

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

EXPERIMENTAL

(Nature of Service)

XC FX

(Class of Station)

WE2XAQ

(Call Sign)

0088-EX-RR-2009

(File Number)

NAME Lockheed Martin Corporation

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) PALMDALE (LOS ANGELES), CA - NL 34-37-07; WL 118-05-44
- (2) PALMDALE (LOS ANGELES), CA - NL 34-37-07; WL 118-05-45
- (3) PALMDALE (LOS ANGELES), CA - NL 34-37-07; WL 118-05-47
- (4) PALMDALE (LOS ANGELES), CA - NL 34-37-12; WL 118-05-43
- (5) PALMDALE (LOS ANGELES), CA - NL 34-37-19; WL 118-05-31
- (6) PALMDALE (LOS ANGELES), CA - NL 34-37-23; WL 118-05-40
- (7) PALMDALE (LOS ANGELES), CA - NL 34-37-21; WL 118-05-34
- (8) PALMDALE (LOS ANGELES), CA - NL 34-37-06; WL 118-07-05
- (9) PALMDALE (LOS ANGELES), CA - NL 34-37-07; WL 118-07-08
- (10) PALMDALE (LOS ANGELES), CA - NL 34-37-06; WL 118-07-06
- (11) PALMDALE (LOS ANGELES), CA - NL 34-37-04; WL 118-07-08
- (12) PALMDALE (LOS ANGELES), CA - NL 34-37-04; WL 118-07-06
- (13) PALMDALE (LOS ANGELES), CA - NL 34-36-50; WL 118-07-08
- (14) PALMDALE (LOS ANGELES), CA - NL 34-36-50; WL 118-07-03
- (15) PALMDALE (LOS ANGELES), CA - NL 34-36-52; WL 118-07-02
- (16) PALMDALE (LOS ANGELES), CA - NL 34-36-52; WL 118-07-08
- (17) PALMDALE (LOS ANGELES), CA - NL 34-38-14; WL 118-05-08
- (18) PALMDALE (LOS ANGELES), CA - NL 34-37-11; WL 118-06-55
- (19) PALMDALE (LOS ANGELES), CA - NL 34-36-47; WL 118-07-11
- (20) PALMDALE (LOS ANGELES), CA - NL 34-36-52; WL 118-07-10
- (21) PALMDALE (LOS ANGELES), CA - NL 34-38-16; WL 118-05-23
- (22) PALMDALE (LOS ANGELES), CA - NL 34-38-15; WL 118-05-22
- (23) PALMDALE (LOS ANGELES), CA - NL 34-38-15; WL 118-05-26
- (24) PALMDALE (LOS ANGELES), CA - NL 34-38-16; WL 118-05-25

This authorization effective May 02, 2009 and
will expire 3:00 A.M. EST May 01, 2011

FEDERAL
COMMUNICATIONS
COMMISSION



Frequency Information

PALMDALE (LOS ANGELES), CA - NL 34-37-07; WL 118-05-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	20M4W7D	81.3 pW (ERP)	
1575.42 MHz	FX	20M4W7D	92.8 pW (ERP)	

PALMDALE (LOS ANGELES), CA - NL 34-37-07; WL 118-05-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	20M4W7D	84 pW (ERP)	
1575.42 MHz	FX	20M4W7D	80.2 pW (ERP)	

PALMDALE (LOS ANGELES), CA - NL 34-37-07; WL 118-05-47

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	20M4W7D	66.7 pW (ERP)	
1575.42 MHz	FX	20M4W7D	76.6 pW (ERP)	

Frequency Information

PALMDALE (LOS ANGELES), CA - NL 34-37-12; WL 118-05-43

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	20M4W7D	88.3 pW (ERP)	
1575.42 MHz	FX	20M4W7D	108 pW (ERP)	

PALMDALE (LOS ANGELES), CA - NL 34-37-19; WL 118-05-31

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	20M4W7D	21.4 pW (ERP)	
1575.42 MHz	FX	20M4W7D	28.6 pW (ERP)	

PALMDALE (LOS ANGELES), CA - NL 34-37-23; WL 118-05-40

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	20M4W7D	33.4 pW (ERP)	
1575.42 MHz	FX	20M4W7D	42 pW (ERP)	

Frequency Information

PALMDALE (LOS ANGELES), CA - NL 34-37-21; WL 118-05-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	20M4W7D	33.4 pW (ERP)	
1575.42 MHz	FX	20M4W7D	42 pW (ERP)	

PALMDALE (LOS ANGELES), CA - NL 34-37-06; WL 118-07-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	20M4W7D	92.4 pW (ERP)	
1575.42 MHz	FX	20M4W7D	89.3 pW (ERP)	

