

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
Carpentersville TT&C STA for JCSAT-17 - 2020-01 (30-Day STA)

1. Applicant

Name:	Lockheed Martin Corporation	Phone Number:	703-413-5747
DBA Name:		Fax Number:	703-413-5908
Street:	2121 Crystal Drive Suite 100	E-Mail:	ryan.n.terry@lmco.com
City:	Arlington	State:	VA
Country:	USA	Zipcode:	22202
Attention:	Ryan N. Terry		

"With conditions"

30 days

File # SES-STA-20200122-00074

Call Sign E7541 Grant Date 02/14/2020
(or other identifier)

Term Dates

From: 02/16/2020 To: 03/16/2020

Approved: Rg Mung



GRANTED

Exceptional Bureau

2. Contact			
Name:	Ryan N. Terry	Phone Number:	703-413-5747
Company:	Lockheed Martin Corporation	Fax Number:	703-413-5908
Street:	2121 Crystal Drive Suite 100	E-Mail:	ryan.n.terry@lmco.com
City:	Washington	State:	DC
Country:	USA	Zipcode:	22202
Attention:		Relationship:	Same
(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 SESSTA2017011200046 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 CGX – Fixed Satellite Transmit/Receive Earth Station			
5. Type Request			
☒ Use Prior to Grant ☐ Change Station Location ☒ Other			
6. Requested Use Prior Date 02/16/2020			
7. City Carpentersville		8. Latitude (dd mm ss.s h) 40 38 39.1 N	

9. State NJ	10. Longitude (dd mm ss.s h) 75 11 27.8 W
11. Please supply any need attachments. Attachment 1: 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.) Lockheed Martin Corporation hereby requests Special Temporary Authority for 30 days, beginning February 16, 2020, to operate its Carpentersville, New Jersey fixed earth station (Call Sign E7541) to provide telemetry, tracking and control (TT&C) functions during the post-launch and early orbit phases (LEOP) of operation for the JCSAT-17	
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. Yes ☒ No ☐	
14. Name of Person Signing Jennifer A. Warren	15. Title of Person Signing Vice President, Technology Policy & Regulation
WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT (U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).	

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THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104-13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.

12. Description

Lockheed Martin Corporation hereby requests Special Temporary Authority for 30 days, beginning February 16, 2020, to operate its Carpentersville, New Jersey fixed earth station (Call Sign E7541) to provide telemetry, tracking and control (TT&C) functions during the post-launch and early orbit phases (LEOP) of operation for the JCSAT-17 satellite. Specifically, Lockheed Martin seeks authority to communicate with JCSAT-17 as a point of communication and to receive telemetry data on frequencies 12200.5 and 12201.0 MHz.

Applicant: Lockheed Martin Corporation
File No.: SES-STA-20200122-00074
Call Sign: E7541
Special Temporary Authority



File # SES-STA-20200122-00074
Call Sign E7541 Grant Date 02/14/2020
(or other identifier)
Term Dates
From: 02/16/2020 To: 03/16/2020
Approved: K. H. Mung

Lockheed Martin Corporation- ("Lockheed Martin") is granted a special temporary authority for 30 days, starting February 16, 2020, to operate its earth station in Carpentersville, New Jersey to provide telemetry, tracking, and control ("TT&C") functions during post-launch and early orbit phase ("LEOP") of operation, ranging, and electronic propulsion monitoring for the JCSAT-17 satellite, which is expected to launch on February 18, using frequencies 12.2005 GHz and 12.2010 GHz (space-to-Earth). JCSAT-17 is authorized by the administration of Japan, and will be at the 136.0° E.L orbital location operating under the following conditions:

