Date & Time Filed: Oct 29 2004 11:16:04:303AM File Number: SES-MOD-INTR2004-03023

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:

KA-313 Modification to add 8.1m Vertex

1–8. Lega	Name of Applicant	
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Name: Telenor Satellite, Inc. Phone Number: 301–838–7739

DBA Fax Number: 301–838–7752

Name:

Street: 1101 Wootton Parkway E–Mail: bruce.henoch@telenor—usa.com

10th Floor

City: Rockville State: MD

Country: USA Zipcode: 20852 -

Attention: Mr Bruce A Henoch

9–16. Name of Contact Representative (If other than applicant)

Name: Bruce A. Henoch **Phone Number:** 301-838-7739

Telenor Satellite Services, Inc. Fax Number: Company: 301-838-7752

1101 Wootton Parkway E-Mail: **Street:** bruce.henoch@telenor-usa.com

10th Floor

City: Rockville State: MD

Zipcode: **Country:** USA 20852 -

Relationship: Legal Counsel Contact Assistant General Counsel

Title:

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.

a1. Earth Station

a2. Space Station

(N/A) b1. Application for License of New Station

(N/A) b2. Application for Registration of New Domestic Receive-Only Station

(N/A) b3. Amendment to a Pending Application

(N/A) b4. Modification of License or Registration

b5. Assignment of License or Registration

b6. Transfer of Control of License or Registration

(N/A) 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)

17c. Is a fee submitted with this application of the submitted with the application of the submitted with this application of the submitted with the s	159. If No, indicate reason for fee exemption (se	e 47 C.F.R.Section 1.1114).
17d. Fee Classification CGX – Fixed Satellite Testation	Transmit/Receive Earth	
18. If this filing is in reference to an existing station, enter:(a) Call sign of station: KA313	19. If this filing is an amendment to a pending apmodification please enter only the file number: (a) Date pending application was filed:	oplication enter both fields, if this filing is a (b) File number: SESMOD2003111901678

TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide or use the	e 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)	
	h station applicant, check all that apply.
only one.	g U.S. licensed satellites
Common Carrier Non-Common Carrier Using	g Non–U.S. licensed satellites
23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see facilities:	instructions regarding Sec. 214 filings. Choose one. Are these
Connected to a Public Switched Network Not connected to a Public Switched Network	tched Network N/A
24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all applicable f	requency 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 frequency	ncies 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	
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 & p; countries)
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

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.	Yes No RadHaz Report

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	•	No	0	N/A
30. Is the applicant an alien or the representative of an alien?	0	Yes	•	No	0	N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	0	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?	0	Yes	•	No	٥	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?	● Yes ● No ● 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.	Ownership Statement
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
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

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.	○ 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 descriptions, please go to the end of the form to view it in its entirety.) VSAT hub antenna.	on does not a	ppear in this

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.

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44.	Applicant is a (an): (Choose the button next to applicable response.)	
0	Individual	
0	Unincorporated Association	
0	Partnership	
•	Corporation	
0	Governmental Entity	
Ô	Other (please specify)	
	45. Name of Person Signing	46. Title of Person Signing
	Bruce A. Henoch	Assistant General Counsel
L	>	

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT (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	tation Site			
E1: Site Identifier:	Southbury LES	E5. Call Sign:	KA313	
E2: Contact Name	Guy White	E6. Phone Number:	203-262-5020	
E3. Street:	2120 River Road	E7. City:	Southbury	
		E8. County:	New Haven	
E4. State	CT	E9. Zip Code	06488	
E10. Area of Opera	tion:	Continental U.S.		
E11. Latitude:	41 °27 '6.3 "N			
E12. Longitude:	73 °17 '16.4 "W			
E13. Lat/Lon Coord	dinates are:	O NAD-27	⊚ NAD-83	O N/A
E14. Site Elevation	(AMSL):	36.6 meters		

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two–degree spacing policy.	⊗ Yes	O No	O N/A
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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 by 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	O Yes	•	No
E18. Is frequency coordination required? If YES, attach a frequency coordination	ordination report as	o Yes	•	No
E19. Is coordination with another country required? If YES, attach the a 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 FAZ 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: PERMITTED LIST If you selected OTHER, please	se enter the following:			
E21. Common Name:	E22. ITU Name:			
E23. Orbit Location:	E24. Country:			
POINTS OF COMMUNICATION (Destination Points)				
E25. Site Identifier: Southbury LES				

