

Approved by OMB
3060-0678

Date & Time Filed: Jan 19 2021 5:24:14:833PM
File Number: SES-MFS-20210119-00069

FCC APPLICATION FOR SPACE AND EARTH STATION:MOD OR AMD - MAIN FORM	FCC Use Only
FCC 312 MAIN FORM FOR OFFICIAL USE ONLY	

APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:
Modification of E060445 to Add T19V

1-8. Legal Name of Applicant			
Name:	HNS License Sub, LLC	Phone Number:	301-428-5893
DBA Name:		Fax Number:	301-428-2818
Street:	11717 Exploration Lane	E-Mail:	jennifer.manner@echostar.com
City:	Germantown	State:	MD
Country:	USA	Zipcode:	20876 -
Attention:	Jennifer Manner		
9-16. Name of Contact Representative			
Name:	Jennifer Manner	Phone Number:	301-428-5893
Company:	HNS License Sub, LLC	Fax Number:	301-428-2818
Street:	11717 Exploration Lane	E-Mail:	jennifer.manner@echostar.com
City:	Germantown	State:	MD
Country:	USA	Zipcode:	20876-
Attention:		Relationship:	

CLASSIFICATION OF FILING

<p>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.</p> <p><input checked="" type="radio"/> a1. Earth Station</p> <p><input type="radio"/> a2. Space Station</p>	<p>(N/A) b1. Application for License of New Station</p> <p>(N/A) b2. Application for Registration of New Domestic Receive-Only Station</p> <p><input type="radio"/> b3. Amendment to a Pending Application</p> <p><input checked="" type="radio"/> b4. Modification of License or Registration</p> <p>b5. Assignment of License or Registration</p> <p>b6. Transfer of Control of License or Registration</p> <p><input type="radio"/> b7. Notification of Minor Modification</p> <p>(N/A) b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite</p> <p>(N/A) b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States</p> <p>(N/A) b10. Other (Please specify)</p> <p>(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</p> <p>(N/A) b12. Application for Database Entry</p> <p><input type="radio"/> b13. Amendment to a Pending Database Entry Application</p> <p><input type="radio"/> b14. Modification of Database Entry</p>
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17c. Is a fee submitted with this application?

If Yes, complete and attach FCC Form 159.

If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).

Governmental Entity Noncommercial educational licensee

Other(please explain):

17d.
Fee Classification CGV - Fixed Satellite VSAT System

<p>18. If this filing is in reference to an existing station, enter:</p> <p>(a) Call sign of station: E060445</p>	<p>19. If this filing is an amendment to a pending application enter both fields, if this filing is a modification please enter only the file number:</p> <p>(a) Date pending application was filed:</p> <p>(b) File number:</p>
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TYPE OF SERVICE

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:

- a. Fixed Satellite
 b. Mobile Satellite
 c. Radiodetermination Satellite
 d. Earth Exploration Satellite
 e. Direct to Home Fixed Satellite
 f. Digital Audio Radio Service
 g. Other (please specify)

21. STATUS: Choose the button next to the applicable status. Choose only one.

- Common Carrier Non-Common Carrier

22. If earth station applicant, check all that apply.

- Using U.S. licensed satellites
 Using Non-U.S. licensed satellites

23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Choose one. Are these facilities:

- Connected to a Public Switched Network Not connected to 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: 18300 Frequency Upper: 30000 (Please specify additional frequencies in an attachment)

TYPE OF STATION

25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one.

- a. Fixed Earth Station
 b. Temporary-Fixed Earth Station
 c. 12/14 GHz VSAT Network
 d. Mobile Earth Station
 e. Geostationary Space Station
 f. Non-Geostationary Space Station
 g. Other (please specify) 20/30 GHz VSAT Network

26. TYPE OF EARTH STATION FACILITY:

- Transmit/Receive Transmit-Only Receive-Only N/A

"For Space Station applications, select N/A."

PURPOSE OF MODIFICATION

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

- a -- authorization to add new emission designator and related service
 b -- authorization to change emission designator and related service
 c -- authorization to increase EIRP and EIRP density
 d -- authorization to replace antenna
 e -- authorization to add antenna
 f -- authorization to relocate fixed station
 g -- authorization to change frequency(ies)
 h -- authorization to add frequency
 i -- authorization to add Points of Communication (satellites & countries)
 j -- authorization to change Points of Communication (satellites & countries)
 k -- authorization for facilities for which environmental assessment and radiation hazard reporting is required
 l -- authorization to change orbit location
 m -- authorization to perform fleet management
 n -- authorization to extend milestones
 o -- Other (Please specify)

ENVIRONMENTAL POLICY

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, Yes No
 47 C.F.R. 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments.

ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeronautical en route or aeronautical fixed radio station services are not required to respond to Items 30-34.

29. Is the applicant a foreign government or the representative of any foreign government?	<input type="radio"/> Yes <input checked="" type="radio"/> No
30. Is the applicant an alien or the representative of an alien?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> 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?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> 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?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> 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.	<input type="radio"/> Yes <input checked="" type="radio"/> 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 explanation of circumstances.	<input checked="" type="radio"/> Yes <input type="radio"/> No Exhibit 2
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.	<input type="radio"/> Yes <input checked="" type="radio"/> 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	<input type="radio"/> Yes <input checked="" type="radio"/> 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 exhibit, an explanation of the circumstances.	<input type="radio"/> Yes <input checked="" type="radio"/> 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. <i>See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.</i>	<input checked="" type="radio"/> Yes <input type="radio"/> 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.	<input checked="" type="radio"/> Yes <input type="radio"/> 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? United Kingdom	
43. Description. (Summarize the nature of the application and the services to be provided). Seeking modifications to add the Telstar 19V satellite as a point of communication and to update related frequency coordination limits. See Exhibit 1.Exhibit 1	
43a. Geographic Service Rule Certification By selecting A, the undersigned certifies that the applicant is not subject to the geographic service or geographic coverage requirements specified in 47 C.F.R. Part 25.	<input checked="" type="radio"/> 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.	<input type="radio"/> B
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.	<input type="radio"/> C