1. Operations will not exceed the operational power levels and parameters in SES-LIC-20081103-01443.
2. All operations under this grant of special temporary authority shall be on an unprotected and non-harmful interference basis. Lockheed Martin shall not cause harmful interference to, and shall not claim protection from interference caused to it by, any other lawfully operating radio communication system.
3. In the event of any harmful interference under this grant of special temporary authority, Lockheed Martin must cease operations immediately upon notification of such interference, and must inform the Commission, in writing, immediately of such an event.
4. All operators of satellites will be provided with an emergency phone number where the licensee can be reached in the event that harmful interference occurs, Currently the 24x7 contact information for JCSAT-17 satellite is Ph.: (609) -865-2658 (cellular) and (908)859-4050 (earth station desk).
5. Any action taken or expense incurred as a result of operations pursuant to this special temporary authority is solely at Lockheed Marti's risk.
6. Grant of this authorization is without prejudice to any determination that the Commission may make regarding pending or future Lockheed Martin applications.

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.

Description of Operations and Public Interest Statement

Pursuant to 47 CFR 25.120 of the Commission's Rules, Lockheed Martin Corporation ("Lockheed Martin") hereby requests Special Temporary Authority ("STA") for a period of thirty (30) days to operate its Carpentersville, New Jersey fixed earth station (Call Sign E7451) to provide telemetry, tracking, and control ("TT&C") functions during the post-launch and early orbit phases ("LEOP") of operation, ranging, and electronic propulsion monitoring for the JCSAT-17 satellite.

JCSAT-17 is destined for in-service operation at 136.0° E.L., and is currently scheduled for launch on February 18, 2020, aboard an Ariane 5 ECA rocket, designated VA252, from the Guiana Space Center. JCSAT-17, which was manufactured by Lockheed Martin, will be operated by Sky Perfect JSAT Corporation and is authorized by the administration of Japan.

1. Requested STA Operations

The TT&C and ranging signals will be transmitted in the standard Ku-band for which Lockheed Martin already has authority under Call Sign E7451. Accordingly, the instant request serves only to permit Lockheed Martin to communicate with JCSAT-17 as a point of communication not on the Commission's Permitted Space Station List and also to receive telemetry data on frequencies 12200.5 and 12201.0 MHz, which fall immediately outside of the currently authorized Ku-band receive frequencies for the earth station. In all other respects, operation of the earth station will be consistent with the parameters set forth under the existing permanent authority.

Lockheed Martin herein seeks authority to begin communications on February 16, 2020, in preparation for the launch.¹ Lockheed Martin is requesting that the duration of this STA be a total of thirty (30) days.

Lockheed Martin designates Michael Usarzewicz to be the contact person that will be available whenever transmission to, or reception from, JCSAT-17 is to occur through the subject earth station. Mr. Usarzewicz can be reached at the following phone numbers:

(609) 865-2658 (cellular)
(908) 859-4050 (earth station desk)

¹ The proposed test transmissions would occur over a period of approximately two to three days. During these tests, the earth station would not be communicating with any satellite; instead, the transmissions will be made with the antenna at zenith to verify RF functionality.

2. Grant of the Requested Authority Will Serve the Public Interest

Lockheed Martin believes that the limited operations it proposes in support of the launch of the JCSAT-17 satellite serve the public interest. Lockheed Martin understands that the JCSAT-17 satellite has been licensed by the Japanese administration to provide high-power video, broadband, and mobile communications services over Japan and neighboring regions for Sky Perfect JSAT Corp. of Tokyo.

Lockheed Martin's Carpentersville earth station will be part of a global network of control and ranging facilities that will be used solely to position the satellite as it progresses from transfer orbit to its final location and to calibrate electronic propulsion. No end user service will be provided within the United States at any time. The safe and orderly use of the entire geostationary orbital resource and protection of the hundreds of satellites licensed by the U.S. and other countries that operate there depends in no small part on ensuring that the JCSAT-17 satellite is controlled while over North America en route to its final geostationary orbital position. In this regard, Lockheed Martin's earth station thus will serve a vital function.

* * * * *

Lockheed Martin requests authority to operate its Carpentersville, NJ earth station antenna to provide critical TT&C services during the launch and early operations phase of the JCSAT-17 satellite, for a term of 30 days, commencing February 16, 2020.
