

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

EXPERIMENTAL

(Nature of Service)

XC FX

(Class of Station)

WL2XLT

(Call Sign)

0784-EX-CN-2020

(File Number)

NAME KEYW Corp

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(c) of the Commission's Rules

Station Locations

(1) Severn (ANNE ARUNDEL), MD - NL 39-09-06; WL 76-41-01

Frequency Information

Severn (ANNE ARUNDEL), MD - NL 39-09-06; WL 76-41-01

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2900-3550 MHz	FX	650MM3N	5.3 kW (ERP)	
8250-9000 MHz	FX	750MM3N	12 kW (ERP)	
9200-10600 MHz	FX	1G40M3N	12 kW (ERP)	
10700-12000 MHz	FX	1G30M3N	12 kW (ERP)	

This authorization effective September 10, 2021 and
will expire 3:00 A.M. EST June 01, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



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.

Special Conditions:

(3) VSAT Call Sign: E070238
Frequency bands: 11.7-12.2 GHz
Licensee: Enlaces Integra, S.de R. L. de C.V. Phone Number: 011 (52-55) 2629 587
Fax Number: 011 (52-55)2629 5865
E-Mail: apicazo@satmex.com
Attention: Mr Alonso A Picazo

VSAT Call Sign: E100022
Frequency bands: 11.7-12.2 GHz
Licensee: Galaxy Broadband Communications, Inc.
Phone Number: 877-463-9728
E-Mail: rick@galaxybroadband.ca
Attention: Mr. Rick Hodgkinson

VSAT Call Sign: E060317
Frequency bands: 11.7-12.2 GHz
Licensee: RigNet SatCom, Inc. Phone Number: 281-674-0150
Fax Number: 281-674-0101
E-Mail: raul.magallanes@rig.net
Attention: Mr. Raul Magallanes

VSAT Call Sign: E070223, E110013
Frequency bands: 11.7-12.2 GHz
Licensee: Intelsat LLC Phone Number: 202-944-7848
Fax Number: 202-944-7870
E-Mail: susan.crandall@intelsat.com
Attention: Susan H Crandall

VSAT Call Sign: E000166
Frequency bands: 11.7-12.2 GHz
Licensee: HNS License Sub, LLC Phone Number: 301-428-7140
Fax Number: 301-428-2818
E-Mail: jodi.goldberg@echostar.com
Attention: Jodi Goldberg

TFE Call Sign: E030150
Frequency bands: 11.7-12.2 GHz
Licensee: WBOC, Inc. Phone Number: 443-880-9201
E-Mail: rguzman@wboc.com
Attention: Robert Guzman

Mobile Earth station (MES/MSS) Call Sign: E060390
Frequency bands: 11.7-12.2 GHz
Licensee: L-3 Communications Corp Linkabit Division
Phone Number: 858-552-9944
E-Mail: Mark.Monte@L-3com.com
Name: Mark S. Lawless Phone Number: 801-594-2808
Company: L3 Technologies, Inc.
E-Mail: mark.s.lawless@L3T.com

MES/MSS Call Sign: E060449, E060450, E060451, E060101, E060447, E060448
Frequency bands: 11.7-12.2 GHz

