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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:

Modification to authorize up to 550 Ku-band terminals for ESV operation via Santa Paula Teleport (E930320)

1-8. Legal Name of Applicant

<b>Name:</b>	Telenor Satellite, Inc.	<b>Phone Number:</b>	301-838-7860
<b>DBA Name:</b>		<b>Fax Number:</b>	301-838-7752
<b>Street:</b>	1101 Wootton Parkway 10th Floor	<b>E-Mail:</b>	keith.fagan@telenor-usa.com
<b>City:</b>	Rockville	<b>State:</b>	MD
<b>Country:</b>	USA	<b>Zipcode:</b>	20852 -
<b>Attention:</b>	Keith H Fagan		

9-16. Name of Contact Representative

<b>Name:</b>	Telenor Satellite, Inc.	<b>Phone Number:</b>	301-838-7860
<b>Company:</b>		<b>Fax Number:</b>	301-838-7752
<b>Street:</b>	1101 Wootton Parkway 10th Floor	<b>E-Mail:</b>	keith.fagan@telenor-usa.com
<b>City:</b>	Rockville	<b>State:</b>	MD
<b>Country:</b>	USA	<b>Zipcode:</b>	20852-
<b>Attention:</b>	Keith H Fagan	<b>Relationship:</b>	

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
- b3. Amendment to a Pending Application
- 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

<p>17c. Is a fee submitted with this application?</p> <p><input type="radio"/> If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).</p> <p><input type="radio"/> Governmental Entity    <input type="radio"/> Noncommercial educational licensee</p> <p><input checked="" type="radio"/> Other(please explain):    Refile</p>	
<p>17d.</p> <p>Fee Classification    CGV – Fixed Satellite VSAT System</p>	
<p>18. If this filing is in reference to an existing station, enter:</p> <p>(a) Call sign of station: E930320</p>	<p>19. If this filing is an amendment to a pending application enter both fields, if this filing is a modification please enter only the file number:</p> <p>(a) Date pending application was filed:</p> <p>(b) File number: SESMOD2003060900753</p>

**TYPE OF SERVICE**

<p><b>20. NATURE OF SERVICE:</b> This filing is for an authorization to provide or use the following type(s) of service(s): Select all that apply:</p> <p> <input checked="" type="checkbox"/> a. Fixed Satellite  <input type="checkbox"/> b. Mobile Satellite  <input type="checkbox"/> c. Radiodetermination Satellite  <input type="checkbox"/> d. Earth Exploration Satellite  <input type="checkbox"/> e. Direct to Home Fixed Satellite  <input type="checkbox"/> f. Digital Audio Radio Service  <input checked="" type="checkbox"/> g. Other (please specify)                      <b>ESV</b> </p>	
<p><b>21. STATUS:</b> Choose the button next to the applicable status. Choose only one.</p> <p> <input checked="" type="radio"/> Common Carrier      <input type="radio"/> Non-Common Carrier                 </p>	<p><b>22. If earth station applicant, check all that apply.</b></p> <p> <input checked="" type="checkbox"/> Using U.S. licensed satellites  <input type="checkbox"/> Using Non-U.S. licensed satellites                 </p>
<p><b>23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Choose one. Are these facilities:</b></p> <p> <input checked="" type="radio"/> Connected to a Public Switched Network      <input type="radio"/> Not connected to a Public Switched Network      <input type="radio"/> N/A                 </p>	
<p><b>24. FREQUENCY BAND(S):</b> Place an 'X' in the box(es) next to all applicable frequency band(s).</p> <p> <input type="checkbox"/> a. C-Band (4/6 GHz)      <input checked="" type="checkbox"/> b. Ku-Band (12/14 GHz)  <input type="checkbox"/> c. Other (Please specify upper and lower frequencies in MHz.)                      Frequency Lower:      Frequency Upper: (Please specify additional frequencies in an attachment)                 </p>	

## 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)      ESV

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 & countries)
- j -- authorization to change Points of Communication (satellites & countries)
- k -- authorization for facilities for which environmental assessment and radiation hazard reporting is required
- l -- authorization to change orbit location
- m -- authorization to perform fleet management
- n -- authorization to extend milestones
- o -- Other (Please specify)

ENVIRONMENTAL POLICY

<p>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.</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p> <p>RadHaz Reports</p>
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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.