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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

Jennifer Manner

46. Title of Person Signing

Senior Vice President, Regulatory Affairs

**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: TR3.5M

E5. Call Sign: E060445

E2: Contact Name Hughes Network Management Center

E6. Phone Number: 301-428-7205

E3. Street:

E7. City:

E4. State

E8. County:

E10. Area of Operation:

E9. Zip Code

CONUS, AK, HI, PR, VI

E11. Latitude: 0 ° 0 ' 0.0 "

E12. Longitude: 0 ° 0 ' 0.0 "

E13. Lat/Lon Coordinates are:

NAD-27

NAD-83

N/A

E14. Site Elevation (AMSL):

0.0 meters

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.

Yes No N/A

E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?

Yes No N/A

E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.

Yes No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as

Yes No

E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as

Yes 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?

Yes No

FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.

POINTS OF COMMUNICATION

Satellite Name: TELSTAR 19V | TELSTAR 19V | 63 W.L. If you selected OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name:TELSTAR 19V | TELSTAR 19V | 63 W.L. If you selected OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name:TELSTAR 19V | TELSTAR 19V | 63 W.L. If you selected OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name:TELSTAR 19V | TELSTAR 19V | 63 W.L. If you selected OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier:	
E26. Common Name:	E27. Country:

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____dBi at ____GHz)
TR3.5M	TR3.5	50000	ASC SIGNAL CORP.	ES35SRT-1	0.0	0.0 dBi at
TR3.5M	TR3.5	50000	ASC SIGNAL CORP.	ES35SRT-1	0.0	0.0 dBi at

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)
TR3.5	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
TR3.5	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0

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)

E50. Modulation and Services

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
TR3.5	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign	E66. Phone Number
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.	

E62. Street Address

E63. City	E68. County	E67/68. State/Country	E64. Zip Code
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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: TR3.5M	E5. Call Sign: E060445
E2. Contact Name: Hughes Network Management Center	E6. Phone Number: 301-428-7205
E3. Street:	E7. City:
E4. State	E8. County:
E10. Area of Operation:	E9. Zip Code
E11. Latitude: 0 ° 0 ' 0.0 "	CONUS, AK, HI, PR, VI
E12. Longitude: 0 ° 0 ' 0.0 "	
E13. Lat/Lon Coordinates are:	<input type="radio"/> NAD-27 <input type="radio"/> NAD-83 <input checked="" type="radio"/> N/A
E14. Site Elevation (AMSL):	0.0 meters

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input checked="" type="radio"/> Yes <input type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
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? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	<input type="radio"/> Yes <input checked="" type="radio"/> No

POINTS OF COMMUNICATION

Satellite Name: TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier:	
E26. Common Name:	E27. Country:

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____ dBi at ____ GHz)

TR3.5M	TR3.5	50000	ASC SIGNAL CORP.	ES35SRT-1	0.0	0.0 dBi at
TR3.5M	TR3.5	50000	ASC SIGNAL CORP.	ES35SRT-1	0.0	0.0 dBi at

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)
TR3.5	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
TR3.5	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0

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)
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E50. Modulation and Services

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
TR3.5	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign			E66. Phone Number			
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.						
E62. Street Address						
E63. City			E68. County		E67/68. State/Country	E64. Zip Code

**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:	TFTR1.2M	E5. Call Sign:	E060445
E2. Contact Name	Hughes Network Management Center	E6. Phone Number:	301-428-7205
E3. Street:		E7. City:	
E4. State		E8. County:	
E10. Area of Operation:		E9. Zip Code	CONUS, AK, HI, PR, VI
E11. Latitude:	0 ° 0 ' 0.0 "		
E12. Longitude:	0 ° 0 ' 0.0 "		
E13. Lat/Lon Coordinates are:	<input type="radio"/> NAD-27 <input type="radio"/> NAD-83 <input checked="" type="radio"/> N/A		
E14. Site Elevation (AMSL):	0.0 meters		

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
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E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input checked="" type="radio"/> Yes <input type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
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? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	<input type="radio"/> Yes <input checked="" type="radio"/> No

POINTS OF COMMUNICATION

Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier:	
E26. Common Name:	E27. Country:

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____dBi at ____GHz)	
TFTR1.2M	TFTR1.2	1000	AVL TECHNOLOGIES	1210K	0.0	0.0 dBi at	
TFTR1.2M	TFTR1.2	1000	AVL TECHNOLOGIES	1210K	0.0	0.0 dBi at	
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)
TFTR1.2	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
TFTR1.2	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0

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)
E50. Modulation and Services						

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle	E57. Antenna Elevation Angle	E58. Earth Station Azimuth Angle	E59. Antenna Elevation Angle	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
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				Eastern Limit	Eastern Limit	Western Limit	Western Limit	
TFTR1.2	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign			E66. Phone Number		
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.					
E62. Street Address					
E63. City		E68. County		E67/68. State/Country	E64. Zip Code

**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:	TFTR1.2M	E5. Call Sign: E060445		
E2: Contact Name	Hughes Network Management Center	E6. Phone Number: 301-428-7205		
E3. Street:		E7. City:		
E4. State		E8. County:		
E10. Area of Operation:		E9. Zip Code		
E11. Latitude:	0 ° 0 ' 0.0 "	CONUS, AK, HI, PR, VI		
E12. Longitude:	0 ° 0 ' 0.0 "			
E13. Lat/Lon Coordinates are:		<input type="radio"/> NAD-27	<input type="radio"/> NAD-83	<input checked="" type="radio"/> N/A
E14. Site Elevation (AMSL):		0.0 meters		