Special Licensee: Gilat North America, L.L.C. Phone Number: 703-848-1000

E-Mail: lesley.cooper@spacenet.com

Attention: Lesley Cooper

MES/MSS Call Sign: E960474

Frequency bands: 11.7-12.2 GHz

Licensee: Omnitrac, LLC. Phone Number: 469-801-6180

Fax Number: 469-801-6431

E-Mail: darnold@omnitrac.com

Attention: David Arnold

Name: Paul C. Besozzi Phone Number: 202-457-5292

Company: Squire Patton Boggs (US) LLP Fax Number: 202-457-6315

E-Mail: paul.besozzi@squirepb.com

MES/MSS Call Sign: E880423, E040139

Frequency bands: 11.7-12.2 GHz

Licensee: Omnitrac, Inc. Phone Number: 858-651-8838

Fax Number: 858-658-1576

E-Mail: ruelv@omnitrac.com

Attention: Mr. Ruel Valenzuela

Name: Daniel H. Kahn Phone Number: 202-662-5539

Company: Covington & Burling LLP Fax Number: 202-778-5539

E-Mail: dkahn@cov.com

VMES Call Sign: E960413

Frequency bands: 11.7-12.2 GHz

Licensee: ThinKom Solutions Inc. Phone Number: 310-896-3903

Fax Number: 310-214-1066

E-Mail: JorgeR@thin-kom.com

Attention: Mr. Jorge S Raphael

VMES Call Sign: E960413, E170191

Frequency bands: 11.7-12.2 GHz

Licensee: NBC Telemundo License LLC

ATTN: Margaret L Tobey

Phone: 202-524-6401 Fax: 202-524-6411 E-Mail: margaret.tobey@nbcuni.com

Site Contact: MICHELE TULLY 321-723-5395

NGSO BES (Blanket earth station) Call Sign: E190555

Frequency band(s): 11700-12200 MHz

Licensee: Kepler Communications Inc.

Phone Number: 437-537-5371

E-Mail: nspina@keplercommunications.

Attention: Mr Nickolas G Spina

Receive-Only Blanket Earth Station Call Sign: E040344

Direct to Home Fixed Satellite

Frequency band(s): 11700-12200 MHz

Licensee: DISH Operating L.L.C.

Name: EchoStar Satellite L.L.C.

Phone Number: 303-723-1000

Attention: David K Moskowitz

Name: Pantelis Michalopoulos

Spec: Phone Number: 202-429-6494
Company: Steptoe & Johnson LLP
E-Mail: pmichalo@steptoe.com
Attention: Relationship: Legal Counsel

VMES Call Sign: E170121
Frequency bands: 10950- 11200 MHz, 11450- 11950 MHz, 11700- 12200 MHz
Licensee: Intelsat License LLC Phone Number: 703-559-7848
Fax Number: 703-559-8539
E-Mail: Cynthia.Grady@intelsat.com
Attention: Cynthia Grady
Name: Richard Cameron Phone Number: 202-230-4962
Company: LMI Advisors
E-Mail: rcameron@lmiadvisors.com

VMES Call Sign: E140087
Frequency bands: 10700- 12750 MHz
Licensee: Astronics AeroSat Corporation Phone Number: 603-879-0205
E-Mail: jonathan.epstein@astronics.com
Attention: Mr. Jonathan Epstein
Name: Carlos Nalda Phone Number: 5713325626
Company: LMI Advisors
E-Mail: cnalda@lmiadvisors.com

VMES Call Sign: E170070
Frequency bands: 10950- 11200 MHz, 11450- 12200 MHz
Licensee: Kymeta Corporation Phone Number: 425-896-3700
E-Mail: ryans@kymetacorp.com
Attention: Mr Ryan Stevenson
Name: Robert Koppel Phone Number: 703-584-8669
Company: Lukas, LaFuria, Gutierrez & Sachs, LLP
E-Mail: bkoppel@fcclaw.com

VMES Call Sign: E100099
Frequency bands: 11.7-12.2 GHz
Licensee: L3harris Technologies Phone Number: 805-584-1717 x3179
E-Mail: peter.richardson@l3harris.com
Attention: Mr. Peter A Richardson

VMES Call Sign: E110078
Frequency bands: 10950- 11200 MHz, 11450- 11950 MHz, 11700- 12200 MHz
Licensee: KVH Industries, Inc. Phone Number: 401-845-8148
Fax Number: 401-845-8116
E-Mail: ffeingold@kvh.com
Attention: Ms. Felise Feingold
Name: Carlos Nalda Phone Number: 571-332-5626
Company: LMI Advisors
E-Mail: cnalda@lmiadvisors.com
Attention: Mr. Carlos Nalda

NGSO BES (Blanket earth station) Call Sign: E190066
Frequency bands: 10700- 12700 MHz
Licensee: SpaceX Services, Inc. Phone Number: 202-649-2700
E-Mail: David.Caldman@spacex.com

Licensee Name: KEYW Corp File Number: 0784-EX-CN-2020 Call Sign: WL2XLT
E-Mail: David.Goldman@spacex.com
Special Attention: David Goldman

