

Date & Time Filed: Sep 4 2003 2:49:28:663PM  
File Number: SES-LIC-INTR2003-01760  
Callsign/Satellite ID:

APPLICATION FOR EARTH STATION AUTHORIZATIONS	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:  
Application to relicense recently expired E5401

1-8. Legal Name of Applicant			
<b>Name:</b>	Norlight Telecommunications, Inc.	<b>Phone Number:</b>	262-792-9700
<b>DBA Name:</b>		<b>Fax Number:</b>	
<b>Street:</b>	13935 Bishops Drive	<b>E-Mail:</b>	jaf@norlight.com
<b>City:</b>	Brookfield	<b>State:</b>	WI
<b>Country:</b>	USA	<b>Zipcode:</b>	53005 -
<b>Attention:</b>	Jeff Fortney		

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

<b>Name:</b>	Karis A. Hastings	<b>Phone Number:</b>	202-637-5767
<b>Company:</b>	Hogan & Hartson L.L.P.	<b>Fax Number:</b>	202-637-5910
<b>Street:</b>	555 Thirteenth Street, NW	<b>E-Mail:</b>	KAHastings@HHLaw.com
<b>City:</b>	Washington	<b>State:</b>	DC
<b>Country:</b>	USA	<b>Zipcode:</b>	20004-1109
<b>Contact Title:</b>		<b>Relationship:</b>	Legal Counsel

CLASSIFICATION OF FILING

17. Choose the button next to the classification that applies to this filing for both questions a. and b. Choose only one for 17a and only one for 17b.

a.

- a1. Earth Station  
(N/A) a2. Space Station

b.

- b1. Application for License of New Station  
 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  
(N/A) b5. Assignment of License or Registration  
(N/A) 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  
 b10. Other (Please specify)  
 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.

<p>17c. Is a fee submitted with this application?</p> <p><input checked="" 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 type="radio"/> Other (please explain):</p>	
<p>17d.</p> <p>Fee Classification BAX – Fixed Satellite Transmit/Receive Earth Station</p>	
<p>18. If this filing is in reference to an existing station, enter:</p> <p>(a) Call sign of station: Not Applicable</p>	<p>19. If this filing is an amendment to a pending application enter:</p> <p>(a) Date pending application was filed:                      (b) File number of pending application:</p> <p>Not Applicable    Not Applicable</p>

**TYPE OF SERVICE**

<p>20. NATURE OF SERVICE: 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</p> <p><input type="checkbox"/> b. Mobile Satellite</p> <p><input type="checkbox"/> c. Radiodetermination Satellite</p> <p><input type="checkbox"/> d. Earth Exploration Satellite</p> <p><input type="checkbox"/> e. Direct to Home Fixed Satellite</p> <p><input type="checkbox"/> f. Digital Audio Radio Service</p> <p><input type="checkbox"/> g. Other (please specify)</p>
---

<p>21. STATUS: Choose the button next to the applicable status. Choose only one.</p> <p><input type="radio"/> Common Carrier    <input checked="" type="radio"/> Non-Common Carrier</p>	<p>22. If earth station applicant, check all that apply.</p> <p><input checked="" type="checkbox"/> Using U.S. licensed satellites</p> <p><input type="checkbox"/> Using Non-U.S. licensed satellites</p>
<p>23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Choose one. Are these facilities:</p> <p><input type="radio"/> Connected to a Public Switched Network    <input type="radio"/> Not connected to a Public Switched Network    <input checked="" type="radio"/> N/A</p>	
<p>24. FREQUENCY BAND(S): Place an "X" in the box(es) next to all applicable frequency band(s).</p> <p><input checked="" type="checkbox"/> a. C-Band (4/6 GHz)    <input type="checkbox"/> b. Ku-Band (12/14 GHz)</p> <p><input type="checkbox"/> c. Other (Please specify upper and lower frequencies in MHz.)</p> <p>Frequency Lower:    Frequency Upper:</p>	

#### TYPE OF STATION

<p>25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one.</p> <p><input checked="" type="radio"/> a. Fixed Earth Station</p> <p><input type="radio"/> b. Temporary-Fixed Earth Station</p> <p><input type="radio"/> c. 12/14 GHz VSAT Network</p> <p><input type="radio"/> d. Mobile Earth Station</p> <p>(N/A) e. Geostationary Space Station</p> <p>(N/A) f. Non-Geostationary Space Station</p> <p><input type="radio"/> g. Other (please specify)</p>
<p>26. TYPE OF EARTH STATION FACILITY: Choose only one.</p> <p><input checked="" type="radio"/> Transmit/Receive    <input type="radio"/> Transmit-Only    <input type="radio"/> Receive-Only    <input type="radio"/> N/A</p>

PURPOSE OF MODIFICATION

27. The purpose of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.)

Not Applicable

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

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?