E26. Common Name: E27. Common Name:	try: USA
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ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer		Size <meters></meters>	E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)
Southbury LES	Vertex 8.1	1	Vertex	KPK	8.1	59.8 dBi at 14.25

- 1	Id	Diameter		,	Height Above Ground Level	Input Power at antenna flange	E39. Maximum Antenna Height Above Rooftop (meters)	EIRP for al
	Vertex 8.1	8.1/8.1	8.23	44.83	0.0	700.0	0.0	88.2

FREQUENCY

	E43/44. Frequency Bands (MHz)				E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
Vertex 8.1	11700 12200	R	Horizontal and Vertical	36M0F8W	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.)

Analog Video		

Vertex 8.1	11700 12200	R	Horizontal and Vertical	100KG7W	0.0	0.0
E50. Modulation entirety.)	and Services (If t	he complete descri	ption does not appear	in this box, please	go to the end of t	the form to view it in its
QPSK Digit	al Data					
Vertex 8.1	11700 12200	R	Horizontal and Vertical	20M0G7W	0.0	0.0
QPSK Digit	al Data					
Vertex 8.1	11700 12200	R	Horizontal and Vertical	2M29G7W	0.0	0.0
E50. Modulation entirety.)	and Services (If t	he complete descri	ption does not appear	in this box, please	go to the end of t	the form to view it in its
QPSK Digit	al Data					

Vertex 8.1	11700 12200	R	Horizontal and Vertical	32K0G7W	0.0	0.0
E50. Modulation entirety.)	and Services (If t	he complete descri	ption does not appear	in this box, please	go to the end of t	the form to view it in its
QPSK Digit	al Data					
Vertex 8.1	11700 12200	R	Horizontal and Vertical	36M0G7W	0.0	0.0
QPSK Digit	al Data					
Vertex 8.1	11700 12200	R	Horizontal and Vertical	42M0G7W	0.0	0.0
E50. Modulation entirety.)	and Services (If t	he complete descri	ption does not appear	in this box, please	go to the end of t	the form to view it in its
QPSK Digit	al Data					

Vertex 8.1	11700 12200	R	Horizontal and Vertical	43K8G7W	0.0	0.0
E50. Modulation entirety.)	and Services (If t	he complete descr	ription does not appear	in this box, please	go to the end of t	the form to view it in its
QPSK Digit	al Data					
Vertex 8.1	11700 12200	R	Horizontal and Vertical	45K0G7W	0.0	0.0
QPSK Digit	al Data					
Vertex 8.1	11700 12200	R	Horizontal and Vertical	72M0G7W	0.0	0.0
E50. Modulation entirety.)	and Services (If t	he complete descr	ription does not appear	in this box, please	go to the end of t	the form to view it in its
QPSK Digit	al Data					

Vertex 8.1	11700 12200	R	Horizontal and Vertical	76K8G7W	0.0	0.0
E50. Modulation entirety.)	and Services (I	f the complete d	escription does not appear	in this box, please	go to the end of t	the form to view it in its
QPSK Digit	al Data					
Vertex 8.1	11700 12200	R	Horizontal and Vertical	9K00G7W	0.0	0.0
QPSK Digit	al Data					
Vertex 8.1	11700 12200	R	Horizontal and Vertical	36M0G7W	0.0	0.0
E50. Modulation entirety.)	and Services (I	f the complete d	escription does not appear	in this box, please	go to the end of t	the form to view it in its
QPSK, Dig	ital Telephon	У				

Vertex 8.1	14000 14500	Т	Horizontal and Vertical	36M0F8W	80.14	46.1
E50. Modulation entirety.)	and Services (If	the complete descript	ion does not appear	in this box, please g	go to the end of the	e form to view it in its
Analog vid	eo					
Vertex 8.1	14000 14500	Т	Horizontal and Vertical	100KG7W	60.07	46.1
QPSK Digit	al Data					
Vertex 8.1	14000 14500	Т	Horizontal and Vertical	20M0G7W	83.08	46.1
E50. Modulation entirety.)	and Services (If	the complete descript	ion does not appear	in this box, please g	go to the end of the	e form to view it in its
QPSK Digit	al Data					

