

The Boeing Company

Request for Experimental License Exhibit

BAE RT-1805/APN
Independent Research and Development

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by

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Why an experimental license is necessary

The Boeing Company requests an OET experimental license in order to test BAE's RT-1805/APN Altimeter. Boeing anticipates future government contracts that will require implementation of an altimeter system onboard Unmanned Aircraft Systems (UAS). This experimental license will allow testing of this particular altimeter system to gauge its performance. Once a government contract is granted, Boeing will procure the appropriate Federal Government frequency assignments. Boeing will greatly appreciate a determination as quickly as possible to meet the directive schedule.

Purpose of Operation

The purpose of the altimeter system is to provide altitude data that will be used to navigate and land the Unmanned Aircraft Systems (UAS).

Test Description

The altimeter system will be operated near Boeing building 73-75 in Berkeley, Missouri. Boeing is requesting a license with a 322 kilometer radius to accommodate flight testing of the UAS.

Location

The Boeing Company
Bldg 73-75
8181 Aviation Drive
Berkeley (St Louis County), MO 63134-0000
38° 45' 5"N
90° 21' 21"W
WGS84/NAD83
322 kilometer radius

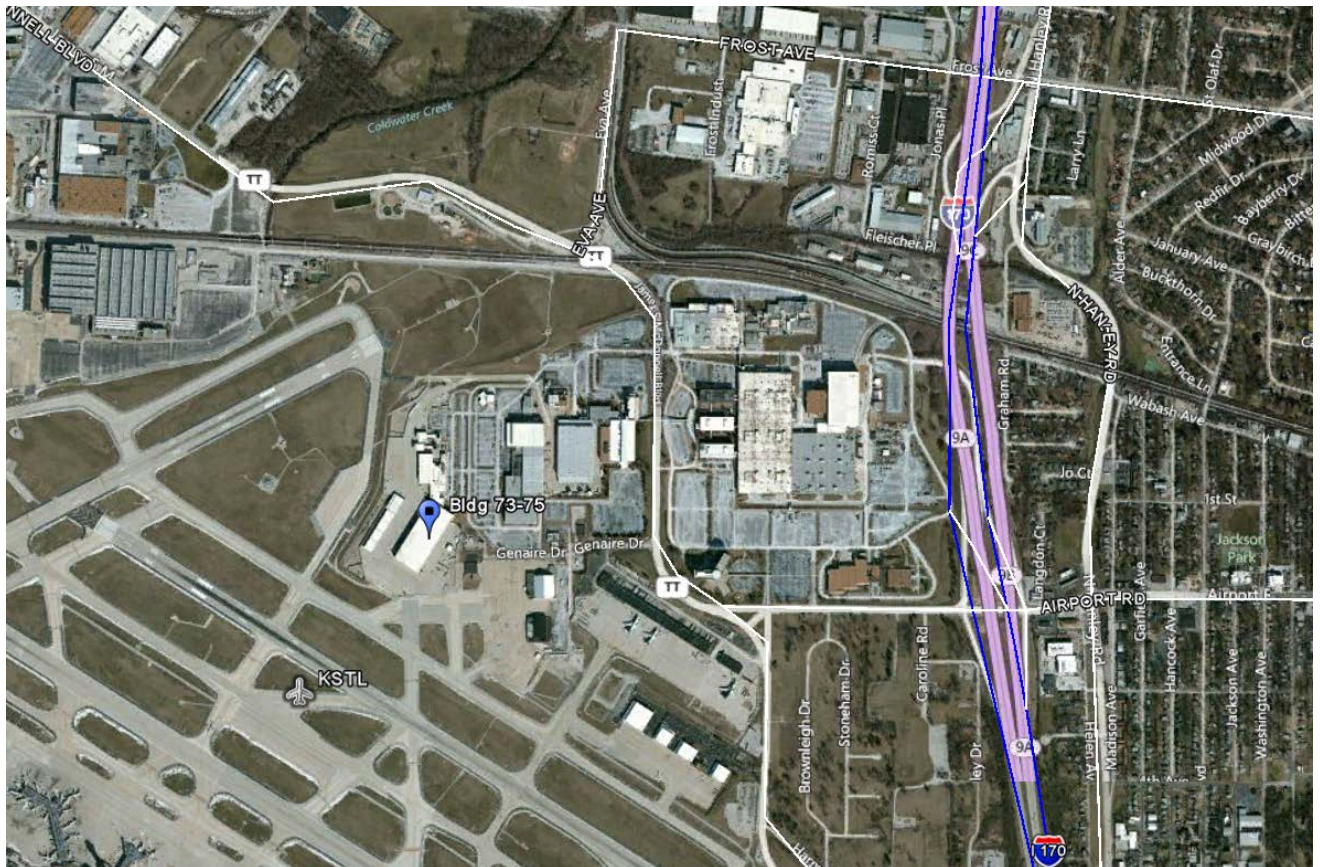


Figure 1 – Boeing, Berkeley, MO (Building 73-75)

Schedule

The requested experimental license is to be effective for 24 months upon a grant from the FCC/OET. Operations are to start September 1, 2018. Operations will be anytime, 24 hours a day, 7 days a week, within a 322 kilometer radius of given location as necessary.

Stop Buzzer Contact Information

The equipment will be operated by Boeing employees.

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Frequencies, Power and Emission

Frequency	Power	Emission
4200-4400	1 watts (peak envelope power)	200MG1N

Equipment and Antenna Parameters

Transmitter Manufacturer	BAE Systems
Transmitter Part Number	RT-1805/APN
Emission	200MG1N
Antenna Manufacturer	Honeywell, Inc.
Antenna Model Number	AS-2595
Antenna Type	Horn
Antenna Gain	11 dBi
Antenna Beamwidth	40 degrees horizontal; 40 degrees vertical
Antenna Polarization	Linear