

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

EXPERIMENTAL

(Nature of Service)

WR9XQH

(Call Sign)

XT MO

(Class of Station)

0045-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 Aerospace Corporation facilities in El Segundo, CA and Chantilly, VA. There will be a total

Station Locations

- (1) MOBILE: El Segundo, CA, within 2 km, centered around NL 33-54-52; WL 118-22-47
- (2) MOBILE: Chantilly, VA, within 2 km, centered around NL 38-52-44; WL 77-27-30

Frequency Information

MOBILE: El Segundo, CA, within 2 km, centered around NL 33-54-52; WL 118-22-47

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

This authorization effective March 16, 2021 and
will expire 3:00 A.M. EST September 10, 2021

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COMMISSION**



Frequency Information

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14-14.5 GHz	MO	3M90G1D	40 W (Output Power)	10 %

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 on-the-ground tests of three 0.96 m earth stations for mobile operations within 2 km of its testing facility in El Segundo, CA. The 0.96 m earth station is authorized to operate EIRP up to 57.2 dBW (Maximum) for the emission designator 3M90G1D.
- (3) Licensee is authorized to conduct on-the-ground tests of one 1.2 m earth station for mobile operations within 2 km of its testing facility in Chantilly, VA. The 1.2 m earth station is authorized to operate EIRP up to 60 dBW (Maximum) for the emission designator 3M90G1D.
- (4) Point of communications: SES-2 satellite at 87 W.L. (Call Sign S2826)
- (5) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (6) NTIA concurs with the updated band request of 14 - 14.5 GHz.