



COVER LETTER

January 29, 1999

Federal Communications Commission
Experimental Radio Services
Electronic Filing

Madam/Sir:

Pursuant to Sections 5.61 of the Commission's Rules and Regulations, Rockwell Collins, Inc. (Rockwell Collins) hereby requests a Special Temporary Authorization to continue 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 new aeronautical data links pursuant to six month STA frequency recommendations granted by AFTRCC. This application seeks authorization for continued operations identical to those under our current STA (file number: 3545-EX-ST-1998).
3. Operations under the requested STA will be flight testing operations to continue performance testing and development of the capabilities and functionality of a new VHF data link protocol.
4. Operations under the requested STA will be sporadic and noncontinuous, twenty-four hours per day, for the period between March 1, 1999 and August 31, 1999.
5. 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.

6. 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.
7. 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.
8. Rockwell Collins has received temporary recommendation from AFTRCC to use a flight test frequency, 123.425 MHz in the Melbourne area for the period March 1, 1999, until August 31, 1999.
9. The maximum transmitter power is 30 watts from the base and 30 watts from the mobile.
10. Operations under the requested STA will use emission types 13K0A2D and 14K0G1DE.
11. 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 typical aircraft VHF antenna.

Please call me at (703) 516-8238 with any questions.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Brett Wilson", with a long horizontal line extending to the right.

Brett Wilson
Manager, Governmental & Regulatory Affairs