

APPLICATIONS FOR SPECIAL TEMPORARY AUTHORITY

(Call Signs E070181, WB81 and KB27)

SES Americom, Inc. (“SES”) respectfully requests Special Temporary Authority (“STA”) – to commence no later than October 7, 2014 – to use the following earth stations to perform Tracking, Telemetry and Command (“TT&C”) to retire the NSS-703 satellite currently at 47.05° W.L.:

SES Designation	FCC Call Sign	Antenna Model	Coordination Arc	Use During De-orbit	Max EIRP dBW	Max EIRP Density dBW/4kHz
Woodbine C8	E070181 WBES-IS1R	7.3m Vertex	15W-140W	47.05W-65.5W	76.3	49.1
Vernon TC1	WB81 Ant#2	13m Vertex	5W-143W	47.05W-143W	88.9	57.7
South Mtn TC1	KB27 Ant#1	13m Vertex	53W-188W	53W-188W	89.9	66.8

During the maneuvers to retire NSS-703, these earth stations will communicate with the satellite on the following TT&C frequencies:

Command 1	6173.7 MHz
Command 2	6176.3 MHz
Telemetry 1	3947.5 or 3948 MHz
Telemetry 2	3952.5 or 3952 MHz

The earth stations will be operated in accordance with their licensed and coordinated technical parameters, with the following exception. Specifically, the Woodbine C8 antenna (Call Sign E070181), may need to be operated at up to 50 dBW/4 kHz EIRP density in order to command the satellite in an emergency situation during the initial portion of the de-orbit drift from 47.05° W.L. to approximately 65.5° W.L. Specifically, such higher power would be needed only if the Vernon TC1 antenna (Call Sign WB81 Ant#2) were not available due to some unforeseen outage. SES respectfully requests an STA to operate the Woodbine C8 antenna (Call Sign E070181) in excess of its licensed and coordinated power limits on a non-harmful interference basis in the event of such an emergency.

In any event, all earth station operations during the retirement of NSS-703 will be performed on a non-harmful interference, non-protected basis. In addition, SES will coordinate the de-orbit drift with all potentially affected satellite operators in accordance with industry practice. SES will cease operations upon receipt of notification of harmful interference. The SES point of contact for interference matters during the NSS-703 retirement maneuvers is the SES Satellite Control Center, +352 710 725 212, soc@ses.com (attention: Duty Satellite Controller).

Grant of the requested STAs will serve the public interest, as it will enable the NSS-703 satellite to be deorbited in accordance with the satellite’s authorized post-mission disposal plan. *See SES Satellites (Gibraltar) Limited*, Stamp Grant, File Nos. SAT-PPL-20101103-00230, 20110120-00015, Call Sign S2818 (granted Oct. 13, 2011).

SES respectfully requests STAs for an initial period of 30 days to begin on October 7, 2014. However, the retirement of the satellite may take longer than 30 days to ensure full venting of the fuel and oxidizer on the spacecraft. Accordingly, SES will be requesting an extension of these STAs for another 30 days.¹

¹ SES will separately file an application for Special Temporary Authority to use its Sunset Beach C2 antenna (call sign E090060) to support the de-orbiting of NSS-703 once the terrestrial frequency coordination process for that antenna has been updated.