Approved by OMB 3060–0678

Date & Time Filed: Oct 6 2016 12:35:12:020PM File Number: SES–MFS–20161006–00829

| FCC APPLICATION        | N FOR SPACE AND EARTH STATION                   | ON:MOD OR AMD – MAIN FORM | 1 FCC Use Only    |
|------------------------|---|---------------------------|-------------------|
|                        | FCC 312 MAIN FORM FOR OFFIC                     | CIAL USE ONLY             |                   |
| APPLICANT INFOR        | MATION<br>this application to identify it on th | ne main menu:             |                   |
| -                      | a–band ESV to Call Sign E06015                  |                           |                   |
| 1–8. Legal Name of App | plicant   |                           |                   |
| Name:                  | Harris CapRock Communications, Inc.             | Phone Number:             | 832-668-2753      |
| DBA<br>Name:           |   | Fax Number:               | 832-668-2780      |
| Street:                | 4400 S. Sam Houston Parkway Ea                  | E–Mail:                   | esands@harris.com |
| City:                  | Houston   | State:                    | TX                |
| Country:               | USA   | Zipcode:                  | 77048 –           |
| Attention:             | Ms. EllenAnn Sands                              |                           |                   |
|                        |   |                           |                   |

| ame of Contact  | Representative         |                      |                        |
|-----------------|------------------------|----------------------|------------------------|
| Name:           | Carlos Nalda           | Phone Number:        | 571-332-5626           |
| Company:        | LMI Advisors           | Fax Number:          |                        |
| Street:         | 8601 James Creek Drive | E-Mail:              | cnalda@lmiadvisors.com |
| City:           | Springfield            | State:               | VA                     |
| <b>Country:</b> | USA                    | Zipcode:             | 22152-                 |
| Attention:      | Mr. Carlos M. Nalda    | <b>Relationship:</b> | Other                  |

# 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. | <ul> <li>(N/A) b1. Application for License of New Station</li> <li>(N/A) b2. Application for Registration of New Domestic Receive–Only Station</li> <li>b3. Amendment to a Pending Application</li> </ul>   |
|---|---|
| <ul> <li>a1. Earth Station</li> <li>a2. Space Station</li> </ul>  | <ul> <li>b4. Modification of License or Registration</li> <li>b5. Assignment of License or Registration</li> <li>b6. Transfer of Control of License or Registration</li> <li>b7. Notification of Minor Modification</li> </ul>  |
|   | <ul> <li>(N/A) b8. Application for License of New Receive–Only Station Using Non–U.S. Licensed Satellite</li> <li>(N/A) b9. Letter of Intent to Use Non–U.S. Licensed Satellite to Provide Service in the United States</li> <li>(N/A) b10. Other (Please specify)</li> <li>(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</li> <li>(N/A) b12. Application for Database Entry</li> <li>b13. Amendment to a Pending Database Entry Application</li> <li>b14. Modification of Database Entry</li> </ul> |

| 17c. Is a fee submitted with this applicat                        |   |   |
|---|---|---|
| ● If Yes, complete and attach FCC Form                            | 159. If No, indicate reason for fee exemption   | n (see 47 C.F.R.Section 1.1114).                            |
| Governmental Entity O Noncomm                                     | ercial educational licensee   |   |
| • Other(please explain):  |   |   |
| 17d.  |   |   |
| Fee Classification CGV – Fixed Satellite                          | VSAT System   |   |
| 18. If this filing is in reference to an existing station, enter: | 19. If this filing is an amendment to a pendin modification please enter only the file number | g application enter both fields, if this filing is a<br>er: |
| (a) Call sign of station:   | (a) Date pending application was filed:   | (b) File number:  |
| E060157   |   |   |
|   |   | SESMOD2015091500599   |
|   |   |   |

