

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

EXPERIMENTAL

(Nature of Service)

WN9XAX

(Call Sign)

XT      FX MO

(Class of Station)

1226-EX-ST-2018

(File Number)

NAME Lockheed Martin Corporation

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:**

To operate a developmental system that Lockheed Martin is testing in connection with a Defense Advanced Research Projects Agency (DARPA) program. See attached explanation.

**Station Locations**

- (1) Goodyear (MARICOPA), AZ - NL 33-25-50; WL 112-21-55
- (2) Buckeye (MARICOPA), AZ; MOBILE: Buckeye, AZ. Flight altitude up to 18,000 ft

**Frequency Information**

Goodyear (MARICOPA), AZ - NL 33-25-50; WL 112-21-55

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 434.5 MHz | FX            | 1M00G1D<br>29M0G1D  | 1.25 kW (ERP)    | 0.0003 %                  |
| 3400 MHz  | FX            | 125MF1D<br>125MG1D  | 100 kW (ERP)     | 0.0003 %                  |

This authorization effective July 30, 2018 and  
will expire 3:00 A.M. EST January 31, 2019

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

Buckeye (MARICOPA), AZ; MOBILE: Buckeye, AZ. Flight altitude up to 18,000 ft

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 434.5 MHz | MO            | 1M00G1D<br>29M0G1D  | 110 W (ERP)      | 0.0003 %                  |
| 434.5 MHz | FX            | 1M00G1D<br>29M0G1D  | 1.25 kW (ERP)    | 0.0003 %                  |
| 3400 MHz  | MO            | 125MF1D<br>125MG1D  | 250 W (ERP)      | 0.0003 %                  |
| 3400 MHz  | FX            | 125MF1D<br>125MG1D  | 100 kW (ERP)     | 0.0003 %                  |

## 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.
- (3) Stop Buzzer: Ryan Terry, Phone: 703-413-5747, Email: ryan.n.terry@lmco.com
- (4) The authorized station must be in compliance with environmental requirement set forth in Section 1.1307 of the Commission's Rules.
- (5) Operation is not permitted in 410-420 MHz band.