Approved by OMB 3060-0678

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATIONEnter a description of this application to identify it on the main menu: Request for Special Temporary Authority (E130083)

1. Applicant

Name:

Deere & Company

Phone Number:

310-381-2000

DBA Name:

Fax Number:

310-381-2001

Street:

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E-Mail:

lewellenmarkn@johndeere.com

City:

Torrance

State:

CA

Country:

USA

Zipcode:

90503

-3777

Attention:

Mr. Mark Lewellen

60 days

GRANTED International Bureau

(or other identifier)

Special Temporary Authority Deere & Company Call Sign E130083 File Number SES-STA-20160317-00262

Deere & Company is granted Special Temporary Authority (STA) for a period of 60 days, commencing April 15, 2016, operating receive-only, non-common carrier, mobile earth stations to communicate with the satellites listed in the existing license. The STA operations must comply with all operational parameters specified in its current authorization with additional carrier frequency at 1545.9675 MHz. The STA operation subjects to the following conditions.

- All antennas must operate with authorized emission limits in current authorizations
- Operations shall not cause harmful interference to, and shall not claim
 protection from, interference caused to it by any other lawfully operating
 station and it shall cease transmission(s) immediately upon notice of such
 interference.
- Grant of this STA is without prejudice to any determination that the Commission may make regarding other pending or future applications.
- Grant of this STA does not constitute market access for any other U.S. earth station.
- If the underlying application is dismissed or denied this authorization becomes invalid and operations must cease immediately.
- Any action taken or expense incurred as a result of operations pursuant to this STA is solely at the applicant's risk.
- This action is issued pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. §0.261, and is effective immediately.



Deere & Company
Receive-Only Mobile Earth Station Application for STA
Exhibit A

above, grant of authority is requested on or before close of business on March 22, 2016 so that Deere can continue to provide service to customers without any loss of service.

EXHIBIT A – REASON FOR SPECIAL TEMPORARY AUTHORITY

Deere & Company ("Deere"), pursuant to Section 25.120(b)(3) of the Commission's Rules, 47 C.F.R. § 25.120(b)(3), hereby requests special temporary authority ("STA") for a period of 60 days to operate receive-only, non-common carrier, mobile earth stations operating in the L-band at center frequency 1545.9675 MHz to downlink transmissions from an Inmarsat geostationary satellite at 98° west longitude (Satellite Identifier: Inmarsat 4F3), in conjunction with downlinks from other Inmarsat geostationary satellites (collectively "Inmarsat Satellites") already authorized. Deere requests the instant authority to begin no later than March 22, 2016. Specifically, Deere requests STA for its existing network of mobile earth terminals ("METs") operating under Call Sign E130083 to receive 2.5 kHz space-to-earth emissions (designator 2K50D1D) from the Inmarsat Satellites at the above-referenced center frequency.²

Since 2001, Deere has been enabling domestic agricultural equipment with its StarFire precision farming system. The StarFire system employs receive-only vehicle mounted mobile earth stations. These earth stations receive L-band space-to-earth emissions from Inmarsat geostationary satellites that provide correctional data. This data augments the navigational information the StarFire terminals receive simultaneously from Global Positioning System ("GPS") satellites. This augmented system enables the operators of domestic farming equipment to pinpoint their location to within +/- 2.5 centimeters.³ This precise positioning capability developed originally to assist farmers in comparing the crop yields from various fields to determine, among other things, the amount of fertilizer and seed appropriate for a particular field and crop, has now found additional important uses to improve farming efficiency, including enabling farmers to manually record observations such as weed patches, crop appearance, and other field variables with remarkable precision. In addition, among other benefits, when coupled to the vehicle steering system through the Deere AutoTrack system it aids the operator to steer a more precise path when making repeated passes over the same track, thus greatly reducing crop and soil damage.

Grant of STA will serve the public interest by ensuring continuity of service for existing Deere StarFire customers during the pendency of Deere's permanent application to modify Call Sign E130083 to receive the above-referenced frequencies. Pursuant to Section 25.120(b)(3) of the rules, Deere requests a 60-day STA without the need for prior public notice. As discussed

All involved Inmarsat spacecraft have been approved to serve the United States, and are reflected on the Commission ISAT list.

Deere was previously granted authority to receive space-to-earth emissions from additional Inmarsat Satellites. See IBFS File No. SES-LIC-20130422-00340 (granted Feb. 9, 2016). Deere has filed an application to modify Call Sign E130083 to permit Antennas 1, 2, and 3 to operate on center frequency 1545.9675 MHz. See IBFS File No. SES-MOD-20160227-00183 (filed Mar. 1, 2016).

Navigational accuracy depends on several variables, including visibility to overhead satellites and other supplemental transmitters providing correctional data.

See IBFS File No. SES-MOD-20160227-00183.

2. Contact				
Name:	Catherine Wang	Phone Number:	202-373-6037	
Company	: Morgan, Lewis & Bockius LLP	Fax Number:	202-373-6001	
Street:	2020 K St., N.W.	E-Mail:	catherine.wang@morganlewis.com	
City:	Washington	State:	DC	
Country:	USA	Zipcode:	20006 -	
Attention	:	Relationship:	Legal Counsel	
	ted with this application? and attach FCC Form 159. If No, in tity Noncommercial education lain):		on (see 47 C.F.R.Section 1.1114).	
	CGB - Mobile Satellite Earth State	tions		
5. Type Request				
● Use Prior to Grant Chang		ge Station Location	Other	
6. Requested Use Pri 03/22/2016	or Date			

7. CityConterminous U.S., Alaska & Hawaii	8. Latitude (dd mm ss.s h) 0 0 0.0				
9. State	10. Longitude (dd mm ss.s h) 0 0 0.0				
11. Please supply any need attachments. Attachment 1: Reason for STA Attachment 2:	Attachment 3:				
12. Description. (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.) Deere & Company seeks special temporary authority to operate StarFire terminals with modified receive-only frequencies during the pendency of license modification application to Call Sign E130083. Please see Exhibit A for STA justification.					
13. By checking Yes, the undersigned certifies that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of " party to the application" for these purposes.					
14. Name of Person Signing Mark Lewellen	15. Title of Person Signing Spectrum Manager				
(U.S. Code, Title 18, Section 1001), AND/OR REV	ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT OCATION OF ANY STATION AUTHORIZATION FORFEITURE (U.S. Code, Title 47, Section 503).				

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