

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

WF2XRS

(Call Sign)

XD MO

(Class of Station)

0043-EX-PL-2011

(File Number)

NAME WCA Holdings III, LLC

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(i) of the Commission's Rules

Station Locations

(1) MOBILE: CONUS

Frequency Information

MOBILE: CONUS

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.47 GHz	MO	2M56G7D 160KG7D 5M12G7D	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 station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) POINTS OF COMMUNICATION: Horizons 1, Galaxy 17, and Telstar 14

This authorization effective April 14, 2011 and
will expire 3:00 A.M. EST April 14, 2013

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (4) WCA agrees to the following conditions to ensure that its single Ku-band aircraft earth station ("AES") terminal installed on a WCA-owned aircraft:
- (i) WCA will not operate the AES terminal while on the ground within 125 km of the two TDRSS earth stations at Whites Sands, New Mexico (32.5430N, 106.6121W and 32.5008N, 106.6086W) or the TDRSS Guam site (13.5881N, 144.8410E); and
 - (ii) WCA will not operate the AES terminal while airborne within radio line-of-sight ("RLOS") distance of the above sites, as calculated in accordance with the following formulas: $RLOS (km) = 1.609 \times (\text{Sq Root } (2 \times \text{aircraft altitude } (h) \text{ in feet})) + 15$, and $RLOS (miles) = \text{Sq Root } (2 \times h) + 9$.