Matt Day, 8570 Criterion Drive, Suite 118, Colorado Springs, CO 80920,

United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION

EXPERIMENTAL	WQ9XRA
(Nature of Service)	(Call Sign)
XT FX	1557-EX-ST-2020
(Class of Station)	(File Number)

NAME JAXON ENGINEERING and MAINTENANCE

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:
RF testing in support of Defense Threat Reduction Agencys EMREP program.

Station Locations
(1) Corpus Christi (NUECES), TX - NL 27-51-01; WL 97-36-55

Frequency Information

Corpus Christi (NUECES), TX - NL 27-51-01; WL 97-36-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
0.1-5.9 MHz	FX	N0N	39.811 W (ERP)	0.001 %
6.2-7.2 MHz	FX	N0N	39.811 W (ERP)	0.001 %
7.45-9.4 MHz	FX	N0N	39.811 W (ERP)	0.001 %

This authorization effective November 05, 2020 and
will expire 3:00 A.M. EST May 06, 2021

FEDERAL COMMUNICATIONS COMMISSION

Frequency Information

Corpus Christi (NUECES), TX - NL 27-51-01; WL 97-36-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.9-11.6 MHz	FX	N0N	39.811 W (ERP)	0.001 %
12.1-13.57 MHz	FX	N0N	39.811 W (ERP)	0.001 %
13.87-15.1 MHz	FX	N0N	39.811 W (ERP)	0.001 %
15.8-17.48 MHz	FX	N0N	39.811 W (ERP)	0.001 %
17.9-18.9 MHz	FX	N0N	39.811 W (ERP)	0.001 %
19.02-21.45 MHz	FX	N0N	39.811 W (ERP)	0.001 %
21.85-25.67 MHz	FX	N0N	39.811 W (ERP)	0.001 %
26.1-123.1125 MHz	FX	N0N	39.811 W (ERP)	0.001 %
123.5875-225 MHz	FX	N0N	39.811 W (ERP)	0.001 %
328.6-335 MHz	FX	N0N	39.811 W (ERP)	0.001 %

Frequency Information

Corpus Christi (NUECES), TX - NL 27-51-01; WL 97-36-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
399.9-758 MHz	FX	N0N	39.811 W (ERP)	0.001 %
768-788 MHz	FX	N0N	39.811 W (ERP)	0.001 %
798-1000 MHz	FX	N0N	39.811 W (ERP)	0.001 %

Special Conditions:

(1) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at https://www.sbe.org/sections/freq_local.php to find the appropriate coordinator.

(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) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.

(4) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.

Special Conditions:

(5) Prior to commencing any operations in the frequencies below, JAXON ENGINEERING and MAINTENANCE must obtain consent from the following within 50 miles of the contours of the testing area:
- Paging Service licensees in 35 MHz
- Paging Service licensees in 43 MHz
- Paging Service licensees in 152 MHz
- Paging Service licensees in 158 MHz
- Paging Service licensees in 152 MHz/158 MHz
- AMTS Licensee (217-218 MHz/219-220 MHz)
- 218-219 MHz Service licensees
- 220-222 MHz Service licensees
- Paging Service licensees in 454MHz/459 MHz
- General Aviation Air-Ground Service in 454 MHz/459 MHz
- 700 MHz licensees (698-758 MHz and 775-788 MHz)
- SMR licensees (809-824 MHz/854-869 MHz)
- B/ILT licensees (809-824 MHz/854-869 MHz)
- Cellular licensees (824-849 MHz/869-894 MHz)
- Commercial Air-Ground licensee (849-851 MHz/894-896 MHz)
- SMR licensees (896-901 MHz/935-940 MHz)
- B/ILT licensees (896-901 MHz/935-940 MHz)
- Narrowband PCS licensees (901-902/930-931/940-941 MHz)
- Location & Monitoring Service licensees (902-928 MHz)
- Paging Service licensees in 929 MHz and 931 MHz

(6) Licensee must successfully secure consents from the Upper Microwave Flexible Use Service licensees in the proposed area prior to accessing to the frequency from 614 MHz to 698 MHz.

