Date & Time Filed: Oct 26 2010 6:57:42:483PM File Number: SES-MOD-INTR2010-03338

FCC APPLICATION FOR SPACE AND EARTH STATION:MOD OR AMD – MAIN FORM	FCC Use Only
FCC 312 MAIN FORM FOR OFFICIAL USE ONLY	

APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu: E000035 Mod

E000033 Wlod			
1–8. Legal Name of Ap	plicant		
Name:	SPACENET SERVICES LICENSE SUB, INC.	Phone Number:	703-848-1000
DBA Name:		Fax Number:	703-848-1184
Street:	1750 OLD MEADOW ROAD	E-Mail:	Lesley.Cooper@Spacenet.com
City:	MCLEAN	State:	VA
Country:	USA	Zipcode:	22102 –
Attention:	Lesley Cooper		

9–16. Name of Contact Representative

Name: Lesley Cooper Phone Number: 703–848–1000

Company: SPACENET SERVICES **Fax Number:** 703–848–1184

LICENSE SUB, INC.

Street: 1750 OLD MEADOW ROAD E-Mail: Lesley.Cooper@Spacenet.com

City: MCLEAN State: VA

Country: USA Zipcode: 22102–

Attention: Lesley Cooper Relationship: Legal Counsel

CLASSIFICATION OF FILING

17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b.	(N/A) b1. Application for License of New Station (N/A) b2. Application for Registration of New Domestic Receive—Only Station b3. Amendment to a Pending Application
a1. Earth Station a2. Space Station	 b4. Modification of License or Registration b5. Assignment of License or Registration b6. Transfer of Control of License or Registration b7. Notification of Minor Modification (N/A) b8. Application for License of New Receive—Only Station Using Non—U.S. Licensed Satellite (N/A) b9. Letter of Intent to Use Non—U.S. Licensed Satellite to Provide Service in the United States (N/A) b10. Other (Please specify) (N/A) b11. Application for Earth Station to Access a Non—U.S.satellite Not Currently Authorized to Provide the Proposed Service in the Proposed Frequencies in the United States (N/A) b12. Application for Database Entry b13. Amendment to a Pending Database Entry Application b14. Modification of Database Entry
17c. Is a fee submitted with this application of the submitted with th	159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).
17d. Fee Classification CGX – Fixed Satellite T Station	Transmit/Receive Earth

18. If this filing is in reference to an existing station, enter:	19. If this filing is an ame modification please enter		g application enter both fields, if this filing is a
(a) Call sign of station:	(a) Date pending applicati	on was filed:	(b) File number:
E000035			SESRWL2010061500704
			SLSKW L2010001300704
TYPE OF SERVICE			
20. NATURE OF SERVICE: This filing is	for an authorization to provi	de or use the followi	ing type(s) of service(s): Select all that apply:
a. Fixed Satellite b. Mobile Satellite c. Radiodetermination Satellite d. Earth Exploration Satellite e. Direct to Home Fixed Satellite f. Digital Audio Radio Service g. Other (please specify)			
21. STATUS: Choose the button next to the	e applicable status. Choose	22. If earth station	applicant, check all that apply.
only one. Common Carrier Non–Common	n Carrier	Using U.S. lie	
V	-	Using Non-U	J.S. licensed satellites

23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Choose one. Are these

O Connected to a Public Switched Network Not connected to a Public Switched Network N/A

facilities:

24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all applicable frequency band(s).
a. C–Band (4/6 GHz) b. Ku–Band (12/14 GHz)
c.Other (Please specify upper and lower frequencies in MHz.)
Frequency Lower: Frequency Upper: (Please specify additional frequencies in an attachment)
TYPE OF STATION
25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one.
a. Fixed Earth Station
b. Temporary–Fixed Earth Station
d. Mobile Earth Station
e. Geostationary Space Station
f. Non–Geostationary Space Station
g. Other (please specify)
26. TYPE OF EARTH STATION FACILITY:
Transmit/Receive Transmit-Only Receive-Only N/A
"For Space Station applications, select N/A."

