

**EXHIBIT**

**1.0 - Description of Application**

Deere & Company, (“Deere”), by way of the underlying modification application submitted by its attorneys, seeks Commission authority to operate an additional 700,000 receive-only Mobile Earth Stations (“METs”) downlinking L-band signals from Inmarsat geostationary spacecraft.

The proposed service has no transmission component. Uplink service to the above-referenced Inmarsat spacecraft is provided from gateway earth stations operated by third party teleports.

**2.0 - Authority Requested for SF6000 and SF5050 Receivers**

Deere seeks authority to add 600,000 receive-only StarFire SF6000 and 100,000 receive-only SF5050 METs terminals to Call Sign E130083. The SF6000 and derivative SF5050 high-precision navigational receivers enjoy the following characteristics.

<b>SF6000 &amp; SF5050 Technical Characteristics</b>	
Antenna Gain (@ 1.5 GHz)	4.0 dBi
Antenna Size	0.18 Meters
L-band Antenna Polarization	Right-Hand Circular

**3.0 - Receive-Only Downlink Signal Characteristics**

*This application seeks no modification to already authorized space-to-earth frequencies are requested.* All downlink frequencies carry forward unchanged from SES-MOD-20160227-00183. Specifically:

<b>Satellite Identifier</b>	<b>Geostationary Arc Position</b>	<b>Emission Designator</b>	<b>Center Frequency (MHz)</b>	<b>Granted Authority to Serve the United States</b>
Inmarsat 3F4	54 west longitude	2K50D1D	1545.9775	SAT-PPL-20090107-00003; SATAPL- 20090115-00005 (granted April 10, 2009)
Inmarsat 3F2	15.5 west longitude	2K50D1D	1545.9875	DA 08-2323, 23 FCC Rcd 15268 (Int’l Bur. rel. Oct. 21, 2008)
Inmarsat 3F3	178 east longitude	2K50D1D	1545.9875	DA 08-2323, 23 FCC Rcd 15268 (Int’l Bur. rel. Oct. 21, 2008)
Inmarsat 4F1	143.5 east longitude	2K50D1D	1545.9775	Public Notice, Report No. SES-01097 (Int’l Bur. rel. Dec. 24, 2008)
Inmarsat 4F3	98 west longitude	2K50D1D	1545.9675	SAT-PPL-20141003-00106

Satellite Identifier	Geostationary Arc Position	Emission Designator	Center Frequency (MHz)	Granted Authority to Serve the United States
				(granted Jan. 8, 2015)

**4.0 - Response to Questions 42a**

The mobile earth station terminals that are the subject of this application will communicate with Inmarsat spacecraft on the ISAT list. These satellites are operated by Inmarsat and utilize the United Kingdom as their filing and coordinating administration. The Commission has authorized earth stations licensed in the United States with the “ISAT” designation to communicate with the satellites on the ISAT list. *See Inmarsat, Inc.*, DA 08-2323 (rel. Oct. 21, 2008). The Commission has already previously authorized communications with the ISAT satellites by the licensee, Deere & Company. *See SES-MOD-20160227-00183*. This application does not affect the justification underlying the Commission’s prior approval of Deere’s ISAT satellite use. *See generally id.*