

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

EXPERIMENTAL

(Nature of Service)

WD9XQT

(Call Sign)

XD MO

(Class of Station)

0339-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 and MELCO Ku-band transceiver terminals for purposes associated with the planned eXConnect Ku-band Aeronautical Mobile-Satellite Service (AMSS)

Station Locations

(1) MOBILE: CONUS

Frequency Information

MOBILE: CONUS

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14000-14470 MHz	MO	160KG7D 5M12G7D 2M56G7D	38.5 kW (ERP)	

Special Conditions:

- (1) Licensee shall restrict operations from operating below 14050 MHz in the area of White Sands Missile Range, NM, (410 KM surrounding 323240N 1063648W)

This authorization effective January 07, 2010 and
will expire 3:00 A.M. EST July 07, 2010

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (2) Panasonic Avionics Corporation's operations under this grant of experimental special temporary authority are limited to communications with the following satellites, for which operators of Ku-band satellites within six longitudinal degrees of the target satellite have declared that they have no objection to the requested experimental operations: Horizons-1 at 127° West Longitude (W.L.); Galaxy 17 at 91° W.L.; and Galaxy 19 at 97° W.L.
- (3) Panasonic Avionics Corporation's testing of the Mitsubishi Electronics Company (MELCO) reflector under this grant of experimental special temporary authority is authorized using a maximum input power density at the antenna waveguide flange of -21.6 dBW/4 kHz employing BPSK modulation. Testing of the EMS Technologies Aura LE antenna is authorized using a maximum input power density at the antenna waveguide flange of -15.1 dBW/4 kHz employing BPSK modulation.
- (4) Aircraft earth stations shall not be operated while aircraft are on the ground unless appropriate safety protocols are in place to ensure that persons having access to areas within 19.5 meters of the MELCO reflector, and access to areas within 22.0 meters of the EMS Aura LE antenna, are not exposed to radiofrequency energy in excess of the maximum permissible limits specified in 47 C.F.R. Section 1.1310. The exterior surface of the aircraft earth station antenna shall be prominently marked with a warning of the potential for exposure to high levels of radiofrequency energy.