

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

EXPERIMENTAL

(Nature of Service)

XD FX

(Class of Station)

WL2XIB

(Call Sign)

0618-EX-CN-2020

(File Number)

NAME Lockheed Martin Corporation

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(j) of the Commission's Rules

Station Locations

- (1) Grand Prairie (TARRANT), TX - NL 32-42-59; WL 97-02-02
- (2) Bithlo (ORANGE), FL - NL 28-22-38; WL 81-04-56

Frequency Information

Grand Prairie (TARRANT), TX - NL 32-42-59; WL 97-02-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
500-608 MHz	FX	5M00W1N	4 W (ERP)	
614-758 MHz	FX	5M00W1N	4 W (ERP)	
775-788 MHz	FX	5M00W1N	4 W (ERP)	
824-851 MHz	FX	5M00W1N	4 W (ERP)	

This authorization effective November 25, 2020 and
will expire 3:00 A.M. EST December 01, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Grand Prairie (TARRANT), TX - NL 32-42-59; WL 97-02-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
869-975 MHz	FX	5M00W1N	4 W (ERP)	
1600-1660.5 MHz	FX	5M00W1N	4 W (ERP)	
1668.4-2200 MHz	FX	5M00W1N	4 W (ERP)	
2290-2300 MHz	FX	5M00W1N	4 W (ERP)	

Bithlo (ORANGE), FL - NL 28-22-38; WL 81-04-56

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
500-608 MHz	FX	5M00W1N	4 W (ERP)	
614-758 MHz	FX	5M00W1N	4 W (ERP)	
775-788 MHz	FX	5M00W1N	4 W (ERP)	
824-851 MHz	FX	5M00W1N	4 W (ERP)	
869-975 MHz	FX	5M00W1N	4 W (ERP)	

Frequency Information

Bithlo (ORANGE), FL - NL 28-22-38; WL 81-04-56

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1600-1660.5 MHz	FX	5M00W1N	4 W (ERP)	
1668.4-2300 MHz	FX	5M00W1N	4 W (ERP)	

Special Conditions:

- (1) Operation in the 1695-1780 MHz, 1915-1920 MHz, 1995-2020 MHz or 2110-2200 MHz band requires consent of local Advanced Wireless Service (AWS) licensee(s) to avoid interference.
- (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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (4) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (5) 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.
- (6) Prior to commencing any operations in the frequencies below, Lockheed Martin Corporation must obtain consent from the following within 50 miles of the contours of the testing area:
 - 700 MHz Lower Band licensees (698-746 MHz)
 - 700 MHz Upper Band licensees (746-758 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
 - 1670-1675 MHz Band licensee and lessee
 - Broadband PCS licensees (1850-1910 MHz/1930-1990 MHz)
 - 1910-1915 MHz/1990-1995 MHz Bands licensee

Special Conditions:

- (7) Prior to commencing any operations in the 1610 - 1618.725 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.
- (8) Prior to commencing any operations in the 1618.725- 1626.5 MHz frequency band, experimental licensee must notify licensee of Iridium Satellite LLC (Call sign E960622, POC/Satellite: S2110. Name: Ms. Maureen C. McLaughlin, Phone Number: 703-287-7518, E-Mail: maureen.mclaughlin@iridium.co). 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 1626.5 - 1645.5 MHz frequency band, experimental licensee must notify licensee of Honeywell International Inc. (Call sign E020074, POC/Satellite: All Inmarsat satellites on "ISAT List". Name: Donna Balaguer, Phone Number: 202-626-7719, E-Mail: balaguer@fr.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) Prior to commencing any operations in the 1626.5 - 1645.5 MHz and 1646.5 - 1660.5 MHz frequency bands, experimental licensee must notify licensee of ORBCOMM License Corp. (Call sign E100192, POC/Satellite: All Inmarsat satellites on "ISAT List". 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.
- (11) Prior to commencing any operations in the 1626.5 - 1645.5 MHz and 1646.5 - 1660.5 MHz frequency bands, experimental licensee must notify licensee of ViaSat, Inc. (Call sign E130033, POC/Satellite: S2358. Name: Mr Daryl T Hunter, Phone Number: 760-476-2583, E-Mail: daryl.hunter@viasat.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.

Special Conditions:

- (12) Prior to commencing any operations in the 1626.5 - 1660.5 MHz frequency band, experimental licensee must notify licensee of ISAT US Inc. and Inmarsat Solutions (US) Inc.. (Call sign E090032, POC/Satellite: All Inmarsat satellites on "ISAT List". Name: M. Ethan Lucarelli, Phone Number: (202) 696-1400, E-Mail: Ethan.Lucarelli@inmarsat.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 1626.5 - 1660.5 MHz frequency band, experimental licensee must notify space station licensees of Inmarsat plc (Name: Mr. Chris Murphy, Phone Number: 202-248-5158, E-Mail: chris.murphy@inmarsat.com) and Ligado Networks Subsidiary LLC (Name: Mr. Maqbool Aliani Phone Number: 703-390-2778, E-Mail: maqbool@ligado.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 2020 - 2025 MHz frequency band, experimental licensee must notify licensee of Spire Global, Inc. (Call sign E160041, POC/Satellite: S2946, S3045. 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 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.
- (16) Prior to commencing any operations in the 2010-2020 MHz and 2190-2200 MHz frequency bands, experimental licensee must notify licensee of New DBSD Satellite Services G.P., Debtor-in-Possession. (Call sign E070272, POC/Satellite: S2651. Name: Mr. Stephen M. DeWees, Phone Number: 703-964-1417, E-Mail: stephen.deweese@ico.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.
- (17) Coordinate with the Fixed Microwave Service licensees in each proposed area in accordance with 47 C.F.R, Part 101.103(d) prior to operation in 869-975 MHz band.

Special Conditions:

- (18) Secure consents from the Upper Microwave Flexible Use Service licensees in the proposed areas prior to accessing to the frequency range from 614 MHz to 698 MHz.
- (19) Operation for Grand Prairie, TX is not permitted in 1660.5-1668.4 MHz and 2200-2290 MHz.
Operation for Bithlo, FL is not permitted in 1660.5-1668.4 MHz.
- (20) The stop buzzer POC is Ryan Terry at (703) 413-5747.