



**UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
RADIO STATION AUTHORIZATION**

Name: Deere & Company

Call Sign: E130083

Authorization Type: Modification of License

File Number: SES-MOD-20160602-00481

Non Common Carrier

Grant date: 07/25/2016

Expiration Date: 02/09/2031

Nature of Service: Mobile Satellite Service

Class of Station: Mobile Earth Station

A) Site Location(s)

#	Site ID	Address	Latitude	Longitude	Elevation (Meters)	Special Provisions NAD (Refer to Section H)
1)	1	20780 Madrona Ave. 700,000 RECEIVE ONLY MOBILE TERMINAL,	0°0'0.0"N	0°0'0.0"W	0	83

Subject to the provisions of the Communications Act of 1934, The Communications Satellite Act of 1962, subsequent acts and treaties, and all present and future regulations made by this Commission, and further subject to the conditions and requirements set forth in this license, the grantee is authorized to construct, use and operate the radio facilities described below for radio communications for the term beginning February 9, 2016 (3 AM Eastern Standard Time) and ending February 9, 2031 (3 AM Eastern Standard Time). The required date of completion of construction and commencement of operation is July 25, 2017 (3 AM Eastern Standard Time). Grantee must file with the Commission a certification upon completion of construction and commencement of operation.

B) Particulars of Operations

The General Provision 1010 applies to all receiving frequency bands.
The General Provision 1900 applies to all transmitting frequency bands.
For the text of these provisions, refer to Section H.



#	Frequency (MHz)	Polarization Code	Emission	Tx/Rx Mode	Max EIRP /Carrier (dBW)	Max EIRP Density /Carrier (dBW/4kHz)	Associated Antenna	Special Provisions (Refer to Section H)	Modulation/ Services
1)	1545.9875-1545.9875	R	2K50D1D	Rx	0.00	0.00	Antenna 1		BPSK / multi-point leased data downlink services
2)	1545.9775-1545.9775	R	2K50D1D	Rx	0.00	0.00	Antenna 1		BPSK / multi-point leased data downlink services
3)	1545.9675-1545.9675	R	2K50D1D	Rx			Antenna 1		BPSK / multi-point leased data downlink services
4)	1545.9875-1545.9875	R	2K50D1D	Rx	0.00	0.00	Antenna 2		BPSK / multi-point leased data downlink services
5)	1545.9775-1545.9775	R	2K50D1D	Rx	0.00	0.00	Antenna 2		BPSK / multi-point leased data downlink services
6)	1545.9675-1545.9675	R	2K50D1D	Rx			Antenna 2		BPSK / multi-point leased data downlink services
7)	1545.9875-1545.9875	R	2K50D1D	Rx	0.00	0.00	Antenna 3		BPSK / multi-point leased data downlink services



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8)	1545.9775-1545.9775	R	2K50D1D	Rx	0.00	0.00	Antenna 3		BPSK / multi-point leased data downlink services
9)	1545.9675-1545.9675	R	2K50D1D	Rx			Antenna 3		BPSK / multi-point leased data downlink services
10)	1545.9875-1545.9875	R	2K50D1D	Rx			Antenna 4		BPSK / multi-point leased data downlink services
11)	1545.9775-1545.9775	R	2K50D1D	Rx			Antenna 4		BPSK / multi-point leased data downlink services
12)	1545.9675-1545.9675	R	2K50D1D	Rx			Antenna 4		BPSK / multi-point leased data downlink services
13)	1545.9875-1545.9875	R	2K50D1D	Rx			Antenna 5		BPSK / multi-point leased data downlink services
14)	1545.9775-1545.9775	R	2K50D1D	Rx			Antenna 5		BPSK / multi-point leased data downlink services
15)	1545.9675-1545.9675	R	2K50D1D	Rx			Antenna 5		BPSK / multi-point leased data downlink services

C) Frequency Coordination Limits

#	Frequency Limits (MHz)	Satellite Arc (Deg. Long.)		Elevation (Degrees)		Azimuth (Degrees)		Max EIRP Density toward Horizon (dBW/4kHz)	Associated Antenna(s)
		East Limit	West Limit	East Limit	West Limit	East Limit	West Limit		
1)	1545.9700-1545.9900	15.5W	-178.0E	00.0	-00.0	000.0	-000.0	0	Antenna 1
2)	1545.9700-1545.9900	15.5W	-178.0E	00.0	-00.0	000.0	-000.0	0	Antenna 2
3)	1545.9700-1545.9900	15.5W	-178.0E	00.0	-00.0	000.0	-000.0	0	Antenna 3
4)	1545.9700-1545.9900	54.0W	-178.0E	00.0	-00.0	000.0	-000.0	0	Antenna 4
5)	1545.9700-1545.9900	54.0W	-178.0E	00.0	-00.0	000.0	-000.0	0	Antenna 5

