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09 August 1996

Federal Communications Commission
Experimental Radio Service,
P.O. Box 358320,
Pittsburgh, PA 15251-5320

Dear Sirs:

II Morrow is currently developing a VHF Communications transceiver for use in the Aviation Services band (118.000 to 136.975 Mhz). As a part of this development program, we desire to test transmission and reception performance using fixed, ground mobile and aircraft mobile stations.

One of your engineers (Doug Young 202-418-2440) suggested an experimental license under Part 5 (FCC Form 442) would be suitable.

The enclosed FCC Form 442 (with Exhibits 1 & 2) addresses the requirements of FCC Part 5.53(d) for experimental transmissions within the scope of FCC Part 5.202(g).

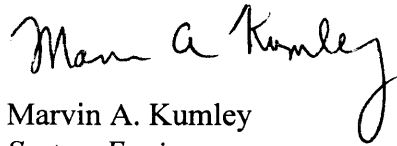
up to 100 mi
We reviewed the Airport (lcom) and Enroute (ecom) channel assignments in the latest Jeppesen aviation database (9609 data cycle) prior to selection of the frequencies requested in Exhibit 1. None of the requested frequencies are included in this database for the portion of the continental United States and Canada within 300 statute miles of Salem. 300 statute miles is the line-of-sight limit for a transmitting ground station at Salem to a receiving aircraft station at 40,000 feet.

201 km
Since we plan aircraft mobile operations up to 125 miles from Salem, potential interference up to 575 miles was also investigated. 450 statute miles is the line-of-sight limit for a transmitting aircraft station at 12,000 feet to a receiving aircraft station at 40,000 feet. The Jeppesen database west of 117 deg longitude, and between 36.5 and 53.3 degrees latitude (all the territory within 575 statute miles of Salem, Oregon) includes only one Exhibit 1 frequency (121.25). 121.25 Mhz is assigned to an Area Control Center station at N39° 01' 13.65'' W120° 35' 05.73'', about 424 statute miles from Salem. We need 121.25 Mhz transmission to demonstrate non-interference with on-aircraft equipment. Only ground test of the aviation station is needed for this purpose.

40 km *200 km* *5(6) reg 150 mi*
Thus, we do not expect any interference with existing aviation services for our planned ground fixed (at Salem), ground mobile (up to 25 miles from Salem) or aircraft (up to 125 miles from Salem) transmissions.

If there are any questions, do not hesitate to contact me.

Best Regards,

A handwritten signature in black ink that reads "Marvin A. Kumley". The signature is written in a cursive style with a large, stylized 'M' and 'K'.

Marvin A. Kumley
System Engineer