

20-Jul-2023

### **Additional Information**

- a) Center frequencies in the C-band were selected to comply with the NTIA 4400-4940 MHz band plan using the highest emission bandwidth required by each transmitter for the testing.
- b) Textron Aviation has some of the requested frequencies centered on and/or overlapping emissions bandwidth other FCC experimental licenses held by Textron Aviation operating out of the same facilities. We will coordinate internally to ensure there is no conflict between the programs.
- c) Our testing requires a minimum of two frequencies in S-band and two frequencies in C-band to accommodate the test configurations planned for this program. In practice, we will only test 3 datalinks at the same time. Some configurations require 2 S-band channels and one C-band channel, while other configurations will utilize 2 C-band channels and one S-band channel. Four example configurations are shown in the system diagram attachment to this application.
- d) ERP power requested for each frequency at each location is the maximum needed to accommodate all of the configurations we plan to test.
- e) ERP calculations do not include approximately 2 dB of line losses. Therefore, the actual radiated power will be less than what is requested in this application.
- f) Locations 1 and 3 are ground operations only, with a 10 km radius. The antennas will typically be mounted on a telescoping pole at temporary locations.
- g) Locations 2 and 4 will include airborne operations with a maximum radius of 75 km around the Beech Factory Airport. The maximum altitude requested is 4,000 ft AGL. Initial testing will be done on the ground and/or using manned aircraft. Airborne testing of unmanned aircraft will only be conducted as approved by the Federal Aviation Administration.
- h) Stop Buzzer POCs are as follows:

Colton Tasker  
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Very Respectfully,

Dan Hankins  
Engineer Spc  
Textron Aviation, Inc.