

APPLICATION FOR SPECIAL TEMPORARY AUTHORITY

(E980076; antenna 9.3M)

*** Expedited Action Requested ***

SES Americom, Inc. (“SES”) hereby requests a 30-day Special Temporary Authority (“STA”) to operate its 9.3 meter antenna (call sign E980076; antenna 9.3M) at its Bristow, Virginia, teleport to communicate with the NSS-806 satellite at 40.5° W.L. (319.5° E.L.) using the 5850-5925 MHz uplink and 3625-5925 MHz downlink frequencies, and the 6491-6650 MHz uplink frequencies. SES is also requesting authority to use this antenna for TT&C in the conventional C-band frequencies.

Purpose. The purpose of this STA is to enable SES to continue providing international service to customers using the 9.3M antenna while maintenance work is performed on another 9.0 meter antenna at the same teleport that is regularly licensed to communicate with NSS-806 at 40.5° W.L. in these frequencies (call sign E000152; antenna 9M). The maintenance work on the 9.0 meter antenna is expected to take 2 to 3 months to complete. SES respectfully requests expedited grant of this STA by no later than **May 17, 2013**, so that the maintenance work can commence as soon as possible.

Uplink Operations. The proposed temporary uplink operations will not increase the potential for harmful interference. Transmissions from the 9.3M antenna in the 5850-5925 MHz and 6491-6650 MHz frequencies will not exceed the maximum coordinated EIRP and EIRP density for these frequencies on Antenna 1 on the same earth station license (call sign E980076). Specifically, the EIRP will not exceed 73.8 dBW and the EIRP density will not exceed 43.0 dBW/4 kHz for any carrier in these bands. All uplinks from the 9.3M antenna in these bands will be received outside of the United States.¹

Downlink Operations. The proposed temporary downlink operations in 3625-3700 MHz will not require any additional protection from harmful interference. Two antennas at SES’s Bristow teleport are authorized to receive in these frequencies on a “grandfathered” basis: the 9M antenna on E000152 and the NSS-EC-1 antenna on E000696. All downlinks received on the 9.3M antenna in this band will be uplinked from outside the United States.²

TT&C. SES is also requesting authority to use the 9.3M antenna to perform TT&C with the NSS-806 in the conventional C-band frequencies, specifically:³

Telecommand 1	6173.7 MHz
Telecommand 2	6176.3 MHz
Telemetry 1 & 1A	3947.5, 3948 MHz
Telemetry 2 & 2A	3952.5, 3952 MHz
Tracking Beacon	3950 MHz

¹ See 47 C.F.R. § 2.106 footnote US245; § 2.108 (restricting 5850-5925 MHz to international service only).

² See 47 C.F.R. § 2.106 footnote US245; § 2.108 (restricting 3600-3700 MHz to international service only).

³ The FCC has previously granted a waiver of 47 C.F.R. 25.202(g) for NSS-806’s center-of-band TT&C frequencies. See *New Skies Satellites N.V.*, 16 FCC Rcd 6740, at ¶ 22 (2001).

SES is requesting authority to operate with a maximum EIRP of 77 dBW and EIRP density of 53.5 dBW/4 kHz for its telecommand uplinks. This is less than the maximum coordinated EIRP allowed under earth station license E980076, and is less than the maximum coordinated EIRP density for another antenna at the same teleport (call sign E000696) located a mere 125 feet away.⁴

Grant of the requested STA will serve the public interest by ensuring continuity of service to customers. The SES point of contact for all operations proposed under the requested STA is Gary Cruickshank, +1 (703) 367 7311, gary.cruickshank@ses.com.

⁴ To the extent necessary, SES requests a waiver of the requirement in 47 C.F.R. § 25.203 for a fresh coordination report for the higher EIRP density of the TT&C transmissions of this antenna. There is no additional risk of harmful interference due to the close proximity of another antenna in the same frequency band that is coordinated and authorized to transmit at this higher EIRP density to the 40.5° W.L. orbital position.