Yes  No  N/A

30. Is the applicant an alien or the representative of an alien?

Yes  No  N/A

31. Is the applicant a corporation organized under the laws of any foreign government?

Yes  No  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?

Yes  No  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.

#### 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

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

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?N/A

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.)

Norlight Telecommunications, Inc. (Norlight) seeks a license to operate a Domestic Satellite Fixed Earth Station that will be used in the provision of video services. Please note that Norlight has been using an earth station identical to the one proposed herein (Call Sign E5401) pursuant to authority granted in File No. SES-MOD-20020311-00305.

Freq. Ex.

#### 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  
Richard W. Kelnhofer

46. Title of Person Signing  
Director of Engineering

47. Please supply any need attachments.

Attachment 1:

Attachment 2:

Attachment 3:

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:	1	E5. Call Sign:	E5401
E2. Contact Name	Jeff Fortney	E6. Phone Number:	262-792-9700
E3. Street:	3617 Oakton Street	E7. City:	Skokie
		E8. County:	COOK
E4. State	IL	E9. Zip Code	60076
E10. Area of Operation:	Illinois		
E11. Latitude:	42 °0 '28.0 "N		
E12. Longitude:	87 °3 '7.0 "W		
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):	179.8 meters		

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

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

**POINTS OF COMMUNICATION**

<p>Satellite Name: PERMITTED LIST   If you selected OTHER, please enter the following:</p>
--

E21. Common Name: ALSAT	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>	E41/42. Antenna GainTransmint and/or Recieve (____ dBi at ____ GHz)
1	1	1	Scientific Atlanta	8113A	10.0	51.0 dBi at 4.0000
						54.0 dBi at 6.0000
	2			8010C	7.0	47.7 dBi at 4.0000
						51.1 dBi at 6.0000

E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level  (meters)	E36. Above Sea Level  (meters)	E37. Building Height Above Ground Level  (meters)	E38. Total Input Power at antenna flange  (Watts)	E39. Maximum Antenna Height Above Rooftop  (meters)	E40. Total EIRP for al carriers  (dBW)
1	0.0/0.0	11.0	190.8	0.0	15211.0	0.0	95.82
2	0.0/0.0	8.0	187.8	0.0	13057.0	0.0	92.26

FREQUENCY

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V,L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
1	3700.0 4200.0	R	Horizontal and Vertical	36M0F8W	0.0	0.0
<p>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.)</p> <div data-bbox="254 561 1856 735" style="border: 1px solid black; padding: 5px;">                     NULL                 </div>						
1	3700.0 4200.0	T	Horizontal and Vertical	36M0F8W	0.0	0.0
<p>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.)</p> <div data-bbox="254 951 1856 1125" style="border: 1px solid black; padding: 5px;">                     NULL                 </div>						
1	3700.0 4200.0	R	Horizontal and Vertical	36M0G1D	0.0	0.0

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

Digital Data

1	3700.0 4200.0	R	Horizontal and Vertical	36M0G2D	0.0	0.0
---	------------------	---	----------------------------	---------	-----	-----

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

Digital Data

1	3700.0 4200.0	R	Horizontal and Vertical	36M0G7D	0.0	0.0
---	------------------	---	----------------------------	---------	-----	-----

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

Digital Data

1	3700.0 4200.0	R	Horizontal and Vertical	36M0G8D	0.0	0.0
---	------------------	---	----------------------------	---------	-----	-----

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

Digital Data

1	3700.0 4200.0	R	Horizontal and Vertical	36M0G9D	0.0	0.0
---	------------------	---	----------------------------	---------	-----	-----

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

Digital Data

1	3700.0 4200.0	R	Horizontal and Vertical	43K8G1D	0.0	0.0
---	------------------	---	----------------------------	---------	-----	-----

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

Digital Data

1	3700.0 4200.0	R	Horizontal and Vertical	43K8G2D	0.0	0.0
---	------------------	---	----------------------------	---------	-----	-----

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

Digital Data

1	3700.0 4200.0	R	Horizontal and Vertical	43K8G3D	0.0	0.0
---	------------------	---	----------------------------	---------	-----	-----

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

Digital Data

1	3700.0 4200.0	R	Horizontal and Vertical	43K8G7D	0.0	0.0
---	------------------	---	----------------------------	---------	-----	-----