Special Conditions:

- (4) Prior to commencing any operations in the 10.7-12 GHz frequency band, experimental licensee must notify licensees of 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: E110095

Frequency bands: 11.7-12.2 GHz

Licensee: Intelsat License LLC, as debtor-in-possession

ATTN: Susan H Crandall

Phone: 703-559-7848 Fax: 703-559-8539 E-Mail: susan.crandall@intelsat.com

Site Contact: Hank Rausch/ Philipp Hulcher 3015716027

Call Sign: E110007

Frequency bands: 11.7-12.2 GHz

Licensee: Denali 20020, LLC

ATTN: Mr James Veeder

Phone: 206-910-4614 Fax: E-Mail: jimveeder@aol.com

Site Contact: Dave Cloud 703-428-0289

Call Sign: E120200

Frequency bands: 10.95-11.2 GHz, 11.45-12.2 GHz

Licensee: Globecomm License Sub LLC

ATTN: Julia Hanft

Phone: 631-457-1144 Fax: 6312311557 E-Mail: jhanft@globecomm.com

Site Contact: James Emerick 240-553-9401

Call Sign: E020288

Frequency bands: 10.95-11.2 GHz, 11.45-12.2 GHz

Licensee: Globecomm License Sub LLC

ATTN: John Flynn

Phone: 6314571347 Fax: E-Mail: fcclicense@globecomm.com

Site Contact: SHAWN SMITH 240-553-9427

Call Sign: E202138

Frequency bands: 11.7-12.2 GHz

Licensee: Johns Hopkins University, Applied Physics Laboratory

ATTN: Mr Frank P Mackowick

Phone: 443-994-1095 Fax: E-Mail: frank.mackowick@jhuapl.edu

Site Contact: Frank Mackowick 443.994.1095

Call Sign: E5477

Frequency bands: 11.7-12.2 GHz

Licensee: CBS Broadcasting Inc.

ATTN: Mr Daniel G Ryson

Phone: 202-457-4505 Fax: 202-457-4615 E-Mail: dryson@cbs.com

Site Contact: RICK SEABY 410-466-0013

Call Sign: E7605

Site Contact: MICHELE TULLY 321-723-5395

Special

Call Sign: E040167
Site Contact: M C R Transmission 202-661-0053
Frequency bands: 11.7-12.2 GHz
Licensee: NBC Telemundo License LLC
ATTN: Margaret L Tobey
Phone: 202-524-6401 Fax: 202-524-6411 E-Mail: margaret.tobey@nbcuni.com

Call Sign: E030185
Frequency bands: 11.7-12.2 GHz
Licensee: WBAL Hearst Television Inc.
ATTN: Stephen Hartzell
Phone: 919-839-0300 Fax: 919-839-0304 E-Mail: shartzell@brookspierce.com
Site Contact: Hank Volpe 410-467-3000

Call Sign: E960119
Frequency bands: 11.7-12.2 GHz
Licensee: Scripps Broadcasting Holdings LLC
ATTN: David M Giles
Phone: 5139773981 x Fax: E-Mail: khoward@bakerlaw.com

Call Sign: E940451
Frequency bands: 11.7-12.2 GHz
Licensee: The Ahmadiyya Movement in Islam, Inc. USA
ATTN: Mr Munir Ahmad
Phone: 301-332-3287 Fax: 301-879-0222 E-Mail: cmunir@muslimtv.tv
Site Contact: MUNIR AHMAD 301-332-3287

Call Sign: E930102
Frequency bands: 11.7-12.2 GHz
Licensee: Maryland Public Broadcasting Commission
ATTN: Mr Carl Wolfe
Phone: 410-581-4201 Fax: 410-581-6579 E-Mail: cwolfe@mpt.org
Site Contact: KIRBY STORMS 410-581-4234

Call Sign: E020167
Frequency bands: 11.7-12.2 GHz
Licensee: Sinclair Broadcast Group, Inc.
ATTN: Paul A. Cicelski, Esq.
Phone: 202-416-6756 Fax: 202-293-7783 E-Mail: pcicelski@lrmansenter.com
Site Contact: HARVEY ARNOLD 410-568-1574

Call Sign: E210038
Frequency bands: 11.7-12.2 GHz
Licensee: WML Services, LLC
ATTN: Brian Higgins
Phone: 202-783-4141 Fax: 202-783-5851 E-Mail: bhiggins@wbklaw.com
Site Contact: John Cunha 202-898-7677

Call Sign: E190108
Frequency bands: 11.7-12.2 GHz
Licensee: WML Services, LLC
ATTN: c/o William LeBeau, Esq.