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input checked="" type="radio"/> Yes <input type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
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? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	<input type="radio"/> Yes <input checked="" type="radio"/> No

POINTS OF COMMUNICATION

Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:

E23. Orbit Location:	E24. Country:
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Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:
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E23. Orbit Location:	E24. Country:
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Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:
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E23. Orbit Location:	E24. Country:
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POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier:	
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E26. Common Name:	E27. Country:
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ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____dBi at ____GHz)
TFTR1.2M	TFTR1.2	1000	AVL TECHNOLOGIES	1210K	0.0	0.0 dBi at
TFTR1.2M	TFTR1.2	1000	AVL TECHNOLOGIES	1210K	0.0	0.0 dBi at

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)
TFTR1.2	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
TFTR1.2	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0

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)

E50. Modulation and Services

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
TFTR1.2	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign	E66. Phone Number
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NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.

E62. Street Address

E63. City	E68. County	E67/68. State/Country	E64. Zip Code
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**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:	TFTR74CM	E5. Call Sign: E060445
E2. Contact Name	Hughes Network Management Center	E6. Phone Number: 301-428-7205
E3. Street:		E7. City:
E4. State		E8. County:
E10. Area of Operation:		E9. Zip Code
E11. Latitude: 0 ° 0 ' 0.0 "		CONUS, AK, HI, PR, VI
E12. Longitude: 0 ° 0 ' 0.0 "		
E13. Lat/Lon Coordinates are:	<input type="radio"/> NAD-27	<input type="radio"/> NAD-83 <input type="radio"/> N/A
E14. Site Elevation (AMSL):	0.0 meters	

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input checked="" type="radio"/> Yes <input type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
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? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	<input type="radio"/> Yes <input checked="" type="radio"/> No

POINTS OF COMMUNICATION

Satellite Name: TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier:	
E26. Common Name:	E27. Country:

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____ dBi at ____ GHz)
TFTR74CM	74CM(TB)	25000	SKYWARE GLOBAL	AN8-074R	0.0	0.0 dBi at
TFTR74CM	74CM(TB)	25000	SKYWARE GLOBAL	AN8-074R	0.0	0.0 dBi at
TFTR74CM	74CM(TC)	25000	GD SATCOM	AN8-074P	0.0	0.0 dBi at
TFTR74CM	74CM(TC)	25000	GD SATCOM	AN8-074P	0.0	0.0 dBi at

TFTR74CM	74CM(TA)	25000	GD SATCOM	HNS1031929	0.0	0.0 dBi at	
TFTR74CM	74CM(TA)	25000	GD SATCOM	HNS1031929	0.0	0.0 dBi at	
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 all carriers(dBW)
74CM(TB)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
74CM(TB)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
74CM(TC)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
74CM(TC)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
74CM(TA)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
74CM(TA)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0

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 EIRP Density per Carrier(dBW/4kHz)
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E50. Modulation and Services

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
74CM(TB)	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
74CM(TC)	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
74CM(TA)	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign			E66. Phone Number		
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.					
E62. Street Address					
E63. City		E68. County		E67/68. State/Country	E64. Zip Code

**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:	TFTR74CM	E5. Call Sign:	E060445
E2. Contact Name	Hughes Network Management Center	E6. Phone Number:	301-428-7205
E3. Street:		E7. City:	
E4. State		E8. County:	
E10. Area of Operation:		E9. Zip Code	CONUS, AK, HI, PR, VI
E11. Latitude:	0 ° 0 ' 0.0 "		
E12. Longitude:	0 ° 0 ' 0.0 "		
E13. Lat/Lon Coordinates are:		<input type="radio"/> NAD-27	<input type="radio"/> NAD-83 <input checked="" type="radio"/> N/A
E14. Site Elevation (AMSL):		0.0 meters	

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input checked="" type="radio"/> Yes <input type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
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? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	<input type="radio"/> Yes <input checked="" type="radio"/> No

POINTS OF COMMUNICATION

Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier:	
E26. Common Name:	E27. Country:

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____dBi at ____GHz)
TFTR74CM	74CM(TB)	25000	SKYWARE GLOBAL	AN8-074R	0.0	0.0 dBi at
TFTR74CM	74CM(TB)	25000	SKYWARE GLOBAL	AN8-074R	0.0	0.0 dBi at
TFTR74CM	74CM(TC)	25000	GD SATCOM	AN8-074P	0.0	0.0 dBi at
TFTR74CM	74CM(TC)	25000	GD SATCOM	AN8-074P	0.0	0.0 dBi at
TFTR74CM	74CM(TA)	25000	GD SATCOM	HNS1031929	0.0	0.0 dBi at
TFTR74CM	74CM(TA)	25000	GD SATCOM	HNS1031929	0.0	0.0 dBi at

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 all carriers(dBW)
74CM(TB)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
74CM(TB)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
74CM(TC)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
74CM(TC)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
74CM(TA)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
74CM(TA)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0

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 EIRP Density per Carrier(dBW/4kHz)
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E50. Modulation and Services

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
74CM(TB)	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
74CM(TC)	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
74CM(TA)	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign				E66. Phone Number			
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.							
E62. Street Address							
E63. City			E68. County			E67/68. State/Country	E64. Zip Code

**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:	TFTR98CM	E5. Call Sign:	E060445
E2: Contact Name	Hughes Network Management Center	E6. Phone Number:	301-428-7205
E3. Street:		E7. City:	