D) Points of Communications

The following stations located in the Satellite orbits consistent with Sections B and C of this Entry:

- 1) 1 to INMARSAT 4F3 satellite(s) @ 98 degrees W.L. (United Kingdom-licensed)
- 2) 1 to INMARSAT 3F4 satellite (S2783) @ 54 W.L. (United Kingdom-licensed)
- 3) 1 to All Inmarsat satellites on "ISAT List" authorized to access U.S. in the L-Band



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D) Points of Communications

The following stations located in the Satellite orbits consistent with Sections B and C of this Entry:

- 4) 1 to INMARSAT 3F2 satellite @15.5 degrees W.L. (United Kingdom-licensed)
- 5) 1 to INMARSAT 3F3 satellite @178.0 degrees W.L. (United Kingdom-licensed)
- 6) 1 to INMARSAT 4F1 satellite(s) @ 143.5 degrees E.L. (United Kingdom-licensed)

E) Antenna Facilities

Site ID	Antenna ID	Units	Diameter (meters)	Manufacturer	Model number	Site Elevation (Meters)	Max Antenna Height (Meters)	Special Provisions (Refer to Section H)
1	Antenna 1	500000	0.2	Deere & Company	SF3000	0	0 AGL/ 0 AMSL	
	Max Gains(s):		2.0 dBi @	1.5000 GHz				
	Maximum total input power at antenna flange (Watts) =					.00		
	Maximum aggregate output EIRP for all carriers (dBW) =					.00		
1	Antenna 2	100000	0.2	Deere & Company	SF3040	0	0 AGL/ 0 AMSL	
	Max Gains(s):		2.0 dBi @	1.5000 GHz				
	Maximum total input power at antenna flange (Watts) =					.00		
	Maximum aggregate output EIRP for all carriers (dBW) =					.00		
1	Antenna 3	100000	0.2	Deere & Company	SF3050	0	0 AGL/ 0 AMSL	
	Max Gains(s):		2.0 dBi @	1.5000 GHz				
	Maximum total input power at antenna flange (Watts) =					.00		
	Maximum aggregate output EIRP for all carriers (dBW) =					.00		
1	Antenna 4	600000	0.18	Deere & Company	SF6000	0		
	Max Gains(s):		4.0 dBi @	1.5000 GHz				
	Maximum total input power at antenna flange (Watts) =							
	Maximum aggregate output EIRP for all carriers (dBW) =							
1	Antenna 5	100000	0.18	Deere & Company	SF5050	0		
	Max Gains(s):		4.0 dBi @	1.5000 GHz				
	Maximum total input power at antenna flange (Watts) =							
	Maximum aggregate output EIRP for all carriers (dBW) =							



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B) This RADIO STATION AUTHORIZATION is granted subject to the additional conditions specified below:

This authorization is issued on the grantee's representation that the statements contained in the application are true and that the undertakings described will be carried out in good faith.

This authorization shall not be construed in any manner as a finding by the Commission on the question of marking or lighting of the antenna system should future conditions require. The grantee expressly agrees to install such marking or lighting as the Commission may require under the provisions of Section 303(q) of the Communications Act. 47 U.S.C. § 303(q).

Neither this authorization nor the right granted by this authorization shall be assigned or otherwise transferred to any person, firm, company or corporation without the written consent of the Commission. This authorization is subject to the right of use or control by the government of the United States conferred by Section 706 of the Communications Act. 47 U.S.C. § 706. Operation of this station is governed by Part 25 of the Commission's Rules. 47 C.F.R. Part 25.

This authorization shall not vest in the licensee any right to operate this station nor any right in the use of the designated frequencies beyond the term of this license, nor in any other manner than authorized herein.

This authorization is issued on the grantee's representation that the station is in compliance with environmental requirements set forth in Section 1.1307 of the Commission's Rules. 47 C.F.R. § 1.1307.

This authorization is issued on the grantee's representation that the station is in compliance with the Federal Aviation Administration (FAA) requirements as set forth in Section 17.4 of the Commission's Rules. 47 C.F.R. § 17.4.

The following condition applies when this authorization permits construction of or modifies the construction permit of a radio station.

This authorization shall be automatically forfeited if the station is not ready for operation by the required date of completion of construction unless an application for modification of authorization to request additional time to complete construction is filed by that date, together with a showing that failure to complete construction by the required date was due to factors not under control of the grantee.

Licensees are required to pay annual regulatory fees related to this authorization. The requirement to collect annual regulatory fees from regulatees is contained in Public Law 103-66, "The Omnibus Budget Reconciliation Act of 1993." These regulatory fees, which are likely to change each fiscal year, are used to offset costs associated with the Commission's enforcement, public service, international and policy and rulemaking activities. The Commission issues a Report and Order each year, setting the new regulatory fee rates. Receive only earth stations are exempt from payment of regulatory fees.

