

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

EXPERIMENTAL

(Nature of Service)

WE2XTJ

(Call Sign)

XC MO

(Class of Station)

0093-EX-ML-2014

(File Number)

NAME Mustang Technology Group, L.P.

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) MOBILE: Howe (COLLIN), TX, within 15 km, centered around NL 33-25-34; WL 96-34-26
- (2) MOBILE: Lucas (COLLIN), TX, within 12 km, centered around NL 33-05-37; WL 96-33-35
- (3) MOBILE: Roanoke (DENTON), TX, within 1 km, centered around NL 33-01-34; WL 97-14-27
- (4) MOBILE: Muenster, TX, within 15 km, centered around NL 33-46-02; WL 97-19-15
- (5) MOBILE: Greenville, TX, within 15 km, centered around NL 33-15-45; WL 96-02-32
- (6) MOBILE: Goleta, CA, within 5 km, centered around NL 34-43-40; WL 120-09-30
- (7) MOBILE: Warren, MI, within 1 km, centered around NL 42-29-47; WL 83-02-33
- (8) MOBILE: Socorro, NM, within 15 km, centered around NL 34-03-36; WL 106-58-30
- (9) MOBILE: 5 Km radius centered on Selfridge AFB, within 5 km, centered around NL 42-35-54; WL 82-50-39
- (10) MOBILE: 5 Km Radius of Grayson County Airport, within 5 km, centered around NL 33-43-34; WL 96-40-33
- (11) MOBILE: 15 Km Radius of Dorchester TX, within 15 km, centered around NL 33-31-14; WL 96-42-16
- (12) MOBILE: Mustang Technology Group Headquarters - 10 km Radius of operations, within 10 km, centered around NL 33-04-04; WL 96-41-09
- (13) MOBILE: 15 Km Radius of Rosser TX, within 15 km, centered around NL 32-23-31; WL 96-28-07
- (14) MOBILE: 15 Km Radius of Watt TX, within 15 km, centered around NL 31-39-16; WL 96-51-04

This authorization effective June 26, 2014 and
will expire 3:00 A.M. EST September 01, 2016

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Howe (COLLIN), TX, within 15 km, centered around NL 33-25-34; WL 96-34-26

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.5-5.55 GHz	MO	50M0P0N	20 W (ERP)	
5.6-5.638 GHz	MO	N0N	20 W (ERP)	
5.642-5.65 GHz	MO	N0N	20 W (ERP)	
5.7-5.8 GHz	MO	50M0P0N	20 W (ERP)	
5.85-5.9 GHz	MO	N0N	20 W (ERP)	
5.95-6 GHz	MO	50M0P0N	20 W (ERP)	

MOBILE: Lucas (COLLIN), TX, within 12 km, centered around NL 33-05-37; WL 96-33-35

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.5-5.55 GHz	MO	50M0P0N	20 W (ERP)	
5.6-5.606 GHz	MO	N0N	20 W (ERP)	
5.61-5.638 GHz	MO	N0N	20 W (ERP)	

Frequency Information

MOBILE: Lucas (COLLIN), TX, within 12 km, centered around NL 33-05-37; WL 96-33-35

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.642-5.65 GHz	MO	N0N	20 W (ERP)	
5.7-5.8 GHz	MO	50M0P0N	20 W (ERP)	
5.85-5.9 GHz	MO	N0N	20 W (ERP)	
5.95-6 GHz	MO	50M0P0N	20 W (ERP)	

MOBILE: Roanoke (DENTON), TX, within 1 km, centered around NL 33-01-34; WL 97-14-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.5-5.55 GHz	MO	50M0P0N	20 W (ERP)	
5.615-5.635 GHz	MO	N0N	20 W (ERP)	
5.7-5.8 GHz	MO	50M0P0N	20 W (ERP)	
5.85-5.9 GHz	MO	N0N	20 W (ERP)	
5.95-6 GHz	MO	50M0P0N	20 W (ERP)	

Frequency Information

MOBILE: Muenster, TX, within 15 km, centered around NL 33-46-02; WL 97-19-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.5-5.55 GHz	MO	50M0P0N	20 W (ERP)	
5.6-5.65 GHz	MO	N0N	20 W (ERP)	
5.7-5.8 GHz	MO	50M0P0N	20 W (ERP)	
5.85-5.9 GHz	MO	N0N	20 W (ERP)	
5.95-6 GHz	MO	50M0P0N	20 W (ERP)	

MOBILE: Greenville, TX, within 15 km, centered around NL 33-15-45; WL 96-02-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.5-5.55 GHz	MO	50M0P0N	20 W (ERP)	
5.6-5.65 GHz	MO	N0N	20 W (ERP)	
5.7-5.8 GHz	MO	50M0P0N	20 W (ERP)	
5.85-5.9 GHz	MO	N0N	20 W (ERP)	

Frequency Information

MOBILE: Greenville, TX, within 15 km, centered around NL 33-15-45; WL 96-02-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.95-6 GHz	MO	50M0P0N	20 W (ERP)	