PURPOSE OF MODIFICATION

27. The purpose of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.)
a — authorization to add new emission designator and related service
b — authorization to change emission designator and related service
c — authorization to increase EIRP and EIRP density
d — authorization to replace antenna
e — authorization to add antenna
f — authorization to relocate fixed station
g — authorization to change frequency(ies)
h — authorization to add frequency
i — authorization to add Points of Communication (satellites & Double
j — authorization to change Points of Communication (satellites & tountries)
k — authorization for facilities for which environmental assessment and
radiation hazard reporting is required
1 — authorization to change orbit location
m — authorization to perform fleet management
n — authorization to extend milestones
o — Other (Please specify)

ENVIRONMENTAL POLICY

the Commission's rules, 47 C.F.R. 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments.	Radl	Haz			
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aerona aeronautical fixed radio station services are not required to respond to Items 30–34.	autical er	ı rou	te or		
29. Is the applicant a foreign government or the representative of any foreign government?	O Yes	•	No		
30. Is the applicant an alien or the representative of an alien?	O Yes	•	No	0	N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	O Yes	•	No	0	N/A
32. Is the applicant a corporation of which more than one—fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	O Yes	•	No	0	N/A

O Yes O No

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental

impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections 1.1308 and 1.1311 of

33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than one–fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	● Yes ○	No O N/A
34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.	Exhibit A	
BASIC QUALIFICATIONS		
35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules? If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.	O Yes	No
36. Has the applicant or any party to this application or amendment had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explination of circumstances.	O Yes	No

37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explination of circumstances.	• Yes	⊚ No
38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances	• Yes	No
39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhinit, an explanation of the circumstances.	• Yes	⊘ No
40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, address, and citizenship of those stockholders owning a record and/or voting 10 percent or more of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer.		

41. 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	O No
42a. Does the applicant intend to use a non–U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43.	O Yes	⊚ No
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, we coordinated or is in the process of coordinating the space station?	hat administr	ration has
43. Description. (Summarize the nature of the application and the services to be provided). (If the complete descripti box, please go to the end of the form to view it in its entirety.)	on does not a	ppear in this
Add Galaxy 18 to existing VSAT license for Call Sign E000035		

43a. Geographic Service Rule Certification By selecting A, the undersigned certifies that the applicant is not subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25.	● A
By selecting B, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will comply with such requirements.	O B
By selecting C, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will not comply with such requirements because it is not feasible as a technical matter to do so, or that, while technically feasible, such services would require so many compromises in satellite design and operation as to make it economically unreasonable. A narrative description and technical analysis demonstrating this claim are attached.	o c

CERTIFICATION

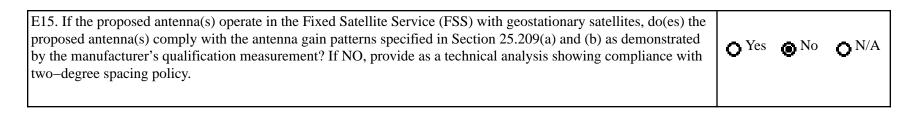
The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The applicant certifies that grant of this application would not cause the applicant to be in violation of the spectrum aggregation limit in 47 CFR Part 20. All statements made in exhibits are a material part hereof and are incorporated herein as if set out in full in this application. The undersigned, individually and for the applicant, hereby certifies that all statements made in this application and in all attached exhibits are true, complete and correct to the best of his or her knowledge and belief, and are made in good faith.

44. Applicant is a (an): (Choose the button next to app	plicable response.)	
O Individual		
 Unincorporated Association 		
• Partnership		
Corporation		
Governmental Entity		
Other (please specify)		
45. Name of Person Signing	46. Title of Person Signing	
Lesley Cooper	Senior Counsel	
>		
	E ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMI	

(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).

SATELLITE EARTH STATION AUTHORIZATIONS FCC Form 312 – Schedule B:(Technical and Operational Description) FOR OFFICIAL USE ONLY

Location of Earth St	ation Site						
E1: Site Identifier:	E000035	E5. Call Sign:	E000035				
E2: Contact Name	Lesley Cooper	E6. Phone Number:	703-848-1188				
E3. Street:	1750 Old Meadow Road	E7. City:	McLean				
		E8. County:	Fairfax				
E4. State	VA	E9. Zip Code	22102				
E10. Area of Operat	tion:	CONUS, AK, HI All US Territories					
E11. Latitude:	0 °0 '0.0 "						
E12. Longitude:	0 °0 '0.0 "						
E13. Lat/Lon Coord	linates are:	○ NAD-27	O NAD-83	N/A			
E14. Site Elevation	(AMSL):	0.0 meters					