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

Digital Data

1	3700.0 4200.0	R	Horizontal and Vertical	43K8G8D	0.0	0.0
---	------------------	---	----------------------------	---------	-----	-----

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Data						
1	3700.0 4200.0	R	Horizontal and Vertical	43K8G9D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Data						
1	3700.0 4200.0	R	Horizontal and Vertical	36M0G1F	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Video						
1	3700.0 4200.0	R	Horizontal and Vertical	36M0G2F	0.0	0.0

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

Digital Video

1	3700.0 4200.0	R	Horizontal and Vertical	36M0G3F	0.0	0.0
---	------------------	---	----------------------------	---------	-----	-----

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

Digital Video

1	3700.0 4200.0	R	Horizontal and Vertical	36M0G7F	0.0	0.0
---	------------------	---	----------------------------	---------	-----	-----

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

Digital Video

1	3700.0 4200.0	R	Horizontal and Vertical	36M0G8F	0.0	0.0
---	------------------	---	----------------------------	---------	-----	-----

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

Digital Video

1	3700.0 4200.0	R	Horizontal and Vertical	36M0G9F	0.0	0.0
---	------------------	---	----------------------------	---------	-----	-----

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

Digital Video

1	3700.0 4200.0	R	Horizontal and Vertical	43K8G1F	0.0	0.0
---	------------------	---	----------------------------	---------	-----	-----

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

Digital Video

1	3700.0 4200.0	R	Horizontal and Vertical	43K8G2F	0.0	0.0
---	------------------	---	----------------------------	---------	-----	-----

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Video						
1	3700.0 4200.0	R	Horizontal and Vertical	43K8G3F	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Video						
1	3700.0 4200.0	R	Horizontal and Vertical	43K8G7F	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Video						
1	3700.0 4200.0	R	Horizontal and Vertical	43K8G8F	0.0	0.0

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Video						
1	3700.0 4200.0	R	Horizontal and Vertical	43K8G9F	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Video						
1	3700.0 4200.0	R	Horizontal and Vertical	36M0G3D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Carriers						
1	5925.0 6425.0	T	Horizontal and Vertical	36M0F8W	77.6	50.6

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.)

NULL

1	5925.0 6425.0	T	Horizontal and Vertical	36M0F8W	88.5	61.5
---	------------------	---	----------------------------	---------	------	------

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.)

NULL

1	3700.0 4200.0	R	Horizontal and Vertical	36M0G1E	0.0	0.0
---	------------------	---	----------------------------	---------	-----	-----

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

Digital Telephony

1	3700.0 4200.0	R	Horizontal and Vertical	36M0G2E	0.0	0.0
---	------------------	---	----------------------------	---------	-----	-----

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Telephony						
1	3700.0 4200.0	R	Horizontal and Vertical	36M0G3E	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Telephony						
1	3700.0 4200.0	R	Horizontal and Vertical	36M0G7E	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Telephony						
1	3700.0 4200.0	R	Horizontal and Vertical	36M0G8E	0.0	0.0

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Telephony						
1	3700.0 4200.0	R	Horizontal and Vertical	36M0G9E	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Telephony						
1	3700.0 4200.0	R	Horizontal and Vertical	43K8G1E	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Telephony						
1	3700.0 4200.0	R	Horizontal and Vertical	43K8G2E	0.0	0.0

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

Digital Telephony

1	3700.0 4200.0	R	Horizontal and Vertical	43K8G3E	0.0	0.0
---	------------------	---	----------------------------	---------	-----	-----

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

Digital Telephony

1	3700.0 4200.0	R	Horizontal and Vertical	43K8G7E	0.0	0.0
---	------------------	---	----------------------------	---------	-----	-----

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

Digital Telephony

1	3700.0 4200.0	R	Horizontal and Vertical	43K8G8E	0.0	0.0
---	------------------	---	----------------------------	---------	-----	-----

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)							
Digital Telephony							
1	3700.0 4200.0	R	Horizontal and Vertical	43K8G9E	0.0	0.0	
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)							
Digital Telephony							
1	5925 6425	T	Horizontal and Vertical	36M0G2F	81.0	41.4	
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)							
Digital Data							
1	5925.0 6425.0	T	Horizontal and Vertical	36M0G1D	81.0	41.4	

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

Digital Data

1	5925.0 6425.0	T	Horizontal and Vertical	36M0G2D	81.0	41.4
---	------------------	---	----------------------------	---------	------	------

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

Digital Data

1	5925.0 6425.0	T	Horizontal and Vertical	36M0G7D	81.0	41.4
---	------------------	---	----------------------------	---------	------	------

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

Digital Data

1	5925.0 6425.0	T	Horizontal and Vertical	36M0G8D	81.0	41.4
---	------------------	---	----------------------------	---------	------	------

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Data						
1	5925.0 6425.0	T	Horizontal and Vertical	36M0G9D	81.0	41.4
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Data						
1	5925.0 6425.0	T	Horizontal and Vertical	43K8G1D	61.7	51.3
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.)						
Digital Data						
1	5925.0 6425.0	T	Horizontal and Vertical	43K8G2D	61.7	51.3

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.)

