

Technical Description

MSA Talon Radio & Ground Station

The Boeing Company

Submitted: 6/23/2014
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The Boeing Company
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JUSTIFICATION:

Request extension of STA, FCC call sign **WH9XEH, 1065-EX-ST-2013. IAW Title 47 Part 5,61(11)c** Extensions of an STA may be granted provided that an application for a conventional experimental license that is consistent with the terms and conditions of that STA (*i.e.*, there is no increase in interference potential to authorized services) has been filed at least 15 days prior to the expiration of the licensee's STA. When such an application is timely filed, operations may continue in accordance with the other terms and conditions of the STA pending disposition of the application, unless the applicant is notified otherwise by the Commission.

Test of Boeing Maritime Surveillance Aircraft (MSA) Demonstrator

These frequencies are requested to support Boeing MSA aircraft **DCS/Independent Research & Development (IR&D)** production and testing. The MSA is a long-range, coastal surveillance, intelligence, and reconnaissance aircraft capable of broad-area, maritime and littoral operations. The MSA demonstrator is a Bombardier Challenger 604 aircraft. Boeing will be flight testing the aircraft in China Lake CA, Yuma AZ, and Hickam AFB HI.

OBJECTIVE & TEST DESCRIPTION

This requirement supports Line Of Sight and Beyond Line Of Sight voice and data link communication testing during flight test. Communication will be via a Talon Radio ground station.

OPERATION OVERVIEW

Start Date:	July 03, 2014
Stop Date:	July 03, 2016
Manufacturer:	
Rockwell Collins, Inc.	Model: RT-8102
Frequencies:	1ea, M230.750, M325.5, M356
Emissions:	18K6F1E, 23K0F3E, 37K3F1E, 13K2F3E, 53K0F1D 5K0A3E, 7K0A3E
Antenna Gain:	3 dBi
ERP:	56 Watts
Station Class:	FX, MO

STOP BUZZER POINT OF CONTACT:

Phil Tsiang at 253-657-8218, Mark Poad at 253-657-8265 or Tom Ott at 253-657-7934 , Jahn Goede 206-544-2543

LOCATIONS

Location: China Lake, CA (Excluding Mexico)
Latitude: 35° 41' 21.54" N
Longitude: 117° 41' 15.07" W
Radius: 600 Kilometers
Max Flight Level: 37,000 Feet AGL

Location: Yuma, Az (Excluding Mexico)
Latitude: 32° 39' 13" N
Longitude: 114° 36' 5.63" W
Radius: 600 Kilometers
Max Flight Level: 37,000 Feet AGL

Location: Hickam AFB, HI
Latitude: 21° 20' 35.18" N
Longitude: 157° 57' 42.05" W
Radius: 600 Kilometers
Max Flight Level: 37,000 Feet AGL

B ish

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Dakota

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Idaho

Wyomong

Nebraska



Illonoos

United States



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Ker

Oklahoma Arkansas Tennes

Dallas Mississippi Alabarr

Teus

Louos,na
Houston

Monterrey

Gulf of
/4riCO

Mexico



GuaterNI.t
Guatemala Hondun
Nicl



HickamAFB
Hawau

600km