

REQUEST FOR SPECIAL TEMPORARY AUTHORITY

SES Americom, Inc. (“SES”) respectfully requests special temporary authority (“STA”) for a period of 30 days beginning December 5, 2017, to permit SES to use two earth stations, one at its Woodbine teleport in Mt. Airy, MD (E120055), and one at its Sunset Beach teleport in Haleiwa, HI (E000313), to communicate with the Gibraltar-licensed AMC-18 C-band spacecraft (Call Sign S2713) in order to provide Tracking, Telemetry and Command (“TT&C”): (1) during the planned relocation of the spacecraft from its current position at 104.95° W.L. to 139° W.L.; and (2) once the satellite arrives on-station at 139° W.L.

SES Satellites (Gibraltar) Limited (“SES Gibraltar”) received market access for the C-band AMC-18 satellite to serve the United States from 104.95° W.L.¹ At that location, AMC-18 will be replaced by the C-band payload of the SES-11 satellite, which was launched on October 11, 2017.² Once traffic has been transferred from AMC-18 to SES-11, AMC-18 will become available for reassignment, and SES Gibraltar plans to relocate the satellite to 139° W.L., where AMC-18 will be available to provide back-up capacity for the AMC-8 spacecraft. SES Gibraltar is preparing a fleet management notification for that reassignment.

In order to support relocation of AMC-18, SES requests special temporary authority for two earth stations to communicate with the satellite to provide TT&C during the drift and after arrival of the satellite at 139° W.L. Each of the earth stations is licensed for operations in the conventional C-band TT&C frequencies used by AMC-18, and the coordinated satellite arc for each earth station encompasses the range between 104.95° W.L. and 139° W.L. over which AMC-18 will drift. Details of the operational characteristics for the TT&C transmissions are provided in Attachment 1.

The transmissions associated with the TT&C will not cause harmful interference to the operations of any other spacecraft or terrestrial operators. TT&C

¹ SES Satellites (Gibraltar) Limited, (Call Sign S2713), File No. SAT-PPL-20061006-00118, granted Dec. 7, 2006.

² SES Satellites (Gibraltar) Limited, (Call Sign S2964), File No. SAT-PPL-20160512-0048, granted Dec. 7, 2016.

transmissions during the drift of AMC-18 will be on a non-harmful interference basis and will comply with the technical specifications in the existing earth station licenses. The drift of AMC-18 will be coordinated with other satellite operators consistent with industry practice.³ Upon arrival at 139° W.L., the closest satellites to AMC-18 will be operated by SES entities.

For the foregoing reasons, SES respectfully requests special temporary authority to communicate with AMC-18 for a period of up to 30 days to provide TT&C during relocation of the satellite and once it is on station as described herein. Grant of this STA is in the public interest as the requested TT&C authority will facilitate the safe operation of AMC-18 as it drifts to and is located at 139° W.L.

³ The following are 24/7 points of contact during the planned drift of AMC-18: the SES Payload Management Operations Center (PMOC) in Woodbine, MD, 1 410 970 7580; e-mail: PMOC@ses.com and the SES Satellite Control Center in Betzdorf, Luxembourg; +352 710 725 212; e-mail: soc@ses.com.

Attachment 1

TT&C Frequencies:

Telecommand: 6423.5 MHz Horizontal Polarization (primary)
6423.5 MHz Vertical Polarization (emergency)

Telemetry: 3700.5 MHz Vertical Polarization(primary)
3700.5 MHz Horizontal Polarization (back-up)
4199.5 MHz Vertical Polarization (primary)

Earth Station Operating Characteristics

Call Sign: E120055 (Mount Airy, MD)
Receive Emission Designator: 500KF9D
Transmit Emission Designator: 1M00F9D
Max EIRP per Carrier: 73.38 dBW
Max EIRP Density: 49.4 dBW/4kHz

Call Sign: E000313 (Haleiwa, HI)
Receive Emission Designator: 500KF9D
Transmit Emission Designator: 1M00F9D
Max EIRP per Carrier: 76.58 dBW
Max EIRP Density: 52.6 dBW/4kHz

The EIRP and EIRP density levels specified above are within the maximum EIRP and EIRP density levels authorized in the current license for each of the earth stations.