

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

EXPERIMENTAL

(Nature of Service)

WQ9XYP

(Call Sign)

XT FX MO

(Class of Station)

1327-EX-ST-2020

(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:

Northrop Grumman aircraft under contract with CAL FIRE to employ real-time optical sensor package for surveillance, fire perimeter updates, fire and air mass behavior analysis and reporting

Station Locations

- (1) Red Bluff (TEHAMA), CA - NL 40-09-20; WL 122-15-05; MOBILE: Max Altitude 25,000 feet, within 320 km, centered around NL 40-09-20; WL 122-15-05
- (2) McClellan Park (SACRAMENTO), CA - NL 38-39-39; WL 121-23-35; MOBILE: Maximum altitude 25,000 feet, within 320 km, centered around NL 38-39-39; WL 121-23-35
- (3) Mojave (KERN), CA - NL 35-03-32; WL 118-09-05; MOBILE: Max altitude 25,000 feet, within 320 km, centered around NL 35-03-32; WL 118-09-05
- (4) Carlsbad (SAN DIEGO), CA - NL 33-05-45; WL 117-18-59; MOBILE: Max altitude 25,000 ft, centered around NL 33-05-45; WL 117-18-59

Frequency Information

Red Bluff (TEHAMA), CA - NL 40-09-20; WL 122-15-05; MOBILE: Max Altitude 25,000 feet, within 320 km, centered around N

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2305 MHz	FX	20M0G1D	125 W (ERP)	

This authorization effective August 31, 2020 and
will expire 3:00 A.M. EST February 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Red Bluff (TEHAMA), CA - NL 40-09-20; WL 122-15-05; MOBILE: Max Altitude 25,000 feet, within 320 km, centered around N

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2305 MHz	MO	20M0G1D	125 W (ERP)	
2410-2470 MHz	MO	20M0G1D	125 W (ERP)	
2410-2470 MHz	FX	20M0G1D	125 W (ERP)	

McClellan Park (SACRAMENTO), CA - NL 38-39-39; WL 121-23-35; MOBILE: Maximum altitude 25,000 feet, within 320 km, c

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2305 MHz	MO	20M0G1D	125 W (ERP)	
2305 MHz	FX	20M0G1D	125 W (ERP)	
2410-2470 MHz	FX	20M0G1D	125 W (ERP)	
2410-2470 MHz	MO	20M0G1D	125 W (ERP)	

Frequency Information

Mojave (KERN), CA - NL 35-03-32; WL 118-09-05; MOBILE: Max altitude 25,000 feet, within 320 km, centered around NL 35-

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2305 MHz	FX	20M0G1D	125 W (ERP)	
2305 MHz	MO	20M0G1D	125 W (ERP)	
2410-2470 MHz	FX	20M0G1D	125 W (ERP)	
2410-2470 MHz	MO	20M0G1D	125 W (ERP)	

Carlsbad (SAN DIEGO), CA - NL 33-05-45; WL 117-18-59; MOBILE: Max altitude 25,000 ft, centered around NL 33-05-45; W

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2305 MHz	FX	20M0G1D	125 W (ERP)	
2305 MHz	MO	20M0G1D	125 W (ERP)	
2410-2470 MHz	FX	20M0G1D	125 W (ERP)	
2410-2470 MHz	MO	20M0G1D	125 W (ERP)	

Special Conditions:

- (1) Northrop Grumman must pre-coordinate operational use with the DOD Western Area Frequency Coordinator:

Andrew Foltz
DOD Western Area Frequency Coordinator
China Lake, CA
Comm: 760-939-6948
DSN: 437-xxxx
Cell: 760-793-3975
- (2) All or certain locations may require scheduling via DoD Western Area Frequency Coordinator.
If required AFTRCC will send details via separate email. Coordination is based on secondary basis and NIB to WCS/LTE operations.
- (3) Northrop Grumman Systems Corporation must coordinate with the local Society of Broadcast Engineers frequency coordinator and Fixed Microwave Service licensees in accordance with 47 C.F.R, Part 101.103(d) in each proposed area prior to operation in 2450-2470 MHz band. Consult the list at https://www.sbe.org/sections/freq_local.php to find the appropriate coordinator.
- (4) Prior to any operation, Northrop Grumman Systems Corporation must obtain consent from AT&T in the 2.3 GHz band.