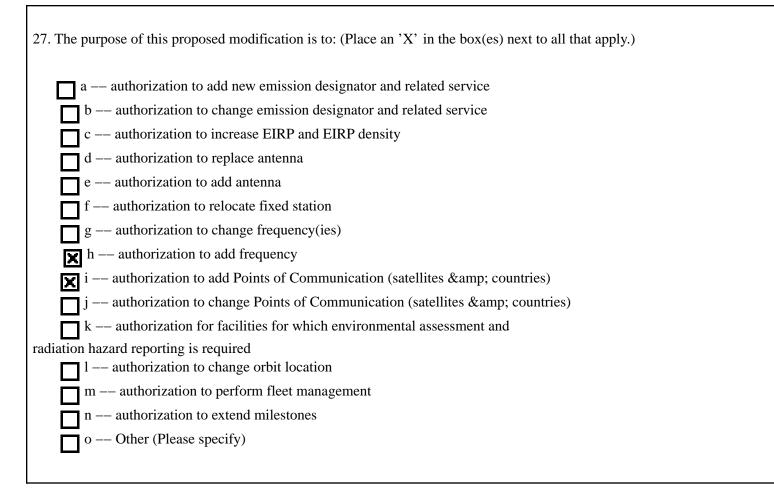
## TYPE OF SERVICE

| 20. NATURE OF SERVICE: This filing is for an authorization to provid   | le or use the following type(s) of service(s): Select all that apply:       |
|--|---|
| a. Fixed Satellite   |   |
|  |   |
| b. Mobile Satellite  |   |
| c. Radiodetermination Satellite  |   |
| d. Earth Exploration Satellite   |   |
| e. Direct to Home Fixed Satellite                                      |   |
| f. Digital Audio Radio Service   |   |
| g. Other (please specify) ESV  |   |
| <b>-</b>   |   |
| 21. STATUS: Choose the button next to the applicable status. Choose    | 22. If earth station applicant, check all that apply.                       |
| only one.  | Using U.S. licensed satellites  |
| O Common Carrier   |   |
|  | Using Non–U.S. licensed satellites  |
| 23. If applicant is providing INTERNATIONAL COMMON CARRIER facilities: | service, see instructions regarding Sec. 214 filings. Choose one. Are these |
| • Connected to a Public Switched Network • Not connected to a          | a Public Switched Network 💿 N/A   |
| 24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all         | applicable frequency band(s).   |
| a. C–Band (4/6 GHz) b. Ku–Band (12/14 GHz)                             |   |
| c.Other (Please specify upper and lower frequencies in MHz.)           |   |
| Frequency Lower: 17800 Frequency Upper: 30000                          | (Please specify additional frequencies in an attachment)                    |

## TYPE OF STATION

| 25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one. |
|---|
| • a. Fixed Earth Station  |
| • b. Temporary–Fixed Earth Station  |
| • c. 12/14 GHz VSAT Network   |
| O d. Mobile Earth Station   |
| • e. Geostationary Space Station  |
| • f. Non–Geostationary Space Station  |
| • g. Other (please specify) 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



### 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<br>Tech |     | No<br>Appo | endi | х   |
|--|-------|-------------|-----|------------|------|-----|
| ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeron aeronautical fixed radio station services are not required to respond to Items 30–34.   | autic | al en       | rou | te or      |      |     |
| 29. Is the applicant a foreign government or the representative of any foreign government?   | 0     | Yes         | ۲   | No         |      |     |
| 30. Is the applicant an alien or the representative of an alien?   | 0     | Yes         | 0   | No         | ۲    | N/A |
| 31. Is the applicant a corporation organized under the laws of any foreign government?   | 0     | Yes         | 0   | No         | ۲    | N/A |
| 32. Is the applicant a corporation of which more than one–fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?  | 0     | Yes         | 0   | No         | ۲    | N/A |

33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than one–fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?

34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.

