

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

EXPERIMENTAL

(Nature of Service)

WS9XMY

(Call Sign)

XT FX MO

(Class of Station)

1257-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:

A radar will be integrated on a Firebird aircraft and used for customer and transitional partner demonstrations and concept of operations (CONOPS) development.

Station Locations

- (1) Mojave (KERN), CA - NL 35-04-05; WL 118-10-15; MOBILE: Max height 25,000 AMSL, within 320 km, centered around NL 35-04-05; WL 118-10-15
- (2) Red Bluff (TEHAMA), CA - NL 40-05-25; WL 122-09-04; MOBILE: Max altitude 25,000 ft AMSL, within 320 km, centered around NL 40-05-25; WL 122-09-04
- (3) Fresno (FRESNO), CA - NL 36-46-43; WL 119-43-17; MOBILE: Max altitude 25,000 ft AMSL, within 320 km, centered around NL 36-46-43; WL 119-43-17
- (4) Carlsbad (SAN DIEGO), CA - NL 33-13-05; WL 117-21-07; MOBILE: max altitude 25,000 ft AMSL, within 320 km, centered around NL 33-13-05; WL 117-21-07
- (5) Sacramento (SACRAMENTO), CA - NL 38-33-17; WL 121-17-53; MOBILE: max altitude 25,000 ft AMSL, within 320 km, centered around NL 38-33-17; WL 121-17-53

Frequency Information

Mojave (KERN), CA - NL 35-04-05; WL 118-10-15; MOBILE: Max height 25,000 AMSL, within 320 km, centered around NL 35

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.5-10 GHz	FX	500MQ3N	425 W (Output Power)	

This authorization effective September 15, 2021 and
will expire 3:00 A.M. EST February 20, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Mojave (KERN), CA - NL 35-04-05; WL 118-10-15; MOBILE: Max height 25,000 AMSL, within 320 km, centered around NL 35-04-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.5-10 GHz	MO	500MQ3N	425 W (Output Power)	

Red Bluff (TEHAMA), CA - NL 40-05-25; WL 122-09-04; MOBILE: Max altitude 25,000 ft AMSL, within 320 km, centered around NL 40-05-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.5-10 GHz	FX	500MQ3N	425 W (Output Power)	
9.5-10 GHz	MO	500MQ3N	425 W (Output Power)	

Fresno (FRESNO), CA - NL 36-46-43; WL 119-43-17; MOBILE: Max altitude 25,000 ft AMSL, within 320 km, centered around NL 36-46-43

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.5-10 GHz	FX	500MQ3N	425 W (Output Power)	
9.5-10 GHz	MO	500MQ3N	425 W (Output Power)	

Carlsbad (SAN DIEGO), CA - NL 33-13-05; WL 117-21-07; MOBILE: max altitude 25,000 ft AMSL, within 320 km, centered around NL 33-13-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.5-10 GHz	FX	500MQ3N	425 W (Output Power)	

Frequency Information

Carlsbad (SAN DIEGO), CA - NL 33-13-05; WL 117-21-07; MOBILE: max altitude 25,000 ft AMSL, within 320 km, centered at

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.5-10 GHz	MO	500MQ3N	425 W (Output Power)	

Sacramento (SACRAMENTO), CA - NL 38-33-17; WL 121-17-53; MOBILE: max altitude 25,000 ft AMSL, within 320 km, centered at

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.5-10 GHz	FX	500MQ3N	425 W (Output Power)	
9.5-10 GHz	MO	500MQ3N	425 W (Output Power)	

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) Prior to operation, Northrop Grumman Systems Corporation must be coordinate with Edwards AFB SMO James Littlefield (james.littlefield.1@us.af.mil, 412cs.spectrum.management@us.af.mil, DSN 527-4763, COMM (661) 277-4763) and WAFC.
- (3) Further requests for extension of the authority granted herein must be filed on Form 442, "Application for New or Modified Radio Station Authorization under Part 5 of FCC Rules - Experimental Radio Service." Future STA requests to extend this authorization will not be considered.