

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

EXPERIMENTAL

(Nature of Service)

WH2XBQ

(Call Sign)

XT FX MO

(Class of Station)

0078-EX-CR-2018

(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(h) 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	7.1 kW (ERP)	1.0E-8 %

This authorization effective April 01, 2018 and
will expire 3:00 A.M. EST April 01, 2019

**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	4988 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	7.1 kW (ERP)	1.0E-8 %

MOBILE: Aberdeen Proving Grounds, Aberdeen, MD, within 161 km, centered around NL 39-29-05; WL 76-09-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	MO	4M80G7D	7.1 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) This does not give Federal users earth station and satellite operator authorization to 14-14.5 GHz frequency band on a Primary Basis.
- (5) The designated point of contact to terminate the systems if interference occurs is Ryan Strader 805-968-6787 x209 / 805-448-4978 and Jesse Hindemith 858-486-1117 / 858-663-4520.