### Approved by OMB 3060-0678

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

FCC AF	PPLICATION FOR SPACE A	AND EARTH STATION:MOD FORM	OR AMD - MAIN	FCC Use Only								
	FCC 312 MAIN FC	ORM FOR OFFICIAL USE ONLY										
APPLICA	APPLICANT INFORMATION											
	scription of this application to ion of E060445 to Add T19V	identify it on the main menu:										
1-8. Legal 1	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(	a)echostar.com								
City:	Germantown	State:	MD									
Country:	USA	Zipcode:	20876 <b>-</b>									
Attention:	Jennifer Manner											
9-16. Name	e of Contact Representative											
Name:	Jennifer Manner	Phone Number:	301-428-5893									
	HNS License Sub, LLC	Fax Number:	301-428-2818									
Street:	11717 Exploration Lane	E-Mail:	jennifer.manner(	a)echostar.com								
City:	Germantown	State:	MD									
Country:	USA	Zipcode:	20876-									
Attention:		Relationship:										
	FICATION OF FILING											
I7. 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.       (N/A) b1. Application for Registration of New Domestic Receive-Only Station         17b.       a1. Earth Station       b3. Amendment to a Pending Application         a2. Space Station       b4. Modification of License or Registration         b5. Assignment of License or Registration       b7. Notification of Minor Modification         (N/A) b8. Application for License or Registration       b6. Transfer of Control of License or Registration         b6. Transfer of Control of License of New Receive-Only Station Using Non-U.S. Licensed Satellite       (N/A) b9. Letter of Intent to Use Non-U.S. Licensed Satellite         (N/A) b10. Other (Please specify)       (N/A) b11. Application for Database Entry       b13. Amendment to a Pending Database Entry												
If Yes,	e submitted with this application? complete and attach FCC Form 159. ate reason for fee exemption (see 47.0	C.F.R.Section 1.1114).										
Govern Other(j	nmental Entity Noncommercial e please explain):											
17d. Fee Clas	sification CGV - Fixed Satellit	e VSAT System										
18. If this f station, ent	iling is in reference to an existing er:	19. If this filing is an amendment to a please enter only the file number:	pending application enter l	both fields, if this filing is a modification								
(a) Call sig E060445	n of station:	(a) Date pending application was filed	: (b) File	number:								

	SESMOD2017072600811									
TYPE OF	SERVICE									
20. NATURE OF SERVICE: This filing is for an authorization to provide or use										
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)										
	22. If earth station applicant, check all that apply.									
21. STATUS: Choose the button next to the applicable status. Choose only one.	✓ Using U.S. licensed satellites									
Common Carrier Non-Common Carrier	✓ Using Non-U.S. licensed satellites									
23. If applicant is providing INTERNATIONAL COMMON CARRIER service, s										
Connected to a Public Switched Network O Not connected to a Public Sw										
24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all applicable fr										
a. C-Band (4/6 GHz) b. Ku-Band (12/14 GHz)	equency band(s).									
<ul> <li>✓ a. C-Band (4/0 GHZ)</li> <li>✓ b. Ku-Band (12/14 GHZ)</li> <li>✓ c.Other (Please specify upper and lower frequencies in MHz.)</li> </ul>										
Frequency Lower: 18300 Frequency Upper: 30000 (Please specify addition	al frequencies in an attachment)									
	STATION									
25. CLASS OF STATION: Choose the button next to the class of station that app										
	nes. 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 N	NODIFICATION									
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										
<ul> <li>b authorization to change emission designator and related service</li> </ul>										
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)										
<ul> <li>h authorization to add frequency</li> </ul>										
<ul> <li>✓ i authorization to add Points of Communication (satellites &amp; countries)</li> </ul>										
<ul> <li>j authorization to change Points of Communication (satellites &amp; countries)</li> </ul>										
$\mathbf{k}$ - authorization for facilities for which environmental assessment and	,									
radiation hazard reporting is required										
□ 1 authorization to change orbit location										
m authorization to perform fleet management										
n authorization to extend milestones										
o Other (Please specify)										
FNVIRONME	NTAL POLICY									
28. Would a Commission grant of any proposal in this application or amendment										
120. would a Commission grant of any proposal in this application of amendment	i nave a significant environmental impact as									

new transmitting facilities, major modifications, or major amendments.

47 C.F.R. 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for

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

# 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?	Ves No
30. Is the applicant an alien or the representative of an alien?	Yes No N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	○ Yes ○ No ● N/A
32. Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	○ Yes ○ No ◎ N/A
33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	○ Yes ○ No ◎ N/A
34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.	

#### **BASIC QUALIFICATIONS**

35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules? If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.	Ves No
36. Has the applicant or any party to this application or amendment had any FCC station authorization or license revoked or had any application for an initial, modification or renewal of FCC station authorization, license, or construction permit denied by the Commission? If Yes, attach as an exhibit, an explination of circumstances.	Yes No 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 explination of circumstances.	Ves No
38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition?If Yes, attach as an exhibit, an explanation of circumstances	○ Yes <sup>®</sup> No
39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhinit, an explanation of the circumstances.	Ves 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>	● Yes ○ No
42a. Does the applicant intend to use a non-U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in <i>47 C.F.R. 25.137, as appropriate</i> . If No, proceed to question 43.	• Yes • No
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, what admin the process of coordinating the space station?United Kingdom	istration has coordinated or is in
43. Description. (Summarize the nature of the application and the services to be provided). Seeking modifications to add t a point of communication and to update related frequency coordination limits. See Exhibit 1.Exhibit 1	he Telstar 19V satellite as
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.	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.	₿
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.	• c

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because of the previous u that grant of this applicat are a material part hereof	CERTII y claim to the use of any particular frequency or of the use of the same, whether by license or otherwise, and re tion would not cause the applicant to be in violation of f and are incorporated herein as if set out in full in this in this application and in all attached exhibits are true,	equests an authorization in accordance v the spectrum aggregation limit in 47 CF application. The undersigned, individua	with this app FR Part 20 Ily and for t	olication. Th All statemen the applican	ne applicant certifie nts made in exhibit nt, hereby certifies
_	Choose the button next to applicable response.)				
<ul> <li>Individual</li> <li>Unincorporated As</li> <li>Partnership</li> <li>Corporation</li> <li>Governmental Ent</li> <li>Other (please spec</li> </ul>	ity				
45. Name of Person Sig Jennifer Manner	ning	46. Title of Person Signing Senior Vice President, Regula	tory Affa	irs	
	L FALSE STATEMENTS MADE ON THIS FORM (U.S. Code, Title 18, Section 1001), AND/OR REV (U.S. Code, Title 47, Section 312(a)(1)), AND/OR	I ARE PUNISHABLE BY FINE AND OCATION OF ANY STATION AUT	) / OR IMP HORIZAT	RISONME ION	ENT
·	SATELLITE EARTH STA	TION AUTHORIZATIO	NS		
	FCC Form 312 - Schedule B:(Tec	hnical and Operational De	escriptio	on)	
	FOR OFFIC	IAL USE ONLY			
Location of Earth Station			E0(0)	145	
E1: Site Identifier: E2: Contact Name	TR3.5M Hughes Network Management Center	E5. Call Sign: E6. Phone Number:	E0604	145 28-7205	
E3. Street:	Hughes Network Management Center	E7. City:	501-4	20-7205	
		E8. County:			
E4. State		E9. Zip Code			
E10. Area of Operation:		CONUS, AK, HI, P	R, VI		
E11. Latitude:	0 ° 0 ' 0.0 "				
E12. Longitude:	0 ° 0 ' 0.0 "				
E13. Lat/Lon Coordinate	es are:	• NAD-27	○ NA	AD-83	• N/A
E14. Site Elevation (AM	ISL):	0.0 meters			
antenna(s) comply with t	nna(s) operate in the Fixed Satellite Service (FSS) with he antenna gain patterns specified in Section 25.209(a) nt? If NO, provide as a technical analysis showing com	and (b) as demonstrated by the manufa	cturer's	• Yes	○ No ○ N/2
E16. If the proposed ante Service (FSS) with non-g	enna(s) do not operate in the Fixed Satellite Service (FS geostationary satellites, do(es) the proposed antenna(s) b) as demonstrated by the manufacturer's qualification	SS), or if they operate in the Fixed Satel comply with the antenna gain patterns s	lite	Yes	○ No ● N/2
E17. Is the facility operated	ted by remote control? If YES, provide the location and	d telephone number of the control point.		• Yes	O No
E18. Is frequency co	pordination required? If YES, attach a freque	ncy coordination report as		• Yes	No
E19. Is coordination of coordination cont	with another country required? If YES, attac ours as	ch the name of the country(ies) a	and plot	• Yes	No
required, have you	ion - (See 47 CFR Part 17 and 47 CFR par attached a copy of a completed FCC Forn ntial hazard of the structure to aviation?		cation is	• Yes	• No

reg 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:

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E21. Cor	nmon Name:							E2	22. IT	TU Name:				
E23. Orb	E23. Orbit Location:       E24. Country:         Satellite Name:TELSTAR 19V   TELSTAR 19V   63 W.L. If you selected OTHER, please enter the following:													
Satellite	Name:TELST	FAR 19V	/   TEL	STAR 19V	63 W.L	. If yo	u select	ted O	THEI	R, please enter	the f	following	g:	
E21. Cor	nmon Name:							E	22. IT	TU Name:				
E23. Orb	it Location:							E	24. C	Country:				
Satellite	Name:TELS	FAR 193	Z   TEL	STAR 19V	63 W.L	. If vo	u select	ted O	THE	R, please enter	the f	following	<i>.</i>	
	nmon Name:									TU Name:				
	it Location:									Country:				
<u> </u>		FAR 193	/   TEL	STAR 19V	63 W I	Ifvo	u select			R, please enter	the f	Collowing	<b>.</b>	
	nmon Name:					je				TU Name:				
	it Location:									Country:				
	F COMMUNIC	CATION (	Destinat	ion Points)						ound j.				
1	Identifier:			,										
E26. Con	nmon Name:								E	27. Country:				
ANTENNA														
Site ID	E28. Antenna Id	E29. Quant		E30. anufacturer	E31		E32 Anten Size	na		E41/42. Ant Recieve		Gain TidBi at		nt and/or GHz)
TR3.5M	TR3.5	50000	CO	C SIGNAL RP.	ES35S 1	0	.0		0.0 c	dBi at				
TR3.5MTR3.550000ASC SIGNAL CORP.ES35SRT- 10.00.0 dBi at														
E28. Antenna Id	E28. Antenna Id E33/34. Diameter Minor/Major(meters) Lovel(metors) E35. Above Ground Lovel(metors) Lovel(metors) E36. Above Sea Ground Ground Covel Lovel(metors) Covel Ground Covel											E39. Maximum Antenna Height Above Rooftop(meters)		
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
FREQUEN E28. Antenna Id	E43/4	ncy	E45. T/R Mode	E46. Ar Polarization		<b>K</b> /1	E47. Emissi Designa	on		. Maximum E r Carrier(dBV			Densi	mum ERIP ty per BW/4kHz)
E50. Moo	dulation and S	Services												
FREQUEN	CY COORDIN	ATION		-1		-								
E28. Antenna Id	E51. Satelli Orbit Type	te Free	52/53. quency ts(MHz		ite Arc Vestern iit	Sta Aziı An Eas	Earth tion muth ngle stern mit	Ant Elev An Eas Li	57. enna atior gle tern mit	n Azimuth Angle Western Limit	Ai Ele W	E59. ntenna evation Angle /estern Limit	EI to	). Maximum RP Density oward the on(dBW/4kHz)
TR3.5	Geostationa	•				107.0		5.0		267.8	69.2		0.0	
<u> </u>	Geostationa	<u> </u>		_		107.0		5.0		267.8	69.2		0.0	
<u> </u>	Geostationa	-				107.0		5.0		267.8	69.2		-20.0	
DEMOTE	Geostationa	•		63.0/138.9	)	107.0		5.0		267.8	69.2	2	-20.0	
E61. Call S	ase enter the cal			ing station, no	t the callsi	gn for v	which this	s applic	cation		66. Pl	none Numb	ber	
E63. City						E68. Co	ounty				]	E67/68. Sta	ate/Coun	try E64. Zip Code
			SAT	ELLITE	EARTI	H ST	ATIO	N AU	JTH	IORIZATIC	NS			

