

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

EXPERIMENTAL

(Nature of Service)

WL2XHA

(Call Sign)

XC FX MO

(Class of Station)

0824-EX-CN-2020

(File Number)

NAME Toyon Research 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(hb) of the Commission's Rules

Station Locations

- (1) MOBILE: Goleta, CA, within 161 km, centered around NL 34-25-57; WL 119-51-59
- (2) Goleta (SANTA BARBARA), CA - NL 34-25-57; WL 119-51-59
- (3) MOBILE: San Luis Obispo, CA, within 161 km, centered around NL 35-47-28; WL 120-44-53
- (4) MOBILE: Aberdeen Proving Grounds, Aberdeen, MD, within 161 km, centered around NL 39-29-05; WL 76-09-39

Frequency Information

MOBILE: Goleta, CA, within 161 km, centered around NL 34-25-57; WL 119-51-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	MO	4M80G7D	4.84 kW (ERP)	1.0E-8 %

This authorization effective February 19, 2021 and
will expire 3:00 A.M. EST March 01, 2023

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Goleta (SANTA BARBARA), CA - NL 34-25-57; WL 119-51-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	FX	6M00G7D	3054.9 kW (ERP)	1.0E-8 %

MOBILE: San Luis Obispo, CA, within 161 km, centered around NL 35-47-28; WL 120-44-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	MO	4M80G7D	4.84 kW (ERP)	1.0E-8 %

Special Conditions:

- (1) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) Toyon Research Corporation must comply with 47 CFR §25.226 service rules.
- (4) The maximum ERP is 3054.9 W for Emission Designator (6M00G7D) and 4.84 kW for Emission Designator (4M80G7D).
- (5) Operation is NOT PERMITTED in Aberdeen, MD.
- (6) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by US Army, contract number W15P7T-11-C-H238. 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) Point of Communications: Horizons-1 satellite.
- (8) Stop buzzers, Ryan Strader at 805-968-6787 x209/ 805-448-4978 and Jesse Hindemith at 858-486-1117/ 858-663-4520.