

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

EXPERIMENTAL

(Nature of Service)

WS9XSB

(Call Sign)

XT FX MO

(Class of Station)

1334-EX-ST-2021

(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:

Applicant is developing new radar detection technology and requires brief transmissions from targeted frequencies to test performance and to refine capabilities.

Station Locations

- (1) Aztec (YUMA), AZ - NL 32-48-56; WL 113-31-39; MOBILE: Aztec, AZ, within 10 km, centered around NL 32-48-56; WL 113-31-39
- (2) Buckeye (MARICOPA), AZ - NL 33-27-01; WL 112-49-28; MOBILE: Buckeye, AZ, within 10 km, centered around NL 33-27-01; WL 112-49-28
- (3) Gila Bend (MARICOPA), AZ - NL 32-57-14; WL 112-40-29; MOBILE: Gila Bend, AZ, within 10 km, centered around NL 32-57-14; WL 112-40-29
- (4) Gila Bend (MARICOPA), AZ - NL 32-57-14; WL 112-40-29; MOBILE: Gila Bend, AZ, within 10 km, centered around NL 32-57-14; WL 112-40-29

Frequency Information

Aztec (YUMA), AZ - NL 32-48-56; WL 113-31-39; MOBILE: Aztec, AZ, within 10 km, centered around NL 32-48-56; WL 113-31

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3050 MHz	FX	60M0P0N	13.4 MW (ERP)	0.02 %

This authorization effective September 15, 2021 and
will expire 3:00 A.M. EST November 14, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Aztec (YUMA), AZ - NL 32-48-56; WL 113-31-39; MOBILE: Aztec, AZ, within 10 km, centered around NL 32-48-56; WL 113-31

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9410 MHz	MO	60M0P0N	1.0521 MW (ERP)	0.02 %

Buckeye (MARICOPA), AZ - NL 33-27-01; WL 112-49-28; MOBILE: Buckeye, AZ, within 10 km, centered around NL 33-27-01

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5330 MHz	MO	10M0P0N	15.9 kW (ERP)	0.02 %
5390 MHz	MO	10M0P0N	15.9 kW (ERP)	0.02 %
5450 MHz	MO	10M0P0N	15.9 kW (ERP)	0.02 %
5710 MHz	MO	10M0P0N	15.9 kW (ERP)	0.02 %
6000 MHz	MO	10M0P0N	15.9 kW (ERP)	0.02 %
6120 MHz	MO	10M0P0N	15.9 kW (ERP)	0.02 %

Frequency Information

Gila Bend (MARICOPA), AZ - NL 32-57-14; WL 112-40-29; MOBILE: Gila Bend, AZ, within 10 km, centered around NL 32-57-

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3050 MHz	FX	60M0P0N	13.4 MW (ERP)	0.02 %
9410 MHz	MO	60M0P0N	1.0521 MW (ERP)	0.02 %

Gila Bend (MARICOPA), AZ - NL 32-57-14; WL 112-40-29; MOBILE: Gila Bend, AZ, within 10 km, centered around NL 32-57-

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5330 MHz	MO	10M0P0N	15.9 kW (ERP)	0.02 %
5390 MHz	MO	10M0P0N	15.9 kW (ERP)	0.02 %
5450 MHz	MO	10M0P0N	15.9 kW (ERP)	0.02 %
5710 MHz	MO	10M0P0N	15.9 kW (ERP)	0.02 %
6000 MHz	MO	10M0P0N	15.9 kW (ERP)	0.02 %
6120 MHz	MO	10M0P0N	15.9 kW (ERP)	0.02 %

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.

Special Conditions:

- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) Coordinate with the Fixed Microwave Service licensees in the proposed venues in accordance with 47 C.F.R, Part 101.103(d) prior to accessing to 6000 MHz and 6120 MHz.
- (4) Lockheed Martin Corporation may not operate on 5895 MHz since this falls within the Transportation Safety band.
- (5) Lockheed Martin Corporation may not operate on 4230 MHz and 4290 MHz since they are in the radio altimeter band and this function does not appear to have any relationship to radio altimeters.
- (6) Lockheed Martin Corporation must contact YPG SMO (928-328-7144) prior to starting daily operations and upon securing daily operations (if no answer, leave voicemail) - this is not for permission, only so we know when they are operational and when they are not.
- (7) For the 5330/5390/5450 MHz frequencies, Lockheed Martin must not perform the testing operations in Arizona during times when the JASON-3 (TLE: 41240) or JASON-CS/Sentinel-6 (TLE: 46984) satellites are within radio line-of-sight of the testing locations.
- (8) The designated point-of-contact to terminate transmissions if interference occurs is Scott Faulkner at (407) 627-6742 or (407) 803-2064.