

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

EXPERIMENTAL

(Nature of Service)

WR9XHD

(Call Sign)

XT FX MO

(Class of Station)

0895-EX-ST-2021

(File Number)

NAME Northrop Grumman Systems 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 purpose of the operation is to test communications equipment operating in the 80-100 GHz range on the ground in Redondo Beach, CA; and also to test the equipment in aircraft-to-ground

Station Locations

- (1) Mojave (KERN), CA - NL 35-03-59; WL 118-09-03; MOBILE: max altitude 60,000 feet
Mojave, CA, within 185 km, centered around NL 35-03-59; WL 118-09-03
- (2) MOBILE: Redondo Beach, CA, within 5 km, centered around NL 33-53-32; WL
118-22-26

Frequency Information

Mojave (KERN), CA - NL 35-03-59; WL 118-09-03; MOBILE: max altitude 60,000 feet Mojave, CA, within 185 km, centered a

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
80-86 GHz		500MG7D	100 W (ERP)	
92-93.95 GHz		500MG7D	100 W (ERP)	

This authorization effective June 21, 2021 and
will expire 3:00 A.M. EST December 18, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Mojave (KERN), CA - NL 35-03-59; WL 118-09-03; MOBILE: max altitude 60,000 feet Mojave, CA, within 185 km, centered a

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
94.05-100 GHz		500MG7D	100 W (ERP)	

MOBILE: Redondo Beach, CA, within 5 km, centered around NL 33-53-32; WL 118-22-26

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
80-86 GHz	MO	500MG7D	100 W (ERP)	
92-93.95 GHz	MO	500MG7D	100 W (ERP)	
94.05-100 GHz	MO	500MG7D	100 W (ERP)	

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) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) Licensee must coordinate with all the existing registered links in 81-86 GHz and 92-95 GHz bands prior to operation in the proposed frequency bands.
- (4) The 93.95-94.05 GHz frequency band shall be excluded from operation
- (5) Northrop Grumman Systems Corporation avoid out-of-band emissions into the 86-92 GHz and 100-102 GHz ranges.
- (6) Northrop Grumman Systems Corporation shall coordinate operations with the VLBA point of contact, prior to operation: Dan "Mert" Mertely nrao-rfi@nrao.edu phone: (575) 835-7128