

TECHNICAL DESCRIPTION

Public Viewable

The Boeing Company
Frequency Management Services

Submitted 10/7/15

by

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PURPOSE

The purpose of this application is to license a 216-220 MHz micro-transmitter operating at 50 mW that would be used to help locate UAVs, currently under development and testing, by radio location especially on the ground after a flight. Boeing believes this transmitter requires a license as noted by its FCC Part 5 device Type ID registration and not a Part 15 device. This application will not be used for production or manufacturing testing. The UAV operation is strictly for research, development, proof of concept and demonstrations.

REASON FOR APPLICATION

Boeing is requesting an STA License to provide flight demonstrations of a UAV system for potential customers and facilitate various tests at the following location:

LOCATION

#	Location	County	Latitude	Longitude	Radius of Operation	Flight Level
(1)	Mojave, CA	Kern	35-20-49.5N	117-48-31.1W	8 km	MOBILE: Ground checks only

DATES OF OPERATION

October 13, 2015, for 6 months

EQUIPMENT LIST

Manufacturer	Model	Mobile Ant	TX Power	Frequency (MHz)
WALSTON RETRIEVAL	CA MODA 3750-HF MVS LONG RANGE	15 dBi Stub	.05 WATTS	216-220

FREQUENCIES

Purpose	MHz	Emission	RF Power (ERP)	RF Unit	Mode
BEACON	216-220	1K00A1D	50 mW	ERP	MOBILE

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CA MODA 3750-HF MVS LONG RANGE:

Range 9+ miles ground. 90+ miles Line of Sight (LOS).
Weighs 28 grams with 2 changeable lithium batteries.
Battery life 30 days! Has magnet activated on/off switch. Size 2 1/2 x 7/8 x 3/4. Changeable Braided 19" flexible wire antenna. A real marvel!



STOP BUZZER CONTACT INFORMATION

The designated point-of-contact to terminate transmissions if interference should occur is Christopher M. Eisele, at (509)637-5310.