Speci Phone: 202-862-5965 Fax: 202-955-5564 E-Mail: bill.lebeau@hklaw.com
Site Contact: Tu Vu 202-898-7590

Call Sign: E050252
Frequency bands: 11.7-12.2 GHz
Licensee: SES Government Solutions, Inc.
ATTN: Rodrigo Gomez
Phone: 703-610-1016 Fax: 703-610-1030 E-Mail: rodrigo.gomez@ses-gs.com
Site Contact: Tim Kavanaugh 703-350-8665

Call Sign: E030049
Frequency bands: 11.7-12.2 GHz
Licensee: National Cable Satellite Corporation d/b/a C-SPAN
ATTN: Mr Richard Fleeson
Phone: 202-737-3220 Fax: E-Mail: Rfleeson@c-span.org
Site Contact: KEVIN KING 202-737-3220

Call Sign: E080158
Frequency bands: 11.7-12.2 GHz
Licensee: Alabama Educational Television Commission (Licensee of WLRH-FM)
ATTN: ALLAN A. PIZZATO
Phone: 205-328-8756 x138 Fax: 205-458-1002 E-Mail: apizzato@aptv.org
Site Contact: GARLAND SCOTT (202)675-0342

Call Sign: E130240
Frequency bands: 11.7-12.2 GHz
Licensee: The Boeing Company
ATTN: Mr Ronald E Center
Phone: 866-248-1493 Fax: 206-662-0701 E-Mail: ronald.e.center@boeing.com
Site Contact: Allen S Lindsay, SR 206-544-6053
Call Sign: E100012
Frequency bands: 11.7-12.2 GHz
Licensee: Hearst Television Inc.
ATTN: Mr Mark J Prak
Phone: 919-839-0300 Fax: 919-839-0304 E-Mail: mprak@brookspierce.com
Site Contact: DAN HIGHLAND 407-415-0127

Call Sign: E910469
Frequency bands: 11.7-12.2 GHz
Licensee: AARP
ATTN: Mr Bill Western
Phone: 202-434-2634 Fax: 202-434-6469 E-Mail: bwestern@aarp.org

Call Sign: E090071
Frequency bands: 11.7-12.2 GHz
Licensee: ILERI, INC.
ATTN: KAZIM AKTURK
Phone: 202-422-2960
Site Contact: Ilyas Kilicaslan 202-422-2960

Call Sign: E040269, KA282
Frequency bands: 11.7-12.2 GHz
Call Sign: E890197
Frequency bands: 10.05-11.2 GHz, 11.45-12.2 GHz

Frequency bands: 10.95-11.2 GHz, 11.45-12.2 GHz
Special Licensee: DCI II, Inc.

ATTN: Mr Alan C Levin
Phone: 202-775-4300 Fax: 202-775-4363
Site Contact: ALAN C. LEVIN 202-775-4300

Call Sign: E970290
Frequency bands: 11.7-12.2 GHz
Licensee: CBS Broadcasting Inc.
ATTN: Edwin L. Nass
Phone: 202-457-4505 Fax: 202-457-4615
Site Contact: ALAN C. LEVIN 202-775-4300

Call Sign: E150015, E150016
Frequency bands: 10.95-11.2 GHz, 11.45-12.2 GHz
Licensee: NBC Telemundo License LLC
ATTN: Margaret L Tobey
Phone: 202-524-6401 Fax: 202-524-6411 E-Mail: margaret.tobey@nbcuni.com
Site Contact: NBC Satellite Operations (202) 885-4215

