Approved by OMB 3060–0678

Date & Time Filed: Jan 7 2020 4:46:08:236PM File Number: SES-MOD-INTR2020-00042

FCC 312 MAIN FORM FOR OFFICIAL USE ONLY	
APPLICANT INFORMATION	

Enter a description of this application to identify it on the main menu: Minor modification for Middletown

1–8. Legal Name of Applicant **Phone Number:** Name: Telesat Network Services, Inc. 613-748-8700 DBA Fax Number: Name: Street: 135 Routes 202/206 E-Mail: eneasmith@telesat.com City: Bedminster State: NJ **Country:** USA Zipcode: 07921 -1538 Attention: Ms Elisabeth Neasmith

Name:	Joseph A. Godles	Phone Number:	202-429-4900
Company:	Goldberg, Godles, Wiener & Wright LLP	Fax Number:	
Street:	1025 Connecticut Ave, NW	E-Mail:	jgodles@g2w2.com
	Ste 1000		
City:	Washington	State:	DC
Country:	USA	Zipcode:	20036-
Attention:		Relationship:	Legal Counsel

CLASSIFICATION OF FILING

17. Choose the button next to the	
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
a1. 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 applicati	on?
• 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	ercial educational licensee
• Other(please explain):	
17d.	
Fee Classification CGX – Fixed Satellite	Transmit/Receive Earth
Station	

18. If this filing is in reference to an existing station, enter:	19. If this filing is an amendment to a pending ap modification please enter only the file number:	pplication enter both fields, if this filing is a
(a) Call sign of station: E160134	(a) Date pending application was filed:	(b) File number: SESMOD2019101501323

TYPE OF SERVICE

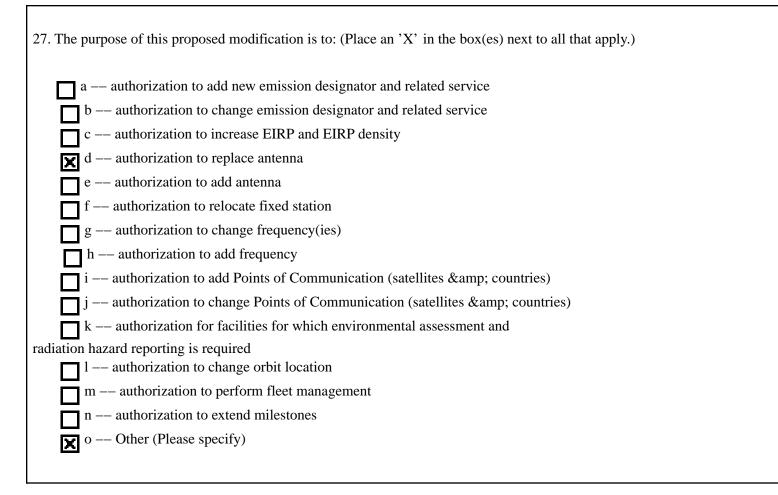
20. NATURE OF SERVICE: This filing is for an authorization to provide	e or use the following type(s) of service(s): Select all that apply:
 a. Fixed Satellite b. Mobile Satellite c. Radiodetermination Satellite d. Earth Exploration Satellite e. Direct to Home Fixed Satellite f. Digital Audio Radio Service 	
g. Other (please specify)	
 21. STATUS: Choose the button next to the applicable status. Choose only one. Common Carrier Non–Common Carrier 	 22. If earth station applicant, check all that apply. Using U.S. licensed satellites Using Non–U.S. licensed satellites
 23. If applicant is providing INTERNATIONAL COMMON CARRIER s facilities: Connected to a Public Switched Network Not connected to a facility of the second sec	ervice, see instructions regarding Sec. 214 filings. Choose one. Are these Public Switched Network N/A

24. FREQUEN	24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all applicable frequency band(s).					
a. C–Band (4	a. C–Band (4/6 GHz) b. Ku–Band (12/14 GHz)					
c.Other (Ple	c.Other (Please specify upper and lower frequencies in MHz.)					
Frequenc	y Lower: 18300	Frequency Upper: 30000	(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
• 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	Ō	Yes	o	No	۲	N/A
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.	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.	● Yes	O No
	Exhibit 1	

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.
 Yes
 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.
 Yes
 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? Isle of Man (UK) & Brazil

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.)

Notification of minor modification of license to replace antenna and correct polarization.