E16. If the proposed antenna(s) do not operate in the Fixed Satellite Set Satellite Service (FSS) with non–geostationary satellites, do(es) the progain patterns specified in Section 25.209(a2) and (b) as demonstrated b measurements?	O Yes	O No	⊚ N/A	
E17. Is the facility operated by remote control? If YES, provide the loca point.	ation and telephone number of the control	Yes	0	No
E18. Is frequency coordination required? If YES, attach a frequency coordination	ordination report as	- 17		N.
		• Yes	•	No
E19. Is coordination with another country required? If YES, attach the coordination contours as	name of the country(ies) and plot of	O Yes	•	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.1 have you attached a copy of a completed FCC Form 854 and/or the FAI the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL APPLICATION.	A's study regarding the potential hazard of	O Yes	•	No
POINTS OF COMMUNICATION				
Satellite Name: GALAXY 18 GALAXY 18 123 W.L. If you select	ted OTHER, please enter the following:			
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
POINTS OF COMMUNICATION (Destination Points)	•			
E25. Site Identifier:				

E26. Common Name:	E27. Country:
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ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)
E000035	.75M T/F	1000	ASC	TMC 75E	0.75	39.1 dBi at 14.25
E000035	.75M T/F	1000	ASC	TMC 75E	0.75	37.4 dBi at 11.950
E000035	0.75 TF	500000	ASC Signal	TMC 75E	0.75	37.4 dBi at 11.95
E000035	0.75 TF	500000	ASC Signal	TMC 75E	0.75	38.8 dBi at 14.25
E000035	.75M-F	100000	ASC Signal	TMC 75E	0.75	37.8 dBi at 11.95
E000035	.75M-F	100000	ASC Signal	TMC 75E	0.75	39.1 dBi at 14.25
E000035	TF-75E	10000	Andrew	75E	0.75	37.8 dBi at 11.95
E000035	TF-75E	10000	Andrew	75E	0.75	38.8 dBi at 14.25

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	E36. Above Sea Level(meters)	Height Above	E38. Total Input Power at antenna flange (Watts)	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
.75M T/F	0.0/0.0	0.75	0.0	0.0	4.0	0.0	45.12
0.75 TF	0.0/0.0	0.75	0.0	0.0	4.0	0.0	44.82
.75M-F	0.0/0.0	0.75	0.0	0.0	4.0	0.0	45.1
TF-75E	0.0/0.0	0.75	0.0	0.0	3.73	0.0	44.52

FREQUENCY

	E43/44. Frequency Bands (MHz)				EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
.75M T/F	11700 12200	R	Horizontal and Vertical	26M0G7D	0.0	0.0

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

Digital data with various modulation, data rates and information type

.75M T/F	11700 12200	Horizontal and Vertical	400KG7D	0.0	0.0
	12200	vertical			

E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Digital da	ta with variou	s modulation,	data rates and	information t	ype	
.75M T/F	14000 14500	Т	Horizontal and Vertical	100KG7D	39.1	25.1
E50. Modulation entirety.)					o the end of the form	to view it in its
Digital da	ta with variou	s modulation,	data rates and	information t	ype	
.75M T/F	14000 14500	Т	Horizontal and Vertical	2M20G7W	45.1	17.7
E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Digital da	ta with variou	s modulation,	data rates and	information t	ype	
0.75 TF	11700 12200	R	Horizontal and Vertical	400KG7D	0.0	0.0

E50. Modulation entirety.)	and Services (If the	ne complete descripti	on does not appear in	this box, please go t	to the end of the form	to view it in its
	ata with variou	s modulation,	data rates and	l information t	cype	
0.75 TF	11700 12200	R	Horizontal and Vertical	54M0G7D	0.0	0.0
E50. Modulation entirety.)	a and Services (If the	ne complete descripti	on does not appear in	this box, please go t	to the end of the form	to view it in its
Digital da	ata with variou	s modulation,	data rates and	l information t	cype	
0.75 TF	14000 14500	Т	Horizontal and Vertical	2M2G7D	44.5	17.1
E50. Modulation entirety.)	and Services (If the	ne complete descripti	on does not appear in	this box, please go t	to the end of the form	to view it in its
Digital da	ata with variou	s modulation,	data rates and	l information t	type	
0.75 TF	14000 14500	Т	Horizontal and Vertical	60K0G7D	35.5	23.7