#### BASIC QUALIFICATIONS

| 35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules?<br>If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.  | Yes   | O No            |
|--|-------|-----------------|
| 36. Has the applicant or any party to this application or amendment had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explination of circumstances. | O Yes | No     No     ■ |

O Yes O No ⊚ N/A

| 37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explination of circumstances.  | O Yes | ● No |
|--|-------|------|
| 38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances  | O Yes | ● No |
| 39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhinit, an explanation of the circumstances.   | • Yes | O No |
| 40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, address, and citizenship of those stockholders owning a record and/or voting 10 percent or more of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer. |       |      |

41. By checking Yes, the undersigned certifies, that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti–Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.

42a. Does the applicant intend to use a non–U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43.



O No

Yes

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?U.K., Permitted List

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.)

Harris CapRock seeks Commission authority to modify its existing ESV license to add a new terminal (Model ST5000-2.4) to the license for operations in the Ka-band.

Narrative

| 43a. Geographic Service Rule Certification<br>By selecting A, the undersigned certifies that the applicant is not subject to the geographic service or geographic<br>coverage requirements specified in 47 C.F.R. Part 25.   | ● A                   |
|--|-----------------------|
| By selecting B, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will comply with such requirements.   | <b>О</b> <sup>В</sup> |
| By selecting C, the undersigned certifies that the applicant is subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25 and will not comply with such requirements because it is not feasible as a technical matter to do so, or that, while technically feasible, such services would require so many compromises in satellite design and operation as to make it economically unreasonable. A narrative description and technical analysis demonstrating this claim are attached. | <b>O</b> C            |

### CERTIFICATION

The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The applicant certifies that grant of this application would not cause the applicant to be in violation of the spectrum aggregation limit in 47 CFR Part 20. All statements made in exhibits are a material part hereof and are incorporated herein as if set out in full in this application. The undersigned, individually and for the applicant, hereby certifies that all statements made in this application and in all attached exhibits are true, complete and correct to the best of his or her knowledge and belief, and are made in good faith.

| 44. Applicant is a (an): (Choose the button next to applicable response | .)  |
|---|---|
| • Individual  |   |
| O Unincorporated Association  |   |
| • Partnership   |   |
| • Corporation   |   |
| • Governmental Entity   |   |
| • Other (please specify)  |   |
|   |   |
| 45. Name of Person Signing  | 46. Title of Person Signing   |
| EllenAnn Sands  | Senior Counsel  |
| >   |   |
| (U.S. Code, Title 18, Section 1001), AND/OR                             | M ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT<br>REVOCATION OF ANY STATION AUTHORIZATION<br>R FORFEITURE (U.S. Code, Title 47, Section 503). |

#### SATELLITE EARTH STATION AUTHORIZATIONS FCC Form 312 – Schedule B:(Technical and Operational Description) FOR OFFICIAL USE ONLY

| Location of Earth St | tation Site                     |                      |                 |       |  |
|----------------------|---------------------------------|----------------------|-----------------|-------|--|
| E1: Site Identifier: | ST5000-2.4                      | E5. Call Sign:       | E060157         |       |  |
| E2: Contact Name     | Network Control<br>Center       | E6. Phone<br>Number: | 832-668-2775    |       |  |
| E3. Street:          | 4400 S. Sam<br>Houston Pkwy, E. | E7. City:            | Houston         |       |  |
|                      |                                 | E8. County:          |                 |       |  |
| E4. State            | ТХ                              | E9. Zip Code         | 77046           |       |  |
| E10. Area of Opera   | tion:                           | U.S. and Internation | nal Waterways   |       |  |
| E11. Latitude:       | 0 °0 '0.0 "                     |                      |                 |       |  |
| E12. Longitude:      | 0 °0 '0.0 "                     |                      |                 |       |  |
| E13. Lat/Lon Coord   | linates are:                    | ONAD-27              | <b>O</b> NAD-83 | ● N/A |  |
| E14. Site Elevation  | (AMSL):                         | 0.0 meters           |                 |       |  |
|                      |                                 |                      |                 |       |  |

| by the manufacturer's quantication measurement? If NO, provide as a technical analysis showing compliance with | O Yes | ● <sup>No</sup> | O <sup>N/A</sup> |
|--|-------|-----------------|------------------|
| two-degree spacing policy.   |       |                 |                  |