<p>29. Is the applicant a foreign government or the representative of any foreign government?</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p>
<p>30. Is the applicant an alien or the representative of an alien?</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> N/A</p>
<p>31. Is the applicant a corporation organized under the laws of any foreign government?</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> N/A</p>
<p>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?</p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> N/A</p>

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

Waiver Request

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 explanation of circumstances.

Yes  No

ESV Compliance



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 explanation of circumstances.

Yes  No

Blaney Declaration

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

Varan Declaration

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 exhibit, an explanation of the circumstances.

Yes  No

ESV Compl Figs 1–14

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.

ESV Compl Figs 15–20

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?

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.)

By this application, Telenor Satellite, Inc. ('TSI') seeks authority to authorize up to 550 Ku-band terminals for ESV operation via its Santa Paula, CA teleport, call sign E930320. These terminals, all with Sea-Tel antennas, will be located on vessels traveling in U.S. and international waters and will operate with a hub antenna at Santa Paula that

**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.)

- Individual
- Unincorporated Association
- Partnership
- Corporation
- Governmental Entity
- Other (please specify)

45. Name of Person Signing Keith H Fagan	46. Title of Person Signing Senior Counsel
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**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 Station Site

E1: Site Identifier:	Ku-band ESV Remotes	E5. Call Sign:	E930320
E2: Contact Name	Mike Whiteford	E6. Phone Number:	805-933-4000
E3. Street:		E7. City:	
E4. State		E8. County:	
E10. Area of Operation:		E9. Zip Code	
		U.S. and international waters	
E11. Latitude:	0 °0 '0.0 "		
E12. Longitude:	0 °0 '0.0 "		
E13. Lat/Lon Coordinates are:	<input type="radio"/> NAD-27	<input checked="" type="radio"/> NAD-83	<input type="radio"/> N/A
E14. Site Elevation (AMSL):	0.0 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    No    N/A

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?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input checked="" type="radio"/> Yes <input type="radio"/> No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
<p>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?</p> <p><b>FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.</b></p>	<input type="radio"/> Yes <input checked="" type="radio"/> No

**POINTS OF COMMUNICATION**

Satellite Name: SATMEX-5   SATMEX-5   116.8 W.L.    If 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:
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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:

**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>	E41/42. Antenna Gain Transmint and/or Recieve (___ dBi at ___ GHz)	
Ku-band ESV Remotes	4003A	250	SeaTel	4003A	1.0	40.1 dBi at 11.95	
Ku-band ESV Remotes	4003A	250	SeaTel	4003A	1.0	41.8 dBi at 14.25	
Ku-band ESV Remotes	4006	250	SeaTel	4006	1.0	40.1 dBi at 11.95	
Ku-band ESV Remotes	4006	250	SeaTel	4006	1.0	41.8 dBi at 14.25	
Ku-band ESV Remotes	4996T	50	SeaTel	4996T	1.2	41.65 dBi at 11.95	

Ku-band ESV Remotes	4996T	50	SeaTel	4996T	1.2	42.55 dBi at 14.25	
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<b>E28. Antenna Id</b>	<b>E33/34. Diameter Minor/Major (meters)</b>	<b>E35. Above Ground Level (meters)</b>	<b>E36. Above Sea Level(meters)</b>	<b>E37. Building Height Above Ground Level (meters)</b>	<b>E38. Total Input Power at antenna flange (Watts)</b>	<b>E39. Maximum Antenna Height Above Rooftop (meters)</b>	<b>E40. Total EIRP for all carriers(dBW)</b>
4003A	1.0/1.0	0.0	0.0	0.0	2.5	0.0	45.8
4006	1.0/1.0	0.0	0.0	0.0	3.6	0.0	47.4
4996T	1.2/1.2	0.0	0.0	0.0	7.1	0.0	51.1

