

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WQ9XME

(Call Sign)

0128-EX-ST-2021

(File Number)

NAME Raytheon Technologies

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:

Raytheon Company is requesting bands of frequencies within the 2-30 MHz range to conduct a company-funded research and development program.

Station Locations

(1) Portsmouth (NEWPORT), RI - NL 41-34-23; WL 71-16-30

Frequency Information

Portsmouth (NEWPORT), RI - NL 41-34-23; WL 71-16-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2-4.9 MHz	FX	10K0P0N 1M00Q3N	250 mW (ERP)	0.01 %
5.1-5.9 MHz	FX	10K0P0N 800KQ3N	250 mW (ERP)	0.01 %
6.2-7.2 MHz	FX	1M00Q3N	250 mW (ERP)	0.01 %

This authorization effective February 15, 2021 and
will expire 3:00 A.M. EST August 16, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Portsmouth (NEWPORT), RI - NL 41-34-23; WL 71-16-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6.2-7.2 MHz	FX	10K0P0N	250 mW (ERP)	0.01 %
7.45-9.4 MHz	FX	10K0P0N 1M00Q3N	250 mW (ERP)	0.01 %
10.1-11.6 MHz	FX	1M00Q3N 10K0P0N	250 mW (ERP)	0.01 %
12.1-13.57 MHz	FX	10K0P0N 1M00Q3N	250 mW (ERP)	0.01 %
13.87-14.9 MHz	FX	1M00Q3N 10K0P0N	250 mW (ERP)	0.01 %
15.8-17.48 MHz	FX	1M00Q3N 10K0P0N	250 mW (ERP)	0.01 %
17.9-18.9 MHz	FX	1M00Q3N 10K0P0N	250 mW (ERP)	0.01 %
19.02-19.9 MHz	FX	10K0P0N 880KQ3N	250 mW (ERP)	0.01 %
20.1-21.45 MHz	FX	1M00Q3N	250 mW (ERP)	0.01 %

Frequency Information

Portsmouth (NEWPORT), RI - NL 41-34-23; WL 71-16-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
20.1-21.45 MHz	FX	10K0P0N	250 mW (ERP)	0.01 %
21.85-24.9 MHz	FX	10K0P0N 1M00Q3N	250 mW (ERP)	0.01 %
25.1-25.67 MHz	FX	570KQ3N 10K0P0N	250 mW (ERP)	0.01 %
26.1-30 MHz	FX	10K0P0N 1M00Q3N	250 mW (ERP)	0.01 %

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) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator in 26.1-30 MHz band. Consult the list at https://www.sbe.org/sections/freq_local.php to find the appropriate coordinator.
- (4) Raytheon Technologies must provide a STOP BUZZER POC to Stanford Beard, (757) 628-4020, Standford.D.M.Beard@uscg.mil

Special Conditions:

- (5) Raytheon Technologies must notch out the following:
- a. 2174.5 (+/- 150Hz)
 - b. 4177.5 (+/- 150Hz)
 - c. 6268 (+/- 150Hz)
 - d. 12520 (+/- 150Hz)
 - e. 16695 (+/- 150Hz)
 - f. 6312 (+/- 152Hz)
 - g. 8414.5 (+/- 152Hz)
 - h. 12577 (+/- 152Hz)
 - i. 16804.5 (+/- 152Hz)
 - j. 2183.4 (+/- 1.4 KHz)
 - k. 2187.5 (+/- 1.4 KHz)
 - l. 3024.4 (+/- 1.4 KHz)
 - m. 4126.4 (+/- 1.4 KHz)
 - n. 5681.4 (+/- 1.4 KHz)
 - o. 6216.4 (+/- 1.4 KHz)
 - p. 6517.4 (+/- 1.4 KHz)
 - q. 8292.4 (+/- 1.4 KHz)
 - r. 12291.4 (+/- 1.4 KHz)
 - s. 16421.4 (+/- 1.4 KHz)
- (6) 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.