E4. State	E8. County:
E10. Area of Operation:	E9. Zip Code
E11. Latitude: 0 ° 0 ' 0.0 "	CONUS, AK, HI, PR, VI
E12. Longitude: 0 ° 0 ' 0.0 "	
E13. Lat/Lon Coordinates are:	<input type="radio"/> NAD-27 <input type="radio"/> NAD-83 <input checked="" type="radio"/> N/A
E14. Site Elevation (AMSL):	0.0 meters

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input checked="" type="radio"/> Yes <input type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
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? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	<input type="radio"/> Yes <input checked="" type="radio"/> No

POINTS OF COMMUNICATION

Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier:	
E26. Common Name:	E27. Country:

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____dBi at ____GHz)
TFTR98CM	TFTR98(3)	10000	AVL TECHNOLOGIES	1010K	0.0	0.0 dBi at
TFTR98CM	TFTR98(3)	10000	AVL TECHNOLOGIES	1010K	0.0	0.0 dBi at
TFTR98CM	TFTR98(2)	10000	SKYWARE GLOBAL	AN8-098RAN-098KA	0.0	0.0 dBi at
TFTR98CM	TFTR98(2)	10000	SKYWARE GLOBAL	AN8-098RAN-098KA	0.0	0.0 dBi at
TFTR98CM	TFTR98CM	10000	GD SATCOM	AN8-098P	0.0	0.0 dBi at

TFTR98CM	TFTR98CM	10000	GD SATCOM	AN8-098P	0.0	0.0 dBi at	
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 all carriers(dBW)
TFTR98(3)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
TFTR98(3)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
TFTR98(2)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
TFTR98(2)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
TFTR98CM	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
TFTR98CM	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0

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 EIRP Density per Carrier(dBW/4kHz)
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E50. Modulation and Services

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
TFTR98(3)	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
TFTR98(2)	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
TFTR98CM	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign					E66. Phone Number			
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.								
E62. Street Address								
E63. City				E68. County			E67/68. State/Country	E64. Zip Code

**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:	TFTR98CM	E5. Call Sign:	E060445
E2: Contact Name	Hughes Network Management Center	E6. Phone Number:	301-428-7205

E3. Street:	E7. City:
E4. State	E8. County:
E10. Area of Operation:	E9. Zip Code
E11. Latitude: 0 ° 0 ' 0.0 "	CONUS, AK, HI, PR, VI
E12. Longitude: 0 ° 0 ' 0.0 "	
E13. Lat/Lon Coordinates are:	<input type="radio"/> NAD-27 <input type="radio"/> NAD-83 <input checked="" type="radio"/> N/A
E14. Site Elevation (AMSL):	0.0 meters

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input checked="" type="radio"/> Yes <input type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
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? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	<input type="radio"/> Yes <input checked="" type="radio"/> No

POINTS OF COMMUNICATION

Satellite Name: TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier:	
E26. Common Name:	E27. Country:

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____dBi at ____GHz)
TFTR98CM	TFTR98(3)	10000	AVL TECHNOLOGIES	1010K	0.0	0.0 dBi at
TFTR98CM	TFTR98(3)	10000	AVL TECHNOLOGIES	1010K	0.0	0.0 dBi at
TFTR98CM	TFTR98(2)	10000	SKYWARE GLOBAL	AN8-098RAN-098KA	0.0	0.0 dBi at
TFTR98CM	TFTR98(2)	10000	SKYWARE GLOBAL	AN8-098RAN-098KA	0.0	0.0 dBi at

TFTR98CM	TFTR98CM	10000	GD SATCOM	AN8-098P	0.0	0.0 dBi at
TFTR98CM	TFTR98CM	10000	GD SATCOM	AN8-098P	0.0	0.0 dBi at

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)
TFTR98(3)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
TFTR98(3)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
TFTR98(2)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
TFTR98(2)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
TFTR98CM	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
TFTR98CM	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0

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 EIRP Density per Carrier(dBW/4kHz)
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E50. Modulation and Services

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
TFTR98(3)	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
TFTR98(2)	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
TFTR98CM	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign			E66. Phone Number		
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.					
E62. Street Address					
E63. City		E68. County		E67/68. State/Country	E64. Zip Code

**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:

E5. Call Sign:

TR98CM E2: Contact Name Hughes Network Management Center E3: Street: E4: State E10: Area of Operation: E11: Latitude: 0 ° 0 ' 0.0 " E12: Longitude: 0 ° 0 ' 0.0 " E13: Lat/Lon Coordinates are: <input type="radio"/> NAD-27 <input type="radio"/> NAD-83 <input checked="" type="radio"/> N/A E14: Site Elevation (AMSL): 0.0 meters	E060445 E6: Phone Number: 301-428-7205 E7: City: E8: County: E9: Zip Code CONUS, AK, HI, PR, VI
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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.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input checked="" type="radio"/> Yes <input type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
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? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	<input type="radio"/> Yes <input checked="" type="radio"/> No

POINTS OF COMMUNICATION

Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier:	
E26. Common Name:	E27. Country:

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____dBi at ____GHz)
TR98CM	TR98CM(2)	25000	SKYWARE GLOBAL	AN8-098R	0.0	0.0 dBi at
TR98CM	TR98CM(2)	25000	SKYWARE GLOBAL	AN8-098R	0.0	0.0 dBi at
TR98CM	TR98CM(1)	25000	GD SATCOM	AN8-098P	0.0	0.0 dBi at
TR98CM	TR98CM(1)	25000	GD SATCOM	AN8-098P	0.0	0.0 dBi at

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)
TR98CM(2)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
TR98CM(2)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
TR98CM(1)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
TR98CM(1)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0