(7) Licensee must successfully coordinate with the Fixed Microwave Service licensees in the proposed area in accordance with 47 C.F.R, Part 101.103(d) prior to operation in frequency range from 928 MHz to 960 MHz.

Special Conditions:

(8) JAXON ENGINEERING and MAINTENANCE to notify each public safety (Active Public Safety Land Mobile Radio and Microwave Licenses) licensee within 10 miles of the dates and times of the proposed operation and provide a contact for emergency shut-off if interference occurs:

KBG633 KINGSVILLE, CITY OF
KBN495 NUECES COUNTY EMERGENCY SERVICES DISTRICT
KKC784 Texas, State of (DPS)
KNBX241 PORT OF CORPUS CHRISTI AUTHORITY
KNFW516 KLEBERG, COUNTY OF
KNFX431 COASTAL BEND HOSPITAL
KNGN918 CORPUS CHRISTI, CITY OF
KNGW628 City of Corpus Christi
KNIF254 TEXAS, STATE OF Del Mar College
KNIR869 TEXAS, STATE OF
KNNY532 City of Corpus Christi Police
KTX778 CORPUS CHRISTI, CITY OF
KUE449 SAN PATRICIO, COUNTY OF
KUE450 INGLESIDE, CITY OF
KUE456 KINGSVILLE, CITY OF
KUU317 ALICE, CITY OF
KUX421 PORTLAND, CITY OF
KWH635 ODEM, CITY OF
KYS911 PORT OF CORPUS CHRISTI AUTHORITY
KZT351 ROCKPORT, CITY OF
WNGF771 COUNTY OF KLEBERG
WNGI597 Texas, State of
WNMQ514 JIM WELLS, COUNTY OF
WNNK739 SAN PATRICIO, COUNTY OF
WNXC786 Texas, State of, Texas Dept. of Transportation
WNXC787 Texas, State of, Texas Dept. of Transportation
WNXU355 WOODSBORO VOLUNTEER FIRE DEPT
WNYF319 SAN PATRICIO, COUNTY OF
WPAV398 DRISCOLL, CITY OF
WPDE917 SAN PATRICIO, COUNTY OF
WPJP846 ROBSTOWN, CITY OF
WPJV230 Texas, State of, Texas Dept. of Transportation
WPKC432 Ingleside on the Bay Fire Department
WPKI364 CORPUS CHRISTI, CITY OF
WPLR647 City of Mathis
WPML787 BISHOP, CITY OF
WPPZ726 CITY OF TAFT
WPQJ224 CORPUS CHRISTI, CITY OF
WPRG777 CORPUS CHRISTI, CITY OF
WPRH878 NUECES, COUNTY OF
WPTF364 PORTLAND, CITY OF
WPTS591 DEL MAR COLLEGE POLICE ACADAMY
WPWW859 KINGSVILLE, CITY OF 0001668664 YE Active 01/31/2023
WPWX340 CORPUS CHRISTI, CITY OF
WPXF419 PORT OF CORPUS CHRISTI AUTHORITY
WPYC282 NUECES COUNTY EMERGENCY SVC DIST # 3
WPZQ705 SAN PATRICIO, COUNTY OF

Speci WQAA274 PORTLAND, CITY OF
WQBH217 Nueces, County of
WQFG940 ALICE, CITY OF
WQIG515 Corpus Christi, City Of
WQIY434 HALO FLIGHT INC
WQJA506 ORANGE GROVE VOLUNTEER FIRE DEPT.
WQJF204 CORPUS CHRISTI, CITY OF
WQKK692 City of Corpus Christi Police Department
WQRE605 JIM WELLS, COUNTY OF
WQUM883 DRISCOLL CHILDRENS HOSPITAL
WQUT973 KINGSVILLE, CITY OF
WQWK371 Texas A & M University-Corpus Christi
WQXE960 Texas, State of, Texas Dept. of Transportation
WQYA956 ROBSTOWN, CITY OF
WRCU513 SAN PATRICIO COUNTY PRECINCT 4
WRDU708 ARANSAS, COUNTY OF
WREK440 CORPUS CHRISTI, CITY OF
WRJK674 LOWER COLORADO RIVER AUTHORITY
WYR835 SKIDMORE VOLUNTEER FIRE DEPT INC
WCE339 Texas, State of (DPS)
WPQR927 San Patricio Municipal Water District
WPQT669 City of Corpus Christi Police Communications
WPXA616 CITY OF CORPUS CHRISTI, TEXAS
WPTZ776 STATE OF TEXAS