**FREQUENCY**

<b>E28. Antenna Id</b>	<b>E43/44. Frequency Bands (MHz)</b>	<b>E45. T/R&lt;br&gt;Mode</b>	<b>E46. Antenna Polarization(H,V, L,R)</b>	<b>E47. Emission Designator</b>	<b>E48. Maximum EIRP per Carrier (dBW)</b>	<b>E49. Maximum EIRP Density per Carrier (dBW/4kHz)</b>
4003A	10950 11200	R	Horizontal and Vertical	44K8G1W	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.)

SCPC using QPSK and BPSK modulation

4003A	10950 11200	R	Horizontal and Vertical	717KG1W	0.0	0.0
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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.)						
SCPC using QPSK and BPSK modulation						
4003A	10950 11200	R	Horizontal and Vertical	89K6G1W	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.)						
SCPC using QPSK and BPSK modulation						
4003A	11450 12200	R	Horizontal and Vertical	44K8G1W	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.)						
SCPC using QPSK and BPSK modulation						
4003A	11450 12200	R	Horizontal and Vertical	717KG1W	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.)						
SCPC using QPSK and BPSK modulation						
4003A	11450 12200	R	Horizontal and Vertical	89K6G1W	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.)						
SCPC using QPSK and BPSK modulation						
4003A	14000 14500	T	Horizontal and Vertical	44K8G1W	34.4	23.9
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.)						
SCPC using QPSK and BPSK modulation						
4003A	14000 14500	T	Horizontal and Vertical	538KG1W	45.2	23.9

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.)						
SCPC using QPSK and BPSK modulation						
4003A	14000 14500	T	Horizontal and Vertical	89K6G1W	37.4	23.9
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.)						
SCPC using QPSK and BPSK modulation						
4003A	10950 11200	R	Horizontal and Vertical	54M0G7W	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.)						
TDM/TDMA using QPSK and BPSK modulation						
4003A	11450 12200	R	Horizontal and Vertical	151KG7W	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.)						
TDM/TDMA using QPSK and BPSK modulation						
4003A	11450 12200	R	Horizontal and Vertical	54M0G7W	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.)						
TDM/TDMA using QPSK and BPSK modulation						
4003A	14000 14500	T	Horizontal and Vertical	227KG7W	41.5	23.9
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.)						
TDM/TDMA using QPSK and BPSK modulation						
4003A	14000 14500	T	Horizontal and Vertical	340KG7W	43.2	23.9

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.)						
TDM/TDMA using QPSK and BPSK modulation						
4003A	14000 14500	T	Horizontal and Vertical	378KG7W	43.6	23.9
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.)						
TDM/TDMA using QPSK and BPSK modulation						
4003A	14000 14500	T	Horizontal and Vertical	454KG7W	44.5	23.9
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.)						
TDM/TDMA using QPSK and BPSK modulation						
4003A	14000 14500	T	Horizontal and Vertical	908KG7W	45.8	22.2

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.)						
TDM/TDMA using QPSK and BPSK modulation						
4003A	10950 11200	R	Horizontal and Vertical	151 KG7W	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.)						
TDM/TDMA using QPSK and BPSK modulation						
4003A	10950 11200	R	Horizontal and Vertical	2M60G7W	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.)						
DVB/MFTDMA using QPSK and BPSK modulation						
4003A	10950 11200	R	Horizontal and Vertical	54M0G7W	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.)						
DVB/MF-TDMA using QPSK and BPSK modulation						
4003A	11450 12200	R	Horizontal and Vertical	2M60G7W	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.)						
DVB/MF-TDMA using QPSK and BPSK modulation						
4003A	11450 12200	R	Horizontal and Vertical	54M0G7W	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.)						
DVB/MF-TDMA using QPSK and BPSK modulation						
4003A	14000 14500	T	Horizontal and Vertical	1M40G7W	45.8	20.3