# FCC Form 312 - Schedule B:(Technical and Operational Description)

## FOR OFFICIAL USE ONLY

Location o	f Earth Station S	lite									
E1: Site Id	lentifier:	TR3.5M				E5.	Call Sign:	E0604	45		
E2: Contac	ct Name	Hughes Net	work Manageme	nt Center		E6.	Phone Number:	301-42	28-7205		
E3. Street:		•	-			E7.	City:				
						E8.	County:				
E4. State							Zip Code				
E10. Area	of Operation:					CC	NUS, AK, HI,	PR, VI			
E11. Latiti											
E12. Long	2. Longitude: $0 \circ 0' 0.0"$										
E13. Lat/L	on Coordinates	are:				$\bigcirc$	NAD-27	○ NA	AD-83		N/A
E14. Site I	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.										○ No	○ N/A
Service (FS	SS) with non-geo	ostationary sate	erate in the Fixed Sat ellites, do(es) the prop ed by the manufacture	oosed antenna	(s) comply with	the a			• Yes	○ No	• N/A
E17. Is the	facility operated	l by remote co	ntrol? If YES, provid	e the location	and telephone r	numbe	r of the control poin	nt.	• Yes	$\bigcirc$	No
E18. Is fi	requency coor	rdination rec	quired? If YES, a	ttach a freq	uency coord	inatio	on report as		• Yes	۲	No
	oordination w nation contou		country required	? If YES, at	ttach the nam	ne of	the country(ies)	and plot	• Yes	۲	No
required regardin FAILUR	l, have you an g the potent	ttached a co ial hazard o PLY WITH	CFR Part 17 an opy of a complet of the structure t I 47 CFR PARTS	ed FCC Fo	orm 854 and ?	/or t	he FAA's study	,	• Yes	۲	No
POINTS O	F COMMUNIC	CATION									
Satellite	Name:TELS	FAR 19V   7	TELSTAR 19V   (	63 W.L. If y	ou selected	OTH	ER, please ente	r the follow	ving:		
E21. Cor	nmon Name:					E22.	ITU Name:				
E23. Orb	oit Location:					E24.	Country:				
Satellite	Name:TELS	FAR 19V   7	TELSTAR 19V   0	63 W.L. If y	ou selected	OTH	ER, please ente	r the follow	ving:		
E21. Cor	nmon Name:					E22.	ITU Name:				
E23. Orb	oit Location:					E24.	Country:				
Satellite	Name:TELS	FAR 19V   7	TELSTAR 19V   0	63 W.L. If y	ou selected	OTH	ER, please ente	r the follow	ving:		
E21. Cor	nmon Name:					E22.	ITU Name:				
E23. Orb	oit Location:					E24.	Country:				
Satellite	Name:TELS	FAR 19V   7	TELSTAR 19V   (	63 W.L. If y	ou selected	ОТН	ER, please ente	r the follow	ving:		
	nmon Name:	· · · ·	· ·				ITU Name:				
E23. Orb	oit Location:					E24.	Country:				
		CATION (Des	tination Points)								
	Identifier:										
E26. Cor	nmon Name:						E27. Country:				
ANTENNA							··				
Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size		E41/42. An Reciev			nint and _GHz)	l/or

25/2021						HTN	1L (18).ht	m				
TR3.5M	TR3.5	50000	ASC SIGNAL CORP.	1		0	0.	0 d	Bi at			
TR3.5M	TR3.5	50000	ASC SIGNAL CORP.	ES35S 1	RT-0.	0	0.	0 d	Bi at			
E28. Antenna Id	E33/34. D Minor/Majo		E35. Above Ground Level(meters)			a Heigi		e	E38. Total Input Power at antenna flange(Watts)	E39. Ma Antenna Abo Rooftop(	Height ve	E40. Total EIRP for al carriers(dBV
TR3.5	0.0/0.0		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
FREQUEN	CY		1L31			31				31		31
E28. Antenna Id	E43/44 Frequen Bands(M	icy T/	R E46. Al		K MI	E47. Emissi esigna	on E <sup>2</sup>		Maximum EI Carrier(dBW		Dens	mum ERIP ity per  BW/4kHz)
E50. Mod	lulation and S	Services										
FREQUEN	CY COORDIN	ATION										
E28. Antenna Id	E51. Satellit Orbit Type	Hroand	ency of Satell	ite Arc Western	E56. Stat Azin An East Liu	nuth gle tern	E57 Anten Elevat Angl Easter Limi	na ion e rn	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit		0. Maximum IRP Density toward the ton(dBW/4kH
TR3.5	Geostationar	y 19700 20	0200 63.0/138.9	9	107.0		5.0		267.8	69.2	0.0	
	Geostationar	y 19700 20	0200 63.0/138.9	9	107.0		5.0		267.8	69.2	0.0	
	Geostationar	y 29250 30	0000 63.0/138.9	9	107.0		5.0		267.8	69.2	-20.0	
	Geostationar	v 29250 30	0000 63.0/138.9	9	107.0		5.0		267.8	69.2	-20.0	
E62. Street		sign of the co	ntrolling station, no		gii ioi w		sapplicati		s being med.			
E63. City					E68. Cc	ounty				E67/68.	State/Cour	ntry E64. Zip Co
			ATELLITE 1 rm 312 - Sche	edule B	:(Tec	hnica		Dp			1)	
E1: Site Ide E2: Contac E3. Street: E4. State		TFTR1.2M	twork Managem	nent Cent	ter		E6. E7. E8. E9.	. Pho . Cit . Co . Zip	ll Sign: one Number: ty: ounty: o Code US, AK, HI, P	E06044 301-423 R, VI		
E11. Latitu E12. Longi		0 ° 0 ' 0.0 " 0 ° 0 ' 0.0 "										
	on Coordinates a levation (AMSL								AD-27 eters	• NAI	D-83	• N/A
antenna(s) o	comply with the	antenna gain	n the Fixed Satellite patterns specified in de as a technical ana	Section 2	5.209(a)	and (b)	as demon	stra	ted by the manufa	cturer's	• Yes	○No ○N/

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#### HTML (18).htm

Id															
E28. Antenna		Frequ	ency	of Satell	ite Aro	e 🛛 Sta							0. Maxim IRP Densi		
	CY COORDINA	1		1								1			
E50. Mod	lulation and Se	rvices													
E28. Antenna Id	E43/44.	у    Т	45. 7/R ode	E46. Aı olarizatior		I B/	E47. Emissi Designa	on 📲		Maximum EII Carrier(dBW	KP		imum ER ity per IBW/4kHz		
FREQUEN			0.0		0.0		0.0		0	7.0	0.0		0.0		
TFTR1.2 TFTR1.2			0.0		0.0		0.0			0.0	0.0		0.0		
E28. Antenna Id TFTR1.2	Minor/Major		) C Leve	5. Above Ground el(meters)	S Level(	Above Sea (meters	) Heig G Leve	Build ht Abo round l(mete	ove	E38. Total Input Power at antenna flange(Watts)	Anten A Roofto	Aaximum na Height bove p(meters)	E40. T EIRP for carriers(	or al	
TFTR1.21	M TFTR1.2	1000	A	VL ECHNOLC		1210K	0.0		0.0	dBi at					
TFTR1.2	M TFTR1.2	1000		VL ECHNOLC	GIES	1210K			0.0	dBi at					
Site ID	E28. Antenna Id	E29 Quant		E30. Manufactu	ırer	E31. Model	Ant	32. tenna ize		E41/42. Ante Recieve		ain Transr Bi at		or	
E26. Com	mon Name:								E2	7. Country:					
	Identifier:														
POINTS OF	F COMMUNICA	TION (De	estinatio	on Points)						J					
	it Location:									ountry:					
	Name:TELSTA	IK 19V	TELS	01AK 19V	03 W.	. п ус	ou select			, please enter t U Name:	ne 10110	wing:			
	it Location:	D 1017	TELO	TAD 1017	(2 117	I IC				puntry:	ha fa11				
	nmon Name:									U Name:					
	Name:TELSTA	R 19V	TELS	STAR 19V	63 W.	.L. If yo	ou select				he follo	wing:			
	it Location:									ountry:					
	nmon Name:									U Name:					
Satellite N	Name:TELSTA	R 19V	TELS	STAR 19V	63 W.	.L. If yo	ou select				he follo	wing:			
E23. Orbi	it Location:							E2	24. Co	ountry:					
E21. Con	nmon Name:							E2	2. ITU	U Name:					
-	Name:TELSTA		TELS	STAR 19V	63 W.	.L. If yo	ou select	ted OT	THER	, please enter t	he follo	wing:			
OF THIS	APPLICATI	ON.													
required, regarding	220. FAA Notification - (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is equired, have you attached a copy of a completed FCC Form 854 and/or the FAA's study egarding the potential hazard of the structure to aviation? AILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN													0	
	219. Is coordination with another country required? If YES, attach the name of the country(ies) and plot f coordination contours as 220 EAA Notification - (See 47 CER Part 17 and 47 CER part 25 113(c)) Where EAA notification is													0	
	19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot													0	
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point. E18. Is frequency coordination required? If YES, attach a frequency coordination report as Yes No													0		
Section 25.2	209(a2) and (b) as	demonstra	ated by	the manufactu	irer's qua	alification	n measure	ements?			pecified in	<u> </u>			
	proposed antenna(s S) with non-geosta											Yes	No	N/A	

25/2021				HT	ML (18).htm					
				Eastern Limit	Eastern Limit	Western Limit	Western Limit			
TFTR1.2	-	19700 20200		107.0	5.0	267.8	69.2	0.0		
			63.0/138.9	107.0	5.0	267.8	69.2	0.0		
		29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0		
		29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0		
E61. Call S	ase enter the callsi		ng station, not the cal	lsign for which th	is application is		E66. Phone Nu	umber		
E63. City				E68. County			E67/68.	State/Coun	try E64.	Zip Cod
							/			
			FOR	OFFICIAL U	JSE ONLY					
Location of	Earth Station Site									
E1: Site Ide		FTR1.2M			E5. Cal	l Sign:	E06044	45		
E2: Contac			Management Ce	enter		one Number:		8-7205		
E3. Street:		-	č		E7. City					
					E8. Cou	-				
E4. State	-form t				E9. Zip		זע מס			
E10. Area E11. Latitu	of Operation:	° 0 ' 0.0 "			CONU	JS, AK, HI, I	rk, vi			
E11. Lanu E12. Longi		° 0 ' 0.0 "								
	on Coordinates are				NA	D-27	NA	D-83		N/A
	Elevation (AMSL):				0.0 me		- 117	- 00		
E15. If the p antenna(s) o qualification	proposed antenna( comply with the ar n measurement? If	s) operate in the Fi atenna gain pattern NO, provide as a	xed Satellite Service s specified in Sectior technical analysis sho	a 25.209(a) and (b owing compliance	ationary satellite ) as demonstrat with two-degree	es, do(es) the pr ed by the manuf ee spacing polic	facturer's y.	• Yes	No	○ N/A
Service (FS	S) with non-geost	ationary satellites,	n the Fixed Satellite S do(es) the proposed a he manufacturer's qu	antenna(s) comply	with the anten			Yes	No	• N/A
E17. Is the	facility operated b	y remote control?	If YES, provide the le	ocation and teleph	one number of	the control poin	ıt.	• Yes	0 ]	No
E18. Is fr	equency coord	ination required	d? If YES, attach	a frequency co	oordination r	eport as		• Yes		No
	oordination wit		try required? If Y	'ES, attach the	name of the	country(ies)	and plot	• Yes		No
required regardin FAILUR	, have you atta g the potential	nched a copy o l hazard of the LY WITH 47 (	Part 17 and 47 f a completed F structure to avi CFR PARTS 17	CC Form 854 iation?	and/or the l	FAA's study		• Yes	•	No
	F COMMUNICA						I			
Satellite 1	Name:TELSTA	R 19V   TELS	TAR 19V   63 W	.L. If you seled	ted OTHER	, please enter	the follow	ing:		
E21. Con	nmon Name:				E22. IT	U Name:				
E23. Orb	it Location:				E24. Co	untry:				
Satellite 1	Name:TELSTA	R 19V   TELS	TAR 19V   63 W	.L. If you seled	ted OTHER	, please enter	the follow	ing:		
	nmon Name:					U Name:		<u> </u>		

