

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

EXPERIMENTAL

(Nature of Service)

WA2XVC

(Call Sign)

XC FX

(Class of Station)

0052-EX-RR-2007

(File Number)

NAME RAYTHEON COMPANY

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(b) of the Commission's Rules

Station Locations

(1) GOLETA, CA - NL 34-25-30; WL 119-50-45

Frequency Information

GOLETA, CA - NL 34-25-30; WL 119-50-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
54-60 MHz	FX	NON	100 W (ERP)	
66-72 MHz	FX	NON	100 W (ERP)	
76-88 MHz	FX	NON 12M0P0N	100 W (ERP)	
149.9-150.8 MHz	FX	NON	100 W (ERP)	

This authorization effective June 01, 2007 and
will expire 3:00 A.M. EST June 01, 2012

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

GOLETA, CA - NL 34-25-30; WL 119-50-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
174-204 MHz	FX	N0N 20M0P0N	100 W (ERP)	
210-218 MHz	FX	N0N	100 W (ERP)	
420-450 MHz	FX	N0N 20M0P0N	100 W (ERP)	
902-928 MHz	FX	100HA1A 26M0F8W 26M0P0N	2 kW (ERP)	
1545-1660 MHz	FX	100HA1A 50M0F8W 50M0P0N	2 kW (ERP)	
1710-1850 MHz	FX	100HA1A 50M0F8W 50M0P0N	2 kW (ERP)	
2910-3700 MHz	FX	100HA1A 50M0F8W 50M0P0N	20 kW (ERP)	
4400-4990 MHz	FX	100HA1A 50M0F8W	20 kW (ERP)	

Frequency Information

GOLETA, CA - NL 34-25-30; WL 119-50-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4400-4990 MHz	FX	50M0P0N	20 kW (ERP)	
5250-5470 MHz	FX	100HA1A 50M0F8W 50M0P0N	20 kW (ERP)	
5490-5560 MHz	FX	100HA1A 50M0F8W 50M0P0N	20 kW (ERP)	
5650-5925 MHz	FX	100HA1A 50M0F8W 50M0P0N	20 kW (ERP)	
8500-9000 MHz	FX	100HA1A 50M0F8W 50M0P0N	20 kW (ERP)	
9200-10000 MHz	FX	100HA1A 50M0F8W 50M0P0N	20 kW (ERP)	
13250-14510 MHz	FX	100HA1A 50M0F8W 50M0P0N	20 kW (ERP)	

Frequency Information

GOLETA, CA - NL 34-25-30; WL 119-50-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15400-17700 MHz	FX	100HA1A 50M0F8W 50M0P0N	20 kW (ERP)	

Special Conditions:

- (1) All operations subject to prior coordination with Area Frequency Coordinator Pacific Missile Range, Point Mugu, California: (805) 989-7983.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (4) Operation is subject to prior coordination with the Society of Broadcast Engineers, Inc. (SBE); ATTN: Executive Director; 9247 North Meridian Street, Suite 305; Indianapolis, IN 46260; telephone, (866) 632-4222; FAX, (317) 846-9120; e-mail, executivedir @ sbe.org; information, www.sbe.org.
- (5) Operations on 180-186 MHz shall cease when TV station, Channel 8-Santa Barbara, CA (K08LJ), commences service.
- (6) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by NAVAL AIR SYSTEM COMMAND Contract Nos. N00024-93-C-5436, N00024-93-C-6480, N68786-93-C-6493, and DARPA MDA972-01-9-0020. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.
- (7) All operations subject to prior coordination with Western Area Frequency Coordinator: (760) 939-6948.