(9) JAXON ENGINEERING and MAINTENANCE must notch out the following bands: 215 – 530 kHz, 2501 – 2502 kHz, 5003 – 5005 kHz, 10003 – 10005 kHz, 15005 – 15010 kHz, 19990 – 19995 kHz, 20005 – 20010 kHz, 25005 – 25010 kHz, 73 – 75.4 MHz, 108 – 137 MHz, 242.9 – 243.1 MHz, 328.6 – 335.4 MHz, 449.75 – 450.25 MHz, 608 – 614 MHz, 980 – 1000 MHz.

Special Conditions:

(10) JAXON ENGINEERING and MAINTENANCE must notch out the following frequencies:

a. (+/- 1.4 kHz) 2142.4 kHz, 2174 kHz, 2183.4 kHz, 2187.5 kHz, 2262.4 kHz, 2660.4 kHz, 2679.4 kHz, 2749.4 kHz, 3024.4 kHz, 3054.4 kHz, 3057.4 kHz, 3120.4 kHz, 3123.4 kHz, 4126.4 kHz, 4177.5 kHz, 4207.5 kHz, 4572.5 kHz, 4576.4 kHz, 4731.4 kHz, 4734.4 kHz, 4821 kHz, 5108 kHz, 5681.4 kHz, 5694.4 kHz, 5697.4 kHz, 5700.4 kHz, 5885 kHz, 5943.5 kHz, 6216.4 kHz,
6268 kHz, 6312 kHz, 6502.4 kHz, 6517.4 kHz, 6710.4 kHz, 6743.4 kHz, 7419.5 kHz, 7630.5 kHz, 7669.5 kHz, 7736 kHz, 7743 kHz, 7747 kHz, 7775 kHz, 7793 kHz, 7821 kHz, 8292.4 kHz, 8414.5 kHz, 8765.4 kHz, 8981.4 kHz, 8984.4 kHz, 9035.4 kHz, 9038.4 kHz, 10774 kHz, 10810 kHz, 10891 kHz, 10918 kHz, 11197.4 kHz, 11200.4 kHz, 11203.4 kHz, 12081.5 kHz, 12291.4
kHz, 12520 kHz, 12577 kHz, 13219.4 kHz, 13222.4 kHz, 13434 kHz, 13493 kHz, 13496 kHz, 14428.5 kHz, 14461 kHz, 15640.5 kHz, 16027.5 kHz, 16421.4 kHz, 16695 kHz, 16804.5 kHz, 17922.4 kHz, 17989.4 kHz, 18186.5 kHz, 20137 kHz, 20247.5 kHz, 20330 kHz, 20843 kHz, 20882.5 kHz, 20985 kHz, 23074 kHz, 23077 kHz, 23091 kHz, 23094 kHz, 23840.5 kHz, 24228.5 kHz, 24793.5 kHz, 26582.5 kHz, 26640.5 kHz, 27590.5 kHz

b. (+/- 1.5 kHz) 5107 kHz, 5108.5 kHz, 5110 kHz, 5215.5 kHz, 5217 kHz, 5221.5 kHz, 5223 kHz, 5224.5 kHz, 5264.5 kHz, 5266 kHz, 5267.5 kHz, 5270.5 kHz, 5272 kHz, 5418 kHz, 5419.5 kHz, 5421 kHz, 5931 kHz, 5934 kHz, 5941 kHz, 5942.5 kHz, 5944 kHz, 6961 kHz, 7439 kHz, 7577 kHz, 7617 kHz, 7626 kHz, 7754.5 kHz, 7845 kHz, 7884 kHz, 7909 kHz, 8459 kHz, 8503.9 kHz,
8682 kHz, 9110 kHz, 9169 kHz, 9291 kHz, 9332 kHz, 10297.5 kHz, 10338.5 kHz, 10354.5 kHz, 10378 kHz, 10675 kHz, 10759 kHz, 10788 kHz, 10929.5 kHz, 10935.5 kHz, 11024 kHz, 11045 kHz, 11157.5 kHz