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E23. Orbi	Location:						E24. Country:								
Satellite N	Satellite Name: TELSTAR 19V   TELSTAR 19V   63 W.L. If you selected OTHER, please enter the following:														
	21. Common Name:   E22. ITU Name:     23. Orbit Location:   E24. Country:														
E23. Orbit	Location:							E24	. Co	ountry:					
Satellite N	ame TEL STA	P 10V   7	FIS	TAR 10V	63 W	I If yo				, please enter t	he follo	wina:			
	mon Name:		ELS		05 1	.L. 11 y				U Name:		Jwing.			
E23. Orbit										o Ivanie.					
			tinatio	n Points)				E24	. Co	unury:					
E25. Site I		TION (Des		on ronnes)					7						
L	mon Name:								E2	7. Country:					
ANTENNA										7. country.					
Site ID	E28. Antenna Id	E29. Quantit	y I	E30. Manufacti	urer	E31. Mode	ı Ant	32. tenna ize		E41/42. Ante Recieve		ain Transn IBi at	nint and/or _GHz)		
TFTR1.2N	1 TFTR1.2	1000		ECHNOLO	OGIES	1210K	0.0		0.0	dBi at					
TFTR1.2M     TFTR1.2     1000     AVL TECHNOLOGIES     1210K     0.0     0.0 dBi at															
E28. Antenna Id	Antenna E35/34. Diameter Ground Sea Height Above Input Power Antenna Height EIRP for al														
TFTR1.2	0.0/0.0		0.0		0.0		0.0		0.0		0.0		0.0		
TFTR1.2 FREQUENC			0.0		0.0		0.0		0.0 0.0 0.0				0.0		
I	E43/44. Frequency Bands(MH	<b>z) Mo</b> vices	R D	E46. Ai olarization		I D/	E47. Emissi Designa	on E		Maximum EII Carrier(dBW		Dens	mum ERIP ity per BW/4kHz)		
FREQUENC	Y COORDINAT	TION		1								- 1			
E28. Antenna Id	E51. Satellite Orbit Type	E52/5 Freque Limits(N	ncy	E54/55. of Satell Eastern/ Lin	ite Ar Wester	e Sta c Azi n A Ea	Earth ation imuth ngle stern imit	E57 Anten Elevat Ang Easte Lim	nna tion le ern	E58. Earth Station Azimuth Angle Western Limit	E59 Anter Elevat Ang Weste Lim	nna E6 tion E gle 1 ern Horiz	0. Maximum IRP Density toward the con(dBW/4kHz		
TFTR1.2	Geostationary	19700 20	0200	63.0/138.	9	107.0	0	5.0		267.8	69.2	0.0			
	Geostationary	19700 20	0200	63.0/138.	9	107.0	0	5.0		267.8	69.2	0.0			
	Geostationary	29250 30	0000	63.0/138.	9	107.0	0	5.0		267.8	69.2	-20.0			
	Geostationary			63.0/138.	9	107.0	0	5.0		267.8	69.2	-20.0			
E61. Call Sig	se enter the callsig			ng station, no	t the cal	lsign for	which thi	s applicat	ion is		6. Phone	Number			
E63. City						E68. C	County				E67/	68. State/Cour	ntry E64. Zip Code		
	F				edule	B:(Tee		l and (	Ope	ORIZATIO erational De		ion)	<u> </u>		

Location of Ear	th Station Site									
E1: Site Identif	ier: TF	TR74CM			E5.	Call Sign:	E0604	45		
E2: Contact Na	ime Hu	ghes Netwo	ork Management	Center	E6.	Phone Number:	301-42	28-7205		
E3. Street:					E7.	City:				
						County:				
E4. State						Zip Code				
E10. Area of O	-				CO	NUS, AK, HI, P	R, VI			
E11. Latitude:		0'0.0"								
E12. Longitude		0'0.0"								
E13. Lat/Lon C						NAD-27	○ NA	D-83		N/A
E14. Site Eleva	tion (AMSL):				0.0	meters				
antenna(s) comp qualification me	ply with the ant easurement? If 1	enna gain patte NO, provide as	e Fixed Satellite Serv erns specified in Sec s a technical analysis	tion 25.209(a) and s showing complia	d (b) as demons ance with two-d	trated by the manufa egree spacing policy	cturer's	• Yes	No	○ N/A
Service (FSS) w	with non-geostat	ionary satellit	e in the Fixed Satelli es, do(es) the propos by the manufacturer's	ed antenna(s) con	nply with the an			• Yes	No	• N/A
E17. Is the facil	ity operated by		• Yes	0	No					
E18. Is frequ			• Yes	۲	No					
E19. Is coord of coordinati		and plot	• Yes	۲	No					
	TO COMPL PPLICATIO	Y WITH 4' DN.	he structure to 7 CFR PARTS 1		ILL RESUL	T IN THE RET	URN	• Yes		No
-			LSTAR 19V   63	WL. If you se	elected OTH	ER please enter	the follow	ving.		
E21. Commo						ITU Name:		iiig.		
E23. Orbit L						Country:				
Satellite Nan	ne:TELSTAI	R 19V   TEI	LSTAR 19V   63	W.L. If you se	elected OTH	ER, please enter	the follow	ving:		
E21. Commo	on Name:				E22.	ITU Name:				
E23. Orbit L	ocation:				E24.	Country:				
Satellite Nan	ne:TELSTAI	R 19V   TEI	LSTAR 19V   63	W.L. If you se	elected OTH	ER, please enter	the follow	ving:		
E21. Commo	on Name:				E22.	ITU Name:				
E23. Orbit L	ocation:				E24.	Country:				
Satellite Nan	ne:TELSTAI	R 19V   TEI	LSTAR 19V   63	W.L. If you se	elected OTH	ER, please enter	the follow	ving:		
E21. Commo		1	1	2		ITU Name:		<u> </u>		
E23. Orbit L						Country:				
POINTS OF CO		ION (Desting	tion Points)			country.				
E25. Site Ide		- 51 ( 10050114								
E26. Commo						E27. Country:				
ANTENNA						2271 Country.				
Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Ai Recie		ain Tran Bi at		
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				

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GD SATCOM AN8-074P

0.0 dBi at

0.0

TFTR74CM 74CM(TC) 25000

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TFTR74CM	1 74CM(TA)	25000	GD	SATCOM	HNS1	031929 0	0.0	·	.0 dBi at			
	1 74CM(TA)			SATCOM		031929 0			.0 dBi at			
E28.	E33/34. Dia Minor/Major	ameter	E35 G	5. Above round l(meters)	E36. A	bove E3	37. Bu eight A Grou	ilding Above nd	E38. Total Input Power at antenna flange(Watts)	E39. Max Antenna H Abov Rooftop(m	leight e	E40. Total EIRP for al 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
REQUENCY E28. Antenna Id E50. Modul	E43/44. Frequency Bands(MHz) ation and Serv		Pol	E46. Ant arization(		E47 Emiss Design	sion		Aaximum EII Carrier(dBW		Densi	mum ERIP ity per BW/4kHz)
	COORDINATI											
F28	E51. Satellite Orbit Type	F52/5	ency	E54/55. of Satell Eastern/\ Lin	ite Arc Western	E56. Earth Station Azimut Angle Eastern Limit	$ \begin{array}{c c} \mathbf{A} \\ \mathbf{A} \\ \mathbf{B} \\ \mathbf{A} \\ \mathbf{B} \\$	E57. ntenna evation Angle astern Limit		E59. Antenna Elevation Angle Western Limit	El t	0. Maximum IRP Density oward the on(dBW/4kHz
/4CM(TB)	Geostationary	19700 20	)200	63.0/138.	9	107.0	5.0		267.8	69.2	0.0	
	Geostationary	19700 20	0200	63.0/138.	9	107.0	5.0		267.8	69.2	0.0	
	Geostationary	29250 30	0000	63.0/138.	9	107.0	5.0		267.8	69.2	-20.0	
	Geostationary	29250 30	0000	63.0/138.	9	107.0	5.0		267.8	69.2	-20.0	
74CM(TC)	Geostationary	19700 20	0200	63.0/138.	9	107.0	5.0		267.8	69.2	0.0	
	Geostationary	19700 20	)200	63.0/138.	9	107.0	5.0		267.8	69.2	0.0	
	Geostationary	29250 30	0000	63.0/138.	9	107.0	5.0		267.8	69.2	-20.0	
	Geostationary	29250 30	0000	63.0/138.	9	107.0	5.0		267.8	69.2	-20.0	
74CM(TA)	Geostationary	19700 20	)200	63.0/138.	9	107.0	5.0		267.8	69.2	0.0	
	Geostationary	19700 20	)200	63.0/138.	9	107.0	5.0		267.8	69.2	0.0	
	Geostationary	29250 30	0000	63.0/138.	9	107.0	5.0		267.8	69.2	-20.0	
	Geostationary	29250 30	0000	63.0/138.	9	107.0	5.0		267.8	69.2	-20.0	
E61. Call Sign	enter the callsign			station, not t	he callsign	for which th	his appl	ication is		6. Phone Numl	ber	
E63. City					E6	8. County				E67/68. St /	ate/Cour	try E64. Zip Code
	FC			2 - Sched	ule B:('		al an	d Ope	ORIZATIO rational De			
	arth Station Site											

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E1: Site Identif	ier: TF	TR74CM			E5.	Call Sign:	E0604	45		
E2: Contact Na	me Hu	ghes Netwo	ork Management	Center	E6.	Phone Number:	301-42	28-7205		
E3. Street:					E7.	City:				
						County:				
E4. State	<i></i>					Zip Code				
E10. Area of O		0100"			CC.	NUS, AK, HI, F	YR, VI			
E11. Latitude: E12. Longitude		0 ' 0.0 " 0 ' 0.0 "								
E12. Longitude		0 0.0				NAD 27		D 02		NT/A
E13. Lat/Lon C E14. Site Eleva						NAD-27 meters	∪ NA	D-83		N/A
antenna(s) com	oly with the ante	enna gain patt	e Fixed Satellite Serv erns specified in Sec s a technical analysis	tion 25.209(a) and	d (b) as demons	trated by the manuf	acturer's	• Yes	○ No	○ N/A
Service (FSS) w	vith non-geostat	ionary satellit	e in the Fixed Satell es, do(es) the propos by the manufacturer's	ed antenna(s) con	nply with the a			• Yes	No	• N/A
E17. Is the facil	ity operated by	remote contro	l? If YES, provide th	ne location and tel	ephone numbe	r of the control poin	t.	• Yes	$\bigcirc$	No
E18. Is frequ	ency coordir	nation requi	red? If YES, atta	ch a frequency	v coordinatio	on report as		• Yes	۲	No
E19. Is coord of coordinati			untry required? I	f YES, attach	the name of	the country(ies)	and plot	• Yes	۲	No
FAILURE T OF THIS A	CO COMPLY PPLICATIC	Y WITH 4' DN.	he structure to 7 CFR PARTS 1		ILL RESUI	T IN THE RE	ΓURN			No
POINTS OF CO										
Satellite Nan	ne:TELSTAF	R 19V   TEI	LSTAR 19V   63	W.L. If you se			the follow	ving:		
E21. Commo	on Name:				E22.	ITU Name:				
E23. Orbit L	ocation:				E24.	Country:				
Satellite Nan	ne:TELSTAF	R 19V   TEI	LSTAR 19V   63	W.L. If you se	elected OTH	ER, please enter	the follow	ving:		
E21. Commo	on Name:				E22.	ITU Name:				
E23. Orbit L	ocation:				E24.	Country:				
Satellite Nan	ne:TELSTAF	R 19V   TEI	LSTAR 19V   63	W.L. If you se	elected OTH	ER, please enter	the follow	ving:		
E21. Commo	on Name:				E22.	ITU Name:				
E23. Orbit L	ocation:				E24.	Country:				
Satellite Nan	ne:TELSTAF	R 19V   TEI	LSTAR 19V   63	W.L. If you se	<u>.</u>	•	the follow	ving:		
E21. Commo			1			ITU Name:				
E23. Orbit L	ocation:				E24.	Country:				
POINTS OF CO	OMMUNICAT	ION (Destina	tion Points)		I					
E25. Site Ide	ntifier:									
E26. Commo	on Name:					E27. Country:				
ANTENNA		-		*)						
Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. A Recie	ntenna G eve(d			
TFTR74CM	74CM(TB)	25000	SKYWARE GLOBAL	AN8-074R	0.0	0.0 dBi at				
TFTR74CM	74CM(TB)	25000	SKYWARE GLOBAI	AN8-074R	0.0	0.0 dBi at				