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 EIRP Density per Carrier(dBW/4kHz)
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E50. Modulation and Services

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
TR98CM(2)	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
TR98CM(1)	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign			E66. Phone Number		
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.					
E62. Street Address					
E63. City		E68. County		E67/68. State/Country	E64. Zip Code

**SATELLITE EARTH STATION AUTHORIZATIONS
FCC Form 312 - Schedule B:(Technical and Operational Description)**

FOR OFFICIAL USE ONLY

Location of Earth Station Site		E5. Call Sign: E060445	
E1: Site Identifier: TR98CM	E2: Contact Name Hughes Network Management Center	E6: Phone Number: 301-428-7205	E7: City:
E3: Street:	E4: State	E8: County:	E9: Zip Code
E10: Area of Operation:	CONUS, AK, HI, PR, VI		
E11. Latitude: 0 ° 0 ' 0.0 "	E13. Lat/Lon Coordinates are: <input type="radio"/> NAD-27 <input type="radio"/> NAD-83 <input checked="" type="radio"/> N/A		
E12. Longitude: 0 ° 0 ' 0.0 "	E14. Site Elevation (AMSL): 0.0 meters		

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input checked="" type="radio"/> Yes <input type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
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? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	<input type="radio"/> Yes <input checked="" type="radio"/> No

POINTS OF COMMUNICATION

Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier:	
E26. Common Name:	E27. Country:

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____dBi at ____GHz)
TR98CM	TR98CM(2)	25000	SKYWARE GLOBAL	AN8-098R	0.0	0.0 dBi at
TR98CM	TR98CM(2)	25000	SKYWARE GLOBAL	AN8-098R	0.0	0.0 dBi at
TR98CM	TR98CM(1)	25000	GD SATCOM	AN8-098P	0.0	0.0 dBi at
TR98CM	TR98CM(1)	25000	GD SATCOM	AN8-098P	0.0	0.0 dBi at

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)
TR98CM(2)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
TR98CM(2)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
TR98CM(1)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
TR98CM(1)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0

FREQUENCY

E28.	E43/44.	E45.	E46. Antenna	E47.	E48. Maximum EIRP	E49. Maximum ERIP
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Antenna Id	Frequency Bands(MHz)	T/R Mode	Polarization(H,V,L,R)	Emission Designator	per Carrier(dBW)	Density per Carrier(dBW/4kHz)
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E50. Modulation and Services

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
TR98CM(2)	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
TR98CM(1)	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign			E66. Phone Number		
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.					
E62. Street Address					
E63. City		E68. County		E67/68. State/Country	E64. Zip Code

**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:	TR74CM	E5: Call Sign:	E060445
E2: Contact Name	Hughes Network Management Center	E6: Phone Number:	301-428-7205
E3: Street:		E7: City:	
E4: State		E8: County:	
E10: Area of Operation:		E9: Zip Code	CONUS, AK, HI, PR, VI
E11: Latitude:	0 ° 0 ' 0.0 "		
E12: Longitude:	0 ° 0 ' 0.0 "		
E13: Lat/Lon Coordinates are:		<input type="radio"/> NAD-27	<input type="radio"/> NAD-83 <input checked="" type="radio"/> N/A
E14: Site Elevation (AMSL):		0.0 meters	

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input checked="" type="radio"/> Yes <input type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot	<input type="radio"/> Yes <input checked="" type="radio"/> No

of coordination contours as	
E20. FAA Notification - (See 47 CFR Part 17 and 47 CFR part 25.113(e)) 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? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	<input type="radio"/> Yes <input checked="" type="radio"/> No

POINTS OF COMMUNICATION

Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier:	
E26. Common Name:	E27. Country:

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____ dBi at ____ GHz)
TR74CM	74CM(FD)	5000000	SKYWARE GLOBAL	AN9-074	0.0	0.0 dBi at
TR74CM	74CM(FD)	5000000	SKYWARE GLOBAL	AN9-074	0.0	0.0 dBi at
TR74CM	74CM(FC)	5000000	SKYWARE GLOBAL	AN8-074R	0.0	0.0 dBi at
TR74CM	74CM(FC)	5000000	SKYWARE GLOBAL	AN8-074R	0.0	0.0 dBi at
TR74CM	74CM(FA)	5000000	GD SATCOM	AN8-074P	0.0	0.0 dBi at
TR74CM	74CM(FA)	5000000	GD SATCOM	AN8-074P	0.0	0.0 dBi at
TR74CM	74CM(FB)	5000000	GD SATCOM	HNS1031929	0.0	0.0 dBi at
TR74CM	74CM(FB)	5000000	GD SATCOM	HNS1031929	0.0	0.0 dBi at

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)
74CM(FD)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
74CM(FD)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
74CM(FC)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
74CM(FC)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
74CM(FA)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
74CM(FA)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
74CM(FB)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
74CM(FB)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0

FREQUENCY

E28.	E43/44.	E45.	E46. Antenna	E47.	E48. Maximum EIRP	E49. Maximum ERIP
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Antenna Id	Frequency Bands(MHz)	T/R Mode	Polarization(H,V,L,R)	Emission Designator	per Carrier(dBW)	Density per Carrier(dBW/4kHz)
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E50. Modulation and Services

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
74CM(FD)	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
74CM(FC)	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
74CM(FA)	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
74CM(FB)	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign			E66. Phone Number		
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.					
E62. Street Address					
E63. City		E68. County		E67/68. State/Country	E64. Zip Code