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.)						
DVB/MFTDMA using QPSK and BPSK modulation						
4003A	14000 14500	T	Horizontal and Vertical	316KG7W	42.8	23.9
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.)						
DVB/MFTDMA using QPSK and BPSK modulation						
4003A	14000 14500	T	Horizontal and Vertical	607KG7W	45.7	23.9
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.)						
DVB/MFTDMA using QPSK and BPSK modulation						
4006	10950 11200	R	Horizontal and Vertical	44K8G1W	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.)						
SCPC using QPSK and BPSK modulation						
4006	10950 11200	R	Horizontal and Vertical	717KG1W	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.)						
SCPC using QPSK and BPSK modulation						
4006	10950 11200	R	Horizontal and Vertical	89K6G1W	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.)						
SCPC using QPSK and BPSK modulation						
4006	11450 12200	R	Horizontal and Vertical	44K8G1W	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.)						
SCPC using QPSK and BPSK modulation						
4006	11450 12200	R	Horizontal and Vertical	717KG1W	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.)						
SCPC using QPSK and BPSK modulation						
4006	11450 12200	R	Horizontal and Vertical	89K6G1W	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.)						
SCPC using QPSK and BPSK modulation						
4006	14000 14500	T	Horizontal and Vertical	44K8G1W	34.4	23.9

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.)						
SCPC using QPSK and BPSK modulation						
4006	14000 14500	T	Horizontal and Vertical	717KG1W	46.4	23.9
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.)						
SCPC using QPSK and BPSK modulation						
4006	14000 14500	T	Horizontal and Vertical	89K6G1W	37.4	23.9
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.)						
SCPC using QPSK and BPSK modulation						
4006	10950 11200	R	Horizontal and Vertical	151KG7W	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.)

TDM/TDMA using QPSK and BPSK modulation

4006	10950 11200	R	Horizontal and Vertical	54M0G7W	0.0	0.0
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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.)

TDM/TDMA using QPSK and BPSK modulation

4006	11450 12200	R	Horizontal and Vertical	151KG7W	0.0	0.0
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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.)

TDM/TDMA using QPSK and BPSK modulation

4006	11450 12200	R	Horizontal and Vertical	54M0G7W	0.0	0.0
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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.)						
TDM/TDMA using QPSK and BPSK modulation						
4006	14000 14500	T	Horizontal and Vertical	227KG7W	41.5	23.9
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.)						
TDM/TDMA using QPSK and BPSK modulation						
4006	14000 14500	T	Horizontal and Vertical	340KG7W	43.2	23.9
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.)						
TDM/TDMA using QPSK and BPSK modulation						
4006	14000 14500	T	Horizontal and Vertical	378KG7W	43.6	23.9

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.)						
TDM/TDMA using QPSK and BPSK modulation						
4006	14000 14500	T	Horizontal and Vertical	454KG7W	44.5	23.9
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.)						
TDM/TDMA using QPSK and BPSK modulation						
4006	14000 14500	T	Horizontal and Vertical	908KG7W	47.4	23.8
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.)						
TDM/TDMA using QPSK and BPSK modulation						
4006	10950 11200	R	Horizontal and Vertical	2M60G7W	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.)						
DVB/MF-TDMA using QPSK and BPSK modulation						
4006	10950 11200	R	Horizontal and Vertical	54M0G7W	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.)						
DVB/MF-TDMA using QPSK and BPSK modulation						
4006	11450 12200	R	Horizontal and Vertical	2M60G7W	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.)						
DVB/MF-TDMA using QPSK and BPSK modulation						
4006	11450 12200	R	Horizontal and Vertical	54M0G7W	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.)						
DVB/MF-TDMA using QPSK and BPSK modulation						
4006	14000 14500	T	Horizontal and Vertical	1M40G7W	47.4	21.9
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.)						
DVB/MF-TDMA using QPSK and BPSK modulation						
4006	14000 14500	T	Horizontal and Vertical	316KG7W	42.8	23.9
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.)						
DVB/MF-TDMA using QPSK and BPSK modulation						
4006	14000 14500	T	Horizontal and Vertical	607KG7W	45.7	23.9