MOBILE: Goleta, CA, within 5 km, centered around NL 34-43-40; WL 120-09-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.5-5.55 GHz	MO	50M0P0N	20 W (ERP)	
5.6-5.65 GHz	MO	N0N	20 W (ERP)	
5.7-5.8 GHz	MO	50M0P0N	20 W (ERP)	
5.85-5.9 GHz	MO	N0N	20 W (ERP)	

MOBILE: Warren, MI, within 1 km, centered around NL 42-29-47; WL 83-02-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.5-5.55 GHz	MO	50M0P0N	20 W (ERP)	
5.6-5.65 GHz	MO	N0N	20 W (ERP)	

Frequency Information

MOBILE: Warren, MI, within 1 km, centered around NL 42-29-47; WL 83-02-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.7-5.8 GHz	MO	50M0P0N	20 W (ERP)	
5.85-5.9 GHz	MO	N0N	20 W (ERP)	

MOBILE: Socorro, NM, within 15 km, centered around NL 34-03-36; WL 106-58-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.5-5.55 GHz	MO	50M0P0N	20 W (ERP)	
5.6-5.65 GHz	MO	N0N	20 W (ERP)	
5.7-5.8 GHz	MO	50M0P0N	20 W (ERP)	
5.85-5.9 GHz	MO	N0N	20 W (ERP)	

MOBILE: 5 Km radius centered on Selfridge AFB, within 5 km, centered around NL 42-35-54; WL 82-50-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.5-5.55 GHz	MO	50M0P0N	20 W (ERP)	

Frequency Information

MOBILE: 5 Km radius centered on Selfridge AFB, within 5 km, centered around NL 42-35-54; WL 82-50-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.6-5.65 GHz	MO	N0N	20 W (ERP)	
5.7-5.8 GHz	MO	50M0P0N	20 W (ERP)	
5.85-5.9 GHz	MO	N0N	20 W (ERP)	

MOBILE: 5 Km Radius of Grayson County Airport, within 5 km, centered around NL 33-43-34; WL 96-40-33

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.5-5.55 GHz	MO	50M0P0N	20 W (ERP)	
5.6-5.65 GHz	MO	N0N	20 W (ERP)	
5.7-5.8 GHz	MO	50M0P0N	20 W (ERP)	
5.85-5.9 GHz	MO	N0N	20 W (ERP)	

Frequency Information

MOBILE: 15 Km Radius of Dorchester TX, within 15 km, centered around NL 33-31-14; WL 96-42-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.5-5.55 GHz	MO	50M0P0N	20 W (ERP)	
5.6-5.65 GHz	MO	N0N	20 W (ERP)	
5.7-5.8 GHz	MO	50M0P0N	20 W (ERP)	
5.85-5.9 GHz	MO	N0N	20 W (ERP)	

MOBILE: Mustang Technology Group Headquarters - 10 km Radius of operations, within 10 km, centered around NL 33-04-04; WL 96-41-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.5-5.55 GHz	MO	50M0P0N	20 W (ERP)	
5.6-5.606 GHz	MO	N0N	20 W (ERP)	
5.61-5.638 GHz	MO	N0N	20 W (ERP)	
5.642-5.65 GHz	MO	N0N	20 W (ERP)	
5.7-5.8 GHz	MO	50M0P0N	20 W (ERP)	

Frequency Information

MOBILE: Mustang Technology Group Headquarters - 10 km Radius of operations, within 10 km, centered around NL 33-04-04; WL 96-41-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.85-5.9 GHz	MO	N0N	20 W (ERP)	
5.95-6 GHz	MO	50M0P0N	20 W (ERP)	

MOBILE: 15 Km Radius of Rosser TX, within 15 km, centered around NL 32-23-31; WL 96-28-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.5-5.55 GHz	MO	50M0P0N	20 W (ERP)	
5.6-5.65 GHz	MO	N0N	20 W (ERP)	
5.7-5.8 GHz	MO	50M0P0N	20 W (ERP)	
5.85-5.9 GHz	MO	N0N	20 W (ERP)	

MOBILE: 15 Km Radius of Watt TX, within 15 km, centered around NL 31-39-16; WL 96-51-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.5-5.55 GHz	MO	50M0P0N	20 W (ERP)	

Frequency Information

MOBILE: 15 Km Radius of Watt TX, within 15 km, centered around NL 31-39-16; WL 96-51-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.6-5.65 GHz	MO	N0N	20 W (ERP)	
5.7-5.8 GHz	MO	50M0P0N	20 W (ERP)	
5.85-5.9 GHz	MO	N0N	20 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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (4) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the US Army contract numbers: W911QX-05-D-0007, W15P7T-10-D-A804, W909MY-12-D-0007, and W56HZV-09-D-0150. 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.
- (5) All operations in Goleta, CA are subject to prior coordination with Western Area Frequency Coordinator (WFAC). Phone: (760) 939-6948.
- (6) The designated point-of-contact to terminate transmissions if interference occurs is Mr. David Tolman at (972) 396-4470.
- (7) No transmission permitted in 5.600-5.650 GHz band towards Dallas TX.