Digital Data

1	5925.0 6425.0	T	Horizontal and Vertical	43K8G3D	61.7	51.3
---	------------------	---	----------------------------	---------	------	------

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.)

Digital Data

1	5925.0 6425.0	T	Horizontal and Vertical	43K8G7D	61.7	51.3
---	------------------	---	----------------------------	---------	------	------

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.)

Digital Data

1	5925.0 6425.0	T	Horizontal and Vertical	43K8G8D	61.7	51.3
---	------------------	---	----------------------------	---------	------	------

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.)						
Digital Data						
1	5925.0 6425.0	T	Horizontal and Vertical	36M0G1F	81.0	41.4
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Video						
1	5925.0 6425.0	T	Horizontal and Vertical	36M0G2D	81.0	41.4
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Video						
1	5925.0 6425.0	T	Horizontal and Vertical	36M0G3F	81.0	41.4

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

Digital Video

1	5925.0 6425.0	T	Horizontal and Vertical	36M0G7F	81.0	41.4
---	------------------	---	----------------------------	---------	------	------

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

Digital Video

1	5925.0 6425.0	T	Horizontal and Vertical	36M0G8F	81.0	41.4
---	------------------	---	----------------------------	---------	------	------

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

Digital Video

1	5925.0 6425.0	T	Horizontal and Vertical	36M0G9F	81.0	41.4
---	------------------	---	----------------------------	---------	------	------

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Video						
1	5925.0 6425.0	T	Horizontal and Vertical	43K8G1F	61.7	51.3
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.)						
Digital Video						
1	5925.0 6425.0	T	Horizontal and Vertical	43K8G2F	61.7	51.3
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.)						
Digital Video						
1	5925.0 6425.0	T	Horizontal and Vertical	43K8G3F	61.7	51.3

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.)

Digital Video

1	5925.0 6425.0	T	Horizontal and Vertical	43K8G7F	61.7	51.3
---	------------------	---	----------------------------	---------	------	------

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.)

Digital Video

1	5925.0 6425.0	T	Horizontal and Vertical	43K8G8F	61.7	51.3
---	------------------	---	----------------------------	---------	------	------

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.)

Digital Video

1	5925.0 6425.0	T	Horizontal and Vertical	43K8G9F	61.7	51.3
---	------------------	---	----------------------------	---------	------	------

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.)

Digital Video

1	3700.0 4200.0	R	Horizontal and Vertical	36M0G1W	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.)

Combination of Digital Carriers

1	3700.0 4200.0	R	Horizontal and Vertical	36M0G2W	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.)

Combination of Digital Carriers

1	3700.0 4200.0	R	Horizontal and Vertical	36M0G3W	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.)

Combination of Digital Carriers

1	3700.0 4200.0	R	Horizontal and Vertical	36M0G7W	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.)

Combination of Digital Carriers

1	3700.0 4200.0	R	Horizontal and Vertical	36M0G8W	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.)

Combination of Digital Carriers

1	3700.0 4200.0	R	Horizontal and Vertical	36M0G9W	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.)

Combination of Digital Carriers

1	3700.0 4200.0	R	Horizontal and Vertical	43K8G1W	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.)

Combination of Digital Carriers

1	3700.0 4200.0	R	Horizontal and Vertical	43K8G2W	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.)

Combination of Digital Carriers

1	3700.0 4200.0	R	Horizontal and Vertical	43K8G3W	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.)

Combination of Digital Carriers

1	3700.0 4200.0	R	Horizontal and Vertical	43K8G7W	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.)

Combination of Digital Carriers

1	3700.0 4200.0	R	Horizontal and Vertical	43K8G8W	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.)

Combination of Digital Carriers

1	3700.0 4200.0	R	Horizontal and Vertical	43K8G9W	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.)