Call Sign: E070259,
Site Contact: NBC Satellite Operations Desk (212) 664-4721

Call Sign: E960373
Site Contact: MICHELE TULLY 321-723-5395

Call Sign: E860946
Frequency bands: 11.7-12.2 GHz
Licensee: NBC Telemundo License LLC
ATTN: Margaret L. Tobey
Phone: 202-637-4262 Fax: 202-637-4548 E-Mail: margaret.tobey@nbcuni.com

Call Sign: E070246
Frequency bands: 11.7-12.2 GHz
Licensee: ATN Production
ATTN: Affra I Khallash
Phone: 202-223-1709 x Fax: 202-223-8837 E-Mail: affra@atn1.dk
Site Contact: Affra I. Haj 202-378-8041

Call Sign: E140059, E860317
Site Contact: Scott Bowen 410-970-7513

Call Sign: E900448
Site Contact: MARK RATHERT 410-549-4301
Frequency bands: 11.7-12.2 GHz
Licensee: SES Americom, Inc.
ATTN: Daniel C.H. Mah
Phone: 202-478-7137 Fax: 202-478-7101 E-Mail: daniel.mah@ses.com

Call Sign: E170138
Frequency bands: 10.7 -12.2 GHz
Licensee: SES Americom, Inc.
ATTN: Ms Petra A Vorwig
Phone: 202-478-7143 Fax: 202-478-7111 E-Mail: netra.vorwin@ses.com

Special Site Contact: Mark Rathert 410 870 7501

Call Sign: E170197
Frequency bands: 10.95-11.2 GHz, 11.45-11.95 GHz
Licensee: SES Americom, Inc.
ATTN: Ms Petra A Vorwig
Phone: 202-478-7143 Fax: 202-478-7111 E-Mail: petra.vorwig@ses.com
Site Contact: Mark Rathert 410 870 7501

Call Sign: E050287, E170089
Frequency bands: 10.95-11.2 GHz, 11.45-12.2 GHz
Licensee: SES Americom, Inc.
ATTN: Ms Petra A Vorwig
Phone: 202-478-7143 Fax: 202-478-7111 E-Mail: petra.vorwig@ses.com
Site Contact: Mark Rathert 410 870 7501

Call Sign: E120202
Frequency bands: 11.7-12.2 GHz
Licensee: IP Access International
ATTN: Alan Rich
Phone: 949-655-1028 Fax: 949-240-8072 E-Mail: Alan.Rich@ipinternational.net
Site Contact: SES AMERICOM INC 410-549-4310

Call Sign: E920698
Frequency bands: 11.45-12.2 GHz
Licensee: SES Americom, Inc.
ATTN: Ms Petra A Vorwig
Phone: 202-478-7143 Fax: 202-478-7111 E-Mail: petra.vorwig@ses.com

Call Sign: E990016
Frequency bands: 11.45-12.2 GHz
Licensee: SES Americom, Inc.
ATTN: Joslyn Read
Phone: 202-478-7183 Fax: 202-478-7183 E-Mail: joslyn.read@ses-newskies.com
Site Contact: BILL BRIDGEFORTH 410-549-4300

Call Sign: E170137
Frequency bands: 11.45-12.2 GHz
Licensee: SES Americom, Inc.
ATTN: Ms Petra A Vorwig
Phone: 202-478-7143 Fax: 202-478-7111 E-Mail: petra.vorwig@ses.com
Site Contact: Mark Rathert 410 870 7501

Call Sign: E140054
Frequency bands: 11.7-12.2 GHz
Licensee: SES Americom, Inc.
ATTN: Ms Nancy J Eskenazi
Phone: 2024787144 x Fax: 2024787111 E-Mail: nancy.eskenazi@ses.com
Site Contact: Scott Bowen 410-970-7513

Special Conditions:

- (5) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the U.S. Government; contract number FA8604-15-D-7977. 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.
- (6) The designated point-of-contact to terminate transmissions if interference occurs is Nathan Binkley at (937) 702-9519.
- (7) Coordinate with the Fixed Microwave Service licensees in the proposed venue in accordance with 47 C.F.R, Part 101.103(d) prior to operation in 9200-12000 MHz band.