

# TECHNICAL DESCRIPTION

## Public Viewable

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The Boeing Company  
Global Spectrum Management

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### PURPOSE FOR APPLICATION

To obtain a 2-Year FCC Experimental License to operate FrSky Radio Equipment and a Team Black Sheep Video Transmitter to be used to support Boeing Research & Technology testing to be conducted in Silex (Lincoln), Missouri; and at the White Sands Missile Range (Socorro) located near Socorro, New Mexico.

### TEST DESCRIPTION

The Boeing Company would like to be granted the ability to be able to transmit at the following frequencies for Command and Control of Unmanned Air Vehicles for the purpose of autonomous technology research and development, and to support Acoustical Flight testing at the WSMD Acoustic Range.

### SCHEDULE, DATES OF OPERATION

Boeing will greatly appreciate a determination as quickly as possible to meet the directive schedule, but would like to propose a start date of September 1.

### STOP BUZZER CONTACT INFORMATION

The designated point-of-contact to terminate transmissions if interference should occur is:  
Peter A. Drain (314) 705-9332.

### STATION LOCATION

#	Location	County	Latitude (DMS NAD 83)	Longitude (DMS NAD83)	Radius of Operation	Flight Level
(1)	SILEX. MO	LINCOLN	NL 39-06-42	WL 091-02-42	8 km	MOBILE: Up to 1,200 ft. AGL flight level
(2)	WHITE SANDS MISSILE RANGE (WSMR), NM	SOCORRO	NL 33-33-08	WL 106-40-47	8 km	MOBILE: Up to 5,000 ft. MSL flight level

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## EQUIPMENT LIST

Manufacturer	Model	Description	Mobile Antenna	Station Class	Emission Designator	Tx Power (ERP)	Frequency (MHz)
FrSky	R9M	Radio Control Module	Dipole/3 dB	MO	230KF1D	1 W	915
FrSky	R9 Slim+	Long Range Receiver	Dipole/3 dB	MO	230KF1D	1 W	915
Team Black Sheep	TBS Unify Pro 5G8 V3 (RP-SMA)	Video Transmitter	Omni-directional/29 dB	MO	10M0P0N	800 mW	5800

## EQUIPMENT SPECIFICATIONS

Reference attached Spec Sheets