Combination of Digital Carriers

1	5925.0 6425.0	T	Horizontal and Vertical	36M0G1E	81.0	41.4
---	------------------	---	----------------------------	---------	------	------

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

Digital Telephony

1	5925.0 6425.0	T	Horizontal and Vertical	36M0G2E	81.0	41.4
---	------------------	---	----------------------------	---------	------	------

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

Digital Telephony

1	5925.0 6425.0	T	Horizontal and Vertical	36M0G3E	81.0	41.4
---	------------------	---	----------------------------	---------	------	------

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

Digital Telephony

1	5925.0 6425.0	T	Horizontal and Vertical	36M0G7E	81.0	41.4
---	------------------	---	----------------------------	---------	------	------

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

Digital Telephony

1	5925.0 6425.0	T	Horizontal and Vertical	36M0G8E	81.0	41.4
---	------------------	---	----------------------------	---------	------	------

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

Digital Telephony

1	5925.0 6425.0	T	Horizontal and Vertical	36M0G9E	81.0	41.4
---	------------------	---	----------------------------	---------	------	------

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

Digital Telephony

1	5925.0 6425.0	T	Horizontal and Vertical	43K8G1E	61.7	51.3
---	------------------	---	----------------------------	---------	------	------

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.)

Digital Telephony

1	5925.0 6425.0	T	Horizontal and Vertical	43K8G2E	61.7	51.3
---	------------------	---	----------------------------	---------	------	------

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.)

Digital Telephony

1	5925.0 6425.0	T	Horizontal and Vertical	43K8G3E	61.7	51.3
---	------------------	---	----------------------------	---------	------	------

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.)

Digital Telephony

1	5925.0 6425.0	T	Horizontal and Vertical	43K8G7E	61.7	51.3
---	------------------	---	----------------------------	---------	------	------

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.)

Digital Telephony

1	5925.0 6425.0	T	Horizontal and Vertical	43K8G8E	61.7	41.4
---	------------------	---	----------------------------	---------	------	------

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

Digital Telephony

1	5925.0 6425.0	T	Horizontal and Vertical	43K8G9D	61.7	51.3
---	------------------	---	----------------------------	---------	------	------

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.)

Digital Telephony

1	5925.0 6425.0	T	Horizontal and Vertical	43K8G9E	61.7	51.3
---	------------------	---	----------------------------	---------	------	------

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.)

Digital Telephony

1	5925.0 6425.0	T	Horizontal and Vertical	36M0G1W	81.0	41.4
---	------------------	---	----------------------------	---------	------	------

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.)

Combination of Digital Carriers

1	5925.0 6425.0	T	Horizontal and Vertical	36M0G2W	81.0	41.4
---	------------------	---	----------------------------	---------	------	------

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.)

Combination of Digital Carriers

1	5925.0 6425.0	T	Horizontal and Vertical	36M0G3D	81.0	41.4
---	------------------	---	----------------------------	---------	------	------

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.)

Combination of Digital Carriers

1	5925.0 6425.0	T	Horizontal and Vertical	36M0G3W	81.0	41.4
---	------------------	---	----------------------------	---------	------	------

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.)

Combination of Digital Carriers

1	5925.0 6425.0	T	Horizontal and Vertical	36M0G7W	81.0	41.4
---	------------------	---	----------------------------	---------	------	------

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.)

Combination of Digital Carriers

1	5925.0 6425.0	T	Horizontal and Vertical	36M0G8W	81.0	41.4
---	------------------	---	----------------------------	---------	------	------

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.)

Combination of Digital Carriers

1	5925.0 6425.0	T	Horizontal and Vertical	36M0G9W	81.0	41.4
---	------------------	---	----------------------------	---------	------	------

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.)

Combination of Digital Carriers

1	5925.0 6425.0	T	Horizontal and Vertical	43K8G1W	61.7	41.4
---	------------------	---	----------------------------	---------	------	------

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.)

Combination of Digital Carriers

1	5925.0 6425.0	T	Horizontal and Vertical	43K8G2W	61.7	51.3
---	------------------	---	----------------------------	---------	------	------

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.)

Combination of Digital Carriers

1	5925.0 6425.0	T	Horizontal and Vertical	43K8G3W	61.7	51.3
---	------------------	---	----------------------------	---------	------	------

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.)

Combination of Digital Carriers

1	5925.0 6425.0	T	Horizontal and Vertical	43K8G7W	61.7	51.3
---	------------------	---	----------------------------	---------	------	------

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.)

Combination of Digital Carriers

1	5925.0 6425.0	T	Horizontal and Vertical	43K8G8W	61.7	41.4
---	------------------	---	----------------------------	---------	------	------

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.)

Combination of Digital Carriers

1	5925.0 6425.0	T	Horizontal and Vertical	43K8G9W	61.7	51.3
---	------------------	---	----------------------------	---------	------	------

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.)

