

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

EXPERIMENTAL

(Nature of Service)

WO2XOU

(Call Sign)

XT MO

(Class of Station)

0401-EX-CR-2026

(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) MOBILE: Temporary Fixed Ground Moorestown, NJ, within 0.1 km, centered around NL 39-57-45; WL 74-56-59
- (2) MOBILE: Temporary Fixed Ground Kekaha, Hawaii, within 0.2 km, centered around NL 21-57-59; WL 159-42-49
- (3) MOBILE: Temp Fixed Ground Jt Base Pearl Harbor Hickam, HI, within 0.3 km, centered around NL 21-21-17; WL 157-56-23
- (4) MOBILE: Temp Fixed Ground Naval Auxiliary, Landing Field, CA, within 0.3 km, centered around NL 33-01-22; WL 118-35-19
- (5) MOBILE: Temporary Fixed Ground Navy Base, San Diego, CA, within 0.3 km, centered around NL 32-41-05; WL 117-07-48
- (6) MOBILE: Max Altitude 1524m, Airborne Moorestown, NJ, within 5 km, centered around NL 39-57-45; WL 74-56-59
- (7) MOBILE: Max Altitude 1524m, Airborne Kekaha, Hawaii, within 100 km, centered around NL 21-57-59; WL 159-42-49
- (8) MOBILE: Max Alt 1524m, Airborne Jt Base Pearl Harbor, Hickam, HI, within 150 km, centered around NL 21-21-17; WL 157-56-23
- (9) MOBILE: Max Alt 1524m, Airborne Naval Aux, Landing Field, CA, within 150 km, centered around NL 33-01-22; WL 118-35-19
- (10) MOBILE: Max Altitude 1524m Airborne Navy Base, San Diego, CA, within 150 km, centered around NL 32-41-05; WL 117-07-48

This authorization effective August 01, 2026 and
will expire 3:00 A.M. ET August 01, 2028

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Temporary Fixed Ground Moorestown, NJ, within 0.1 km, centered around NL 39-57-45; WL 74-56-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2100 MHz	MO	200MW1N	2.27 W (ERP)	
2396-2690 MHz	MO	202MW1N	2.27 W (ERP)	
2901-3549 MHz	MO	202MW1N	2.27 W (ERP)	
5251-5599 MHz	MO	202MW1N	3.05 W (ERP)	
8501-8999 MHz	MO	202MW1N	3.84 W (ERP)	
9201-12000 MHz	MO	202MW1N	3.84 W (ERP)	

MOBILE: Temporary Fixed Ground Kekaha, Hawaii, within 0.2 km, centered around NL 21-57-59; WL 159-42-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2100 MHz	MO	200MW1N	2.27 W (ERP)	
2396-2689 MHz	MO	202MW1N	2.27 W (ERP)	
2901-3549 MHz	MO	202MW1N	2.27 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed Ground Kekaha, Hawaii, within 0.2 km, centered around NL 21-57-59; WL 159-42-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5251-5599 MHz	MO	202MW1N	3.05 W (ERP)	
8501-8999 MHz	MO	202MW1N	3.84 W (ERP)	
9201-12000 MHz	MO	202MW1N	3.84 W (ERP)	

MOBILE: Temp Fixed Ground Jt Base Pearl Harbor Hickam, HI, within 0.3 km, centered around NL 21-21-17; WL 157-56-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2100 MHz	MO	200MW1N	2.27 W (ERP)	
2396-2689 MHz	MO	202MW1N	2.27 W (ERP)	
2901-3549 MHz	MO	202MW1N	2.27 W (ERP)	
5251-5599 MHz	MO	202MW1N	3.05 W (ERP)	
8501-8999 MHz	MO	202MW1N	3.84 W (ERP)	
9201-12000 MHz	MO	202MW1N	3.84 W (ERP)	

