

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

EXPERIMENTAL

(Nature of Service)

WR9XYW

(Call Sign)

XT FX

(Class of Station)

0335-EX-ST-2021

(File Number)

NAME BAE Systems Information and Electronic Systems Integration Inc.

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:

Testing equipment.

Station Locations

(1) Litchfield (HILLSBOROUGH), NH - NL 42-48-18; WL 71-25-34

Frequency Information

Litchfield (HILLSBOROUGH), NH - NL 42-48-18; WL 71-25-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
200 MHz	FX	NON	1 mW (ERP)	
225 MHz	FX	NON	1.69 mW (ERP)	
250 MHz	FX	NON	1.73 mW (ERP)	

This authorization effective May 17, 2021 and
will expire 3:00 A.M. EST October 13, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Litchfield (HILLSBOROUGH), NH - NL 42-48-18; WL 71-25-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
275 MHz	FX	N0N	1.35 mW (ERP)	
300 MHz	FX	N0N	1.51 mW (ERP)	
325.784899 MHz	FX	N0N	1.58 mW (ERP)	
349.904698 MHz	FX	N0N	1.62 mW (ERP)	
375.879866 MHz	FX	N0N	1.66 mW (ERP)	
401.855034 MHz	FX	N0N	1.55 mW (ERP)	
424.119463 MHz	FX	N0N	1.51 mW (ERP)	
449 MHz	FX	N0N	1.41 mW (ERP)	
450 MHz	FX	N0N	1.41 mW (ERP)	
476.55 MHz	FX	N0N	1.41 mW (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
500 MHz	FX	N0N	1.35 mW (ERP)	
523 MHz	FX	N0N	1.38 mW (ERP)	
525 MHz	FX	N0N	1.38 mW (ERP)	
550 MHz	FX	N0N	1.51 mW (ERP)	
575 MHz	FX	N0N	1.35 mW (ERP)	
600 MHz	FX	N0N	1.41 mW (ERP)	
626 MHz	FX	N0N	1.41 mW (ERP)	
651.3 MHz	FX	N0N	1.32 mW (ERP)	
674.9 MHz	FX	N0N	1.35 mW (ERP)	
700.125 MHz	FX	N0N	1.32 mW (ERP)	

Frequency Information

Litchfield (HILLSBOROUGH), NH - NL 42-48-18; WL 71-25-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
728.425 MHz	FX	N0N	1.32 mW (ERP)	
742.975 MHz	FX	N0N	1.32 mW (ERP)	
775.2 MHz	FX	N0N	1.32 mW (ERP)	
804.7 MHz	FX	N0N	1.2 mW (ERP)	
825 MHz	FX	N0N	1.23 mW (ERP)	
850 MHz	FX	N0N	1.17 mW (ERP)	
875 MHz	FX	N0N	1.23 mW (ERP)	
900 MHz	FX	N0N	1.17 mW (ERP)	
925 MHz	FX	N0N	1.17 mW (ERP)	
942.275 MHz	FX	N0N	1.17 mW (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
961.125 MHz	FX	N0N	1.07 mW (ERP)	
980.35 MHz	FX	N0N	1.17 mW (ERP)	
999.95 MHz	FX	N0N	1.12 mW (ERP)	
1019.95 MHz	FX	N0N	1.09 mW (ERP)	
1039 MHz	FX	N0N	0.95 mW (ERP)	
1040.35 MHz	FX	N0N	0.97 mW (ERP)	
1061.15 MHz	FX	N0N	1 mW (ERP)	
1104.025 MHz	FX	N0N	1.04 mW (ERP)	
1126.125 MHz	FX	N0N	1.02 mW (ERP)	
1148.625 MHz	FX	N0N	1.02 mW (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1171.6 MHz	FX	N0N	0.95 mW (ERP)	
1192 MHz	FX	N0N	0.81 mW (ERP)	
1195.05 MHz	FX	N0N	0.93 mW (ERP)	
1250 MHz	FX	N0N	0.93 mW (ERP)	
1270 MHz	FX	N0N	0.91 mW (ERP)	
1300 MHz	FX	N0N	0.93 mW (ERP)	
1325 MHz	FX	N0N	0.91 mW (ERP)	
1370 MHz	FX	N0N	0.89 mW (ERP)	
1375 MHz	FX	N0N	0.87 mW (ERP)	
1433 MHz	FX	N0N	0.81 mW (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1450 MHz	FX	N0N	0.79 mW (ERP)	
1475 MHz	FX	N0N	0.79 mW (ERP)	
1500 MHz	FX	N0N	0.76 mW (ERP)	
1525 MHz	FX	N0N	0.74 mW (ERP)	
1544 MHz	FX	N0N	0.62 mW (ERP)	
1550 MHz	FX	N0N	0.74 mW (ERP)	
1625 MHz	FX	N0N	0.67 mW (ERP)	
1650 MHz	FX	N0N	0.67 mW (ERP)	
1676 MHz	FX	N0N	0.66 mW (ERP)	
1700 MHz	FX	N0N	0.63 mW (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1725 MHz	FX	N0N	0.67 mW (ERP)	
1750 MHz	FX	N0N	0.69 mW (ERP)	
1757 MHz	FX	N0N	0.54 mW (ERP)	
1775 MHz	FX	N0N	0.64 mW (ERP)	
1800 MHz	FX	N0N	0.67 mW (ERP)	
1825 MHz	FX	N0N	0.63 mW (ERP)	
1863.555 MHz	FX	N0N	0.64 mW (ERP)	
1890.945 MHz	FX	N0N	0.66 mW (ERP)	
1909.965 MHz	FX	N0N	0.63 mW (ERP)	
1929.975 MHz	FX	N0N	0.63 mW (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1946.925 MHz	FX	N0N	0.63 mW (ERP)	
1975.545 MHz	FX	N0N	0.63 mW (ERP)	
1990.025 MHz	FX	N0N	0.62 mW (ERP)	
2100 MHz	FX	N0N	0.62 mW (ERP)	