Combination of Digital Carriers

2	3700.0 4200.0	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.)						
NULL						
2	3700.0 4200.0	T	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.)						
NULL						
2	3700.0 4200.0	R	Horizontal and Vertical	36M0G1D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Data						
2	3700.0 4200.0	R	Horizontal and Vertical	36M0G2D	0.0	0.0

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Data						
2	3700.0 4200.0	R	Horizontal and Vertical	36M0G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Data						
2	3700.0 4200.0	R	Horizontal and Vertical	36M0G8D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Data						
2	3700.0 4200.0	R	Horizontal and Vertical	36M0G9D	0.0	0.0

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Data						
2	3700.0 4200.0	R	Horizontal and Vertical	43K8G1D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Data						
2	3700.0 4200.0	R	Horizontal and Vertical	43K8G1E	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Data						
2	3700.0 4200.0	R	Horizontal and Vertical	43K8G2D	0.0	0.0

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Data						
2	3700.0 4200.0	R	Horizontal and Vertical	43K8G3D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Data						
2	3700.0 4200.0	R	Horizontal and Vertical	43K8G7D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Data						
2	3700.0 4200.0	R	Horizontal and Vertical	43K8G8D	0.0	0.0

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Data						
2	3700.0 4200.0	R	Horizontal and Vertical	43K8G9D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Data						
2	3700.0 4200.0	R	Horizontal and Vertical	36M0G1F	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Video						
2	3700.0 4200.0	R	Horizontal and Vertical	36M0G2F	0.0	0.0

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Video						
2	3700.0 4200.0	R	Horizontal and Vertical	36M0G3F	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Video						
2	3700.0 4200.0	R	Horizontal and Vertical	36M0G7F	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Video						
2	3700.0 4200.0	R	Horizontal and Vertical	36M0G8F	0.0	0.0

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Video						
2	3700.0 4200.0	R	Horizontal and Vertical	36M0G9F	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Video						
2	3700.0 4200.0	R	Horizontal and Vertical	43K8G1F	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Video						
2	3700.0 4200.0	R	Horizontal and Vertical	43K8G2F	0.0	0.0

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Video						
2	3700.0 4200.0	R	Horizontal and Vertical	43K8G3F	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Video						
2	3700.0 4200.0	R	Horizontal and Vertical	43K8G7F	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Video						
2	3700.0 4200.0	R	Horizontal and Vertical	43K8G8F	0.0	0.0

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Video						
2	3700.0 4200.0	R	Horizontal and Vertical	43K8G9F	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Video						
2	3700.0 4200.0	R	Horizontal and Vertical	36M0G3D	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Carriers						
2	3700.0 4200.0	R	Horizontal and Vertical	43K8GE	0.0	0.0

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Telephony						
2	5925.0 6425.0	T	Horizontal and Vertical	36M0F8W	77.6	50.6
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.)						
NULL						
2	5925.0 6425.0	T	Horizontal and Vertical	36M0F8W	77.6	50.6
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.)						
NULL						
2	3700.0 4200.0	R	Horizontal and Vertical	36M0G1E	0.0	0.0

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Telephony						
2	3700.0 4200.0	R	Horizontal and Vertical	36M0G2E	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Telephony						
2	3700.0 4200.0	R	Horizontal and Vertical	36M0G3E	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Telephony						
2	3700.0 4200.0	R	Horizontal and Vertical	36M0G7E	0.0	0.0

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Telephony						
2	3700.0 4200.0	R	Horizontal and Vertical	36M0G8E	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Telephony						
2	3700.0 4200.0	R	Horizontal and Vertical	36M0G9E	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Telephony						
2	3700.0 4200.0	R	Horizontal and Vertical	43K8G1F	0.0	0.0

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Telephony						
2	3700.0 4200.0	R	Horizontal and Vertical	43K8G2E	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Telephony						
2	3700.0 4200.0	R	Horizontal and Vertical	43K8G7E	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Telephony						
2	3700.0 4200.0	R	Horizontal and Vertical	43K8G8E	0.0	0.0

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Telephony						
2	3700.0 4200.0	R	Horizontal and Vertical	43K8G9E	0.0	0.0
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Telephony						
2	5925.0 6425.0	T	Horizontal and Vertical	36MG7D	78.1	38.4
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Data						
2	5925.0 6425.0	T	Horizontal and Vertical	36M0G1D	78.1	38.4

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Data						
2	5925.0 6425.0	T	Horizontal and Vertical	36M0G2D	78.1	38.4
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Data						
2	5925.0 6425.0	T	Horizontal and Vertical	36M0G8D	78.1	38.4
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Data						
2	5925.0 6425.0	T	Horizontal and Vertical	36M0G9D	78.1	38.4

