

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

WQ9XRK

(Call Sign)

XT MO

(Class of Station)

1000-EX-ST-2020

(File Number)

NAME World View

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

testing and demo of stratollite capabilities

Station Locations

- (1) MOBILE: flights covering all of Texas from 50000 ft, within 632 km, centered around NL 31-37-28; WL 99-34-07
- (2) MOBILE: airborne over central area in West Texas, within 240 km, centered around NL 31-55-14; WL 102-27-23
- (3) MOBILE: airborne over north Texas, within 93 km, centered around NL 35-58-00; WL 100-47-26
- (4) MOBILE: airborne over area in east Texas, within 120 km, centered around NL 31-58-15; WL 94-05-05
- (5) MOBILE: airborne over area in south Texas, within 45 km, centered around NL 29-07-39; WL 97-33-18
- (6) MOBILE: airborne over area in southern Utah, within 185 km, centered around NL 37-41-04; WL 109-44-17
- (7) MOBILE: ground based within 150 miles from center, within 240 km, centered around NL 31-55-14; WL 102-27-23
- (8) MOBILE: ground based within 58 miles from center, within 93 km, centered around NL 35-58-00; WL 100-47-26
- (9) MOBILE: ground based operations within 75 mile radius, within 120 km, centered around NL 31-58-15; WL 94-05-05
- (10) MOBILE: ground based within 28 miles of center, within 45 km, centered around NL 29-07-39; WL 97-33-18

This authorization effective July 25, 2020 and
will expire 3:00 A.M. EST October 16, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Station Locations

(11) MOBILE: ground based operations within 116 mile radius, within 185 km, centered around NL 37-41-02; WL 109-44-17

(12) MOBILE: ground based operations across Texas, within 632 km, centered around NL 31-37-28; WL 99-34-07

Frequency Information

MOBILE: flights covering all of Texas from 50000 ft, within 632 km, centered around NL 31-37-28; WL 99-34-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2400-2483 MHz	MO	20M0D7W	25 W (ERP)	

MOBILE: airborne over central area in West Texas, within 240 km, centered around NL 31-55-14; WL 102-27-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2360-2483 MHz	MO	20M0D7W	25 W (ERP)	

MOBILE: airborne over north Texas, within 93 km, centered around NL 35-58-00; WL 100-47-26

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2360-2483 MHz	MO	20M0D7W	25 W (ERP)	

MOBILE: airborne over area in east Texas, within 120 km, centered around NL 31-58-15; WL 94-05-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2360-2483 MHz	MO	20M0D7W	25 W (ERP)	

Frequency Information

MOBILE: airborne over area in south Texas, within 45 km, centered around NL 29-07-39; WL 97-33-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2360-2483 MHz	MO	20M0D7W	25 W (ERP)	

MOBILE: airborne over area in southern Utah, within 185 km, centered around NL 37-41-04; WL 109-44-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2360-2483 MHz	MO	20M0D7W	25 W (ERP)	

MOBILE: ground based within 150 miles from center, within 240 km, centered around NL 31-55-14; WL 102-27-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2360-2483 MHz	MO	20M0D7D	903.7 W (ERP)	

MOBILE: ground based within 58 miles from center, within 93 km, centered around NL 35-58-00; WL 100-47-26

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2360-2483 MHz	MO	20M0D7W	903.7 W (ERP)	

Frequency Information

MOBILE: ground based operations within 75 mile radius, within 120 km, centered around NL 31-58-15; WL 94-05-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2360-2483 MHz	MO	20M0D7W	903.7 W (ERP)	

MOBILE: ground based within 28 miles of center, within 45 km, centered around NL 29-07-39; WL 97-33-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2360-2483 MHz	MO	20M0D7W	903.7 W (ERP)	

MOBILE: ground based operations within 116 mile radius, within 185 km, centered around NL 37-41-02; WL 109-44-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2360-2483 MHz	MO	20M0D7W	903.7 W (ERP)	

MOBILE: ground based operations across Texas, within 632 km, centered around NL 31-37-28; WL 99-34-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2400-2483 MHz	MO	20M0D7W	1225 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) World View must coordinate and schedule all operations in Texas west of 104W Latitude with the DoD AFC-WSMR office at least 96 hours prior to operations, via e-mail to usarmy.wsmr.imcom-central.list.dodafc@mail.mil. Final authority to radiate is contingent upon successful scheduling and de-confliction, of both airspace and spectrum with other area operations.
- (4) All operations in the 2360- 2390 MHz frequency band shall be pre-coordinated with AFTRCC prior to operations.
- (5) World View must pre-coordinate with the Naval Surface Warfare Center, Dahlgren Division (NSWCDD), group email box; W_DLGR_NSWC_FTMA_FM@navy.mil. Primary frequency coordination contacts; Mr. James Moneyhon, (540) 653-3477- james.moneyhon@navy.mil, Mr. A. Jason Verdugo, (540) 653-9590 - Anthony.J.Verdugo@navy.mil, and/or Mr. Phillip B. Scyphers, (540) 653-6071 - Phillip.scyphers@navy.mil. a minimum of 60-days prior to test, for analyses, assessment, de-confliction and mitigation of harmful interference to Navy/Marine Corps/DoD operations. World View must also comply with any and all restrictions that may be levied by the Naval Surface Warfare Center, Dahlgren Division (NSWCDD).
- (6) Due to the volatility of using ISM spectrum (902-928 MHz, 2.4 GHz, 5.8 GHz), the FAA opposes its use for aviation control links unless adequately restricted. For example, the FAA limits UAS C2 operations outside of restricted areas to 400 feet above ground level per Part 107. However, since the RF link is only being used once the balloon is between 50,000 and 80,000 feet to adjust altitude, and not to ascend from or descend to earth, the FAA will conditionally concur with this request.
- (7) This concurrence shall not be seen as an endorsement of this band for further development, but only as an experimental proof-of-concept. World View should be aware that the experimental (Part 5) licenses that are being used to support this test are not available for commercial operations and that the EIRP used is not available for commercial applications in the 902-928 MHz, 2.4 GHz, and 5.8 GHz bands (see the FCC Part 15 Rules).
- (8) The FAA encourages the proponent to find spectrum suitable for commercial development and safety-of-life operations.
- (9) World View shall coordinate with the local Society of Broadcast Engineers frequency coordinator in each proposed area prior to operation in the frequency range from 2450 MHz to 2483 MHz.
- (10) World View shall coordinate with the Fixed Microwave Service licensees around each proposed location in accordance with 47 C.F.R, Part 101.103(d) prior to operation in the frequency range from 2450 MHz to 2483 MHz.