

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

EXPERIMENTAL

(Nature of Service)

WR9XZI

(Call Sign)

XT MO

(Class of Station)

0457-EX-ST-2021

(File Number)

NAME Univ of Kansas CReSIS

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:

These flights will be a test flight to ascertain if the complete system is working prior to a full deployment in Alaska in October 2021.

Station Locations

(1) MOBILE: Wallops Island, VA, within 15 km, centered around NL 37-56-13; WL 75-27-49

Frequency Information

MOBILE: Wallops Island, VA, within 15 km, centered around NL 37-56-13; WL 75-27-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2.395-2.69 GHz	MO	295MG0N	4.3 W (ERP)	
2.7-2.722 GHz	MO	22M0G0N	4.3 W (ERP)	
2.728-2.782 GHz	MO	54M0G0N	4.3 W (ERP)	

This authorization effective June 15, 2021 and
will expire 3:00 A.M. EST October 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Wallops Island, VA, within 15 km, centered around NL 37-56-13; WL 75-27-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2.788-4.99 GHz	MO	2G20G0N	4.3 W (ERP)	
5-8 GHz	MO	3G00G0N	4.3 W (ERP)	

Special Conditions:

- (1) This frequency assignment in one of the bands 1435-1535 or 2310-2390 MHz was coordinated prior to authorization with the Mid-Atlantic Area Frequency Coordinator (AFC), Patuxent River, MD, who also coordinated it, as appropriate, with the Aerospace and Flight Test Radio Coordinating Council. Use of this frequency under the authority of this assignment is subject to such further coordination with the AFC as necessary to ensure compatibility with existing uses.
- (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) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at <http://sbe.org/wp-content/uploads/freqcoor.pdf> to find the appropriate coordinator.
- (5) Obtain consents from the Educational Broadband Service and Broadband Radio Service licensees prior to accessing to the frequency range from 2496 MHz to 2690 MHz.
- (6) Coordinate with Fixed Microwave Service licensees in accordance with 47 C.F.R, Part 101.103(d) prior to commencing experimental operations.
- (7) The stop buzzer is Jennifer Laverentz at (785) 864-7722.
- (8) Airborne operation is prohibited in 3550-3700 MHz band due to an explicit CBRS Service rules.
- (9) Univ. of Kansas CReSIS must adhere to the conditions defined in FAA WebFCR coordination NG T210235.
- (10) At least 7 days prior to operation Univ. of Kansas CReSIS , shall coordinate and scheduled all operations with the DoD Western Area Frequency Coordinator (WAFC).
- (11) At least 96 hours prior to operation, Univ. of Kansas CReSIS , shall coordinate and scheduled all operations with James Littlefield, james.littlefield.1@us.af.mil; 412cs.spectrum.management@edwards.af.mil; COMM (661) 277-4763; CELL (661) 810-8694.

Special Conditions:

- (12) 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 EMail: 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.
- (13) Prior to commencing any operations in the 5925-6425 MHz frequency band, experimental licensee must notify licensees of C-band earth stations. 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. Please notify the following licensees:
Call Sign: WE60
Frequency band: 5925-6425 MHz
Licensee: SES Government Solutions, Inc.
ATTN: Rick Minter Phone: 703-610-1002
Fax: 703-610-1030
E-Mail: rick.minter@americom-gs.com
Site contact: Ron Teske 410-549-4314
- (14) All operations shall be coordinated with the Wallops Flight Facility Spectrum Manager, Felipe Arroyo at 757.824.1623 or felipe.arroyo-1@nasa.gov, at least 7 days prior to operation.
- (15) The 2690-2700 MHz and 4990-5000 MHz bands shall be excluded from operations.
- (16) NTIA noting the band 5850-5925 MHz, IAW NG 160, the use of the non-Federal mobile service is limited to Dedicated Short Range Communications operating in the Intelligent Transportation System radio service.
- (17) To protect nearby airport surveillance radar, notch out 2722-2728 MHz and 2782-2788 MHz.