adams, Rockwell Collins