Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, D.C. 20554

In the Matter of Application by	)	
	)	
SES AMERICOM, INC.	)	SES-STA-_____-_____
	)	Call Sign KA288
For Special Temporary Authority to	)	
Perform In-Orbit Testing for SES-10 at 68.5° W.L.	)	

REQUEST FOR SPECIAL TEMPORARY AUTHORITY

By this application, SES Americom, Inc. ("SES Americom" or "SES") respectfully requests special temporary authority ("STA") for a period of 30 days, beginning 11 days following launch of SES-10, to permit SES to receive signals from the SES-10 satellite at 68.5° W.L. using its KA288 antenna in Somis, CA, as part of SES-10 in-orbit testing. The satellite is currently scheduled to launch in mid-February 2017 and will ultimately operate at 66.9° W.L.[1] Following the completion of in-orbit testing at 68.5° W.L., SES-10 will drift to its final orbital location at 66.9° W.L. SES Americom will separately seek authority to allow ongoing operation of the earth station with SES-10 at 66.9° W.L.

SES Americom's affiliate, New Skies Satellites B.V. ("NSS"), received authority to provide service into the United States using SES-10 at 67° W.L. on June 23, 2016.[2] NSS has

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[1] *See New Skies Satellites B.V. Market Access Application*, File No. SAT-PPL-20160117-00005 ("SES-10 Petition"), granted on June 23, 2016 ("SES-10 Grant"). The grant was based on SES-10 operating at 67.0° W.L., but NSS has filed a modification of its authority to operate the satellite at 66.9° W.L. pursuant to the Commission's expedited process set out in Section 25.117(h)(1). *New Skies Satellites B.V. Modification*, File No. SAT-MPL-20170108-00002, (Call Sign S2950), filed Jan. 8, 2017.

[2] *Id*. SES Americom incorporates by reference the technical information submitted in the SES-10 Petition.

requested that SES Americom assist with testing the satellite at 68.5°W.L. SES Americom, therefore, requests STA to use its earth station to receive signals in the 11050 MHz, 11035 MHz and 11572 MHz frequency in order to test an uplink originating in Lima, Peru.

The proposed operations will be coordinated with all satellite operators that use the same frequency bands within six degrees of 68.5° W.L. and those within the drift path. All operators of potentially affected satellites will be provided with an emergency phone number where the licensee can be reached in the event harmful interference occurs.

Grant of STA Will Serve the Public Interest. Grant of this STA request is in the public interest. The requested authority to test SES-10 will ensure it is capable of providing valuable services once it begins full operation.

No Harmful Interference to Other Spacecraft. All operations with SES-10 while it is located at 68.5° W.L. will be on a non-harmful interference basis. SES has commenced coordinating the proposed IOT operations in the Ku-band with satellites positioned near 68.5° W.L., including Nimiq 5 (72.7° W.L.), Arsat 1 (71.8° W.L.), Star One C2 (70° W.L.), Star One C4 (70° W.L.), Star One C1 (65° W.L.) and Telstar 14R (63° W.L.). The drift of the spacecraft will be coordinated with other satellite operators consistent with industry practice.[3]

[3] The 24/7 point of contact for the proposed SES-10 operations is the SES Payload Management Operations Centre (PMOC) in Woodbine, MD, 1 800 772 2363 or 1 410 970 7570; e-mail: PMOC@ses.com.

For the foregoing reasons, SES Americom respectfully requests special temporary authority for its earth station to receive signals from SES-10 for a period of up to 30 days to test the communications payload at 68.5° W.L. as described herein. Grant of the requested authority will promote safe operation of the satellite during and after it is tested.

Respectfully submitted,

SES AMERICOM, INC.

By: */s/ Petra Vorwig*

Petra Vorwig
Senior Legal & Regulatory Counsel
SES Americom, Inc.
1129 20th Street NW, Suite 1000
Washington, DC 20036
Tel: (202) 478-7143

Of Counsel
Karis A. Hastings
SatCom Law LLC
1317 F Street, N.W., Suite 400
Washington, D.C. 20004
Tel: (202) 599-0975

Dated: January 9, 2017

ATTACHMENT 1

Call Sign: KA288

Site Details

Contact Information:
Dave Coyle
805-386-2712

Address:
5990 Solano Verde Dr.
Somis, CA
93066

Geographic Coordinates:
Latitude: 34° 19’ 31.0" N

Longitude: 118° 59’ 44.4" W

Site Elevation:
311.0 meters

Antenna Details

Antenna ID:	TK1
Manufacture/Model:	Vertex/6.1 KPK
Antenna Size:	6.1m
Antenna Gain Transmit:	57.1 dBi at 14.0 GHz
Antenna Gain Receive:	58.5 dBi at 11.725 GHz
Height Above Ground Level:	7.0 meters
Height Above Sea Level:	318.0 meters
Total Input Power at the Flange:	650 watts
Total EIRP for all Carriers:	85.2 dBW

Operational Details

Frequency (MHz)	Transmit/ Receive	Polarization	Emissions Designator	Max EIRP per Carrier (dBW)	Max EIRP Density per Carrier (dBw/4kHz)
10950-11200	R	Horizontal and Vertical	100KG7W		
10950-11200	R	Horizontal and Vertical	36M0G7W		
11450-11700	R	Horizontal and Vertical	100KG7W		
11450-11700	R	Horizontal and Vertical	36M0G7W		