

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

EXPERIMENTAL

(Nature of Service)

WH9XNQ

(Call Sign)

XT MO

(Class of Station)

0893-EX-ST-2014

(File Number)

NAME The Boeing Company

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 support EMC/SOFT testing.

Station Locations

- (1) MOBILE: Temporary Fixed, Edwards AFB, CA, within 2 km, centered around NL 34-54-20; WL 117-53-01
- (2) MOBILE: Temporary fixed, Palmdale, CA, within 2 km, centered around NL 34-38-17; WL 118-05-46

Frequency Information

MOBILE: Temporary Fixed, Edwards AFB, CA, within 2 km, centered around NL 34-54-20; WL 117-53-01

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1030 MHz	MO	12M0V1D	1 mW (ERP)	0.001 %
1090 MHz	MO	7M30M1D	600 W (ERP)	0.001 %

This authorization effective December 04, 2014 and
will expire 3:00 A.M. EST March 13, 2015

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Temporary fixed, Palmdale, CA, within 2 km, centered around NL 34-38-17; WL 118-05-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1030 MHz	MO	12M0V1D	1 mW (ERP)	0.001 %
1090 MHz	MO	7M30M1D	600 W (ERP)	0.001 %

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) Test only within free space for no more than five pre-coordinated, scheduled events that shall not extend indefinitely into the future.
- (4) The pulse repetition rate (PRR) of the 1030 MHz APM-480 radar beacon test set will be 235 pulses per second (pps) +/- 5pps.
- (5) Aircraft altimeter may not report altitude above sea level during any free space emission testing. If testing is conducted with the aircraft altimeter set above sea level then the unit must be operated under a hood with a dummy load, or directly connected with a cable to the aircraft receiver in order to prevent free space emissions.
- (6) Only Civil Modes, 3A, C, may be tested. No other modes are not authorized including Mode S.
- (7) Test set interrogations of transponder under test shall not exceed 15 second duration during any single test sequence and the test set interrogations must cease for a minimum of 1 minute between test events/sequences.
- (8) All testing shall be conducted off-peak hours between midnight to 4 AM.
- (9) Airplane altitude must be maintained at ground level throughout test event to prevent introduction of false mode C in the NAS.
- (10) Valid mode A code must be obtained from local ATRCC.
- (11) Each test event must be pre-coordinated with local LA ATRCC, Edwards AFB range control, and Palmdale tower.
- (12) Valid mode S code shall be obtained from either Saudi Government or other authorized agency.
- (13) Stop buzzer P.O.C. shall also be listed on license (Craig Hadlock 661-265-3330, Tom Rogers 314-705-2637 as noted) with confirmation of name and cell number provided to local ARTCC (OMIC 661-265-8205) on a daily basis just prior to each test event and at test cessation.

Special Conditions:

- (14) Local spectrum engineering shall be notified at the test event window beginning confirming cease buzzer and end.
- (15) This license only supports EMI/EMC compatibility testing of the F-15 Saudi program. No other testing may be conducted under this license.
- (16) Testing shall be limited to a small number of test events (4 – 5) within the next 6 - 9 month test window. Each test event is expected to cover a 2 week period with 3 - 5 test days each. Each test event as well as specific transponder test dates shall be pre-coordinated in accordance with condition 5 above.
- (17) The transponder testing shall be limited to the minimum number of 15 second transmissions necessary to complete the EMI/EMC testing.
- (18) Boeing must coordinate any testing with the Edwards Spectrum Management Office at email: 412cs.spectrum.management@edwards.af.mil; Commercial: (661) 277-4763 and with the Western Area Frequency Coordinator (WAFC), Mr. Andrew Foltz at (760) 939-9845 or Jaime Heaton at (760) 939-6832 prior to any California operations to mitigate harmful interference to Navy and Marine Corps assignments. The Boeing Company must also comply with any and all restrictions that may be levied by WAFC.