

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

EXPERIMENTAL

(Nature of Service)

WF9XSG

(Call Sign)

XD MO

(Class of Station)

0413-EX-ST-2012

(File Number)

NAME Raytheon 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:**

In-flight downlink performance and maximum range of the video data link will be characterized.  
The system consists of an aircraft mounted omni-directional antenna transmitting an EIRP of 48.7

**Station Locations**

- (1) MOBILE: between Shafter and Modesto, CA, within 277.8 km, centered around NL 35-30-21; WL 119-11-29

**Frequency Information**

MOBILE: between Shafter and Modesto, CA, within 277.8 km, centered around NL 35-30-21; WL 119-11-29

| Frequency | Station Class | Emission Designator | Authorized Power    | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|---------------------|---------------------------|
| 4634 MHz  | MO            | 8M00D7W             | 75 W (Output Power) |                           |

This authorization effective June 07, 2012 and  
will expire 3:00 A.M. EST June 23, 2012

**FEDERAL  
COMMUNICATIONS  
COMMISSION**

