

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

WC9XLI

(Call Sign)

XD FX MO

(Class of Station)

0577-EX-PL-2006

(File Number)

NAME Raytheon Systems (SAS)

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(i) of the Commission's Rules

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, 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
- (3) EL SEGUNDO (LOS ANGELES), CA - NL 33-55-44; WL 118-23-33

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 f

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

This authorization effective June 06, 2008 and
will expire 3:00 A.M. EST June 06, 2010

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

LAX AIRPORT, CA - NL 33-56-17; WL 118-25-16; MOBILE: LAX Airport, Los Angeles, CA, at an altitude of 5000 ft to 35000 ft

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

EL SEGUNDO (LOS ANGELES), CA - NL 33-55-44; WL 118-23-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.75 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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) 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

- (4) 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

- (5) The radar must operate between 16.2-17.3 GHz only and NTIA objects to the use of the band 15-16.2 GHz.

Special Conditions:

- (6) 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.