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Data						
2	5925.0 6425.0	T	Horizontal and Vertical	43K8G1D	58.8	48.4
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Data						
2	5925.0 6425.0	T	Horizontal and Vertical	43K8G2D	58.8	48.4
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Data						
2	5925.0 6425.0	T	Horizontal and Vertical	43K8G3D	58.8	48.4

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Data						
2	5925.0 6425.0	T	Horizontal and Vertical	43K8G7D	58.8	48.4
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Data						
2	5925.0 6425.0	T	Horizontal and Vertical	43K8G8D	58.8	48.4
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Data						
2	5925.0 6425.0	T	Horizontal and Vertical	36M0G1F	78.1	38.4

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Video						
2	5925.0 6425.0	T	Horizontal and Vertical	36M0G2D	78.1	38.4
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Video						
2	5925.0 6425.0	T	Horizontal and Vertical	36M0G3F	78.1	38.4
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Video						
2	5925.0 6425.0	T	Horizontal and Vertical	36M0G7F	78.1	38.4

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Video						
2	5925.0 6425.0	T	Horizontal and Vertical	36M0G8F	78.1	38.4
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Video						
2	5925.0 6425.0	T	Horizontal and Vertical	36M0G9F	78.1	38.4
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Video						
2	5925.0 6425.0	T	Horizontal and Vertical	43K8G1F	58.8	48.4

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Video						
2	5925.0 6425.0	T	Horizontal and Vertical	43K8G2F	58.8	48.4
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Video						
2	5925.0 6425.0	T	Horizontal and Vertical	43K8G3F	58.8	48.4
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Video						
2	5925.0 6425.0	T	Horizontal and Vertical	43K8G7F	58.8	48.4

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Video						
2	5925.0 6425.0	T	Horizontal and Vertical	43K8G8F	58.8	48.4
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Video						
2	5925.0 6425.0	T	Horizontal and Vertical	43K8G9F	58.8	48.4
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Video						
2	3700.0 4200.0	R	Horizontal and Vertical	36M0G1W	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.)

Combination of Digital Carriers

2	3700.0 4200.0	R	Horizontal and Vertical	36M0G2W	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.)

Combination of Digital Carriers

2	3700.0 4200.0	R	Horizontal and Vertical	36M0G3W	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.)

Combination of Digital Carriers

2	3700.0 4200.0	R	Horizontal and Vertical	36M0G7W	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.)						
Combination of Digital Carriers						
2	3700.0 4200.0	R	Horizontal and Vertical	36M0G8W	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.)						
Combination of Digital Carriers						
2	3700.0 4200.0	R	Horizontal and Vertical	36M0G9W	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.)						
Combination of Digital Carriers						
2	3700.0 4200.0	R	Horizontal and Vertical	43K8G1W	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.)						
Combination of Digital Carriers						
2	3700.0 4200.0	R	Horizontal and Vertical	43K8G2W	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.)						
Combination of Digital Carriers						
2	3700.0 4200.0	R	Horizontal and Vertical	43K8G3W	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.)						
Combination of Digital Carriers						
2	3700.0 4200.0	R	Horizontal and Vertical	43K8G7W	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.)

Combination of Digital Carriers

2	3700.0 4200.0	R	Horizontal and Vertical	43K8G8W	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.)

Combination of Digital Carriers

2	3700.0 4200.0	R	Horizontal and Vertical	43K8G9W	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.)

Combination of Digital Carriers

2	5925.0 6425.0	T	Horizontal and Vertical	36M0G1E	78.1	38.4
---	------------------	---	----------------------------	---------	------	------

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Telephony						
2	5925.0 6425.0	T	Horizontal and Vertical	36M0G2E	78.1	38.4
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Telephony						
2	5925.0 6425.0	T	Horizontal and Vertical	36M0G3E	78.1	38.4
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Telephony						
2	5925.0 6425.0	T	Horizontal and Vertical	36M0G7E	78.1	38.4

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Telephony						
2	5925.0 6425.0	T	Horizontal and Vertical	36M0G8E	78.1	38.4
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Telephony						
2	5925.0 6425.0	T	Horizontal and Vertical	36M0G9E	78.1	38.4
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Telephony						
2	5925.0 6425.0	T	Horizontal and Vertical	43K8G1E	58.8	48.4

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

Digital Telephony

2	5925.0 6425.0	T	Horizontal and Vertical	43K8G2E	58.8	48.4
---	------------------	---	----------------------------	---------	------	------

