Approved by OMB 3060–0678

Date & Time Filed: Mar 6 2012 12:03:36:950PM File Number: SES-MOD-INTR2012-00728

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: KA399 modification to add POCs (Feb 2012) rev.

1–8. Legal Name of Applicant **Phone Number:** Telesat Network Services, Inc. 908-698-4882 Name: DBA **Fax Number:** 908-719-0226 Name: Street: 135 Routes 202/206 E-Mail: rcondurso@telesat.com City: Bedminster State: NJ USA Zipcode: -1538**Country:** 07921 Attention: Mr Robert Condurso

9–16. Name	e of Contact	Representative					
	Name:	Joseph A. Godles		Phone Number:		202-429-4900	
	Company:	Goldberg Godles W	iener & Wright	Fax Number:		202-429-4912	
	Street:	1229 19th Street, N	W	E–Mail:		jgodles@g2w2.com	
	City:	Washington		State:		DC	
	Country:	USA		Zipcode:		20036-2413	
	Attention:			Relationship:		Legal Counsel	
CLASSIFI	CATION O	F FILING					
both questions a. and b. Choose only one for 17a and only one for 17b.(N/A) b2. Appl b3. Amend			ment to a Pending App	n of New Dom plication	estic Receive–Only Station		
• a1. E	Earth Station			cation of License or Re			

classification that applies to this filing for	(N/A) b1. Application for License of New Station
both questions a. and b. Choose only one	(N/A) b2. Application for Registration of New Domestic Receive–Only Station
for 17a and only one for 17b.	• b3. Amendment to a Pending Application
al. Earth Station	b4. Modification of License or Registration
× ·	b5. Assignment of License or Registration
• a2. Space Station	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		
• If Yes, complete and attach FCC Form	159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).
O Governmental Entity O Noncomme	rcial educational licensee	
• Other(please explain):		
17d.		
Fee Classification CGX – Fixed Satellite 7 Station	Transmit/Receive Earth	
18. If this filing is in reference to an existing station, enter:	19. If this filing is an amendment to a pending modification please enter only the file number:	
(a) Call sign of station:	(a) Date pending application was filed:	(b) File number:
KA399		SESMOD2011090901053

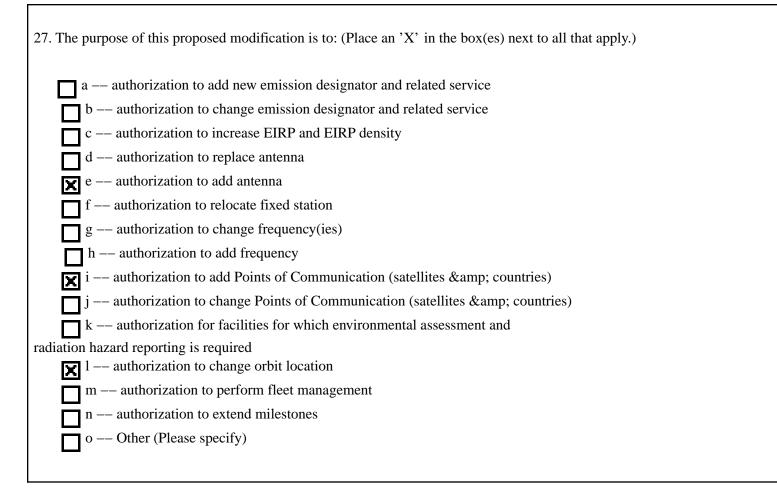
TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide or	r use the following 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) Earth Stations on Vessels (ESV)	
21. STATUS: Choose the button next to the applicable status. Choose 22	2. If earth station applicant, check all that apply.
only one.	Using U.S. licensed satellites
Common Carrier Non–Common Carrier	Using Non–U.S. licensed satellites
23. If applicant is providing INTERNATIONAL COMMON CARRIER servi facilities:	vice, see instructions regarding Sec. 214 filings. Choose one. Are these
• Connected to a Public Switched Network • Not connected to a Public Switched Network	blic Switched Network 💿 N/A
24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all appl	icable frequency band(s).
a. C–Band (4/6 GHz) k. 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
o c. 12/14 GHz VSAT Network
O 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



ENVIRONMENTAL POLICY

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 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.

ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeronautical en route or aeronautical fixed radio station services are not required to respond to Items 30–34.

29. Is the applicant a foreign government or the representative of any foreign government?	0	Yes	۲	No		
30. Is the applicant an alien or the representative of an alien?	0	Yes	0	No	۲	N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	0	Yes	0	No	۲	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?	0	Yes	0	No	۲	N/A

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?

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.

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.	● Yes ● No
	Request for Waiver
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.	● Yes ● No
	Response to Q36

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.	O 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	O 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	O 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.

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.



Yes

O No

42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, what administration has coordinated or is in the process of coordinating the space station?