**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:	TR74CM	E5: Call Sign:	E060445	
E2: Contact Name	Hughes Network Management Center	E6: Phone Number:	301-428-7205	
E3: Street:		E7: City:		
E4: State		E8: County:		
E10: Area of Operation:		E9: Zip Code	CONUS, AK, HI, PR, VI	
E11: Latitude:	0 ° 0 ' 0.0 "			
E12: Longitude:	0 ° 0 ' 0.0 "			
E13: Lat/Lon Coordinates are:		<input type="radio"/> NAD-27	<input type="radio"/> NAD-83	<input checked="" type="radio"/> N/A
E14: Site Elevation (AMSL):		0.0 meters		

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input checked="" type="radio"/> Yes <input type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
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? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	<input type="radio"/> Yes <input checked="" type="radio"/> No

POINTS OF COMMUNICATION

Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier:	
E26. Common Name:	E27. Country:

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____dBi at ____GHz)	
TR74CM	74CM(FD)	5000000	SKYWARE GLOBAL	AN9-074	0.0	0.0 dBi at	
TR74CM	74CM(FD)	5000000	SKYWARE GLOBAL	AN9-074	0.0	0.0 dBi at	
TR74CM	74CM(FC)	5000000	SKYWARE GLOBAL	AN8-074R	0.0	0.0 dBi at	
TR74CM	74CM(FC)	5000000	SKYWARE GLOBAL	AN8-074R	0.0	0.0 dBi at	
TR74CM	74CM(FA)	5000000	GD SATCOM	AN8-074P	0.0	0.0 dBi at	
TR74CM	74CM(FA)	5000000	GD SATCOM	AN8-074P	0.0	0.0 dBi at	
TR74CM	74CM(FB)	5000000	GD SATCOM	HNS1031929	0.0	0.0 dBi at	
TR74CM	74CM(FB)	5000000	GD SATCOM	HNS1031929	0.0	0.0 dBi at	
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)
74CM(FD)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
74CM(FD)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0

74CM(FC)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
74CM(FC)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
74CM(FA)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
74CM(FA)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
74CM(FB)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
74CM(FB)	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0

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)
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E50. Modulation and Services

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
74CM(FD)	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
74CM(FC)	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
74CM(FA)	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
74CM(FB)	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign	E66. Phone Number
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NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.

E62. Street Address

E63. City	E68. County	E67/68. State/Country	E64. Zip Code
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**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:	TR69CM	E5. Call Sign:	E060445
E2: Contact Name	Hughes Network Management Center	E6. Phone Number:	301-428-7205

E3. Street:	E7. City:
E4. State	E8. County:
E10. Area of Operation:	E9. Zip Code
E11. Latitude: 0 ° 0 ' 0.0 "	CONUS, AK, HI, PR, VI
E12. Longitude: 0 ° 0 ' 0.0 "	
E13. Lat/Lon Coordinates are:	<input type="radio"/> NAD-27 <input type="radio"/> NAD-83 <input checked="" type="radio"/> N/A
E14. Site Elevation (AMSL):	0.0 meters

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input checked="" type="radio"/> Yes <input type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
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? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	<input type="radio"/> Yes <input checked="" type="radio"/> No

POINTS OF COMMUNICATION

Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier:	
E26. Common Name:	E27. Country:

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____dBi at ____GHz)	
TR69CM	69CM	1000000	SKYWARE GLOBAL	HNS-AN8-069R	0.0	0.0 dBi at	
TR69CM	69CM	1000000	SKYWARE GLOBAL	HNS-AN8-069R	0.0	0.0 dBi at	
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)
69CM	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
69CM	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0

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 EIRP Density per Carrier(dBW/4kHz)
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E50. Modulation and Services

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
69CM	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign			E66. Phone Number		
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.					
E62. Street Address					
E63. City		E68. County		E67/68. State/Country	E64. Zip Code

**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:	TR69CM	E5: Call Sign:	E060445
E2: Contact Name	Hughes Network Management Center	E6: Phone Number:	301-428-7205
E3: Street:		E7: City:	
E4: State		E8: County:	
E10: Area of Operation:		E9: Zip Code	CONUS, AK, HI, PR, VI
E11. Latitude:	0 ° 0 ' 0.0 "		
E12. Longitude:	0 ° 0 ' 0.0 "		
E13. Lat/Lon Coordinates are:		<input type="radio"/> NAD-27	<input type="radio"/> NAD-83 <input checked="" type="radio"/> N/A
E14. Site Elevation (AMSL):		0.0 meters	

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input checked="" type="radio"/> Yes <input type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
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?	<input type="radio"/> Yes <input checked="" type="radio"/> No

FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.

POINTS OF COMMUNICATION

Satellite Name: TELSTAR 19V | TELSTAR 19V | 63 W.L. If you selected OTHER, please enter the following:

E21. Common Name:

E22. ITU Name:

E23. Orbit Location:

E24. Country:

Satellite Name: TELSTAR 19V | TELSTAR 19V | 63 W.L. If you selected OTHER, please enter the following:

E21. Common Name:

E22. ITU Name:

E23. Orbit Location:

E24. Country:

Satellite Name: TELSTAR 19V | TELSTAR 19V | 63 W.L. If you selected OTHER, please enter the following:

E21. Common Name:

E22. ITU Name:

E23. Orbit Location:

E24. Country:

Satellite Name: TELSTAR 19V | TELSTAR 19V | 63 W.L. If you selected OTHER, please enter the following:

E21. Common Name:

E22. ITU Name:

E23. Orbit Location:

E24. Country:

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier:

E26. Common Name:

E27. Country:

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____dBi at ____GHz)		
TR69CM	69CM	1000000	SKYWARE GLOBAL	HNS-AN8-069R	0.0	0.0 dBi at		
TR69CM	69CM	1000000	SKYWARE GLOBAL	HNS-AN8-069R	0.0	0.0 dBi at		
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)	
69CM	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0	
69CM	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0	

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)
E50. Modulation and Services						

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
69CM	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign

E66. Phone Number

NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.

