

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

EXPERIMENTAL

(Nature of Service)

WS9XDO

(Call Sign)

XT MO

(Class of Station)

0730-EX-ST-2021

(File Number)

NAME The Aerospace Corporation

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:

The Special Temporary Authority is for a series of satellite communication tests to be conducted at the following locations: Thousand Oaks, CA; Albuquerque, NM; and Hill AFB, UT. There will be

Station Locations

- (1) MOBILE: Hill AFB, UT, within 2 km, centered around NL 41-07-22; WL 112-00-55
- (2) MOBILE: Thousand Oaks, CA, within 2 km, centered around NL 34-10-31; WL 118-58-02
- (3) MOBILE: Albuquerque, NM, within 2 km, centered around NL 35-03-15; WL 106-37-11

Frequency Information

MOBILE: Hill AFB, UT, within 2 km, centered around NL 41-07-22; WL 112-00-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	MO	3M90G1D	40 W (Output Power)	10 %

This authorization effective June 20, 2021 and
will expire 3:00 A.M. EST December 21, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



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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) Licensee is authorized to conduct tests on four 0.96m Global Skyware antennas in the 14-14.5 GHz band via SES-2 GSO satellite.
- (3) Point of Communication: SES Americom, Inc.'s SES-2 @ 87W (S2826) geostationary orbit ("GSO") satellite
- (4) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (5) Operations must be coordinated at least 96 hours prior to activation, with the Kirtland AFB ISM, via email to 377ABW.SMO@US.AF.MIL. Operations may also require scheduling with the KAFB controlled firing Area Committee (CFAC).
- (6) ESIM operation in the 14.0-14.5 GHz band may not cause unacceptable interference to, or claim protection from, geostationary-satellite networks in accordance with Footnote NG527A.
- (7) IAW US342, The Aerospace Corporation must take all practicable steps to protect the radio astronomy service from harmful interference. US342 includes an operating area around Albuquerque, NM within 90 km of the Los Alamos, NM VLBA station. Coordinate operations with Mr. Dan Mertely, nrao-rfi@nrao.edu, (575) 835-7128.
- (8) Stop Buzzer POC is Elaine Malmrose.
Phone: 424-405-2122

Special Conditions:

- (9) For Utah, if location is changed Weapons Safety needs to reevaluate to approve.
- (10) This authorization SUPERSEDES the previously issued authorization with the same call sign and file number: amended condition # 10