c. (+/- 3 kHz) 121.5 MHz, 122.9 MHz, 123.1 MHz

d. (+/- 5.5 kHz) 143.700 MHz, 149.200 MHz, 150.700 MHz, 155.805 MHz, 162.325 MHz, 163.050 MHz, 163.1375 MHz, 164.900 MHz, 165.3125 MHz, 166.4625 MHz, 171.2375 MHz, 171.350 MHz, 179.9875 MHz, 411.8125 MHz, 412.975 MHz, 413.000 MHz, 413.025 MHz,
415.0875 MHz

e. (+/- 8 kHz) 156.050 MHz, 156.250 MHz, 156.275 MHz, 156.300 MHz, 156.525 MHz, 156.550 MHz, 156.600 MHz, 156.650 MHz, 156.675 MHz, 156.750 MHz, 156.800 MHz, 157.000 MHz, 157.050 MHz, 157.075 MHz, 157.100 MHz, 157.150 MHz, 157.175 MHz, 161.600 MHz

f. (+/- 10 kHz) 161.975 MHz, 162.025 MHz

g. (+/- 12.5 kHz) 162.450 MHz, 162.525 MHz, 162.550 MHz, 162.700 MHz, 162.9625 MHz, 164.3625 MHz, 164.450 MHz, 166.5625 MHz, 166.6625 MHz, 167.45 MHz, 167.475 MHz, 167.55 MHz, 167.750 MHz, 168.025 MHz, 168.625 MHz, 168.6625 MHz, 168.675 MHz, 168.775 MHz, 169.175 MHz, 169.95 MHz, 170.000 MHz, 170.750 MHz, 171.7875 M72.5125 MHz, 410.075 MHz, 413.6125 MHz

Special Conditions:

(11) Prior to commencing any operations in the 137-138 MHz, 148-150.05 MHz, 161-163 MHz, and 400.15-401 MHz frequency bands, experimental licensee must notify licensee of ORBCOMM License Corp. (Call sign E940534, POC/Satellite: S2103. Name: Mr. Walter H. Sonnenfeldt, Phone Number: 585-461-3018, E-Mail: sonnenfeldt.walter@orbcomm.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.

(12) Prior to commencing any operations in the 137.025 - 138 MHz and 148.25 - 149.95 MHz frequency bands, experimental licensee must notify licensee of Swarm Technologies, Inc. (Call sign E190490, POC/Satellite: S3041. Name: Dr. Sophie Arlow, Phone Number: 425-753-3349, E-Mail: sophie@swarm.space). 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 156.0125-162.0375 MHz frequency band, the applicant must notify Iridium Constellation LLC (Ms. Maureen C McLaughlin, Phone Number: 703-287-7518 E-Mail: maureen.mclaughlin@iridium.com) or Name: Jennifer Hindin, Phone Number: 2027194975 E-Mail: jhindin@wileyrein.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.

(14) Prior to commencing any operations in the 156.7625-156.7875 MHz, 156.8125-156.8375 MHz, 161.9625- 161.9875 MHz, 162.0125-162.0375 MHz, 161.9375-161.9625 MHz, and 161.9875-162.0125 MHz frequency bands, the applicant must notify Spire Global, Inc. (Name: Mrs. Francisca Adeuyi, Phone Number: 4153563400 x307, E-Mail: francisca.adeuyi@spire.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.

(15) Prior to commencing any operations in the 156.7625-156.7875 MHz, 156.8125-156.8375 MHz, 161.9625- 161.9875 MHz, 162.0125-162.0375 MHz frequency bands, the applicant must notify HawkEye 360, Inc. (Name: Mr. Rob Rainhart, Phone Number: 571-203-0360 E-Mail: rob@he360.com or Mr. Michael Mineiro Phone Number: 571-203-0360 E-Mail: michael.mineiro@he360.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.

(16) The stop buzzer contact for this project is Richard Hibbeler
Phone: (703) 726-5671
Email: rhibbele@comsearch.com

Special Conditions:

(17) This license SUPERSEDES the previously issued license with the same call sign and file number: adding special conditions 11-16.