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

Digital Telephony

2	5925.0 6425.0	T	Horizontal and Vertical	43K8G3E	58.8	48.4
---	------------------	---	----------------------------	---------	------	------

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

Digital Telephony

2	5925.0 6425.0	T	Horizontal and Vertical	43K8G7E	58.8	48.4
---	------------------	---	----------------------------	---------	------	------

E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Telephony						
2	5925.0 6425.0	T	Horizontal and Vertical	43K8G8E	58.8	48.4
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Telephony						
2	5925.0 6425.0	T	Horizontal and Vertical	43K8G9D	58.8	48.4
E50. Modulation and Services (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)						
Digital Telephony						
2	5925.0 6425.0	T	Horizontal and Vertical	43K8G9E	58.8	48.4

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

Digital Telephony

2	5925.0 6425.0	T	Horizontal and Vertical	36M0G8W	78.1	38.4
---	------------------	---	----------------------------	---------	------	------

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.)

Combination of Carriers

2	5925.0 6425.0	T	Horizontal and Vertical	36M0G1W	78.1	38.4
---	------------------	---	----------------------------	---------	------	------

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.)

Combination of Digital Carriers

2	5925.0 6425.0	T	Horizontal and Vertical	36M0G2W	78.1	38.4
---	------------------	---	----------------------------	---------	------	------

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.)

Combination of Digital Carriers

2	5925.0 6425.0	T	Horizontal and Vertical	36M0G3D	78.1	38.4
---	------------------	---	----------------------------	---------	------	------

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.)

Combination of Digital Carriers

2	5925.0 6425.0	T	Horizontal and Vertical	36M0G3W	78.1	38.4
---	------------------	---	----------------------------	---------	------	------

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.)

Combination of Digital Carriers

2	5925.0 6425.0	T	Horizontal and Vertical	36M0G7W	78.1	38.4
---	------------------	---	----------------------------	---------	------	------

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.)						
Combination of Digital Carriers						
2	5925.0 6425.0	T	Horizontal and Vertical	36M0G9W	78.1	38.4
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.)						
Combination of Digital Carriers						
2	5925.0 6425.0	T	Horizontal and Vertical	43K8G1W	58.8	48.4
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.)						
Combination of Digital Carriers						
2	5925.0 6425.0	T	Horizontal and Vertical	43K8G2W	58.8	48.4

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.)						
Combination of Digital Carriers						
2	5925.0 6425.0	T	Horizontal and Vertical	43K8G3W	58.8	48.4
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.)						
Combination of Digital Carriers						
2	5925.0 6425.0	T	Horizontal and Vertical	43K8G7W	58.8	48.4
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.)						
Combination of Digital Carriers						
2	5925.0 6425.0	T	Horizontal and Vertical	43K8G8W	58.8	48.4

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.)							
Combination of Digital Carriers							
2	5925.0 6425.0		T	Horizontal and Vertical	43K8G9W	58.8	48.4
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.)							
Combination of Digital Carriers							
2	5925	6425	T	Horizontal and Vertical	36M0G2F	78.1	38.4
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.)							
Modulation and Services Digital Telephony							
2	5925	6425	T	Horizontal and Vertical	36M0G7D	78.1	38.4

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.)

Modulation and Services Digital Telephony

**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 E/W 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>
1		3700.0 4200.0	60.0/ 143.0	141.9	33.9	246.7	15.3	0.0
		5925.0 6425.0	60.0/ 145.0	141.9	33.9	246.7	15.3	-9.3
2		3700.0 4200.0	60.0/ 143.0	141.9	33.9	246.7	15.3	0.0
		5925.0 6425.0	60.0/ 145.0	141.9	33.9	246.7	15.3	-0.5

**REMOTE CONTROL POINT LOCATION**

<p>E61. Call Sign</p> <p>NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.</p>	<p>E65. Phone Number</p>
--	--------------------------

E62. Street Address			
E63. City	E67. County	E64/68. State/Country /	E66. Zip Code

**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.

Remember – You are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060-0678.

**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).**

Norlight Telecommunications, Inc. (Norlight) seeks a license to operate a Domestic Satellite Fixed Earth Station that will be used in the provision of video services. Please note that Norlight has been using an earth station identical to the one proposed herein (Call Sign E5401) pursuant to authority granted in File No. SES-MOD-20020311-00305. However, it has only recently come to Norlight's attention that the license for E5401 had expired and that Norlight had inadvertently allowed the license to lapse. The Commission granted a request for special temporary authority to operate during the pendency of this request for a new license. (FCC File No. SES-STA-20030624-00887).