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

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

POINTS OF COMMUNICATION

| Satellite Name:O3B-A (S2935)   O3B-A   Eq. NGSO | If you selected OTHER, please enter the following: |
|---|--|
| E21. Common Name:                               | E22. ITU Name:                                     |
| E23. Orbit Location:                            | E24. Country:                                      |

Satellite Name: PERMITTED LIST | | 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: ST5000–2.4             |                   |
| E26. Common Name:                            | E27. Country: USA |

| E25. Site Identifier: ST5000–2.4 |                   |
|----------------------------------|-------------------|
| E26. Common Name:                | E27. Country: USA |

ANTENNA

| Site ID    | E28. Antenna<br>Id | E29. Quantity | E30.<br>Manufacturer | E31. Model | E32. Antenna<br>Size <meters></meters> | E41/42.<br>Antenna Gain<br>Transmint<br>and/or Recieve<br>(dBi at<br>GHz) |  |
|------------|--------------------|---------------|----------------------|------------|--|---|--|
| ST5000-2.4 | ST5000 Ka          | 1000          | Harris CapRock       | ST5000     | 2.4                                    | 55.2 dBi at 30.0  |  |
| ST5000-2.4 | ST5000 Ka          | 1000          | Harris CapRock       | ST5000     | 2.4                                    | 54.7 dBi at<br>28.36  |  |
| ST5000-2.4 | ST5000 Ka          | 1000          | Harris CapRock       | ST5000     | 2.4                                    | 54.7 dBi at<br>28.36  |  |

| E28. Antenna<br>Id |         |     | · · · · | Height Above | Input Power at | E39. Maximum<br>Antenna Height<br>Above Rooftop<br>(meters) | EIRP for al |
|--------------------|---------|-----|---------|--------------|----------------|---|-------------|
| ST5000 Ka          | 0.0/0.0 | 0.0 | 0.0     | 0.0          | 26.4           | 0.0   | 69.4        |

FREQUENCY

| E28. Antenna Id               | E43/44.<br>Frequency Bands<br>(MHz) | E45.<br>T/R<br>Mode   | E46. Antenna<br>Polarization(H,V,<br>L,R) | E47. Emission<br>Designator | E48. Maximum<br>EIRP per Carrier<br>(dBW) | E49. Maximum<br>ERIP Density per<br>Carrier<br>(dBW/4kHz) |
|-------------------------------|-------------------------------------|-----------------------|---|-----------------------------|---|---|
| ST5000 Ka                     | 17800<br>18600                      | R                     | Horizontal and<br>Vertical                | 1M00G7D                     | 0.0                                       | 0.0   |
| E50. Modulation<br>entirety.) |                                     | ne complete descripti | on does not appear in                     | i this box, please go t     | o the end of the form                     | to view it in its   |
| ST5000 Ka                     | 17800<br>18600                      | R                     | Horizontal and<br>Vertical                | 40M0G7D                     | 0.0                                       | 0.0   |
| E50. Modulation entirety.)    | and Services (If th                 | ne complete descripti | on does not appear in                     | this box, please go t       | o the end of the form                     | to view it in its   |
| Up to 32AF                    | PSK                                 |                       |   |                             |   |   |
| ST5000 Ka                     | 18300<br>18800                      | R                     | Horizontal and<br>Vertical                | 40M0G7D                     | 0.0                                       | 0.0   |