AN8-074P

AN8-074P

0.0

0.0

0.0 dBi at

0.0 dBi at

0.0 dBi at

0.0 dBi at

TFTR74CM 74CM(TA) 25000 HNS1031929 0.0 GD SATCOM TFTR74CM 74CM(TA) 25000 HNS1031929 0.0 GD SATCOM

GLOBAL

GD SATCOM

GD SATCOM

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TFTR74CM 74CM(TC) 25000

TFTR74CM 74CM(TC) 25000

E28. Antenna Id	E33/34. Dia Minor/Major		G	5. Above round l(meters)	E36. A Sea Level(m	a	Heig G	round	ln a	E38. Total nput Power at antenna ange(Watts)	Ante	. Maxi enna H Abovo ftop(m	leight	EI	40. Total RP for al iers(dBW)
74CM(TB)			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	
74CM(TC)			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	
74CM(TA)			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	Pol	E46. Ant arization(		En	E47. nission ignate	1   nor		aximum EII arrier(dBW			Maxi Densi rier(d	ty p	
	ation and Serv														
FREQUENCY E28. Antenna Id	COORDINATIC E51. Satellite Orbit Type	E 52/5	ncy	E54/55. of Satell Eastern/ Lin	ite Arc Western	E5 Ear Stat Azim Ang East Lin	rth ion iuth gle ern	E57. Antenn Elevatio Angle Easterr Limit	a n	E58. Earth Station Azimuth Angle Western Limit	Ante Elev An Wes	59. enna ation gle stern mit	EI t	RP 1 owai	aximum Density rd the BW/4kHz)
74CM(TB)	Geostationary	19700 20	)200	63.0/138.	9	107.0		5.0		267.8	69.2		0.0		
	Geostationary	19700 20	0200	63.0/138.	9	107.0		5.0		267.8	69.2		0.0		
	Geostationary	29250 30	0000	63.0/138.	9	107.0		5.0		267.8	69.2		-20.0		
	Geostationary	29250 30	0000	63.0/138.	9	107.0		5.0		267.8	69.2		-20.0		
74CM(TC)	Geostationary	19700 20	0200	63.0/138.	9	107.0		5.0		267.8	69.2		0.0		
	Geostationary	19700 20	0200	63.0/138.	9	107.0		5.0		267.8	69.2		0.0		
	Geostationary	29250 30	0000	63.0/138.	9	107.0		5.0		267.8	69.2		-20.0		
	Geostationary	29250 30	0000	63.0/138.	9	107.0		5.0		267.8	69.2		-20.0		
74CM(TA)	Geostationary	19700 20	0200	63.0/138.	9	107.0		5.0		267.8	69.2		0.0		
	Geostationary	19700 20	0200	63.0/138.	9	107.0		5.0	2	267.8	69.2		0.0		
	Geostationary	29250 30	0000	63.0/138.	9	107.0		5.0		267.8	69.2		-20.0		
	Geostationary	29250 30	0000	63.0/138.	9	107.0		5.0		267.8	69.2		-20.0		
E61. Call Sign	enter the callsign			station, not t	he callsign	for whic	ch this a	upplication i	is be		6. Phor	ie Numb	er		
E63. City					E6	8. Coun	ty				E6′ /	7/68. Sta	te/Coun	try E	64. Zip Code
E63. City	FC			2 - Sched	ARTH : lule B:('	STAT Techi	<b>ION</b> nical		era	RIZATIO ational De	NS scrip		te/Coun	try	64. Zip Co

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	E8. County:												
E4. State					E9. Zip C								
E10. Area of O	-				CONUS	S, AK, HI, PR, VI							
E11. Latitude:		0.0 "											
E12. Longitude		0' 0.0 "											
E13. Lat/Lon C					○ NAI		AD-83		N/A				
E14. Site Eleva	ition (AMSL):				0.0 mete	rs							
antenna(s) com	ply with the anter	nna gain patte	e Fixed Satellite Service ( erns specified in Section s a technical analysis sho	25.209(a) and (b)	as demonstrated	l by the manufacturer's	• Yes	○ No	○ N/A				
Service (FSS) w	vith non-geostation	onary satellit	e in the Fixed Satellite S es, do(es) the proposed a by the manufacturer's qua	ntenna(s) comply	with the antenna	the Fixed Satellite a gain patterns specified in	• Yes	No	• N/A				
E17. Is the facil	ity operated by r	emote contro	l? If YES, provide the lo	cation and telepho	one number of th	e control point.	• Yes	0	No				
			red? If YES, attach	1 2			• Yes	۲	No				
	lination with a on contours a		untry required? If Y	ES, attach the r	name of the c	country(ies) and plot	🔍 Yes	۲	No				
required, ha regarding th FAILURE T OF THIS A	ive you attac ne potential h O COMPLY PPLICATIO	hed a copy azard of t WITH 4' N.	FR Part 17 and 47 ( 7 of a completed FC he structure to avia 7 CFR PARTS 17 A	CC Form 854 a ation?	und/or the FA		• Yes	۲	No				
POINTS OF COMMUNICATION													
	Satellite Name: TELSTAR 19V   TELSTAR 19V   63 W.L. If you selected OTHER, please enter the following:												
E21. Commo	on Name:				E22. ITU	Name:							
E23. Orbit L	ocation:				E24. Cou	ntry:							
Satellite Nan	ne:TELSTAR	19V   TEI	LSTAR 19V   63 W.	L. If you select	ed OTHER,	please enter the follow	ving:						
E21. Commo					E22. ITU	-							
E23. Orbit L	ocation:				E24. Cou	ntry:							
Satellite Nar	ne:TELSTAR	19V   TEI	STAR 19V   63 W.	L. If you select	ed OTHER.	please enter the follow	ving:						
E21. Commo					E22. ITU	•							
E23. Orbit L					E24. Cou								
						5	•						
		19V   1EI	LSIAR 19V   63 W.	L. If you select		please enter the follow	ving:						
E21. Commo					E22. ITU								
E23. Orbit L		<u></u>			E24. Cou	ntry:							
POINTS OF CO		ON (Destina	ition Points)										
						Constant							
E26. Commo ANTENNA					E27	. Country:							
Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	E41/42. Antenna ( Recieve(	Gain Tra dBi at _						
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	-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							

E28. Antenna Id	E33/34. Dia Minor/Major		G	. Above round l(meters)	E36. A Se Level(m	a	Heig G	round	E38. Total Input Power at antenna flange(Watts	Abo	Height we	E40. Total EIRP for a carriers(dBV
TFTR98(3)	0.0/0.0		0.0		0.0		0.0		0.0	0.0		0.0
	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
REQUENCY	I		1		1							1
E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode		246. Anter ization(H			47. ssion gnato	nor C	aximum EIF arrier(dBW)	(P)	Densit	num ERIP y per BW/4kHz)
	tion and Servic											
E28. Antenna Id	COORDINATIO E51. Satellite Orbit Type	N E52/5 Freque Limits(N	ncy	E54/55. of Satell Eastern/ Lin	lite Arc Western	E5 Ear Stati Azim Ang East Lin	th ion uth gle ern	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	EII to	. Maximum RP Density ward the n(dBW/4kHz
TFTR98(3)	Geostationary	19700 20	0200	63.0/138.	9	107.0		5.0	267.8	69.2	0.0	
	Geostationary	19700 20	0200	63.0/138.	9	107.0		5.0	267.8	69.2	0.0	
	Geostationary	29250 30	0000	63.0/138.	9	107.0		5.0	267.8	69.2	-20.0	
	Geostationary	29250 30	0000	63.0/138.	9	107.0		5.0	267.8	69.2	-20.0	
TFTR98(2)	Geostationary	19700 20	0200	63.0/138.	9	107.0		5.0	267.8	69.2	0.0	
	Geostationary	19700 20	0200	63.0/138.	9	107.0		5.0	267.8	69.2	0.0	
	Geostationary	29250 30	0000	63.0/138.	9	107.0		5.0	267.8	69.2	-20.0	
	Geostationary	29250 30	0000	63.0/138.	9	107.0		5.0	267.8	69.2	-20.0	
TFTR98CM	Geostationary	19700 20	0200	63.0/138.	9	107.0		5.0	267.8	69.2	0.0	
	Geostationary	19700 20	0200	63.0/138.	9	107.0		5.0	267.8	69.2	0.0	
	Geostationary	29250 30	0000	63.0/138.	9	107.0		5.0	267.8	69.2	-20.0	
	Geostationary	29250 30	0000	63.0/138.	9	107.0		5.0	267.8	69.2	-20.0	
E61. Call Sign NOTE: Please e	TROL POINT L			ation, not the	e callsign fo	or which	this aj	oplication is b		. Phone Num	ber	
E62. Street Add E63. City	1058				E68	. County				E67/68. St	ate/Count	ry E64. Zip Coc

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E3. Street:					E7. Cit	ty:						
					E8. Co	-						
E4. State					-	p Code						
E10. Area of O	-				CON	US, AK,	HI, PR, VI					
E11. Latitude:		)'0.0"										
E12. Longitude		0'0.0"										
E13. Lat/Lon C						AD-27	○ NA	D-83	۲	N/A		
E14. Site Eleva	tion (AMSL):				0.0 m	eters						
antenna(s) com	oly with the anter	nna gain patte	Fixed Satellite Service erns specified in Section a technical analysis sho	25.209(a) and (b)	as demonstra	ted by the	manufacturer's	• Yes	No	○ <sub>N</sub> /A		
Service (FSS) w	ith non-geostation	onary satellite	e in the Fixed Satellite S es, do(es) the proposed a y the manufacturer's qua	ntenna(s) comply	with the anter			Yes	No	• N/A		
E17. Is the facil	ity operated by r	emote contro	1? If YES, provide the lo	cation and telepho	one number of	f the contro	ol point.	• Yes	$\bigcirc$	No		
E18. Is frequ	ency coordina	ation requi	red? If YES, attach	a frequency coo	ordination	report as		• Yes	۲	No		
	lination with a		untry required? If Y	ES, attach the r	name of the	e country	v(ies) and plot	• Yes	۲	No		
required, ha regarding th FAILURE T	ve you attac le potential h	hed a copy azard of t WITH 42	TR Part 17 and 47 (v of a completed FChe structure to avia7 CFR PARTS 17 A	CC Form 854 a ation?	nd/or the	FAA's s	tudy	• Yes	۲	No		
POINTS OF CO	OMMUNICATI	ON										
Satellite Nar	ne:TELSTAR	19V   TEI	LSTAR 19V   63 W.	L. If you select	ed OTHEF	R, please	enter the follow	ving:				
E21. Commo	on Name:				E22. IT	U Name	:					
E23. Orbit L	ocation:				E24. Co	ountry:						
Satellite Nar	ne:TELSTAR	19V   TEI	LSTAR 19V   63 W.	L. If you select	ed OTHEF	R, please	enter the follow	/ing:				
E21. Commo	on Name:				E22. IT	TU Name	:					
E23. Orbit L	ocation:				E24. Co	ountry:						
Satellite Nar	ne:TELSTAR	19V   TEI	LSTAR 19V   63 W.	L. If you select	ed OTHEF	R, please	enter the follow	/ing:				
E21. Commo	on Name:	`	· · · · · · · · · · · · · · · · · · ·		E22. IT	TU Name	:					
E23. Orbit L					E24. Co							
Satellite Nar	ne:TELSTAR	19V   TEI	LSTAR 19V   63 W.	L. If you select	ed OTHEF	R, please	enter the follow	/ing:				
E21. Commo	on Name:				E22. IT	TU Name	:					
E23. Orbit L	ocation:				E24. Co	ountry:						
POINTS OF CO	OMMUNICATI	ON (Destina	tion Points)									
E25. Site Ide												
E26. Commo	on Name:				E2	27. Coun	itry:					
ANTENNA												
Site ID	Site IDE28. Antenna IdE29. QuantityE30. ManufacturerE31. ModelE32. Antenna SizeE41/42. Antenna Gain Transmint and/or Recieve(dBi atGHz)											
TFTR98CM	TFTR98(3)	10000	AVL TECHNOLOGIES	1010K	0.0	0.0 dI	Bi at					
TFTR98CM	TFTR98(3)	10000	AVL TECHNOLOGIES	1010K	0.0	0.0 dł	Bi at					
TFTR98CM	TFTR98(2)	10000	SKYWARE GLOBAL	AN8- 098RAN -098KA	0.0	0.0 dI	Bi at					
TFTR98CM	TR98CMTFTR98(2)10000SKYWARE GLOBALAN8- 098RAN -098KA0.00.0 dBi at											

