

Memorandum of Understanding

Between and Among Members of the

Aerospace and Flight Test Radio Coordinating Council (AFTRCC)

Introduction

A. Intent

The intent of this document is to provide an agreement for FCC experimental licensing and coordination of certain FAA frequencies by aerospace companies in Wichita, KS for the purpose of avionics testing and aircraft certification. The perceived benefits of this agreement are as follows:

- Reducing the burden on the FAA caused by repeatedly engineering frequencies, coordinating temporary frequency assignments and approving the resulting FCC applications for short-term Special Temporary Authorizations ("STAs").
- Reducing the burden on the FCC caused by repeated processing of applications for short-term STAs.
- Reducing the burden on the aerospace companies due to the need for repeated requests for short-term STAs.
- Increased efficiency and utilization of the RF spectrum.

B. Background

AFTRCC is the FCC-certified, and NTIA-recognized, coordinator for Non-Government use of the shared Government-Non-Government flight test frequencies. AFTRCC member companies in the Wichita area have formed a subcommittee which handles coordination issues specific to the companies based in Wichita. That subcommittee is known as "WAFTRCC" for Wichita Area Flight Test Radio Coordinating Committee. Current members are The Boeing Company, Bombardier-Learjet Inc, Cessna Aircraft Company, Hawker Beechcraft and Spirit AeroSystems, Inc.

Aerospace manufacturers are required to comply with domestic and foreign regulations to certify that avionics systems function properly, meet performance criteria, and that the operation of any device or system does not interfere with the operation of any other device or system. In the U.S., FAA certification is achieved through compliance with Title 14 of the Code of Federal Regulations.

There are a variety of tests that must be performed for aircraft certification, and even a simple change may necessitate a series of required tests. For example, relocating a

VHF antenna may require testing for interference to GPS navigation systems on specific frequencies, and testing on frequencies at the bottom, middle and top of the transceiver operating band for interference between VHF com 1 and com 2 radios, and for range and blanking. Depending on the test, transmit duration varies from a few seconds of continuous transmission to a few hours of air-ground-air voice communications between an aircraft and a fixed station on the ground. Certain of these tests require the use of FAA voice frequencies, and FAA representatives have suggested that a coordination agreement between and among AFTRCC Member Companies in Wichita would be helpful for the FAA's consideration of the referenced usage.

Statement & Provisions

Since 2001, AFTRCC members have demonstrated the ability to fairly and efficiently coordinate and share L and S-band spectrum for Aeronautical Mobile Telemetry operations in the area of Wichita, KS. AFTRCC members in Wichita now wish to expand their history of successful cooperation to include the coordination of certain FAA frequencies which might be licensed by the FCC on an experimental basis (following IRAC coordination) for the purposes of avionics testing and aircraft certification.

Those AFTRCC members which elect to seek experimental FCC licenses for test frequencies as described above, agree as follows:

1. AFTRCC representatives will coordinate in good faith to fairly and efficiently share the spectrum in the Wichita area, including scheduling usage so as to avoid conflicting usage.
2. All use will be in accordance with the terms and conditions of the FCC license or instrument of frequency authorization, including a requirement for prior scheduling of any actual use with the designated AFTRCC frequency coordinator, and appropriate FAA representative, in the Wichita area.

Danny B. Hankins 7/24/07
Danny B. Hankins Date
Cessna Aircraft Company

Mart Coons 7/24/07
Martin Coons Date
Hawker Beechcraft Corporation

D. Hoehn 7/27/07
Don Hoehn Date
Learjet Inc

Rex D. Miller 7/18/07
Rex D. Miller Date
The Boeing Company

Donald K. Rice 7/26/07
Donald K. Rice Date
Spirit AeroSystems, Inc.