

### **DESCRIPTION OF EXPERIMENT**

Under this call sign, WH2XIC, Rockwell Collins, Inc. (“Rockwell Collins”) has been engaged in conducting experiments, tests, and demonstrations of Wideband HF (“WBHF”) technology and developmental products on airborne platforms, primarily for U.S. government applications. It seeks to renew this experimental license with one frequency modification.

As with past experimentation, the airborne transmit platform will be used in the over-the-air demonstrations and testing of WBHF data transmissions. The platforms may include fixed and rotary wing aircraft operating in U.S. airspace at various altitudes and flight conditions, and might fly over U.S. territory and up to 200 miles from shore over international waters.

The over-the-air demonstration and testing provides a real time verification of WBHF communication performance. In addition, the airborne platform will demonstrate the use of 4G ALE software to analyze signal propagation and then choose the best frequency of propagation and the supporting modem data rate and bandwidth for high speed data communication.

Rockwell Collins requests the following frequencies for use in this experiment, subject to the special conditions noted below the table. Other than changing the designated point of contact, the special conditions remain the same as those under the existing experimental license.

<b>Start (kHz)</b>	<b>Stop (kHz)</b>
2398	2800
3075	3171
3260	3350
3550	4050
4576	4611
4750	4950
5100	5315
5760	5960
6060	6160
6770	6970
7410	7483
7990	8060
9050	9350
10200	10400
10600	10800
11550	12090
13850	14550
15760	15860
15960	16060
16160	17450

18040	18610
19460	20460
20960	21860
22860	23160
23460	24460
25230	26490
26910	27440
27990	29720

**Special Conditions:**

- (1) The station identification requirements of Section 5.115 of the Commissions' Rules are waived.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (4) The following frequency bands must be notched out:
  - 2495 - 2505 kHz
  - 19990 - 20010 kHz
- (5) The designated point-of-contact to terminate transmissions if interference occurs is Mr. Joe Splean at (319) 295-6691.