

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

EXPERIMENTAL

(Nature of Service)

WK2XJQ

(Call Sign)

XT FX MO

(Class of Station)

0264-EX-CM-2019

(File Number)

NAME Sunlight Aerospace Inc.

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(J) of the Commission's Rules

Station Locations

- (1) Apache City (HUERFANO), CO - NL 37-52-16; WL 104-47-20; MOBILE: , within 1 km, centered around NL 37-52-16; WL 104-47-20
- (2) JORNADA RANGE (OTERO), NM - NL 32-35-47; WL 106-44-23; MOBILE: , within 1 km, centered around NL 32-35-47; WL 106-44-23

Frequency Information

Apache City (HUERFANO), CO - NL 37-52-16; WL 104-47-20; MOBILE: , within 1 km, centered around NL 37-52-16; WL 104

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
716-728 MHz	MO	10M0M0W	6.3 W (ERP)	
769-787 MHz	MO	10M0M0W	6.3 W (ERP)	
1920-2010 MHz	FX	10M0M0W	31.6 kW (ERP)	

This authorization effective January 23, 2020 and
will expire 3:00 A.M. EST September 01, 2020

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COMMISSION**



Frequency Information

Apache City (HUERFANO), CO - NL 37-52-16; WL 104-47-20; MOBILE: , within 1 km, centered around NL 37-52-16; WL 104

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2100-2200 MHz	MO	10M0M0W	20 W (ERP)	
2620-2690 MHz	MO	10M0M0W	20 W (ERP)	

JORNADA RANGE (OTERO), NM - NL 32-35-47; WL 106-44-23; MOBILE: , within 1 km, centered around NL 32-35-47; WL 1

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
716-728 MHz	MO	10M0M0W	6.3 W (ERP)	
769-787 MHz	MO	10M0M0W	6.3 W (ERP)	
1920-2010 MHz	FX	10M0M0W	31.6 kW (ERP)	
2110-2200 MHz	MO	10M0M0W	20 W (ERP)	
2620-2690 MHz	MO	10M0M0W	20 W (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) 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.

Special Conditions:

- (3) Prior to operation Sunlight Aerospace Inc. must
 - a. Secure consents from the Advance Wireless Service licensees prior to operation in 1920-2010 MHz, and 2100-2200 MHz bands.
 - b. Obtain consents from the Educational Broadband Service and the Broadband Radio Service licensees prior to operation in 2620-2690 MHz ranges.
- (4) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (5) Stop Buzzer POC in case interference occurs is Bruce Alan
Phone: 908-391-2712
- (6) Prior to commencing any operations in the frequencies below, Sunlight Aerospace Inc. must obtain consent from the following within 58 miles of the contours of the testing area:
 - > 700 MHz Lower Band "D" block licensees (716-722 MHz)
 - > 700 MHz Lower Band "E" block licensees (722-728 MHz)
 - > 700 MHz Upper Band "C" block (746-757 MHz and 776-787 MHz) licensee (Verizon) and/or lessees
 - > Broadband PCS licensees (1850-1910 MHz/1930-1990 MHz)
- (7) Request to increase ERP in the 2110-2200 MHz and the 2100-2200 MHz frequency bands has been denied due to federal agency objection.