PALMDALE (LOS ANGELES), CA - NL 34-37-07; WL 118-07-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	20M4W7D	92.4 pW (ERP)	
1575.42 MHz	FX	20M4W7D	89.3 pW (ERP)	

Frequency Information

PALMDALE (LOS ANGELES), CA - NL 34-37-06; WL 118-07-06

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	20M4W7D	71.2 pW (ERP)	
1575.42 MHz	FX	20M4W7D	90.3 pW (ERP)	

PALMDALE (LOS ANGELES), CA - NL 34-37-04; WL 118-07-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	20M4W7D	92.4 pW (ERP)	
1575.42 MHz	FX	20M4W7D	89.3 pW (ERP)	

PALMDALE (LOS ANGELES), CA - NL 34-37-04; WL 118-07-06

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	20M4W7D	92.4 pW (ERP)	
1575.42 MHz	FX	20M4W7D	89.3 pW (ERP)	

Frequency Information

PALMDALE (LOS ANGELES), CA - NL 34-36-50; WL 118-07-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	20M4W7D	102.2 pW (ERP)	
1575.42 MHz	FX	20M4W7D	100.1 pW (ERP)	

PALMDALE (LOS ANGELES), CA - NL 34-36-50; WL 118-07-03

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	20M4W7D	102.2 pW (ERP)	
1575.42 MHz	FX	20M4W7D	100.1 pW (ERP)	

PALMDALE (LOS ANGELES), CA - NL 34-36-52; WL 118-07-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	20M4W7D	12.1 pW (ERP)	
1575.42 MHz	FX	20M4W7D	14.2 pW (ERP)	

Frequency Information

PALMDALE (LOS ANGELES), CA - NL 34-36-52; WL 118-07-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	20M4W7D	12.1 pW (ERP)	
1575.42 MHz	FX	20M4W7D	14.2 pW (ERP)	

PALMDALE (LOS ANGELES), CA - NL 34-38-14; WL 118-05-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	20M4W7D	41.6 pW (ERP)	
1575.42 MHz	FX	20M4W7D	53.7 pW (ERP)	

PALMDALE (LOS ANGELES), CA - NL 34-37-11; WL 118-06-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	20M4W7D	49.2 pW (ERP)	
1575.42 MHz	FX	20M4W7D	63.2 pW (ERP)	

Frequency Information

PALMDALE (LOS ANGELES), CA - NL 34-36-47; WL 118-07-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	20M4W7D	102.2 pW (ERP)	
1575.42 MHz	FX	20M4W7D	100.1 pW (ERP)	

PALMDALE (LOS ANGELES), CA - NL 34-36-52; WL 118-07-10

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	20M4W7D	19.3 pW (ERP)	
1575.42 MHz	FX	20M4W7D	23.9 pW (ERP)	

PALMDALE (LOS ANGELES), CA - NL 34-38-16; WL 118-05-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	20M4W7D	38.7 pW (ERP)	
1575.42 MHz	FX	20M4W7D	38.9 pW (ERP)	

Frequency Information

PALMDALE (LOS ANGELES), CA - NL 34-38-15; WL 118-05-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	20M4W7D	141.3 pW (ERP)	
1575.42 MHz	FX	20M4W7D	140.2 pW (ERP)	

PALMDALE (LOS ANGELES), CA - NL 34-38-15; WL 118-05-26

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	20M4W7D	136.8 pW (ERP)	
1575.42 MHz	FX	20M4W7D	127.1 pW (ERP)	

PALMDALE (LOS ANGELES), CA - NL 34-38-16; WL 118-05-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	20M4W7D	33.3 pW (ERP)	
1575.42 MHz	FX	20M4W7D	28.1 pW (ERP)	

Special Conditions:

- (1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.

Special Conditions:

- (3) Operation is limited to activity for the purpose of testing radionavigation satellite service (RNSS) equipment and systems.
- (4) The test equipment shall only be used indoors and shall be under the control of Lockheed Martin Corporation.
- (5) Lockheed Martin Corporation shall post signs on doors to the test area notifying that, "GPS re-radiator is in use and the GPS information you receive may be in error."
- (6) GPS users in the area of potential interference to GPS reception must be notified that GPS information may be impacted for periods of time.
- (7) The designated point-of-contact to terminate transmissions if interference occurs is Mr. Wayne Maynard (661) 572-3516, pager (888) 449-5479. The secondary point-of-contact is Mr. Rich Elersich (661) 572-3019, pager (888) 336-5619.
- (8) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by US Air Force contracts F33657-98-D-0117, F33657-01-C-4198, F33657-99-C-0036, FA8528-05-D-0015-DO0012 and DARPA contract HR0011-05-C-0139. 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.
- (9) Operation subject to prior coordination with the FAA Western Coordinator, Los Angeles, California, as necessary to ensure compatibility with existing FAA operations.