

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
Request for Special Temporary Authority

1. Applicant

Name:	Deere & Company	Phone Number:	310-381-2000
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City:	Torrance	State:	CA
Country:	USA	Zipcode:	90503 -3777
Attention:	Mr. Mark Lewellen		


60 days "with conditions"

File # SES-STA-20160602-00476

Call Sign E130083 Grant Date 06/20/2016
(or other identifier)

Term Dates
From 06/16/2016 To 08/14/2016

Approved: Paul E. Hays



Application: Deere & Company
File No.: SES-STA-20160602-00476
Call Sign: E130083
Special Temporary Authority

Deere & Company is granted Special Temporary Authority (STA) for a period of 60 days, commencing June 16, 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 600,000 SF6000 and 100,000 SF5050 mobile earth terminals. The STA operation subjects to the following conditions.

1. All antennas must operate with authorized emission limits in current authorizations.
2. 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.
3. Grant of this STA is without prejudice to any determination that the Commission may make regarding other pending or future applications.
4. Grant of this STA does not constitute market access for any other U.S. earth station.
5. If the underlying application is dismissed or denied this authorization becomes invalid and operations must cease immediately.
6. Any action taken or expense incurred as a result of operations pursuant to this STA is solely at the applicant's risk.
7. 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.

60 days "With Conditions"


 GRANTED International Bureau	File # <u>SES-STA-20160602-00476</u>
	Call Sign <u>E130083</u> Grant Date <u>06/20/2016</u> (or other identifier)
	Term Dates From <u>06/16/2016</u> To <u>08/14/2016</u>
	Approved: <u>Paul E. H...</u>

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 the following center frequencies already authorized under Call Sign E130083 from Inmarsat geostationary satellites (collectively “Inmarsat Satellites”).¹

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

Specifically, Deere requests STA for its SF6000 and SF5050 mobile earth terminals (“METs”) to receive 2.5 kHz space-to-earth emissions (designator 2K50D1D) from the Inmarsat Satellites at the above-referenced center frequencies during the pendency of a concurrently filed modification application seeking to permanently add these METS terminals to Call Sign E130083.² Deere requests the instant authority to begin no later than June 9, 2016.

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

¹ All involved Inmarsat spacecraft have been approved to serve the United States, and are reflected on the Commission ISAT list.

² See IBFS File No. SES-MOD-201601229/ (filed June 2, 2016).

³ Navigational accuracy depends on several variables, including visibility to overhead satellites and other supplemental transmitters providing correctional data.

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

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 that elect to upgrade or replace older generation StarFire terminals during the pendency of Deere's permanent application to modify Call Sign E130083 to add the above-referenced terminals. 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 above, grant of authority is requested on or before close of business on June 9, 2016 so that Deere can provide service to customers without any gap in continuity.

2. Contact

Name:	Catherine Wang	Phone Number:	202-373-6037
Company:	Morgan, Lewis & Bockius LLP	Fax Number:	202-373-6001
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City:	Washington	State:	DC
Country:	USA	Zipcode:	20006 -
Attention:		Relationship:	Legal Counsel

(If your application is related to an application filed with the Commission, enter either the file number or the IB Submission ID of the related application. Please enter only one.)

3. Reference File Number SESMOD2016022700183 or Submission ID

4a. Is a fee submitted with this application?

- If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).
- Governmental Entity Noncommercial educational licensee
- Other (please explain):

4b. Fee Classification CGB – Mobile Satellite Earth Stations

5. Type Request

- Use Prior to Grant Change Station Location Other

6. Requested Use Prior Date
06/09/2016

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