

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

EXPERIMENTAL

(Nature of Service)

WE2XLJ

(Call Sign)

XD MO

(Class of Station)

0253-EX-RR-2011

(File Number)

NAME ThinKom Solutions Inc.

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(f & g) of the Commission's Rules

Station Locations

- (1) MOBILE: CONUS, except within 125 km of White Sands, NM
- (2) MOBILE: CONUS, except within 125 km of White Sands, NM
- (3) MOBILE: CONUS, except within 125 km of White Sands, NM
- (4) MOBILE: CONUS, except within 125 km of White Sands, NM

Frequency Information

MOBILE: CONUS, except within 125 km of White Sands, NM

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	MO	4M10G7D	6.309 kW (ERP)	
14-14.5 GHz	MO	1M02G7D	8.912 kW (ERP)	

This authorization effective August 07, 2011 and
will expire 3:00 A.M. EST August 07, 2013

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: CONUS, except within 125 km of White Sands, NM

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	MO	7M14G7W 11M3G7W 31M9G7W 4M29G7W 4M29G7W 2K60G7W 2M60G7W	77 kW (ERP)	

MOBILE: CONUS, except within 125 km of White Sands, NM

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.5 GHz	MO	1M02G7D	8.912 kW (ERP)	
14-14.5 GHz	MO	4M10G7D	6.309 kW (ERP)	

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Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.

Special Conditions:

- (2) POINTS OF COMMUNICATION: AMC6, Galaxy 18, Galaxy 25, Galaxy 27, Galaxy 28, Horizons 1, and Horizons 2.
- (3) In accordance with Article 4.4 of the ITU Radio Regulations, the operations authorized herein shall not cause harmful interference to, and shall not claim protection from harmful interference caused by, a station operating in accordance with the provisions of the ITU Constitution, the ITU Convention, and the ITU Radio Regulations.
- (4) Prior to commencement of operation with any satellite listed as a point of communication pursuant to this license, ThinKom Solutions Inc. shall obtain certifications from the owners of the satellites used as points of communication that the respective owners have notified all satellite operators with co-frequency operations within 6 degrees longitude of the respective satellites used as points of communication, generally describing the experimental operations authorized herein, including the term thereof, and providing a point of contact for the purpose of resolving any complaints of interference. ThinKom Solutions Inc. will submit a copy of the certification(s) to the Commission for incorporation into the record of this file.
- (5) Licensee shall maintain a pointing error of less than 0.2° , between the orbital location of the target satellite and the axis of the main lobe of the earth station antenna. All emissions from the earth station shall automatically cease within 100 milliseconds if the angle between the orbital location of the target satellite and the axis of the main lobe of the earth station antenna exceeds 0.5° , and transmission will not resume until such angle is less than 0.2° .
- (6) Licensee shall comply with the EIRP density criteria set forth in Part 25.222(a)(1) through (a)(4) of the FCC's rules.
- (7) There shall be a point of contact in the United States, with phone number and address included with the application, available 24 hours a day, seven days a week, with authority and ability to cease all emissions from the earth stations, either directly or through the facilities of a U.S. Hub or a Hub located in another country with which the U.S. has a bilateral agreement that enables such cessation of emissions. The designated points of contact are Mr. Greg Otto (Primary) at (310) 989-9117 and Mr. Jorge Raphael (Secondary) at (310) 699.2176.
- (8) In accordance with 47CFR25.222(d), licensee must cease operations within 125 km of the new Blossom Point, MD, TDRSS facilities, whose coordinates are $38^{\circ}25'44''\text{N}$, $77^{\circ}05'20''\text{W}$, when those facilities become operational, unless and until licensee reaches an agreement with NASA permitting such operations.