

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

EXPERIMENTAL

(Nature of Service)

WD9XQT

(Call Sign)

XD MO

(Class of Station)

0200-EX-ST-2009

(File Number)

NAME Panasonic Avionics 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:**

Testing and demonstrating Aura LE Ku-band transceiver terminals for purposes associated with the planned eXConnect Ku-band aeronautical mobile-satellite service (AMSS) system.

**Station Locations**

- (1) MOBILE: 100 mile radius from test site in Lake Forest, California, within 160 km, centered around NL 33-39-55; WL 117-40-20
- (2) MOBILE: 100 mile radius from test site in Bothell, Washington, within 160 km, centered around NL 47-47-40; WL 122-11-46
- (3) MOBILE: 100 mile radius from test site in Herndon, Virginia, within 160 km, centered around NL 38-57-08; WL 77-25-04
- (4) MOBILE: 100 mile radius from test site in Mountainside, Maryland, within 160 km, centered around NL 39-36-06; WL 77-45-46
- (5) MOBILE: 100 mile radius from test site in Washington, DC, within 160 km, centered around NL 38-56-32; WL 77-03-56
- (6) MOBILE: 100 mile radius from test site in Norcross, Georgia, within 160 km, centered around NL 33-58-01; WL 84-13-45
- (7) MOBILE: 100 mile radius from test site in Miramar, Florida, within 160 km, centered around NL 25-58-51; WL 80-16-53

This authorization effective June 01, 2009 and  
will expire 3:00 A.M. EST December 01, 2009

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

MOBILE: 100 mile radius from test site in Lake Forest, California, within 160 km, centered around NL 33-39-55; WL 117-40-20

| Frequency       | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 14000-14470 MHz | MO            | 2M56G7D             | 38.5 kW (ERP)    |                           |

MOBILE: 100 mile radius from test site in Bothell, Washington, within 160 km, centered around NL 47-47-40; WL 122-11-46

| Frequency       | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 14000-14470 MHz | MO            | 2M56G7D             | 38.5 kW (ERP)    |                           |

MOBILE: 100 mile radius from test site in Herndon, Virginia, within 160 km, centered around NL 38-57-08; WL 77-25-04

| Frequency       | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 14000-14470 MHz | MO            | 2M56G7D             | 38.5 kW (ERP)    |                           |

MOBILE: 100 mile radius from test site in Mountainside, Maryland, within 160 km, centered around NL 39-36-06; WL 77-45-46

| Frequency       | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 14000-14470 MHz | MO            | 2M56G7D             | 38.5 kW (ERP)    |                           |

## Frequency Information

MOBILE: 100 mile radius from test site in Washington, DC, within 160 km, centered around NL 38-56-32; WL 77-03-56

| Frequency       | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 14000-14402 MHz | MO            | 2M56G7D             | 38.5 kW (ERP)    |                           |
| 14422-14470 MHz | MO            | 2M56G7D             | 38.5 kW (ERP)    |                           |

MOBILE: 100 mile radius from test site in Norcross, Georgia, within 160 km, centered around NL 33-58-01; WL 84-13-45

| Frequency       | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 14000-14470 MHz | MO            | 2M56G7D             | 38.5 kW (ERP)    |                           |

MOBILE: 100 mile radius from test site in Miramar, Florida, within 160 km, centered around NL 25-58-51; WL 80-16-53

| Frequency       | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 14000-14470 MHz | MO            | 2M56G7D             | 38.5 kW (ERP)    |                           |

## 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) The frequency band 14.47 GHz to 14.5 GHz shall be notched to protect Radio Astronomy Operations.
- (3) The frequency 14412 MHz +/- 10 MHz shall be protected in the Washington, DC metropolitan area.