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.)						
DVB/MF-TDMA using QPSK and BPSK modulation						
4996T	10950 11200	R	Horizontal and Vertical	1M43G1W	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.)						
SCPC using QPSK and BPSK modulation						
4996T	10950 11200	R	Horizontal and Vertical	44K8G1W	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.)						
SCPC using QPSK and BPSK modulation						
4996T	10950 11200	R	Horizontal and Vertical	717KG1W	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.)						
SCPC using QPSK and BPSK modulation						
4996T	10950 11200	R	Horizontal and Vertical	89K6G1W	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.)						
SCPC using QPSK and BPSK modulation						
4996T	11450 12200	R	Horizontal and Vertical	1M43G1W	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.)						
SCPC using QPSK and BPSK modulation						
4996T	11450 12200	R	Horizontal and Vertical	44K8G1W	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.)						
SCPC using QPSK and BPSK modulation						
4996T	11450 12200	R	Horizontal and Vertical	717KG1W	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.)						
SCPC using QPSK and BPSK modulation						
4996T	11450 12200	R	Horizontal and Vertical	89K6G1W	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.)						
SCPC using QPSK and BPSK modulation						
4996T	14000 14500	T	Horizontal and Vertical	1M43G1W	51.1	26.6

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.)						
SCPC using QPSK and BPSK modulation						
4996T	14000 14500	T	Horizontal and Vertical	44K8G1W	36.1	25.6
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.)						
SCPC using QPSK and BPSK modulation						
4996T	14000 14500	T	Horizontal and Vertical	717KG1W	48.1	25.6
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.)						
SCPC using QPSK and BPSK modulation						
4996T	14000 14500	T	Horizontal and Vertical	89K6G1W	39.1	25.6

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.)

SCPC using QPSK and BPSK modulation

**FREQUENCY COORDINATION**

<b>E28. Antenna Id</b>	<b>E51. Satellite Orbit Type</b>	<b>E52/53. Frequency Limits(MHz)</b>	<b>E54/55. Range of Satellite Arc Eastern/Western Limit</b>	<b>E56. Earth Station Azimuth Angle Eastern Limit</b>	<b>E57. Antenna Elevation Angle Eastern Limit</b>	<b>E58. Earth Station Azimuth Angle Western Limit</b>	<b>E59. Antenna Elevation Angle Western Limit</b>	<b>E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)</b>
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**REMOTE CONTROL POINT LOCATION**

E61. Call Sign E930320 NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.		E66. Phone Number 805-933-4000	
E62. Street Address 7676 Pine Grove Road			
E63. City Santa Paula	E68. County Ventura	E67/68. State/Country CA/ USA	E64. Zip Code 93060

**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 [jboley@fcc.gov](mailto:jboley@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).**

By this application, Telenor Satellite, Inc. ('TSI') seeks authority to authorize up to 550 Ku-band terminals for ESV operation via its Santa Paula, CA teleport, call sign E930320. These terminals, all with Sea-Tel antennas, will be located on vessels traveling in U.S. and international waters and will operate with a hub antenna at Santa Paula that has already been licensed by the Commission. See File No. SES-MOD-20030609-00753, granted July 23, 2003. TSI seeks ALSAT authority for ESV operations in the standard Ku-band and satellite-specific authority (for the Satmex-5 satellite) for operations in the extended Ku-band. As set forth in the attachments, TSI also seeks a limited waiver of two sections of the Commission's Rules, Sections 25.222(a)(7) and 25.222(c)(1). In all other respects, the operations described in this application will be in full compliance with the requirements set forth in the Commission's ESV Order, 20 FCC Rcd 674 (2005), and in Part 25 of the Rules.