

## **The Boeing Company**

### **Request for Experimental License Exhibit**

Quasonix Telemetry Transmitter Part Number QSX-VSR-111-05S-20-1B-HR46-WV-VP-AC  
Independent Research and Development

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by

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### **Why a STA is necessary**

The Boeing Company requests an experimental license in order to operate the Quasonix telemetry transmitter. Boeing anticipates future government contracts that will require implementation of the Quasonix telemetry system. This experimental license will allow testing with this particular telemetry system. Once a government contract is granted, Boeing will procure the appropriate Federal Government frequency assignments.

### **Purpose of Operation**

The purpose of the telemetry system is to measure performance of an airborne test vehicle. The airborne test vehicle will be in a laboratory setting with no actual flight tests performed.

### **Test Description**

The telemetry system will be operated near Boeing building 73-506 in St Charles, Missouri within a 1 kilometer radius.

### **Timely Response Appreciated**

Boeing will greatly appreciate a determination as quickly as possible to meet the directive schedule.

## Location

The Boeing Company  
Bldg 73-506  
2600 North Highway 94  
St Charles (St Charles County), MO 63301-0060  
38° 48' 18"N  
90° 28' 21"W  
WGS84/NAD83

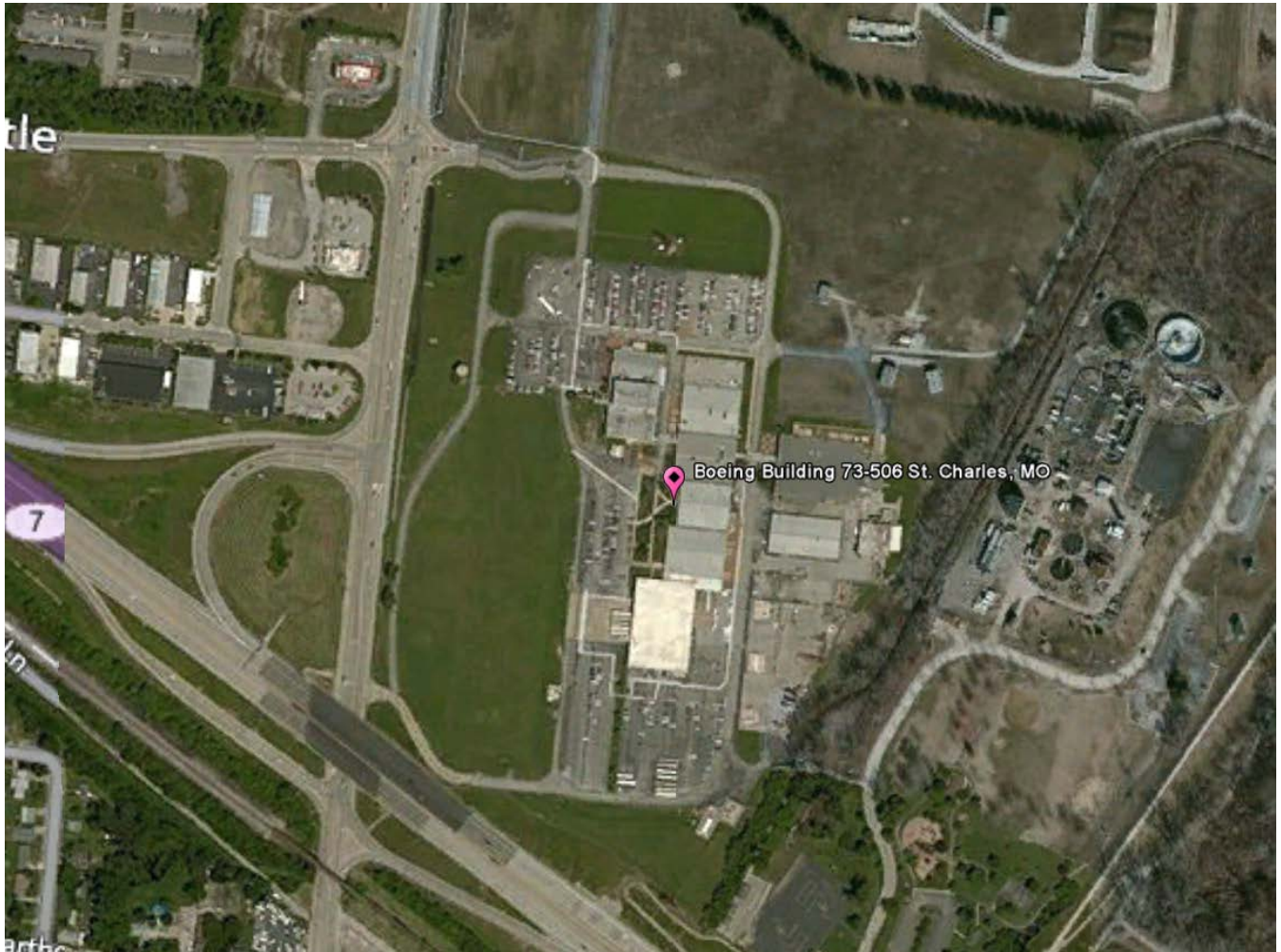


Figure 1 – Boeing, St Charles, MO (Building 73-506)

## Schedule

The requested experimental license is to be effective for 2-years upon a grant from the FCC/OET. Operations will be anytime, 24 hours a day, 7 days a week, within a 1 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 |
|-----------|----------------|----------|
| 2214.5    | 5 watts (mean) | 6M60F1D  |
| 2235.5    | 5 watts (mean) | 6M60F1D  |
| 2269.5    | 5 watts (mean) | 6M60F1D  |

## Equipment and Antenna Parameters

|                          |                                              |
|--------------------------|----------------------------------------------|
| Transmitter Manufacturer | Quasonix                                     |
| Transmitter Part Number  | QSR-VSR-111-05S-20-1B-HR46-WV-VP-AC          |
| Frequency Band           | 2200 – 2290 MHz (500 kHz tuning increments)  |
| Emission                 | 6M60F1D                                      |
| Antenna Manufacturer     | AeroAntenna Technology, Inc.                 |
| Antenna Model Number     | 8618661-1001                                 |
| Antenna Type             | Patch                                        |
| Antenna Gain             | 0 dBi                                        |
| Antenna Beamwidth        | 360 degrees horizontal; 360 degrees vertical |
| Antenna Polarization     | Linear                                       |