43. Description. (Summarize the nature of the application and the services to be provided). (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

Applicant seeks herein (1) to add Estrela do Sul 2 as a point of communication; (2) to authorize Telstar 11N and Estrela do Sul 2 to communicate with previously authorized extended Ku-band frequencies; (3) to expand the frequency coordination satellite arc in the standard Ku-band frequencies for the antenna identified as 15M; (4) to restore ALSAT,

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.	О ^В
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 applicable response.)
O Individual	
O Unincorporated Association	
• Partnership	
• Corporation	
• Governmental Entity	
Other (please specify)	
45. Name of Person Signing Robert Condurso	46. Title of Person Signing
	Director, Govt and Regulatory Affairs
>	
(U.S. Code, Title 18, Section 1001), AND/OR H	M ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT REVOCATION OF ANY STATION AUTHORIZATION R 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 S	tation Site				
E1: Site Identifier:	Mt. Jackson	E5. Call Sign:	KA399		
E2: Contact Name	John Liebl	E6. Phone Number:	540-477-5550		
E3. Street:	1305 Industrial Park Road	E7. City:	Mount Jackson		
		E8. County:	Shenandoah		
E4. State	VA	E9. Zip Code	22842		
E10. Area of Opera	tion:	Fixed and ESV unit	ts in open water.		
E11. Latitude:	38 °43 '42.0 "N				
E12. Longitude:	78 °39 '25.0 "W				
E13. Lat/Lon Coord	dinates are:	● NAD-27	O ^{NAD-83}	O N/A	
E14. Site Elevation	(AMSL):	295.9 meters			

E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	O Yes	O ^{No}	● N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Yes	۲	No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as	0	Yes	۲	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	0	Yes	۲	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	0	Yes	۲	No

POINTS OF COMMUNICATION

Satellite Name: TELSTAR 11N USASAT26A 37.55 W.L. If y	you selected OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: ALSAT | ALL AUTHORIZED U.S. | ALSAT If you selected OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: ESTRELA DO SUL 2 ESTRELA DO SUL 2 63 W.L.	If you selected 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:

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 at GHz)
Mt. Jackson	SE125 ESV	250	Azimuth	SE125	1.25	42.1 dBi at 12
Mt. Jackson	SE125 ESV	250	Azimuth	SE125	1.25	42.5 dBi at 14
Mt. Jackson	15M	1	Vertex	КРК	15.0	0.0 dBi at

Id				Height Above	Input Power at	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
SE125 ESV	0.0/0.0	3.0	0.0	0.0	8.0	0.0	51.5

15M	0.0/0.0	13.0	295.85	0.0	1445.0	0.0	93.1
FREQUENCY				ł			
E28. Antenna Id	E43/44. Frequency Ba (MHz)	ands E45. T/R bi	r>Mode	E46. Antenna Polarization(H,V, L,R)	E47. Emission Designator	E48. Maxim EIRP per C (dBW)	
SE125 ESV	10950 11200	R		Horizontal and Vertical	907KG7W	0.0	0.0
E50. Modulation entirety.)	on and Services	(If the compl	ete descriptio	n does not appear in	n this box, please	go to the end of th	he form to view it in its
SE125 ESV	11450 11700	R		Horizontal and Vertical	907KG7W	0.0	0.0
E50. Modulation entirety.)	on and Services	(If the compl	ete descriptio	n does not appear in	n this box, please	go to the end of th	he form to view it in its
NULL							
SE125 ESV	11700 12200	R		Horizontal and Vertical	907KG7W	0.0	0.0

E50. Modula entirety.)	tion and Services	(If the complete de	escription does not appear	in this box, please	go to the end of t	the form to view it in its
NULL						
SE125 ESV	12500 12750	R	Horizontal and Vertical	907KG7W	0.0	0.0
NULL						
SE125 ESV	14200 14470	Т	Horizontal and Vertical	907KG7W	46.1	22.55
E50. Modula entirety.)	tion and Services	(If the complete de	escription does not appear	in this box, please	go to the end of t	the form to view it in its
1037 KB	PS, QPSK, 33/!	50 FEC				

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)
SE125 ESV	Geostationary	10950 12200	37.5/37.5	0.0	5.0	0.0	5.0	0.0
	Geostationary	14200 14470	37.5/37.5	0.0	5.0	0.0	5.0	-29.95
15M	Geostationary	10950 11200	7.0/63.0	101.7	5.6	155.8	42.5	0.0
	Geostationary	11450 12200	7.0/63.0	101.7	5.6	155.8	42.5	0.0
	Geostationary	13750 14000	37.5/37.5	125.6	28.3	125.6	28.3	-18.4
	Geostationary	13750 14000	63.0/63.0	155.9	42.3	155.9	42.3	-22.7
	Geostationary	14000 14500	7.0/63.0	101.7	5.6	155.8	42.5	14.7

REMOTE CONTROL POINT LOCATION

E61. Call Sign	E66. Phone Number
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.	
E62. Street Address	

E64. Zip Code	
ntry	
u	untry

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

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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THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104–13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.

43. Description. (Summarize the nature of the application and the services to be provided).

Applicant seeks herein (1) to add Estrela do Sul 2 as a point of communication; (2) to authorize Telstar 11N and Estrela do Sul 2 to communicate with previously authorized extended Ku-band frequencies; (3) to expand the frequency coordination satellite arc in the standard Ku-band frequencies for the antenna identified as 15M; (4) to restore ALSAT, which had previously been indicated on its license, as a point of communication for all standard Ku-band frequencies; and (5) to add the SE-125 ESV unit to its license.