Special Conditions:

- (1) One or more frequency assignments were coordinated prior to authorization with FAA Headquarters, 800 Independence Avenue, S.W., Washington, DC 20591; Telephone: 202-267-8699.
- (2) 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.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) The applicant must obtain consents from the Advanced Wireless Service licensees in the proposed area prior to accessing to the frequency range from 1700 MHz to 1775 MHz.
- (5) The applicant must obtain consents from the Upper Microwave Flexible Use Service licensees in the proposed area prior to accessing to 626 MHz, 651.3 MHz, and 674.9 MHz.
- (6) The applicant must coordinate with the local Society of Broadcast Engineers frequency coordinator prior to operation on frequencies from 476.55 MHz to 600 MHz, 200 MHz, 942.275 MHz, 961.125 MHz, and 2100 MHz.
- (7) The applicant must coordinate with Fixed Microwave Service licensees in accordance with 47 C.F.R, Part 101.103(d) prior to operation on 942.274 MHz and 961.125 MHz.

Special Conditions:

- (8) Prior to commencing any operations in the frequencies below, the applicant must obtain consent from the following within 20 miles of the contours of the testing area:
 - 700 MHz Lower Band "A" block licensees (698-704 MHz/728-734 MHz)
 - 700 MHz Lower Band "C" block licensees (710-716 MHz/740-746 MHz)
 - 700 MHz Guard Band licensees (775-776 MHz/805-806 MHz)
 - Cellular licensees (824-849 MHz/869-894 MHz)
 - Commercial Air-Ground licensee (849-851 MHz/894-896 MHz)
 - SMR licensees (896-901 MHz/935-940 MHz)
 - B/ILT licensees (896-901 MHz/935-940 MHz)
 - Location & Monitoring Service licensees (902-928 MHz)
 - 1392-1395 MHz/1432-1435 MHz Band licensees
 - Broadband PCS licensees (1850-1910 MHz/1930-1990 MHz)
- (9) The 1400-1427 MHz band shall be excluded from operations.
- (10) BAE Systems Information and Electronic Systems Integration Inc. must notch out 1227.6 MHz, 1575 MHz, and 1600 MHz due to harmful interference with GPS L1 and L2.
- (11) BAE Systems Information and Electronic Systems Integration Inc. must adhere to the conditions of prior FAA WebFCR coordination under NG T210236 thru NG T210261.
- (12) This authorization is issued for the express purpose of conducting experimental operation described in the related application and required by USAF, contract FA8600-21-9018. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.
- (13) Stop Buzzers, George Moynihan at (603) 689-8630 and BAE Systems Emergency Services Center at (603) 885-3842