

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

XD FX MO

(Class of Station)

WC9XLI

(Call Sign)

0351-EX-ST-2006

(File Number)

NAME Raytheon Systems (SAS)

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

Demonstrating the capabilities of an advanced air-to ground radar for eventual use by U.S. government customers.

Station Locations

- (1) China Lake NAWC, CA - NL 35-41-05; WL 117-40-45; MOBILE: China Lake NAWC, CA, at an altitude of 5000 ft to 35000 ft, within 250 km, centered around NL 35-41-05; WL 117-40-45
- (2) LAX Airport, Los Angeles, CA - NL 33-56-17; WL 118-25-16; MOBILE: LAX Airport, Los Angeles, CA, at an altitude of 5000 ft to 35000 ft, within 250 km, centered around NL 33-56-17; WL 118-25-16

Frequency Information

China Lake NAWC, CA - NL 35-41-05; WL 117-40-45; MOBILE: China Lake NAWC, CA, at an altitude of 5000 ft to 35000 ft,

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.2-17.3 GHz	MO	1G10V2N	190 kW (ERP)	
16.2-17.3 GHz	FX	1G10V2N	190 kW (ERP)	

This authorization effective June 08, 2006 and
will expire 3:00 A.M. EST December 09, 2006

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

LAX Airport, Los Angeles, CA - NL 33-56-17; WL 118-25-16; MOBILE: LAX Airport, Los Angeles, CA, at an altitude of 5000 ft

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.2-17.3 GHz	MO	1G10V2N	190 kW (ERP)	
16.2-17.3 GHz	FX	1G10V2N	190 kW (ERP)	

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) Raytheon Systems must not cause interference to the following governments fix microwave assignments:

15161.25 MHz	NV	RED MTN
15168.75 MHz	CA	MENLO PARK
15268.75 MHz	CA	MENLO PARK
15268.75 MHz	CA	MTN VIEW
15268.75 MHz	CA	MENLO PARK
15311.25 MHz	NV	BOULDER CITY

- (3) Raytheon Systems must coordinate prior to use with the following DOD Frequency Coordinators:

DoD AFC Nellis, Dennis G. Pack, Sr., 702-652-3417
 DoD WAFC, Mr. Steve Tozon, 805-989-7983
 WAFC PT Mugu, 805-989-7983
 Navy Air Warfare Center, China Lake 760-939-6827

- (4) The radar must operate between 16.2-17.3 GHz only and NTIA objects to the use of the band 15-16.2 GHz.
- (5) NTIA has been told that the Pulse Repetition Rate is 500 Hz/15 kHz and the Pulse Duration is 0/125 micro seconds. The system must operate within these parameters since the NTIA analysis is based on these reported values.