

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

EXPERIMENTAL

(Nature of Service)

XC MO

(Class of Station)

WJ9XYX

(Call Sign)

0652-EX-ST-2016

(File Number)

NAME Northrop Grumman Systems 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:

The purpose is to experiment with integrating off-the-shelf ADS-B equipment into a Northrop Grumman Litening Pod as a near-term solution to meeting FAA mandate.

Station Locations

- (1) MOBILE: Nellis AFB, NV: max altitude 45,000 ft MSL, within 186 km, centered around NL 36-14-38; WL 115-03-15
- (2) MOBILE: Tucson, AZ: max altitude 45,000 ft MSL, within 186 km, centered around NL 32-09-48; WL 110-51-52

Frequency Information

MOBILE: Nellis AFB, NV: max altitude 45,000 ft MSL, within 186 km, centered around NL 36-14-38; WL 115-03-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
978 MHz	MO	1M70F1D	40 W (Output Power)	
1090 MHz	MO	14M0M1D	250 W (Output Power)	

This authorization effective June 07, 2016 and
will expire 3:00 A.M. EST December 01, 2016

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Tucson, AZ: max altitude 45,000 ft MSL, within 186 km, centered around NL 32-09-48; WL 110-51-52

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
978 MHz	MO	1M70F1D	40 W (Output Power)	
1090 MHz	MO	14M0M1D	250 W (Output Power)	

Special Conditions:

- (1) The ADS-B pod, Free-Flight Ranger, must comply TSO (Technical Standard Order) for the both 1090 and 978 MHz. The rule specifies ADS-B equipment compliant with TSO-C166b(1090ES) and TSO-C154c (Universal Access Transceiver, 978MHz). You would need the equipment with TSO certified device.
- (2) Only Channel 32 may be used with a maximum altitude of 24000 MSL.
- (3) Submit a pre-coordination request for NG T #. Contact Thomas Ahn for this coordination (202) 267-4909.