

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

EXPERIMENTAL

(Nature of Service)

WK2XSP

(Call Sign)

XC MO

(Class of Station)

0901-EX-CN-2019

(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(H) of the Commission's Rules

Station Locations

- (1) MOBILE: Temporary Fixed Ground Operations, Litchfield, NH, within 0.03 km, centered around NL 42-48-18; WL 71-25-34

Frequency Information

MOBILE: Temporary Fixed Ground Operations, Litchfield, NH, within 0.03 km, centered around NL 42-48-18; WL 71-25-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
100 MHz	MO	NON	0.007 W (ERP)	
122.675 MHz	MO	NON	0.007 W (ERP)	
134.1 MHz	MO	NON	0.0025 W (ERP)	
140 MHz	MO	NON	0.007 W (ERP)	

This authorization effective March 25, 2020 and
will expire 3:00 A.M. EST September 30, 2021

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
145-150.1 MHz	MO	N0N	0.007 W (ERP)	
155 MHz	MO	N0N	0.007 W (ERP)	
160 MHz	MO	N0N	0.007 W (ERP)	
165-170 MHz	MO	N0N	0.007 W (ERP)	
175-215 MHz	MO	N0N	0.007 W (ERP)	
220 MHz	MO	N0N	0.007 W (ERP)	
225 MHz	MO	N0N	0.007 W (ERP)	
230 MHz	MO	N0N	0.007 W (ERP)	
235 MHz	MO	N0N	0.007 W (ERP)	
240 MHz	MO	N0N	0.007 W (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
245 MHz	MO	N0N	0.007 W (ERP)	
250 MHz	MO	N0N	0.007 W (ERP)	
255.5 MHz	MO	N0N	0.007 W (ERP)	
260 MHz	MO	N0N	0.007 W (ERP)	
265 MHz	MO	N0N	0.007 W (ERP)	
270 MHz	MO	N0N	0.007 W (ERP)	
275 MHz	MO	N0N	0.007 W (ERP)	
280 MHz	MO	N0N	0.007 W (ERP)	
285 MHz	MO	N0N	0.007 W (ERP)	
290 MHz	MO	N0N	0.007 W (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
295 MHz	MO	N0N	0.007 W (ERP)	
300 MHz	MO	N0N	0.007 W (ERP)	
305 MHz	MO	N0N	0.007 W (ERP)	
310 MHz	MO	N0N	0.007 W (ERP)	
315 MHz	MO	N0N	0.007 W (ERP)	
320 MHz	MO	N0N	0.007 W (ERP)	
325 MHz	MO	N0N	0.007 W (ERP)	
330.05 MHz	MO	N0N	0.007 W (ERP)	
335.4 MHz	MO	N0N	0.007 W (ERP)	
340.627852 MHz	MO	N0N	0.007 W (ERP)	

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344.338591 MHz	MO	N0N	0.007 W (ERP)	
349.904698 MHz	MO	N0N	0.007 W (ERP)	
355.470805 MHz	MO	N0N	0.007 W (ERP)	
359.181544 MHz	MO	N0N	0.007 W (ERP)	
364.747651 MHz	MO	N0N	0.007 W (ERP)	
370.313758 MHz	MO	N0N	0.007 W (ERP)	
375.879866 MHz	MO	N0N	0.007 W (ERP)	
379.590604 MHz	MO	N0N	0.007 W (ERP)	
385.156711 MHz	MO	N0N	0.007 W (ERP)	
390.722819 MHz	MO	N0N	0.007 W (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
394.433557 MHz	MO	N0N	0.007 W (ERP)	
400 MHz	MO	N0N	0.007 W (ERP)	
405 MHz	MO	N0N	0.007 W (ERP)	
460-470 MHz	MO	N0N	0.007 W (ERP)	
476.95 MHz	MO	N0N	0.007 W (ERP)	
481.725 MHz	MO	N0N	0.007 W (ERP)	
486.525 MHz	MO	N0N	0.007 W (ERP)	
491.4 MHz	MO	N0N	0.007 W (ERP)	
496.3 MHz	MO	N0N	0.007 W (ERP)	
500 MHz	MO	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) BAE Systems Information and Electronic Systems Integration Inc. must notch out the following (+/- 12.5 kHz): 165.725 MHz, 166.300 MHz, 166.350 MHz, 166.3625 MHz, 166.375 MHz, 166.750 MHz, 166.775 MHz, 166.875 MHz, 166.950 MHz, 167.075 MHz, 167.950 MHz, 168.5625 MHz, 168.6125 MHz, 169.3625 MHz, 169.400 MHz, 169.550 MHz, 169.7125 MHz, 169.725 MHz, 465.2875 MHz.
- (4) This authorization is issued for the express purpose of conducting experimental operations described in the related application or required by US Air Force, FA8650-17-C-8578. 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.
- (5) Stop Buzzers, David Jillson (603) 484-1024 and BAE Systems Emergency Services Center (603) 885-3842.
- (6) Operation is NOT PERMITTED for Internal Research and Development activity.
- (7) The applicant must coordinate with the local Society of Broadcast Engineers frequency coordinator prior to operation on 160 MHz, 476.95 MHz, 481.725 MHz, 486.525 MHz, 491.4 MHz, 496.3 MHz, 500 MHz, 165-170 MHz, and 175-215 MHz.
- (8) Prior to commencing any operations in the frequencies below, the applicant must obtain consent from the following within 50 miles of the contours of the testing area:
 - 220-222 MHz Service licensees
- (9) The ERP for operating the frequency 134.1 MHz is not exceeded 0.0025 W.
- (10) Operation is subject to prior coordination with FAA Headquarters, 800 Independence Avenue, S.W., Washington, DC 20591. Phone 202-267-8699.