E62. Street Address

E63. City	E68. County	E67/68. State/Country	E64. Zip Code
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**SATELLITE EARTH STATION AUTHORIZATIONS
FCC Form 312 - Schedule B:(Technical and Operational Description)**

FOR OFFICIAL USE ONLY

Location of Earth Station Site		E5. Call Sign:	E060445
E1. Site Identifier:	TR90CM	E6. Phone Number:	301-428-7205
E2. Contact Name	Hughes Network Management Center	E7. City:	
E3. Street:		E8. County:	
E4. State		E9. Zip Code	
E10. Area of Operation:		CONUS, AK, HI, PR, VI	
E11. Latitude:	0 ° 0 ' 0.0 "		
E12. Longitude:	0 ° 0 ' 0.0 "		
E13. Lat/Lon Coordinates are:	<input type="radio"/> NAD-27	<input type="radio"/> NAD-83	<input checked="" type="radio"/> N/A
E14. Site Elevation (AMSL):	0.0 meters		

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
--	--

E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
--	---

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

E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
--	---

E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
--	---

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? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	<input type="radio"/> Yes <input checked="" type="radio"/> No
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POINTS OF COMMUNICATION

Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier:	
E26. Common Name:	E27. Country:

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmit and/or Receive(____dBi at ____GHz)
TR90CM	90CM	100000	GLOBAL SKYWARE	6116047-01	0.0	0.0 dBi at
TR90CM	90CM	100000	GLOBAL SKYWARE	6116047-01	0.0	0.0 dBi at

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 all carriers(dBW)
90CM	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
90CM	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0

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 EIRP Density per Carrier(dBW/4kHz)
E50. Modulation and Services						

E50. Modulation and Services

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
90CM	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign			E66. Phone Number			
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.						
E62. Street Address						
E63. City		E68. County		E67/68. State/Country		E64. Zip Code

**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:	TR90CM	E5. Call Sign:	E060445
E2: Contact Name	Hughes Network Management Center	E6. Phone Number:	301-428-7205
E3. Street:		E7. City:	
E4. State		E8. County:	
E10. Area of Operation:		E9. Zip Code	CONUS, AK, HI, PR, VI
E11. Latitude:	0 ° 0 ' 0.0 "		
E12. Longitude:	0 ° 0 ' 0.0 "		
E13. Lat/Lon Coordinates are:	<input type="radio"/> NAD-27 <input type="radio"/> NAD-83 <input checked="" type="radio"/> N/A		
E14. Site Elevation (AMSL):	0.0 meters		

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input checked="" type="radio"/> Yes <input type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
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? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	<input type="radio"/> Yes <input checked="" type="radio"/> No

POINTS OF COMMUNICATION

Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier:	
E26. Common Name:	E27. Country:

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____ dBi at ____ GHz)		
TR90CM	90CM	100000	GLOBAL SKYWARE	6116047-01	0.0	0.0 dBi at		
TR90CM	90CM	100000	GLOBAL SKYWARE	6116047-01	0.0	0.0 dBi at		
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)
90CM	0.0/0.0		0.0	0.0	0.0	0.0	0.0	0.0
90CM	0.0/0.0		0.0	0.0	0.0	0.0	0.0	0.0

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)
E50. Modulation and Services						

FREQUENCY COORDINATION

E28. Antenna	E51. Satellite Orbit Type	E52/53. Frequency	E54/55. Range of Satellite Arc	E56. Earth Station	E57. Antenna	E58. Earth Station	E59. Antenna	E60. Maximum EIRP Density
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Id		Limits(MHz)	Eastern/Western Limit	Azimuth Angle Eastern Limit	Elevation Angle Eastern Limit	Azimuth Angle Western Limit	Elevation Angle Western Limit	toward the Horizon(dBW/4kHz)
90CM	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign		E66. Phone Number	
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.			
E62. Street Address			
E63. City	E68. County	E67/68. State/Country	E64. Zip Code

**SATELLITE EARTH STATION AUTHORIZATIONS
FCC Form 312 - Schedule B:(Technical and Operational Description)**

FOR OFFICIAL USE ONLY

Location of Earth Station Site		E5. Call Sign: E060445	
E1: Site Identifier: TR1.8M	E2: Contact Name Hughes Network Management Center	E6. Phone Number: 301-428-7205	
E3. Street:	E7. City:	E8. County:	E9. Zip Code
E4. State	CONUS, AK, HI, PR, VI		
E10. Area of Operation:			
E11. Latitude: 0 ° 0 ' 0.0 "			
E12. Longitude: 0 ° 0 ' 0.0 "			
E13. Lat/Lon Coordinates are:	<input type="radio"/> NAD-27	<input type="radio"/> NAD-83	<input checked="" type="radio"/> N/A
E14. Site Elevation (AMSL):	0.0 meters		

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input checked="" type="radio"/> Yes <input type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
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? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	<input type="radio"/> Yes <input checked="" type="radio"/> No

POINTS OF COMMUNICATION

Satellite Name: TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: TELSTAR 19V | TELSTAR 19V | 63 W.L. If you selected OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

Satellite Name: TELSTAR 19V | TELSTAR 19V | 63 W.L. If you selected OTHER, please enter the following:

E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier:	
E26. Common Name:	E27. Country:

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____ dBi at ____ GHz)		
TR1.8M	TR1.8	50000	GD SATCOM	3180-131	0.0	0.0 dBi at		
TR1.8M	TR1.8	50000	GD SATCOM	3180-131	0.0	0.0 dBi at		
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)
TR1.8	0.0/0.0		0.0	0.0	0.0	0.0	0.0	0.0
TR1.8	0.0/0.0		0.0	0.0	0.0	0.0	0.0	0.0