E50. Modulation entirety.)	and Services (If the	e complete description	on does not appear in	this box, please go t	o the end of the form	to view it in its
Digital da	ta with variou	s modulation,	data rates and	information t	ype	
.75M-F	11700 12200	R	Right Hand Circular	26M0G7D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	e complete description	on does not appear in	this box, please go t	o the end of the form	to view it in its
Digital da	ta with variou	s modulation,	data rates and	information t	zype	
.75M-F	11700 12200	R	Horizontal and Vertical	400KG7D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go t	o the end of the form	to view it in its
Digital da	ta with variou	s modulation,	data rates and	information t	Cype	
.75M-F	14000 14500	Т	Horizontal and Vertical	100KG7D	39.1	25.1

E50. Modulation entirety.)	and Services (If the	e complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Digital da	ta with variou	s modulation,	data rates and	information t	ype	
.75M-F	14000 14500	Т	Horizontal and Vertical	2M20G7D	45.1	17.7
E50. Modulation entirety.)	and Services (If the	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Digital da	ta with variou	s modulation,	data rates and	information t	ype	
TF-75E	11700 12200	R	Horizontal and Vertical	400KG7D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	e complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Digital da	ta with variou	s modulation,	data rates and	information t	ype	
TF-75E	11700 12200	R	Horizontal and Vertical	54M0G7D	0.0	0.0

E50. Modulation	and Services (If the	e complete descripti	on does not appear i	n this box, please	go to the end of th	ne form to view it in its
entirety.)						
Digital da	ta with variou	s modulation,	data rates an	d information	n type	
TF-75E	14000 14500	Т	Horizontal and Vertical	2M20G7D	44.5	17.1
Digital da	ta with variou	s modulation,	data rates an	d information	n type	
TF-75E	14000 14500	Т	Horizontal and Vertical	60K0G7D	35.5	23.7
E50. Modulation entirety.) Digital da	and Services (If the					ne form to view it in its

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
.75M T/F	Geostationary	11700 12200	123.0/123.0	0.0	0.0	0.0	0.0	0.0
	Geostationary	14000 14500	123.0/123.0	0.0	0.0	0.0	0.0	-3.5
0.75 TF	Geostationary	11700 12200	123.0/123.0	0.0	0.0	0.0	0.0	0.0
	Geostationary	14000 14500	123.0/123.0	0.0	0.0	0.0	0.0	-3.5
.75M-F	Geostationary	11700 12200	123.0/123.0	0.0	0.0	0.0	0.0	0.0
	Geostationary	14000 14500	123.0/123.0	0.0	0.0	0.0	0.0	-3.5
TF-75E	Geostationary	11700 12200	123.0/123.0	0.0	0.0	0.0	0.0	0.0
	Geostationary	14000 14500	123.0/123.0	0.0	0.0	0.0	0.0	-3.5

REMOTE CONTROL POINT LOCATION

E61. Call Sign	E66. Phone Number
E990448	703-848-1000
NOTE: Please enter the callsign of the controlling station, not the	
callsign for which this application is being filed.	

E62. Street Address 1750 Old Meadow Road				
E63. City Mcleans	E68. County Fairfax		E67/68. State/Country VA/ USA	E64. Zip Code 22102
E61. Call Sign E4412 NOTE: Please enter the callsign of the contraction callsign for which this application is being filed		E66. Phone Number 773–927–0120	r	
E62. Street Address 3111 S. Western				
E63. City Chicago	E68. County Cook		E67/68. State/Country IL/ USA	E64. Zip Code 60608
E61. Call Sign E860013 NOTE: Please enter the callsign of the contractles of the contract	E66. Phone Number 770–426–4261			
E62. Street Address 840 Franklin Court		-		
E63. City Marietta	E68. County Cobb		E67/68. State/Country GA/ USA	E64. Zip Code 30067

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The public reporting for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD–PERM, Paperwork Reduction Project (3060–0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to PRA@fcc.gov. PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

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