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TFTR98CM	TFTR98CM	0000	GD S	ATCOM	AN	8-098P	0	0.0	0.0 dBi at			
TFTR98CM	TFTR98CM 1	.0000	GD S	ATCOM	AN	8-098P	0	0.0	0.0 dBi at			
E28. Antenna Id	E33/34. Dia Minor/Major	1	G	5. Above round l(meters)	E36. A Se Level(n	a	Heig	. Building ght Above Ground el(meters)	E38. Total Input Powe at antenna flange(Watt	er Antenna Abo	Height ve	E40. Total EIRP for al carriers(dBW)
TFTR98(3)	0.0/0.0		0.0		0.0		0.0	<u> </u>	0.0	0.0		0.0
	0.0/0.0		0.0		0.0		0.0		0.0	0.0		0.0
	0.0/0.0		0.0		0.0		0.0		0.0	0.0		0.0
	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
TFTR98CM			0.0		0.0		0.0		0.0	0.0		0.0
FREQUENCY					1010							1000
	E43/44. Frequency Bands(MHz) ttion and Servic	Niode		E46. Anter rization(H			47. issior gnato	l 🕴 ner (	laximum EI Carrier(dBW		Densit	num ERIP y per BW/4kHz)
	COORDINATIO											
E28. Antenna Id	E51. Satellite Orbit Type	E52/5 Freque Limits(N	ncy	E54/55. of Satell Eastern/ Lin	lite Arc Western	E5 Ear Stat Azim Ang East Lin	rth ion iuth gle ern	E57. Antenna Elevation Angle Eastern Limit	Station	E59. Antenna Elevation Angle Western Limit	EII to	. Maximum RP Density ward the n(dBW/4kHz)
TFTR98(3)	Geostationary	19700 20	0200	63.0/138.	9	107.0		5.0	267.8	69.2	0.0	
	Geostationary	19700 20	0200	63.0/138.	9	107.0		5.0	267.8	69.2	0.0	
	Geostationary	29250 30	0000	63.0/138.	.9 107			5.0	267.8	69.2	-20.0	
	Geostationary			63.0/138.	9	107.0		5.0	267.8	69.2	-20.0	
TFTR98(2)	Geostationary	19700 20	0200	63.0/138.	9	107.0		5.0	267.8	69.2	0.0	
	Geostationary	19700 20	0200	63.0/138.	9	107.0		5.0	267.8	69.2	0.0	
	Geostationary	29250 30	0000	63.0/138.	9	107.0		5.0	267.8	69.2	-20.0	
	Geostationary	29250 30	0000	63.0/138.	9	107.0		5.0	267.8	69.2	-20.0	
TFTR98CM	Geostationary	19700 20	0200	63.0/138.	9	107.0		5.0	267.8	69.2	0.0	
	Geostationary	19700 20	0200	63.0/138.	9	107.0		5.0	267.8	69.2	0.0	
	Geostationary	29250 30	0000	63.0/138.	9	107.0		5.0	267.8	69.2	-20.0	
	Geostationary	29250 30	0000	63.0/138.	9	107.0		5.0	267.8	69.2	-20.0	
E61. Call Sign	enter the callsign o			ation, not the	e callsign f	or which	this a	pplication is b		66. Phone Num	ber	
E63. City					E68	3. County	7			E67/68. St /	ate/Count	ry E64. Zip Code
	SATELLITE EARTH STATION AUTHORIZATIONS FCC Form 312 - Schedule B:(Technical and Operational Description) FOR OFFICIAL USE ONLY											
Location of Ear E1: Site Identif								E5. Call S	Sign:			

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	]	FR98CM					E060	445		
E2: Contact	Name I	Hughes Netv	work Managemer	nt Center		E6.	Phone Number: 301-4	28-7205		
E3. Street:						E7.	City:			
							County:			
E4. State	60 ···						Zip Code			
	of Operation:					CC	ONUS, AK, HI, PR, VI			
E11. Latitud		0 ° 0 ' 0.0 "								
E12. Longit		) ° 0 ' 0.0 "					NH D 05			<b>N</b> T/1
	on Coordinates a							AD-83		N/A
E14. Site E	levation (AMSL	):				0.0	meters			
antenna(s) c qualification	omply with the a measurement?	antenna gain pa If NO, provide	atterns specified in Se as a technical analys	ection 25.20 sis showing	9(a) and (b) as de compliance with	emons two-c	ellites, do(es) the proposed strated by the manufacturer's legree spacing policy.	• Yes	○ No	○ N/A
Service (FS	S) with non-geos	stationary satel		osed antenna	a(s) comply with	the a	ate in the Fixed Satellite ntenna gain patterns specified ir	Yes	○ No	• N/A
E17. Is the f	acility operated	r of the control point.	• Yes	0	No					
	equency coor	*	• Yes	۲	No					
	ordination wi	the country(ies) and plot	• Yes	۲	No					
required, regarding FAILUR	have you att g the potentia	Vhere FAA notification is he FAA's study LT IN THE RETURN	Yes	۲	No					
POINTS OF	COMMUNIC.	ATION								
Satellite N	Vame:TELST	AR 19V   T	ELSTAR 19V   6	3 W.L. If	you selected (	DTH	ER, please enter the follo	wing:		
E21. Com	mon Name:				I	E22.	ITU Name:			
E23. Orbi	t Location:				I	E24.	Country:			
Satellite N	Vame:TELST	AR 19V   T	ELSTAR 19V   6	3 W.L. If	you selected C	DTH	ER, please enter the follo	wing:		
E21. Com	mon Name:				I	E22.	ITU Name:			
E23. Orbi	t Location:				I	E24.	Country:			
Satellite N	Vame:TELST	AR 19V   T	ELSTAR 19V   6	3 W.L. If			ER, please enter the follo	wing:		
E21. Com	mon Name:				Ι	E22.	ITU Name:			
E23. Orbi	t Location:					E24.	Country:			
<u> </u>				2 11/1 10				•		
		AK 19V   1.	ELSIAR I9V   6	3 W.L. If			ER, please enter the follo	wing:		
	mon Name:						ITU Name:			
	t Location:				H	E24.	Country:			
1	COMMUNIC.	ATION (Desti	nation Points)				1			
E25. Site										
L	mon Name:						E27. Country:			
ANTENNA	1		[	1						
Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size		E41/42. Antenna Gai Recieve(dB	n Transn i at		/or
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			

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E28. Antenna Id N	E33/34. Dia Minor/Major(		G	. Above round l(meters)	E36. A Sea Level(m	a	Heig G	round	E38. Total Input Power at antenna flange(Watts	Abo	Height ve	E40. Total EIRP for al carriers(dBV
TR98CM(2)0	0.0/0.0		0.0		0.0		0.0	· · ·	0.0	0.0	<i>,</i>	0.0
TR98CM(2) 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
TR98CM(1) 0			0.0		0.0		0.0		0.0	0.0		0.0
REQUENCY												
Id B	E43/44. Frequency Sands(MHz)	Mode		246. Anter rization(H			47. ssion gnato	ner (	aximum EII arrier(dBW		Densit	um ERIP y per W/4kHz)
E50. Modulati												
	251. Satellite Orbit Type	E52/5 Freque Limits(N	ncy	E54/55. of Satell Eastern/' Lin	ite Arc Western	E5 Ear Stati Azim Ang East Lim	th on uth gle ern it	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	EIF to	Maximum RP Density ward the n(dBW/4kHz
TR98CM(2)	Geostationary	19700 20	200	63.0/138.	9	107.0		5.0	267.8	69.2	0.0	
	Geostationary			63.0/138.		107.0		5.0	267.8	69.2	0.0	
C	Geostationary	29250 30	0000	63.0/138.	9	107.0		5.0	267.8	69.2	-20.0	
C	Geostationary	29250 30	0000	63.0/138.	9	107.0		5.0	267.8	69.2	-20.0	
TR98CM(1)	Geostationary	19700 20	200	63.0/138.	9	107.0		5.0	267.8	69.2	0.0	
0	Geostationary	19700 20	200	63.0/138.	9	107.0		5.0	267.8	69.2	0.0	
0	Geostationary	29250 30	0000	63.0/138.	9	107.0		5.0	267.8	69.2	-20.0	
C	Geostationary	29250 30	0000	63.0/138.	9	107.0		5.0	267.8	69.2	-20.0	
REMOTE CONT	FROL POINT L	OCATION	1						1	1	1	
E61. Call Sign NOTE: Please ent E62. Street Addre	_	the control	lling st	ation, not the				plication is b	eing filed.			
E63. City					E68	. County				E67/68. St /	ate/Countr	y E64. Zip Cod
	FCC			- Schedı		<b>Techni</b>	cal a	nd Oper	RIZATIOI ational De			
Location of Earth E1: Site Identifie	r: TR98							E5. Call S	-	E060445		
E2: Contact Nam E3. Street:	ne Hugho	es Netwo	rk Ma	anagemen	t Center			E6. Phone E7. City: E8. Coun	e Number: tv:	301-428-	7205	
E4. State E10. Area of Ope E11. Latitude:	0 ° 0 '							E9. Zip C	-	R, VI		
E12. Longitude: E13. Lat/Lon Coo E14. Site Elevatio		0.0 "						NAI 0.0 mete		• NAD-	.83	• N/A
LI I. She Dievalle	··· (· ·······).			. (18).htm				5.0 mete	10			

antenna(s) c	omply with the a	intenna g	ain patte	e Fixed Satellite Ser erns specified in Se s a technical analys	ction 25.20	)9(a) and	l (b) as de	monstrate	d by the manufactu		Yes	No	N/A
E16. If the p Service (FSS	roposed antenna 5) with non-geos	(s) do no stationary	t operat satellite	e in the Fixed Satel es, do(es) the propo by the manufacturer	llite Service	e (FSS), a(s) com	or if they ply with	operate in the antenn	the Fixed Satellite		Yes	No	• N/A
				ol? If YES, provide	-				he control point.	۲	Yes	$\bigcirc$	No
E18. Is fre	equency coord	dination	requi	red? If YES, att	ach a fre	quency	, coordi	nation re	port as	0	Yes	۲	No
			her co	untry required?	If YES, a	attach t	he name	e of the o	country(ies) and	l plot	Yes		No
	ation contour		1. 61				- 110/ 3		T A A (101		105		INU
required, regarding FAILURI OF THIS	have you att g the potentia E TO COMP APPLICAT	tached al hazan PLY WI ION.	a copy rd of t	FR Part 17 and y of a complete he structure to 7 CFR PARTS	d FCC F aviation	form 8 1?	54 and/	or the F	AA's study		Yes	۲	No
							1 4 1 6		1 4 4	C 11 .			
		AK 191	/   1EI	LSTAR 19V   63	5 W.L. II	you se			1	e following	<u>;</u>		
	mon Name:							E22. ITU					
	t Location:							E24. Cou					
		AR 19V	/   TEI	LSTAR 19V   63	3 W.L. If	you se			*	e following	g:		
E21. Common Name:     E22. ITU Name:       E22. Orbit Legistication     E24. Country													
E23. Orbi	E23. Orbit Location: E24. Country: Satellite Name:TELSTAR 19V   TELSTAR 19V   63 W.L. If you selected OTHER, please enter the following:												
Satellite N	Jame:TELST	e following	g:										
E21. Com	mon Name:						I	E22. ITU	Name:				
E23. Orbi	t Location:						I	E24. Cou	intry:				
Satellite N	Jame:TELST	AR 19V	/   TEI	LSTAR 19V   63	3 W.L. If	you se	lected C	OTHER,	please enter the	e following	g:		
E21. Com	mon Name:						H	E22. ITU	Name:				
E23. Orbi	t Location:						H	E24. Cou	intry:				
	COMMUNIC.	ATION (	Destina	ation Points)									
E25. Site													
	mon Name:							E27	. Country:				
ANTENNA		1						1					
Site ID	E28. Antenna Id	E29 Quant		E30. Manufacturer	E31. Model	An	32. tenna bize	F	E41/42. Antenn Recieve(				/or
TR98CM	TR98CM(2)	25000		KYWARE JLOBAL	AN8- 098R	0.0		0.0 dBi	at				
TR98CM	TR98CM(2)	25000			AN8- 098R	0.0		0.0 dBi	at				
TR98CM	TR98CM(1)	25000	G		AN8- 098P	0.0		0.0 dBi	at				
TR98CM	TR98CM(1)	25000	G	D SATCOM	AN8- 098P	0.0		0.0 dBi	at				
	E33/34 Id Minor/M			E35. Above Ground Level(meters)	<u> </u>	a	Height Gro Level(1	uilding Above ound meters)	E38. Total Input Power at antenna flange(Watts)		Height ve	EIF carri	0. Total <b>XP for al</b> ers(dBW
TR98CM	< /			0.0	0.0		0.0		0.0	0.0		0.0	
TR98CM				0.0	0.0		0.0			0.0		0.0	
TR98CM				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	
E28.	E43/44	•	E45.	E46. Ante	nna	E	47.	E48. N	laximum EIR	P E49.	. Maxir	num F	RIP