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)

E50. Modulation and Services

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
TR1.8	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign		E66. Phone Number	
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.			
E62. Street Address			
E63. City	E68. County	E67/68. State/Country	E64. Zip Code

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:	TR1.8M	E5. Call Sign: E060445
E2. Contact Name	Hughes Network Management Center	E6. Phone Number: 301-428-7205
E3. Street:		E7. City:
E4. State		E8. County:
E10. Area of Operation:		E9. Zip Code
E11. Latitude:	0 ° 0 ' 0.0 "	CONUS, AK, HI, PR, VI
E12. Longitude:	0 ° 0 ' 0.0 "	
E13. Lat/Lon Coordinates are:	<input type="radio"/> NAD-27	<input type="radio"/> NAD-83
E14. Site Elevation (AMSL):	<input checked="" type="radio"/> N/A	
	0.0 meters	

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input checked="" type="radio"/> Yes <input type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
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? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	<input type="radio"/> Yes <input checked="" type="radio"/> No

POINTS OF COMMUNICATION

Satellite Name: TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name: TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier:	
E26. Common Name:	E27. Country:

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____ dBi at ____ GHz)		
TR1.8M	TR1.8	50000	GD SATCOM	3180-131	0.0	0.0 dBi at		
TR1.8M	TR1.8	50000	GD SATCOM	3180-131	0.0	0.0 dBi at		
E28. Antenna Id	E33/34. Diameter Minor/Major(meters)	E35. Above Ground Level(meters)	E36. Above Sea Level(meters)	E37. Building Height Above	E38. Total Input Power	E39. Maximum Antenna Height	E40. Total EIRP for al carriers(dBW)	

				Ground Level(meters)	at antenna flange(Watts)	Above Rooftop(meters)	
TR1.8	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
TR1.8	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0

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)
E50. Modulation and Services						

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
TR1.8	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign	E66. Phone Number		
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.			
E62. Street Address			
E63. City	E68. County	E67/68. State/Country /	E64. Zip Code

**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: TR1.2M	E5. Call Sign: E060445
E2: Contact Name Hughes Network Management Center	E6. Phone Number: 301-428-7205
E3. Street:	E7. City:
E4. State	E8. County:
E10. Area of Operation:	E9. Zip Code
E11. Latitude: 0 ° 0 ' 0.0 "	CONUS, AK, HI, PR, VI
E12. Longitude: 0 ° 0 ' 0.0 "	
E13. Lat/Lon Coordinates are:	<input type="radio"/> NAD-27 <input type="radio"/> NAD-83 <input checked="" type="radio"/> N/A
E14. Site Elevation (AMSL):	0.0 meters

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input checked="" type="radio"/> Yes <input type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No

E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
E20. FAA Notification - (See 47 CFR Part 17 and 47 CFR part 25.113(e)) 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? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	<input type="radio"/> Yes <input checked="" type="radio"/> No

POINTS OF COMMUNICATION

Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier:	
E26. Common Name:	E27. Country:

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____ dBi at ____ GHz)
TR1.2M	TR1.2	100000	GD SATCOM	3120-131	0.0	0.0 dBi at
TR1.2M	TR1.2	100000	GD SATCOM	3120-131	0.0	0.0 dBi at

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)
TR1.2	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0
TR1.2	0.0/0.0	0.0	0.0	0.0	0.0	0.0	0.0

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)
E50. Modulation and Services						

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
TR1.2	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign	E66. Phone Number
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NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.

E62. Street Address			
E63. City	E68. County	E67/68. State/Country /	E64. Zip Code

**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:	TR1.2M	E5. Call Sign:	E060445
E2. Contact Name	Hughes Network Management Center	E6. Phone Number:	301-428-7205
E3. Street:		E7. City:	
E4. State		E8. County:	
E10. Area of Operation:		E9. Zip Code	CONUS, AK, HI, PR, VI
E11. Latitude:	0 ° 0 ' 0.0 "		
E12. Longitude:	0 ° 0 ' 0.0 "		
E13. Lat/Lon Coordinates are:	<input type="radio"/> NAD-27	<input type="radio"/> NAD-83	<input checked="" type="radio"/> N/A
E14. Site Elevation (AMSL):	0.0 meters		

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non-geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	<input checked="" type="radio"/> Yes <input type="radio"/> No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	<input type="radio"/> Yes <input checked="" type="radio"/> No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	<input type="radio"/> Yes <input checked="" type="radio"/> No
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? FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	<input type="radio"/> Yes <input checked="" type="radio"/> No

POINTS OF COMMUNICATION

Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:
Satellite Name:TELSTAR 19V TELSTAR 19V 63 W.L. If you selected OTHER, please enter the following:	
E21. Common Name:	E22. ITU Name:
E23. Orbit Location:	E24. Country:

POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier:	
E26. Common Name:	E27. Country:

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna Gain Transmint and/or Recieve(____ dBi at ____ GHz)		
TR1.2M	TR1.2	100000	GD SATCOM	3120-131	0.0	0.0 dBi at		
TR1.2M	TR1.2	100000	GD SATCOM	3120-131	0.0	0.0 dBi at		
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)
TR1.2	0.0/0.0		0.0	0.0	0.0	0.0	0.0	0.0
TR1.2	0.0/0.0		0.0	0.0	0.0	0.0	0.0	0.0

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)
E50. Modulation and Services						

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)
TR1.2	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0
	Geostationary	29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0

REMOTE CONTROL POINT LOCATION

E61. Call Sign	E66. Phone Number		
NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.			
E62. Street Address			
E63. City	E68. County	E67/68. State/Country	E64. Zip Code

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