

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

XC FX

(Class of Station)

WD2XVL

(Call Sign)

0570-EX-CR-2018

(File Number)

NAME BAE SYSTEMS Information and Electronic Systems Integration Inc.

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(b) of the Commission's Rules

Station Locations

(1) Litchfield (HILLSBOROUGH), NH - NL 42-48-22; WL 71-25-33

Frequency Information

Litchfield (HILLSBOROUGH), NH - NL 42-48-22; WL 71-25-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
30-74.8 MHz	FX	N0N	0.007 W (ERP)	
75.2-108 MHz	FX	N0N	0.007 W (ERP)	
123.1125-123.2875 MHz	FX	N0N	0.007 W (ERP)	
123.3125-123.4875 MHz	FX	N0N	0.007 W (ERP)	

This authorization effective March 01, 2019 and
will expire 3:00 A.M. EST March 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Litchfield (HILLSBOROUGH), NH - NL 42-48-22; WL 71-25-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
123.5125-123.5875 MHz	FX	N0N	0.007 W (ERP)	
137.025-152.885 MHz	FX	N0N	0.007 W (ERP)	
154-156.515 MHz	FX	N0N	0.007 W (ERP)	
156.535-156.79 MHz	FX	N0N	0.007 W (ERP)	
156.81-161.625 MHz	FX	N0N	0.007 W (ERP)	
161.775-162 MHz	FX	N0N	0.007 W (ERP)	
174-216 MHz	FX	N0N	0.007 W (ERP)	
216.318121 MHz	FX	N0N	0.007 W (ERP)	
218.17349 MHz	FX	N0N	0.007 W (ERP)	
220.028859 MHz	FX	N0N	0.007 W (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
221.884228 MHz	FX	N0N	0.007 W (ERP)	
223.739597 MHz	FX	N0N	0.007 W (ERP)	
225-328.6 MHz	FX	N0N	0.007 W (ERP)	
335.4-399.9 MHz	FX	N0N	0.007 W (ERP)	
399.9-450 MHz	FX	N0N	0.007 W (ERP)	
450-454 MHz	FX	N0N	0.007 W (ERP)	
456-470 MHz	FX	N0N	0.007 W (ERP)	
508-608 MHz	FX	N0N	0.007 W (ERP)	
809-928 MHz	FX	N0N	0.007 W (ERP)	
933-935 MHz	FX	N0N	0.007 W (ERP)	

Frequency Information

Litchfield (HILLSBOROUGH), NH - NL 42-48-22; WL 71-25-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
941-944 MHz	FX	N0N	0.007 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) "Stop Buzzer" contact George Moynihan (603) 689-8630 or BAE Systems Emergency Services Center at (603) 885-3842 shall be available during testing to cease operations in the event of any interference.
- (4) Operation is NOT permitted using the following frequencies band: 406-406.1 MHz, 608-612 MHz.
- (5) Licensee must coordinate with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator prior to operate the frequency band 174-216 MHz and 450-454 MHz.
- (6) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by USAF contract number FA8620-16-G-3028. 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.

Special Conditions:

- (7) Licensee is ONLY PERMITTED using the spot frequencies below in the band 225-328.6 MHz:
- M225.594966,M227.450336,M229.305705,M231.161074,M233.016443,
M234.871812
M236.727181,M238.582550,M240.437919,M242.293289,M244.148658,
M246.004027
M247.859396,M249.714765,M251.570134,M253.425503,M255.280872,
M257.136242
M258.991611,M260.846980,M262.702349,M264.557718,M266.413087,
M268.268456
M270.123826,M271.979195,M273.834564,M275.689933,M277.545302,
M279.400671
M281.256040,M283.111409,M284.966779,M286.822148,M288.677517,
M292.388255
M294.243624,M296.098993,M297.954362,M299.809732,M301.665101,
M303.520470
M305.375839,M309.086577,M310.941946,M312.797315,M314.652685,
M316.508054
M318.363423,M320.218792,M322.074161, M323.929530,M325.784899,
M327.640268
M290.532886, M307.231208
- (8) Licensee is ONLY PERMITTED using the spot frequencies below in the band 335.4-399.9 MHz:
- M335.445400,M336.917114,M338.772483,M340.627852,M342.483221,
M344.338591
M346.193960,M348.049329,M349.904698,M351.760067,M355.470805,
M357.326174,
M359.181544,M361.036913,M362.892282,M364.747651,M366.603020,
M368.458389
M370.313758,M372.169128,M374.024497,M375.879866,M377.735235,
M379.590604
M383.301342,M385.156711,M388.867450,M390.722819,M392.578188,
M394.433557
M396.288926,M398.144295,M399.999664
M353.615436, M381.445973, M387.012081

Special Conditions:

- (9) Licensee is ONLY PERMITTED using the spot frequencies below in the band 399.9-450 MHz:
M401.855034,M403.710403,M405.565772,M407.421141,M409.276510,
M411.131879
M412.987248,M414.842617,M416.697987,M418.553356,M420.408725,
M422.264094
M424.119463,M425.974832,M427.830201,M429.685570,M431.540940,
M433.396309
M435.251678,M437.107047,M438.962416,M440.817785,M442.673154
M444.528523,M446.383893,M448.239262
- (10) Licensee is ONLY PERMITTED using the spot frequencies below in the band 216-225 MHz: M216.318121,M218.173490,M220.028859,M221.884228,and M223.739597
- (11) Operation the frequency bands 128.8125-132.0125 MHz and 136.5-136.975 MHz is subject to prior coordination with Aviation Spectrum Resources, Inc. (ASRI).
- (12) Operation is NOT PERMITTED using the frequency band 120.1-129.2 MHz except 123.1125-123.2875 MHz, 123.3125-123.4875 MHz and 123.5125 - 123.5875 MHz.
- (13) Renewal or modification of this license is subject to prior coordination with FAA Regional Office if using any FAA frequencies.
- (14) Renewal of this license is subject to prior coordination with AFTRCC Frequency Advisory Committee, www.aftrcc.org.
- (15) Licensee must coordinate with other users as necessary to minimize interference.
- (16) Operation is NOT PERMITTED using any frequencies that are allocated for air traffic control.
- (17) Operation is NOT PERMITTED using the frequency band 136.0-137.025 MHz.