

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

EXPERIMENTAL

(Nature of Service)

XT MO

(Class of Station)

WK2XRS

(Call Sign)

0998-EX-CN-2019

(File Number)

NAME ARTEMIS, 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(d & h) of the Commission's Rules

Station Locations

- (1) MOBILE: Maximum Altitude 65,000 feet MSL, within 300 km, centered around NL 34-07-11; WL 119-08-23
- (2) MOBILE: Maximum Altitude 65,000 feet MSL, within 400 km, centered around NL 35-05-06; WL 105-58-58

Frequency Information

MOBILE: Maximum Altitude 65,000 feet MSL, within 300 km, centered around NL 34-07-11; WL 119-08-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9510 MHz	MO	600MM3N	24280 W (ERP)	0.002 %
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This authorization effective March 11, 2020 and
will expire 3:00 A.M. EST December 01, 2020

**FEDERAL
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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.
- (3) THE FOLLOWING CONDITION APPLIES TO THE NEW MEXICO LOCATION:

SUBJ TO COORDINATION WITH THE AREA FRQ COORDINATOR LOCATED AT WHITE SANDS MISSILE RANGE, NEW MEXICO, PRIOR TO USE IN THE STATE OF NEW MEXICO OR OTHER U.S. TERRITORY WITHIN A 240 KILOMETER RADIUS OF WSMR PLUS THE AREA OF UTAH AND COLORADO THAT LIES SOUTH OF 41 NORTH AND BETWEEN 108 AND 111 WEST.

U.S. Army White Sands Missile Range
Las Cruces, NM (WSMR)
DSN: 258-5417 (505) 678-5417

- (4) THE FOLLOWING CONDITIONS APPLY TO BOTH NEW MEXICO AND CALIFORNIA LOCATION

> OPERATION ON THIS ASSIGNMENT IS SUBJECT TO IMMEDIATE CESSATION, IF IT CAUSES HARMFUL INTERFERENCE TO NASA OPERATIONS.

> NOTIFICATION SHALL BE PROVIDED TO THE NASA GSFC SPECTRUM MANAGEMENT OFFICE AT NASA-DL-GSFC-SPECTRUM-MANAGEMENT@MAIL.NASA.GOV AT LEAST 7 DAYS IN ADVANCE OF OPERATION.

Special Conditions:

(5) THE FOLLOWING CONDITIONS APPLY TO THE NEW MEXICO LOCATION:

- > AVG TRANSMIT PWR IS 15W.
 - > ANTENNA ORIENTATION IS TOWARDS THE GROUND AT A 45 DEGREE ANGLE.
 - > NO TRANSMISSION BETWEEN 225 AND 315 DEGREES AZIMUTH OR WITHIN 40KM OF 34 23 15 N 103 19 07 W.
 - > FLIGHT PATH MUST REMAIN IN THE POLYGON FORMED FROM THE ARB BELOW
- ARB,350252N1055843W, 343517N1055521W,
ARB,334719N1053057W, 325212N1053135W,
ARB,313305N1051052W, 322436N1030547W,
ARB,331853N1021220W, 351033N1010901W,
ARB,365604N1021025W, 373244N1024327W,
ARB,381556N1035338W, 354338N1054645W
ARB,350252N1055843W