Vertex 8.1	14000 14500	Т	Horizontal and Vertical	2M29G7W	73.67	46.1
E50. Modulation entirety.)	and Services (If	the complete descrip	tion does not appear	in this box, please	go to the end of the	e form to view it in its
QPSK Digit	al Data					
Vertex 8.1	14000 14500	Т	Horizontal and Vertical	32K0G7W	55.13	46.1
QPSK Digit	al Data					
Vertex 8.1	14000 14500	Т	Horizontal and Vertical	36M0G7W	77.23	46.1
E50. Modulation entirety.)	and Services (If	the complete descrip	tion does not appear	in this box, please	go to the end of the	e form to view it in its
QPSK Digit	al Data					

Vertex 8.1	14000 14500	Т	Horizontal and Vertical	42M0G7W	86.31	46.1
E50. Modulation entirety.)	and Services (If the complete de	escription does not appear	in this box, please	go to the end of th	e form to view it in its
QPSK Digit	al Data					
Vertex 8.1	14000 14500	Т	Horizontal and Vertical	43K8G7W	56.49	46.1
entirety.) QPSK Digit	al Data					
Vertex 8.1	14000 14500	Т	Horizontal and Vertical	45K0G7W	56.61	46.1
E50. Modulation entirety.)	and Services (If the complete de	escription does not appear	in this box, please	go to the end of th	e form to view it in its
QPSK Digit	al Data					

Vertex 8.1	14000 14500	Т	Horizontal and Vertical	76K8G7W	58.93	46.1
E50. Modulation entirety.)	and Services (If the complete de	escription does not appear	in this box, please	go to the end of th	e form to view it in its
QPSK Digit	al Data					
Vertex 8.1	14000 14500	Т	Horizontal and Vertical	9K00G7W	49.62	46.1
QPSK Digit	al Data					
Vertex 8.1	14000 14500	Т	Horizontal and Vertical	72M0G7W	88.55	46.1
E50. Modulation entirety.)	and Services (If the complete de	escription does not appear	in this box, please	go to the end of th	e form to view it in its
QPSK, Digi	tal Data					

Vertex 8.1	14000 14500	Т	Horizontal and Vertical	36M0G7W	72.0	46.1
E50. Modulation entirety.)	and Services (If t	the complete descrip	ption does not appear	in this box, please	go to the end of the	he form to view it in its
QPSK, Digi	tal Telephony					
Vertex 8.1	11700 12200	R	Horizontal and Vertical	1M60G1F	0.0	0.0
PSK Digita	al Video with .	Associated Dig	gital Audio			
Vertex 8.1	11700 12200	R	Horizontal and Vertical	200KG1F	0.0	0.0
E50. Modulation entirety.)	and Services (If t	the complete descrip	ption does not appear	in this box, please	go to the end of the	he form to view it in its
PSK Digita	al Video with .	Associated Dig	gital Audio			

Vertex 8.1	11700 12200	R	Horizontal and Vertical	400KG1F	0.0	0.0
E50. Modulation entirety.)	and Services (If the complete de	escription does not appear	in this box, please	go to the end of th	ne form to view it in its
PSK Digita	al Video with	n Associated	Digital Audio			
Vertex 8.1	11700 12200	R	Horizontal and Vertical	800KG1F	0.0	0.0
PSK Digita	al video witi	1 Associated	Digital Audio			
Vertex 8.1	14000 14500	T	Horizontal and Vertical	1M60G1F	72.12	46.1
E50. Modulation entirety.) PSK Digita			escription does not appear Digital Audio	in this box, please	go to the end of the	ne form to view it in its

Cription does not appear Digital Audio Horizontal and Vertical Cription does not appear	400KG1F	66.1	46.1
Horizontal and Vertical			
Vertical			
cription does not appear	in this box, please	go to the end of th	e form to view it in its
Horizontal and Vertical	800KG1F	69.11	46.1
cription does not appear	in this box, please	go to the end of th	ne form to view it in its
Digital Audio			
	Vertical cription does not appear	Horizontal and Vertical 800KG1F cription does not appear in this box, please	Horizontal and Vertical 800KG1F 69.11 cription does not appear in this box, please go to the end of the

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	Satellite Arc Eastern/West	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	Station Azimuth Angle	Antenna Elevation	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
Vertex 8.1	Geostationary	11700 12200	3.0/112.0	103.3	6.0	230.0	27.0	0.0
	Geostationary	14000 14500	3.0/112.0	103.3	6.0	230.0	27.0	9.03

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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