Frequency Information

MOBILE: Temp Fixed Ground Naval Auxiliary, Landing Field, CA, within 0.3 km, centered around NL 33-01-22; WL 118-35-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2100 MHz	MO	200MW1N	2.27 W (ERP)	
2396-2689 MHz	MO	202MW1N	2.27 W (ERP)	
2901-3549 MHz	MO	202MW1N	2.27 W (ERP)	
5251-5599 MHz	MO	202MW1N	3.05 W (ERP)	
8501-8999 MHz	MO	202MW1N	3.84 W (ERP)	
9201-12000 MHz	MO	202MW1N	3.84 W (ERP)	

MOBILE: Temporary Fixed Ground Navy Base, San Diego, CA, within 0.3 km, centered around NL 32-41-05; WL 117-07-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2100 MHz	MO	200MW1N	2.27 W (ERP)	
2396-2689 MHz	MO	202MW1N	2.27 W (ERP)	
2901-3549 MHz	MO	202MW1N	2.27 W (ERP)	

Frequency Information

MOBILE: Temporary Fixed Ground Navy Base, San Diego, CA, within 0.3 km, centered around NL 32-41-05; WL 117-07-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5251-5599 MHz	MO	202MW1N	3.05 W (ERP)	
8501-8999 MHz	MO	202MW1N	3.84 W (ERP)	
9201-12000 MHz	MO	202MW1N	3.84 W (ERP)	

MOBILE: Max Altitude 1524m, Airborne Moorestown, NJ, within 5 km, centered around NL 39-57-45; WL 74-56-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2100 MHz	MO	200MW1N	2.27 W (ERP)	
2396-2689 MHz	MO	202MW1N	2.27 W (ERP)	
2901-3549 MHz	MO	202MW1N	2.27 W (ERP)	
5251-5599 MHz	MO	202MW1N	3.05 W (ERP)	
8501-8999 MHz	MO	202MW1N	3.84 W (ERP)	
9201-12000 MHz	MO	202MW1N	3.84 W (ERP)	

Frequency Information

MOBILE: Max Altitude 1524m, Airborne Kekaha, Hawaii, within 100 km, centered around NL 21-57-59; WL 159-42-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2100 MHz	MO	200MW1N	2.27 W (ERP)	
2396-2689 MHz	MO	202MW1N	2.27 W (ERP)	
2901-3549 MHz	MO	202MW1N	2.27 W (ERP)	
5251-5599 MHz	MO	202MW1N	3.05 W (ERP)	
8501-8999 MHz	MO	202MW1N	3.84 W (ERP)	
9201-12000 MHz	MO	202MW1N	3.84 W (ERP)	

MOBILE: Max Alt 1524m, Airborne Jt Base Pearl Harbor, Hickam, HI, within 150 km, centered around NL 21-21-17; WL 157-56-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2100 MHz	MO	200MW1N	2.27 W (ERP)	
2396-2689 MHz	MO	202MW1N	2.27 W (ERP)	
2901-3549 MHz	MO	202MW1N	2.27 W (ERP)	

Frequency Information

MOBILE: Max Alt 1524m, Airborne Jt Base Pearl Harbor, Hickam, HI, within 150 km, centered around NL 21-21-17; WL 157-56-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5251-5599 MHz	MO	202MW1N	3.05 W (ERP)	
8501-8999 MHz	MO	202MW1N	3.84 W (ERP)	
9201-12000 MHz	MO	202MW1N	3.84 W (ERP)	

MOBILE: Max Alt 1524m, Airborne Naval Aux, Landing Field, CA, within 150 km, centered around NL 33-01-22; WL 118-35-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2100 MHz	MO	200MW1N	2.27 W (ERP)	
2396-2689 MHz	MO	202MW1N	2.27 W (ERP)	
2901-3549 MHz	MO	202MW1N	2.27 W (ERP)	
5251-5599 MHz	MO	202MW1N	3.05 W (ERP)	
8501-8999 MHz	MO	202MW1N	3.84 W (ERP)	
9201-12000 MHz	MO	113MW1N	3.84 W (ERP)	

Frequency Information

MOBILE: Max Altitude 1524m Airborne Navy Base, San Diego, CA, within 150 km, centered around NL 32-41-05; WL 117-07-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2100 MHz	MO	200MW1N	2.27 W (ERP)	
2396-2689 MHz	MO	202MW1N	2.27 W (ERP)	
2901-3549 MHz	MO	202MW1N	2.27 W (ERP)	
5251-5599 MHz	MO	202MW1N	3.05 W (ERP)	
8501-8999 MHz	MO	202MW1N	3.84 W (ERP)	
9201-12000 MHz	MO	113MW1N	3.84 W (ERP)	