| E50. Modulation entirety.) | on and Services (If | the complete descrip | ption does not appear      | in this box, please | go to the end of t | he form to view it in its |
|----------------------------|---------------------|----------------------|----------------------------|---------------------|--------------------|---------------------------|
| Up to 322                  | APSK                |                      |                            |                     |                    |                           |
| ST5000 Ka                  | 18800<br>19300      | R                    | Horizontal and<br>Vertical | 1M00G7D             | 0.0                | 0.0                       |
| E50. Modulation entirety.) | on and Services (If | the complete descrip | ption does not appear      | in this box, please | go to the end of t | he form to view it in its |
| Up to 322                  | APSK                |                      |                            |                     |                    |                           |
| ST5000 Ka                  | 18800<br>19300      | R                    | Horizontal and<br>Vertical | 40M0G7D             | 0.0                | 0.0                       |
| E50. Modulation entirety.) | on and Services (If | the complete descrip | ption does not appear      | in this box, please | go to the end of t | he form to view it in its |
| Up to 322                  | APSK                |                      |                            |                     |                    |                           |
| ST5000 Ka                  | 27600<br>28400      | Т                    | Horizontal and<br>Vertical | 1M00G7D             | 69.4               | 45.4                      |

| E50. Modulat entirety.) | ion and Services (1 | f the complete d | escription does not appear | in this box, please | go to the end of t | he form to view it in its |
|-------------------------|---------------------|------------------|----------------------------|---------------------|--------------------|---------------------------|
| Up to 32                | APSK                |                  |                            |                     |                    |                           |
| ST5000 Ka               | 27600<br>28400      | Т                | Horizontal and<br>Vertical | 40M0G7D             | 69.4               | 29.4                      |
| E50. Modulat entirety.) | ion and Services (1 | f the complete d | escription does not appear | in this box, please | go to the end of t | he form to view it in its |
| Up to 32                | PSK                 |                  |                            |                     |                    |                           |
| ST5000 Ka               | 28600<br>29100      | Т                | Horizontal and<br>Vertical | 1M00G7D             | 69.4               | 45.4                      |
| E50. Modulat entirety.) | ion and Services (1 | f the complete d | escription does not appear | in this box, please | go to the end of t | he form to view it in its |
| Up to 32                | PSK                 |                  |                            |                     |                    |                           |
| ST5000 Ka               | 28600<br>29100      | Т                | Horizontal and<br>Vertical | 40M0G7D             | 69.4               | 29.4                      |

| E50. Modulat entirety.) | ion and Services | (If the complete d | escription does not appear | in this box, please | go to the end of | the form to view it in its |
|-------------------------|------------------|--------------------|----------------------------|---------------------|------------------|----------------------------|
| Up to 32                | 2APSK            |                    |                            |                     |                  |                            |
| ST5000 Ka               | 18300<br>18800   | R                  | Horizontal and<br>Vertical | 1M00G7D             | 0.0              | 0.0                        |
| E50. Modulat entirety.) | ion and Services | (If the complete d | escription does not appear | in this box, please | go to the end of | the form to view it in its |
| Up to 32                | 2 APSK           |                    |                            |                     |                  |                            |
| ST5000 Ka               | 19700<br>20200   | R                  | Horizontal and<br>Vertical | 1M00G7D             | 0.0              | 0.0                        |
| E50. Modulat entirety.) | ion and Services | (If the complete d | escription does not appear | in this box, please | go to the end of | the form to view it in its |
| Up to 32                | 2 APSK           |                    |                            |                     |                  |                            |
| ST5000 Ka               | 19700<br>20200   | R                  | Horizontal and<br>Vertical | 40M0G7D             | 0.0              | 0.0                        |