Exhibit 3

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	
• Unincorporated Association	
Partnership	
• Corporation	
Governmental Entity	
Other (please specify)	
45. Name of Person Signing	46. Title of Person Signing
Elisabeth Neasmith	Director, Spectrum Management & Development
>	
	M ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT
	REVOCATION OF ANY STATION AUTHORIZATION R FORFEITURE (U.S. Code, Title 47, Section 503).
(0.5, 0.000, 1.00 + 7, 500000 + 512(0)(1)), 11(D/01)	

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:	1	E5. Call Sign:	E160134			
E2: Contact Name	Todd Sypolt	E6. Phone Number:	540-477-5540			
E3. Street:	8209 Valley Pike	E7. City:	Middletown			
		E8. County:	Fredrick			
E4. State	VA	E9. Zip Code	22645			
E10. Area of Opera	tion:	Fixed				
E11. Latitude:	39 °1 '1.0 "N					
E12. Longitude:	78 °17 '28.8 "W					
E13. Lat/Lon Coord	linates are:	O NAD−27	NAD-83	O N/A		
E14. Site Elevation	(AMSL):	217.92 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 Frequency Coord	0	Ye	es	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	Ye	es	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?FAA Notification FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	0	Ye	es i	۲	No

POINTS OF COMMUNICATION

Satellite Name: TELSTAR 19V TELSTAR 19V 63 W.L. If you select	cted OTHER, please enter the following:
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
POINTS OF COMMUNICATION (Destination Points)	
E25. Site Identifier: 1	

E26. Common Name:	E27. Country: USA

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)
1	Mid 9.2	1	General Dynamics	9.2m Ka	9.2	62.9 dBi at 18.55
1	Mid 9.2	1	General Dynamics	9.2m Ka	9.2	63.5 dBi at 19.95
1	Mid 9.2	1	General Dynamics	9.2m Ka	9.2	65.9 dBi at 28.00
1	Mid 9.2	1	General Dynamics	9.2m Ka	9.2	66.2 dBi at 29.65

Id				Height Above	Input Power at antenna flange	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
Mid 9.2	0.0/0.0	11.2	229.12	0.0	280.0	0.0	91.0

FREQUENCY

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode			E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
Mid 9.2	18300 18800	R	Left and Right Circular	500KG7D	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.)	

	18300 18800	R	Left and Right Circular	56M0G7D	0.0	0.0
E50. Modulationtirety.)	n and Services (If the complete de	escription does not appear	in this box, please	go to the end of	the form to view it in i
lid 9.2	19700 20200	R	Left and Right Circular	500KG7D	0.0	0.0
E50. Modulatio	n and Services (If the complete de	escription does not appear	in this box, please	go to the end of	the form to view it in i
nurely.)						
entirety.) Variable	modulation w	ith a maximu	m of 32 APSK and a	a minimum of	QPSK	

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.)	

1id 9.2	18300 18800	R	Left and Right Circular	112M0G7D	0.0	0.0
E50. Modula ntirety.)	ation and Services	(If the complete d	lescription does not appear	in this box, please	go to the end of	the form to view it in
[id 9.2	19700 20200	R	Left and Right Circular	112M0G7D	0.0	0.0
E50. Modula	20200					
entirety.)	20200 ation and Services	(If the complete d	Circular	in this box, please	go to the end of	
E50. Modula entirety.)	20200 ation and Services	(If the complete d	Circular lescription does not appear	in this box, please	go to the end of	
E50. Modula entirety.)	20200 ation and Services	(If the complete d	Circular lescription does not appear	in this box, please	go to the end of	

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.)	

n and Services (I		scription does not appear	in this box, please	go to the end of t	he form to view it in i
nodulation wi	th a maximum				
20200			5001/070	66.5	45.5
29300 30000		Circular	500KG/D	66.5	45.5
n and Services (1	If the complete de	scription does not appear	in this box, please	go to the end of t	he form to view it in i
nodulation wi	th a maximum	n of 32 APSK and a	a minimum of	QPSK	
	n and Services (1	30000 and Services (If the complete de	30000 Circular and Services (If the complete description does not appear	30000 Circular and Services (If the complete description does not appear in this box, please	30000 Circular

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.)	

Aid 9.2	27600 28600	Т	Left and Right Circular	112M0G7D	90.0	45.5
E50. Modul ntirety.)	ation 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
Variab	le modulation w	ith a maximu	m of 32 APSK and	a minimum of	QPSK	
Variab Mid 9.2	29300 30000	ith a maximu	Left and Right Circular	112M0G7D	90.0	45.5

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)
Mid 9.2	Geostationary	18300 18800	63.0/63.0	156.5	42.1	156.5	42.1	0.0
	Geostationary	19700 20200	63.0/63.0	156.5	42.1	156.5	42.1	0.0
	Geostationary	27600 28600	63.0/63.0	156.5	42.1	156.5	42.1	-32.6
	Geostationary	29300 30000	63.0/63.0	156.5	42.1	156.5	42.1	-32.6

REMOTE CONTROL POINT LOCATION

E61. Call Sign		E66. Phone Number		
NOTE: Please enter the callsign of the contro callsign for which this application is being filed.				
E62. Street Address				
E63. City	E68. County		E67/68. State/Country /	E64. Zip Code

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