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (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) For operations in Hawaii, BAE Systems Information and Electronic systems Integration Inc. must contact PMRF Integrated Control Center prior to ops (808)335-4258. If PMRF ICC is not available, contact the Range Ops Officer (808)335-4564 or Deputy Range Ops Officer (808)335-4253. PMRF Spectrum Manager POC is Jesse Edwards (808)335-4105.
- (4) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by USAF, contract number FA8650-19-C-7925. The use of this radio station in any other manner or for any other purpose will constitute as 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 numerated above.

Special Conditions:

- (5) Stop buzzers: Samantha DiFrancisco (781) 860-2628.
- (6) Operation is not permitted the use of the frequency band 5651-7000 MHz.
- (7) Prior to commencing any operations in the 2000-2010 MHz and 2180-2190 MHz frequency bands, experimental licensee must notify licensee of GAMMA ACQUISITION L.L.C. (Call sign E060430, POC/Satellite: S2633. Name: Ms. Allison Minea, Phone Number: 202-293-1216, E-Mail: alison.minea@dish.com). The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.
- (8) Prior to commencing any operations in the 2010-2020 MHz and 2190-2200 MHz frequency bands, experimental licensee must notify licensee of DBSD Services Limited. (Call sign E070272, POC/Satellite: S2651. Name: Ms. Allison Minea, Phone Number: 202-293-1216, E-Mail: alison.minea@dish.com). The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.
- (9) Prior to commencing any operations in the 2483.5 - 2500 MHz frequency band, experimental licensee must notify licensee of GUSA Licensee LLC. (Call sign E970381, S2115. Name: Mr. L. Barbee Ponder IV, Phone Number: 985-335-1503 E-Mail: Barbee.Ponder@Globalstar.com). The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.
- (10) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (11) The applicant must obtain consents from all incumbent Advanced Wireless Service licensees in each proposed area prior to accessing to the frequency range from 2000 MHz to 2200 MHz.
- (12) The applicant must obtain consents from the Educational Broadband Service and Broadband Radio Service licensees in each corresponding proposed area prior to accessing to the frequency range from 2496 MHz to 2690 MHz.
- (13) The applicant must coordinate with the local Society of Broadcast Engineers frequency coordinator in each proposed area prior to performing the tests.
- (14) The applicant must coordinate with the Fixed Microwave Service licensees in the proposed areas in accordance with 47 C.F.R, Part 101.103(d) prior to commencing experimental operations.
- (15) Authorized frequencies shall not overlap any portion of the 2200-2309 MHz band. Authorized bandwidth of the center frequency 2100 MHz shall be limited to 200 MHz.

Special Conditions:

- (16) To protect NASA operations at its Koke'e Park Geophysical Observatory (KPGO), BAE Systems is required to notify the NASA GSFC Spectrum Office (NASA-DL-GSFC-SPECTRUM-MANAGEMENT@MAIL.NASA.GOV) at least three days in advance of all HI operations in the 2901-3549 MHz, 5251-5599 MHz bands.
- (17) Operation is not permitted the use of frequency band 2200-2309 MHz, 3100-3300 MHz, 9300-9420 MHz and 10550-10750 MHz.
- (18) BAE Systems must ensure the unwanted emissions at frequencies below 8500 MHz from operations pursuant to this authorization do not impact NASA's receiving earth stations at Wallops Island, VA or Goldstone, CA.
- (19) During transmission, aircraft shall not exceed the altitude 5,000 ft AGL.
- (20) Operation is noninterference basis and shall not cause harmful interference to, or claim protection from, any other lawfully operating stations.
- (21) Upon notification from the FCC, operation on this assignment is subject to immediate cessation, if it causes harmful interference to NASA assignments.
- (22) This authorization SUPERSEDES the previously issued authorization with the same call sign and file number: amended conditions and frequency bands.