| E50. Modulat entirety.)    | ion and Services ( | If the complete d | escription does not appear | in this box, please | go to the end of the | he form to view it in its |
|----------------------------|--------------------|-------------------|----------------------------|---------------------|----------------------|---------------------------|
| Up to 32                   | 2 APSK             |                   |                            |                     |                      |                           |
| ST5000 Ka                  | 28350<br>28600     | Т                 | Horizontal and<br>Vertical | 1M00G7D             | 69.4                 | 45.4                      |
| E50. Modulat<br>entirety.) | ion and Services ( | If the complete d | escription does not appear | in this box, please | go to the end of the | he form to view it in its |
| Up to 32                   | 2 APSK             |                   |                            |                     |                      |                           |
| ST5000 Ka                  | 28350<br>28600     | Т                 | Horizontal and<br>Vertical | 40M0G7D             | 69.4                 | 29.4                      |
| E50. Modulat entirety.)    | ion and Services ( | If the complete d | escription does not appear | in this box, please | go to the end of the | he form to view it in its |
| Up to 32                   | 2 APSK             |                   |                            |                     |                      |                           |
| ST5000 Ka                  | 29250<br>30000     | Т                 | Horizontal and<br>Vertical | 1M00G7D             | 69.4                 | 45.4                      |

| 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.)                   |  |

Up to 32 APSK

| ST5000 Ka | 29250 | Т | Horizontal and | 40M0G7D | 69.4 | 29.4 |
|-----------|-------|---|----------------|---------|------|------|
| ~         | 30000 | - | Vertical       |         |      |      |

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

Up to 32 APSK

### FREQUENCY COORDINATION

| E28.<br>Antenna Id | E51. Satellite<br>Orbit Type | Frequency      | E54/55.<br>Range of<br>Satellite Arc<br>Eastern/West<br>ern Limit | Station<br>Azimuth<br>Angle | E57.<br>Antenna<br>Elevation<br>Angle<br>Eastern Limit | Station<br>Azimuth<br>Angle | E59.<br>Antenna<br>Elevation<br>Angle<br>Western<br>Limit | E60.<br>Maximum<br>EIRP Density<br>toward the<br>Horizon<br>(dBW/4kHz) |
|--------------------|------------------------------|----------------|---|-----------------------------|--|-----------------------------|---|--|
| ST5000 Ka          | Non–<br>Geostationary        | 17800<br>18600 | 0.0/0.0   | 100.0                       | 5.0  | 260.0                       | 5.0   | 0.0  |

|                            | Non–<br>Geostationary     | 17800<br>18600 | 0.0/0.0              | 100.0  | 5.0                           | 260.0 | 5.0  | 0.0  |
|----------------------------|---------------------------|----------------|----------------------|--------|-------------------------------|-------|------|------|
|                            | Geostationary             | 18300<br>18800 | 19.0/168.0           | 100.0  | 10.0                          | 260.0 | 10.0 | 0.0  |
|                            | Non–<br>Geostationary     | 18800<br>19300 | 0.0/0.0              | 100.0  | 5.0                           | 260.0 | 5.0  | 0.0  |
|                            | Geostationary             | 19700<br>20200 | 19.0/168.0           | 100.0  | 10.0                          | 260.0 | 10.0 | 0.0  |
|                            | Non–<br>Geostationary     | 27600<br>28400 | 0.0/0.0              | 100.0  | 5.0                           | 260.0 | 5.0  | 4.7  |
|                            | Geostationary             | 28350<br>28600 | 19.0/168.0           | 100.0  | 10.0                          | 260.0 | 10.0 | -2.8 |
|                            | Non–<br>Geostationary     | 28600<br>29100 | 0.0/0.0              | 100.0  | 5.0                           | 260.0 | 5.0  | 4.7  |
|                            | Geostationary             | 29250<br>30000 | 19.0/168.0           | 100.0  | 10.0                          | 260.0 | 10.0 | -2.8 |
| REMOTE CO                  | ONTROL POIN               | T LOCATIC      | DN                   | •      | •                             |       |      | •    |
|                            | 0                         |                | ntrolling station, n | ot the | E66. Phone Nu<br>832–668–2775 |       |      |      |
| E62. Street<br>4400 S. Sar | Address<br>m Houston Pkwy | . E            |                      |        |                               |       |      |      |

| E63. City | E68. County | E67/68.       | E64. Zip Code |
|-----------|-------------|---------------|---------------|
| Houston   | Harris      | State/Country | 77046         |
|           |             | TX/ USA       |               |

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