file:///D:/Users/Kathleen.Campbell/Downloads/HTML (18).htm

25/2021				HTML	(18).htm			
Antenna Id	Frequency Bands(MHz)	T/R Polar Mode	rization(H,V,L,R)	Emission Designato		arrier(dBW		Density per arrier(dBW/4kHz)
E50. Modula	tion and Servio	ces					·	
FREQUENCY	COORDINATIO	N						
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	EIRP Density toward the
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 CON	NTROL POINT I	OCATION		1 1		4	1	
E62. Street Add			E68 LITE EARTH S - Schedule B:(1				/ NS	State/Country E64. Zip Code
			FOR OFF	TCIAL USF	E ONLY		-	
Location of Ear	th Station Site							
E1: Site Identif E2: Contact Na E3. Street: E4. State E10. Area of O	me Hugh	es Network Ma	anagement Center		E5. Call S E6. Phone E7. City: E8. Count E9. Zip C0 CONUS	Number: y:	E060445 301-428 R, VI	
E11. Latitude: E12. Longitude E13. Lat/Lon C E14. Site Eleva	e: $0 \circ 0$ Coordinates are:	' 0.0 " ' 0.0 "			NAD		• NAD	9-83 • N/A
E15. If the prop antenna(s) comp	osed antenna(s) or ply with the antenr	na gain patterns spo	Satellite Service (FSS) ecified in Section 25.20 nical analysis showing	9(a) and (b) as	nary satellites, demonstrated	do(es) the prop by the manufac		● Yes ○ No ○ N/A
Service (FSS) w	with non-geostation	hary satellites, do(e	Fixed Satellite Service s) the proposed antenn nanufacturer's qualifica	a(s) comply wit	th the antenna			⊖Yes ○No ●N/A
E17. Is the facil	ity operated by rer	note control? If Y	ES, provide the location	n and telephone	number of the	e control point.	(	• Yes • No
E18. Is frequ	ency coordinat	ion required? I	f YES, attach a fre	quency coor	dination rep	ort as		Yes No
E19. Is coord	lination with a	nother country	required? If YES, a	attach the na	me of the co	ountry(ies) a	nd plot	Yes No

1/25/2021					HTML (18).ht	tm			
of coordin	ation contou	rs as							
required, regarding FAILURI OF THIS	have you at the potentia TO COMP APPLICAT	tached a cop al hazard of PLY WITH 4 TON.	CFR Part 17 and by of a complete the structure t 47 CFR PARTS	ed FCC Form o aviation?	854 and/or 1	the	FAA's study	• Yes	No
	COMMUNIC								
		AR 19V   TH	ELSTAR 19V   6	3 W.L. If you			· 1	e following:	
E21. Com	mon Name:				E22	. IT	U Name:		
E23. Orbi	t Location:				E24	. Co	ountry:		
Satellite N	lame:TELST	AR 19V   TH	ELSTAR 19V   6	3 W.L. If you	selected OTH	IER	, please enter th	e following:	
E21. Com	mon Name:				E22	. IT	U Name:		
E23. Orbi	t Location:				E24	. Co	ountry:		
Satellite N	Jame:TELST	AR 19V   TH	ELSTAR 19V   6	3 W.L. If you	selected OTH	IER	, please enter th	e following:	
E21. Com	mon Name:				E22	. IT	U Name:		
E23. Orbi	t Location:				E24	. Co	ountry:		
Satellite N	lame:TELST	AR 19V   TH	ELSTAR 19V   6	3 W.L. If you	selected OTH	IER	, please enter th	e following:	
E21. Com	mon Name:	<u>.</u>	· · · · ·		E22	. IT	U Name:		
E23. Orbi	t Location:				E24	. Co	ountry:		
POINTS OF	COMMUNIC	ATION (Destin	nation Points)			_			
E25. Site	Identifier:								
J	mon Name:					E2	7. Country:		
ANTENNA					E33				
Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size		E41/42. Ante Recieve	enna Gain Transı (dBi at	
TR74CM	74CM(FD)	"20000000 H	SKYWARE GLOBAL	AN9-074	0.0	0.0	0 dBi at		
TR74CM	74CM(FD)		SKYWARE GLOBAL	AN9-074	0.0	0.0	0 dBi at		
TR74CM	74CM(FC)		SKYWARE GLOBAL	AN8-074R	0.0	0.0	0 dBi at		
TR74CM	74CM(FC)		SKYWARE GLOBAL	AN8-074R	0.0	0.0	0 dBi at		
TR74CM	74CM(FA)	5000000	GD SATCOM	AN8-074P	0.0	0.0	0 dBi at		
	74CM(FA)	5000000	GD SATCOM	AN8-074P	0.0	0.0	0 dBi at		
	74CM(FB)		GD SATCOM	HNS1031929			0 dBi at		
TR74CM	74CM(FB)	5000000	GD SATCOM	HNS1031929	0.0	0.0	0 dBi at		
E28. Antenna Id		Diameter ajor(meters)	E35. Above Ground Level(meters)	E36. Above Sea Level(meters)	E37. Build Height Ab Ground Level(mete	ove	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
74CM(FC				0.0	0.0				0.0
74CM(FC	0.0/0.0		0.0	0.0	0.0		0.0	0.0	0.0

E43/44.

74CM(FA) 0.0/0.0

74CM(FA) 0.0/0.0

74CM(FB) 0.0/0.0

74CM(FB) 0.0/0.0

FREQUENCY

E28.

0.0

0.0

0.0

0.0

E45.

0.0

0.0

0.0

0.0

E46. Antenna

0.0

0.0

0.0

0.0

E47.

0.0

0.0

0.0

0.0

E48. Maximum EIRP

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

E49. Maximum ERIP

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Antenna Id	Frequency Bands(MHz)		Pol	arization(H,V,L,R)	) Emissio Designat		per C	Carrier(dBW	<i>v</i> )	Ca	Density rrier(dBW	
E50. Modul	lation and Serv	ices			<u></u>							
REQUENCY	Y COORDINATI	ON										
E28. Antenna Id	E51. Satellite Orbit Type	E52/53 Frequen Limits(M	icy	E54/55. Range of Satellite Arc Eastern/Western Limit	E56. Earth Station Azimuth Angle Eastern Limit	An Ele A Ea	E57. Itenna Ivation Ingle Istern Limit	E58. Earth Station Azimuth Angle Western Limit		E59. ntenna evation Angle /estern Limit	EIRP tow	Maximum <sup>•</sup> Density ard the dBW/4kHz)
74CM(FD)	Geostationary	19700 202	200	63.0/138.9	107.0	5.0		267.8	69.	2	0.0	
	Geostationary	19700 202	200	63.0/138.9	107.0	5.0		267.8	69.	2	0.0	
	Geostationary	29250 300	000	63.0/138.9	107.0	5.0		267.8	69.	2	-20.0	
	Geostationary	29250 300	000	63.0/138.9	107.0	5.0		267.8	69.	2	-20.0	
74CM(FC)	Geostationary	19700 202	200	63.0/138.9	107.0	5.0		267.8	69.	2	0.0	
	Geostationary			63.0/138.9	107.0	5.0		267.8	69.		0.0	
	Geostationary			63.0/138.9	107.0	5.0		267.8	69.		-20.0	
	Geostationary			63.0/138.9	107.0	5.0		267.8	69.		-20.0	
74CM(EA)	Geostationary			63.0/138.9	107.0	5.0		267.8	69.		0.0	
	Geostationary			63.0/138.9	107.0	5.0		267.8	69.		0.0	
	Geostationary			63.0/138.9	107.0	5.0		267.8	69. 69.		-20.0	
								<u> </u>				
	Geostationary			63.0/138.9	107.0	5.0		267.8	<u>69.1</u>		-20.0	
/4CM(FB)	Geostationary			63.0/138.9	107.0	5.0		267.8	69.		0.0	
	Geostationary			63.0/138.9	107.0	5.0		267.8	69.		0.0	
	Geostationary			63.0/138.9	107.0	5.0		267.8	69.		-20.0	
	Geostationary			63.0/138.9	107.0	5.0		267.8	69.	2	-20.0	
E61. Call Sign NOTE: Please E62. Street Ad	e enter the callsign	of the control	lling	station, not the callsign	for which this	applic	cation is b		56. Pł	ione Numł	ber	
E63. City				E6	58. County				]	E67/68. Sta /	ate/Country	E64. Zip Code
	FC			LITE EARTH 2 - Schedule B:( FOR OF		and	l Oper			iption)		
E1: Site Ident		4CM					E5. Call S	-		E060445		
E2: Contact N E3. Street:	Jame Hug	hes Netwo	rk N	Management Center	•		E6. Phon E7. City: E8. Coun	e Number: ty:	3	601-428-	7205	
E4. State							E9. Zip C	-				
E10. Area of	Operation:						CONUS	S, AK, HI, P	R, V	Τ		
E11. Latitude:		0'0.0"										
E12. Longitud	de: $0^{\circ}$ (	0'0.0"										
E13. Lat/Lon	Coordinates are:						NAI	D-27	(	NAD-	.83	• N/A
E14. Site Elev	vation (AMSL):						0.0 mete	rs				

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antenna(s) co	omply with the a	antenna gain pa		ection 25.209(a) a	nd (b) as den	nonstra	ites, do(es) the propo ated by the manufact gree spacing policy.		• Yes	○ No	○ N/A
Service (FSS	s) with non-geos	stationary satell		osed antenna(s) co	mply with th	ie anter	in the Fixed Satellit nna gain patterns sp		• Yes	○ No	• N/A
E17. Is the fa	acility operated	by remote conti	rol? If YES, provide	the location and t	elephone nur	mber o	f the control point.		• Yes	$\bigcirc$	No
E18. Is fre	quency coor	dination requ	ired? If YES, at	tach a frequend	ey coordin	ation	report as		• Yes	۲	No
			ountry required?	If YES, attach	the name	of the	e country(ies) an	d plot	• Yes	۲	No
ļ	ation contour		FR Part 17 and	l 47 CFR nart	25 113(c)	) Wh	ere FAA notific	ation is			
required, regarding FAILURI OF THIS	have you at the potentia TO COMP APPLICAT	tached a cop al hazard of PLY WITH 4 TON.	y of a complete the structure to	ed FCC Form o aviation?	854 and/o	or the			• Yes	۲	No
	COMMUNIC			2 WI If		THE	R, please enter th				
	mon Name:	AK 19V   11		5 W.L. 11 you s			TU Name:	le lollow	ing.		
	t Location:						ountry:				
				2 XVI 10	I		-	6 11			
		AR 19V   11	ELSTAR 19V   6	3 W.L. If you s			R, please enter th	e follow	ing:		
	mon Name:						TU Name:				
	t Location:						ountry:				
		AR 19V   TE	ELSTAR 19V   6	3 W.L. If you s			R, please enter th	e follow	ing:		
	mon Name:						TU Name:				
	t Location:						ountry:				
Satellite N	lame:TELST	AR 19V   TE	ELSTAR 19V   6	3 W.L. If you s	selected O'	THEF	R, please enter th	e follow	ing:		
E21. Com	mon Name:				E	22. IT	TU Name:				
	t Location:				E	24. C	ountry:				
1	COMMUNIC	ATION (Destin	nation Points)								
E25. Site							<b>A-</b> <i>a</i>				
E26. Com	mon Name:					E.	27. Country:				
					E32.						
Site ID	E28. Antenna Id		E30. Manufacturer	E31. Model	Antenn Size	a	E41/42. Ante Recieve		n Trans i at	mint ar _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				
	74CM(FC)	5000000	SKYWARE GLOBAL		0.0		.0 dBi at				
	74CM(FA)				0.0		.0 dBi at				
	74CM(FA)		GD SATCOM		0.0		.0 dBi at				
	74CM(FB)			HNS1031929			.0 dBi at				
TR/4CM	74CM(FB)	5000000	GD SATCOM	HNS1031929	1		.0 dBi at			1	
E28. Antenna Id		Diameter jor(meters)	E35. Above Ground Level(meters)	E36. Above Sea Level(meters)	E37. Bui Height A Grou Level(m	Above nd		Antenn: Ab	ove	E40 EIR	. Total P for al rs(dBW)
74CM(FD	0.0/0.0		0.0	0.0	0.0			0.0		0.0	
74CM(FD	/		<u> </u>	0.0	0.0			0.0		0.0	
ii	·		1	I							

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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
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
REQUENCY	7									
E28. Antenna Id	E43/44. Frequency Bands(MHz)	E45. T/R Mode	E46. An Polarization		Emi	47. ission gnator	nor	Aaximum Ell Carrier(dBW		9. Maximum ERIP Density per arrier(dBW/4kHz)
E50. Modul	ation and Serv	ices								
REQUENCY	COORDINATIO	ON								1
E28. Antenna Id	E51. Satellite Orbit Type	E52/53 Frequen Limits(M)	cy Eastern	5. Range llite Arc /Western mit	E56 Eart Statio Azimu Angl Easte Lim	ih on uth le ern	E57. Antenna Clevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon(dBW/4kH
74CM(FD)	Geostationary	19700 202	00 63.0/138	3.9	107.0	5.	.0	267.8	69.2	0.0
	Geostationary	19700 202	00 63.0/138	3.9	107.0	5.	0	267.8	69.2	0.0
	Geostationary				107.0	5.		267.8	69.2	-20.0
					107.0	5.		267.8	69.2	-20.0
74CM(FC)	Geostationary				107.0	5.		267.8	69.2	0.0
	Geostationary				107.0	5.		267.8	69.2	0.0
	Geostationary				107.0	5.		267.8	69.2	-20.0
	Geostationary				107.0	5.		267.8	69.2	-20.0
74CM(FA)	Geostationary	19700 202			107.0	5.		267.8	69.2	0.0
	Geostationary				107.0	5.		267.8	69.2	0.0
	Geostationary				107.0	5.		267.8	69.2	-20.0
	Geostationary				107.0	5.		267.8	69.2	-20.0
74CM(ED)					107.0	5.		267.8	69.2	0.0
/4CM(FB)	Geostationary									
	Geostationary				107.0	5.		267.8	69.2	0.0
	Geostationary				107.0	5.		267.8	69.2	-20.0
EMOTE CO	Geostationary		00 63.0/138	5.9	107.0	5.	.0	267.8	69.2	-20.0
E61. Call Sign NOTE: Please	enter the callsign		ling station, not	the callsign	for which	n this app	plication is		6. Phone Num	iber
E62. Street Ad	Idress									
E63. City				E6	58. County	/			E67/68. S /	tate/Country E64. Zip Co
	FC		312 - Sche		Techni	ical a	nd Ope	ORIZATIO rational De		)
[ ocation of E.	arth Station Site									
Location of Ea E1: Site Ident		9CM					E5. Call	Sign:	E060445	5

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E3. Street:						E7.	City:				
							County:				
E4. State							Zip Code				
	of Operation:					CC	DNUS, AK, HI, PI	R, VI			
E11. Latitu		0 ° 0 ' 0.0 "									
E12. Longi		0 ° 0 ' 0.0 "									
E13. Lat/L	on Coordinates a	are:				$\bigcirc$	NAD-27	○ NA	D-83	۲	N/A
E14. Site E	levation (AMSL	<i>.</i> ):				0.0	meters				
antenna(s)	comply with the	antenna gain	patterns specified in	Section 25.209(a	) and (b) as d	emon	ellites, do(es) the prop strated by the manufac degree spacing policy.	cturer's	• Yes	○ No	N/A
Service (FS	S) with non-geo	stationary sat		oposed antenna(s)	comply with	the a	ate in the Fixed Satell ntenna gain patterns s		• Yes	○ No	• N/A
E17. Is the	facility operated	by remote co	ntrol? If YES, provi	de the location an	d telephone n	numbe	er of the control point.		• Yes	$\bigcirc$	No
	1 2		quired? If YES,	1					• Yes	۲	No
	ordination w		country required	d? If YES, atta	ch the nam	ne of	the country(ies) a	nd plot	• Yes	۲	No
E20. FAA required regardin FAILUR OF THIS	A Notification , have you at g the potenti E TO COMI S APPLICAT	n - (See 47 tached a c al hazard ( PLY WITH FION.	opy of a comple of the structure	ted FCC For to aviation?	m 854 and	/or t	Vhere FAA notific he FAA's study LT IN THE RET		• Yes	۲	No
	F COMMUNIC										
Satellite ]	Name:TELST	CAR 19V   7	FELSTAR 19V	63 W.L. If yo			ER, please enter t	he follow	ving:		
E21. Con	nmon Name:					E22.	ITU Name:				
E23. Orb	it Location:					E24.	Country:				
Satellite	Name:TELST	AR 19V   7	TELSTAR 19V	63 W.L. If vo	u selected	ОТН	ER, please enter t	he follow	ving:		
	nmon Name:			<u> </u>			ITU Name:		0		
	it Location:						Country:				
		TAD 10V/	TELSTAD 10V	63 WI Ifvo	I		ER, please enter t	he follow	ing:		
	mon Name:			05 W.L. II yo	11		ITU Name:		ing.		
	it Location:						Country:				
		AR 19V / 7	FEI STAR 19V	63 W L If vo			ER, please enter t	he follow	ving.		
	mon Name:			05 W.L. II yo			ITU Name:		ing.		
	it Location:						Country:				
			···· · · · · · · · · · · · · · · · · ·			E24.	Country:				
	Identifier:	ATION (Des	tination Points)				1				
	mon Name:						E27. Country:				
ANTENNA							E27. Country:				
Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size	ı	E41/42. Ante Recieve			nint and _GHz)	l/or
TR69CM	69CM	1000000	SKYWARE GLOBAL	069R	0.0	0	.0 dBi at				
TR69CM	69CM	1000000	SKYWARE GLOBAL	HNS-AN8- 069R	0.0	0	.0 dBi at				
E28. Antenna	E33/34. D Minor/Majo		E35. Above Ground Level(meters)	E36. Above Sea Level(meters)	E37. Bui Height A Grou	Abov nd	e Input Power at antenna	Antenn Ab	aximum a Height oove	EIR	. Total P for al rs(dBW)
Id			Level(meters)	Leven(meters	Level(m	eters	) flange(Watts)	Rooftor	o(meters)	carrie	rs(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	

E28. Antenna Id	E43/44. Frequenc Bands(MH	iz) Mode	E46. Antenna Polarization(H,V,L,	R) E47. Emissi Designa	on E48.	Maximum EI Carrier(dBW			Densi	mum H ity per BW/4k	
	CY COORDINA										
F78	E51. Satellite Orbit Type	F52/53	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	Ant Elev Aı Wes	259. tenna vation ngle estern imit	EI t	0. Max IRP De coward on(dBV	ensity
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		
EMOTE C	CONTROL POIN	NT LOCATION						.,			
E61. Call Si	ign					E	66. Pho	one Numb	er		
NOTE: Plea	se enter the callsi	gn of the controlli	ing station, not the callsi	gn for which thi	s application is	being filed.					
E62. Street		6		0	11	0					
E63. City				E68. County			Ee	67/68. Sta	ate/Coun	ntry E64	. Zip Coo
	F		ELLITE EARTI 312 - Schedule B FOR O		l and Ope			ption)			
Location of E1: Site Ide E2: Contac E3. Street:	Earth Station Site	FCC Form 3	312 - Schedule B	:(Technica DFFICIAL U	E5. Cal E5. Cal E6. Pho E7. City E8. Cou	l Sign: one Number: y: unty:	escrij E0	<b>ption)</b> 060445 01-428-7	7205		
E1: Site Ide E2: Contac E3. Street: E4. State	Earth Station Site entifier: T t Name H	FCC Form 3	312 - Schedule B FOR O	:(Technica DFFICIAL U	E5. Cal E5. Cal E6. Pho E7. City E8. Cou E9. Zip	l Sign: one Number: y: unty: Code	E0	060445 01-428-7	7205		
E1: Site Ide E2: Contact E3. Street: E4. State E10. Area of E11. Latitu E12. Longi	Earth Station Site entifier: T t Name H of Operation: de: 0 tude: 0	FCC Form 3 R69CM ughes Network ° 0 ' 0.0 " ° 0 ' 0.0 "	312 - Schedule B FOR O	:(Technica DFFICIAL U	E5. Cal E5. Cal E6. Pho E7. City E8. Cou E9. Zip CONU	erational De l Sign: one Number: y: unty: Code JS, AK, HI, P	E0 30 PR, VI	060445 01-428-7			N/A
E1: Site Ide E2: Contact E3. Street: E4. State E10. Area o E11. Latitu E12. Longi E13. Lat/Lo	Earth Station Site entifier: T t Name H of Operation: de: 0	CC Form 3	312 - Schedule B FOR O	:(Technica DFFICIAL U	E5. Cal E5. Cal E6. Pho E7. City E8. Cou E9. Zip CONU	erational De l Sign: one Number: y: unty: Code JS, AK, HI, P	E0 30 PR, VI	060445 01-428-7		۲	) N/A
E1: Site Ide E2: Contact E3. Street: E4. State E10. Area of E11. Latitud E12. Longi E13. Lat/Lo E14. Site E E15. If the p antenna(s) of qualification E16. If the p Service (FS)	Earth Station Site entifier: T t Name H of Operation: de: 0 tude: 0 on Coordinates are levation (AMSL): proposed antenna( comply with the ar n measurement? If proposed antenna( S) with non-geosta	CC Form 3 CC Form 3 R69CM ughes Networl ° 0 ' 0.0 " ° 0 ' 0.0 " s) operate in the F thenna gain pattern FNO, provide as a s) do not operate ationary satellites	B12 - Schedule B FOR O k Management Cent rixed Satellite Service (F ns specified in Section 2 technical analysis show in the Fixed Satellite Ser , do(es) the proposed ant	Technica <b>DFFICIAL U</b> Ter Ter Ter Ter Ter Ter Ter Ter	I and Ope SE ONLY E5. Cal E6. Pho E7. City E8. Cou E9. Zip CONU NA 0.0 me tionary satellitu as demonstrat with two-degree f they operate i with the anten	erational De l Sign: one Number: y: inty: Code JS, AK, HI, P AD-27 ters es, do(es) the pro ed by the manufa ee spacing policy n the Fixed Satel	E0 30 PR, VI	060445 )1-428-7	83 Yes	© No	0 N/.
E1: Site Ide E2: Contact E3. Street: E4. State E10. Area of E11. Latitud E12. Longi E13. Lat/Lo E14. Site E E15. If the p untenna(s) of qualification E16. If the p Service (FS: Section 25.2	Earth Station Site entifier: T t Name H of Operation: de: 0 tude: 0 on Coordinates are levation (AMSL): proposed antenna( comply with the ar n measurement? If proposed antenna( S) with non-geost 209(a2) and (b) as	CC Form 3 CC Form 3 R69CM ughes Networl ° 0 ' 0.0 " ° 0 ' 0.0 " ° 0 ' 0.0 " s) operate in the F thenna gain pattern fNO, provide as a s) do not operate i ationary satellites demonstrated by	512 - Schedule B FOR O k Management Cent <sup>7</sup> ixed Satellite Service (F ns specified in Section 2 t technical analysis show in the Fixed Satellite Ser , do(es) the proposed ant the manufacturer's quali	Technica DFFICIAL U Ter 7SS) with geosta 5.209(a) and (b) ring compliance rvice (FSS), or if tenna(s) comply fication measure	I and Ope SE ONLY E5. Cal E6. Pho E7. City E8. Cou E9. Zip CONU 0.0 me tionary satellitu as demonstrat with two-degre f they operate i with the anten ements?	erational De l Sign: one Number: y: inty: Code JS, AK, HI, P AD-27 ters es, do(es) the pro ed by the manufa ee spacing policy n the Fixed Satel na gain patterns s	E0 30 PR, VI	060445 01-428-7 s • ed in •	83 Yes Yes	<ul><li>No</li><li>No</li></ul>	• N/.
E1: Site Ide E2: Contact E3. Street: E4. State E10. Area of E11. Latitud E12. Longi E13. Lat/Lo E14. Site E E15. If the p untenna(s) of qualification E16. If the p Service (FS) Section 25.2 E17. Is the f	Earth Station Site entifier: T t Name H of Operation: de: 0 tude: 0 on Coordinates are levation (AMSL): proposed antenna( comply with the ar n measurement? If proposed antenna( S) with non-geost 209(a2) and (b) as facility operated b	CC Form 3 CC Form 3 R69CM ughes Networl ° 0 ' 0.0 " ° 0 ' 0.0 " ° 0 ' 0.0 " s) operate in the F thenna gain pattern fNO, provide as a s) do not operate a tionary satellites demonstrated by y remote control?	B12 - Schedule B FOR O k Management Cent rixed Satellite Service (F ns specified in Section 2 technical analysis show in the Fixed Satellite Ser , do(es) the proposed ant	Technica OFFICIAL U Ter <sup>7</sup> SS) with geosta 5.209(a) and (b) ring compliance rvice (FSS), or if tenna(s) comply fication measure ation and telepho	I and Ope SE ONLY E5. Cal E6. Pho E7. City E8. Cou E9. Zip CONU 0.0 me tionary satellitu as demonstrat with two-degre f they operate i with the anten ements?	erational De l Sign: one Number: y: inty: Code JS, AK, HI, P AD-27 ters es, do(es) the pro ed by the manufa ee spacing policy n the Fixed Satel na gain patterns so the control point	E0 30 PR, VI	060445 01-428-7 s • ed in •	83 Yes	No No	0 N/.
E1: Site Ide E2: Contact E3. Street: E4. State E10. Area of E11. Latitut E12. Longi E13. Lat/Lo E14. Site E E15. If the p mtenna(s) of qualification E16. If the p Service (FS) Section 25.2 E17. Is the f E18. Is fro E19. Is co	Earth Station Site entifier: T t Name H of Operation: de: 0 tude: 0 on Coordinates are levation (AMSL): proposed antenna( comply with the ar n measurement? If proposed antenna( S) with non-geost 209(a2) and (b) as facility operated by equency coord	CC Form 3 R69CM ughes Network ° 0 ' 0.0 " ° 0 ' 0.0 "	512 - Schedule B FOR O k Management Cent <sup>7</sup> ixed Satellite Service (F ns specified in Section 2 technical analysis show in the Fixed Satellite Ser , do(es) the proposed and the manufacturer's quali If YES, provide the loca	FFICIAL U FFICIAL U Ter SS) with geosta 5.209(a) and (b) ving compliance rvice (FSS), or if tenna(s) comply fication measure ation and telepho frequency co	I and Ope SE ONLY E5. Cal E6. Pho E7. City E8. Cou E9. Zip CONU 0 NA 0.0 me tionary satellitu a s demonstrat with two-degree f they operate i with the anten ements? one number of	erational De l Sign: one Number: y: inty: Code JS, AK, HI, P AD-27 ters es, do(es) the pro ed by the manufa ee spacing policy n the Fixed Satel na gain patterns s the control point eport as	E0 30 PR, VI posed acturer's 7. llite specifie	060445 01-428-7	83 Yes Yes Yes	No No	<ul> <li>N/.</li> <li>N/.</li> <li>No</li> </ul>

1/25/2021

# **FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN**

	E TO COMP 5 APPLICAT		ł 47 (	CFR PART	'S 17 AI	ND 25	WILI	RES	ULT	IN THE RET	TURN			
OINTS OF	F COMMUNIC	ATION												
		AR 19V   '	FELS	TAR 19V	63 W.L	. If yo	u selec			, please enter	the fo	llowing	g:	
	nmon Name:									U Name:				
E23. Orbi	it Location:							E2	24. Co	untry:				
Satellite N	Name:TELST	AR 19V   '	ГELS	TAR 19V	63 W.L	. If yo	u selec	ted O7	THER	, please enter	the fo	llowing	g:	
	nmon Name:							E2	2. ITU	U Name:				
E23. Orbi	it Location:							E2	24. Co	ountry:				
Satellite 1	Name:TELST	AR 19V   '	ΓELS	TAR 19V	63 W.L	. If yo	u selec	ted O7	THER	, please enter	the fo	llowing	g:	
E21. Con	nmon Name:							E2	2. ITU	U Name:				
E23. Orbi	it Location:							E2	24. Co	ountry:				
Satellite 1	Name:TELST	AR 19V   '	FELS	TAR 19V	63 W.L	. If yo	u selec	ted O7	THER	, please enter	the fo	llowing	g:	
E21. Con	nmon Name:							E2	2. IT	U Name:				
E23. Orbi	it Location:							E2	24. Co	untry:				
	F COMMUNIC	ATION (Des	tinatio	on Points)										
	Identifier:													
	nmon Name:								E2	7. Country:				
Site ID	E28. Antenna Id	E29. Quantity	Mar	E30. nufacturer	E3 Mod		E3 Ante Siz	nna		E41/42. Ante Recieve		Gain T dBi at		
TR69CM	69CM	1000000		WARE BAL	HNS-A 069R	N8-	0.0		0.0 d	lBi at				
TR69CM	69CM	1000000		WARE BAL	HNS-A 069R	N8-	0.0		0.0 d	lBi at				
E28. Antenna Id	E33/34. D Minor/Majo	iameter r(meters)		5. Above round l(meters) l	E36. A Sea Level(m		Heig	Build ht Abo round l(mete	ove 1	E38. Total Input Power at antenna lange(Watts)	Ant	). Maxi enna H Abov ftop(m	leight e	E40. Total EIRP for al carriers(dBW
69CM	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
REQUENCE E28.	CY E43/44	. E4	5				E47.					E49	Maxi	mum ERIP
Antenna Id		cy    T/	R   <sub>p</sub>	E46. An olarization			Emissi Designa	on 🕴		Maximum EI Carrier(dBW			Densi	ty per BW/4kHz)
	lulation and S													
REQUEN	CY COORDIN	ATION												
E28. Antenna Id	E51. Satellit Orbit Type		ency	E54/55. I of Satelli Eastern/W Lim	te Arc Vestern	Sta Azir An Eas	Earth tion nuth igle itern mit	Anto Eleva An Eas	57. enna ation gle tern mit	E58. Earth Station Azimuth Angle Western Limit	Ant Elev Ai We	59. enna vation ngle stern mit	EI t	). Maximum RP Density oward the on(dBW/4kHz
69CM	Geostationar	y 19700 20	)200	63.0/138.9		107.0		5.0		267.8	69.2		0.0	
				(2 0/120 0		107.0		5.0		267.8	69.2		0.0	
	Geostationar	y <u>19700 2</u> 0	)200	63.0/138.9		107.0		5.0		207.0	07.2		0.0	
	Geostationar Geostationar			63.0/138.9		107.0		5.0		267.8	69.2		-20.0	

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

1/25/2021

E63.	City
------	------

HTML (18).htm

E63. City		E68. County		E67/68	3. State/Cou	ntry E64	. Zip Code
	SATELLITE EART FCC Form 312 - Schedule I				on)	I	
	FOR	OFFICIAL USE ON	LY				
Location of Earth Static E1: Site Identifier: E2: Contact Name E3. Street: E4. State E10. Area of Operation	TR90CM Hughes Network Management Cer	ter E6 E7 E8 E9	. Call Sign: . Phone Number: . City: . County: . Zip Code DNUS, AK, HI, PR,		145 28-7205		
E11. Latitude: E12. Longitude: E13. Lat/Lon Coordina E14. Site Elevation (A	0 ° 0 ' 0.0 " ates are:		) NAD-27 ) meters	○ NA	AD-83	۲	N/A
antenna(s) comply with	tenna(s) operate in the Fixed Satellite Service ( a the antenna gain patterns specified in Section 2 ent? If NO, provide as a technical analysis show	25.209(a) and (b) as demon	strated by the manufactu		• Yes	○ No	○ N/A
Service (FSS) with non	tenna(s) do not operate in the Fixed Satellite Se -geostationary satellites, do(es) the proposed an (b) as demonstrated by the manufacturer's qual	tenna(s) comply with the a			Yes	○ No	• N/A
E17. Is the facility oper	rated by remote control? If YES, provide the lo	cation and telephone numb	er of the control point.		• Yes	$\bigcirc$	No
E18. Is frequency of	coordination required? If YES, attach a	frequency coordinati	on report as		• Yes	۲	No
E19. Is coordination of coordination cor	n with another country required? If YI ntours as	ES, attach the name of	the country(ies) and	l plot	• Yes	۲	No
required, have you regarding the pote	ation - (See 47 CFR Part 17 and 47 C u attached a copy of a completed FC ential hazard of the structure to avia DMPLY WITH 47 CFR PARTS 17 A CATION.	C Form 854 and/or tion?	he FAA's study		• Yes	۲	No
POINTS OF COMMU							
	LSTAR 19V   TELSTAR 19V   63 W.I	-		e follow	ving:		
E21. Common Nar			. ITU Name:				
E23. Orbit Locatio	n:	E24	. Country:				
Satellite Name:TE	LSTAR 19V   TELSTAR 19V   63 W.I	2. If you selected OTH	IER, please enter the	e follow	ving:		
E21. Common Nar	ne:	E22	. ITU Name:				
E23. Orbit Locatio	n:	E24	. Country:				
Satellite Name:TE	LSTAR 19V   TELSTAR 19V   63 W.I	. If you selected OTH	IER, please enter the	e follow	ving:		
E21. Common Nar	ne:	E22	. ITU Name:				
E23. Orbit Locatio	n:	E24	. Country:				
Satellite Name: TE	LSTAR 19V   TELSTAR 19V   63 W.I	If you selected OTH	IER, please enter the	e follow	ving:		
E21. Common Nar	· · · · ·	-	. ITU Name:				
E23. Orbit Locatio			. Country:				
	NICATION (Destination Points)						
E25. Site Identifier	· · · · · · · · · · · · · · · · · · ·		]				
E26. Common Nar			E27. Country:				
ANTENNA			<u>H</u>				

25/2021							HTM	L (18)	.htm					
Site ID	E28. Antenna Id	E29. Quantity	y Ma	E30. anufacturer	E31. Mode		E32. Anten Size	na		E41/42. Anto Recieve		a Gain T _dBi at		nt and/or GHz)
TR90CM	90CM	100000		OBAL YWARE	611604 01	47-0.0	0		0.0 d	lBi at				
TR90CM	90CM	100000		OBAL YWARE	611604 01	47-0.0	0		0.0 d	lBi at				
E28. Antenna Id	E33/34. Di Minor/Majo		G	5. Above Fround el(meters) L	E36. Ab Sea evel(me		E37. I Heigh Gr Level	t Ab ound	ove l	E38. Total Input Power at antenna flange(Watts)	A	39. Maxi ntenna F Abov poftop(m	leight e	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
FREQUEN	CY													
E28. Antenna Id	E43/44 Frequent Bands(MI	cy T	45. /R ode	E46. Anto olarization(l		211	E47. Emissio esignat	n		Maximum El • Carrier(dBV			Densi	mum ERIP ty per BW/4kHz)
E50. Mod	ulation and So	ervices				31								
FREQUEN	CY COORDINA	TION												
E28. Antenna Id	E51. Satellite Orbit Type	E52/2 Freque Limits(1	ency	E54/55. Ra of Satellite Eastern/We Limit	ange e Arc estern	E56. F Stat Azim Ang East Lin	ion 1uth gle ern	Anto Eleva An Eas	57. enna ation gle tern mit		A El W	E59. ntenna evation Angle Vestern Limit	EI t	). Maximum RP Density oward the on(dBW/4kHz
90CM	Geostationary	/ 19700 2	0200	63.0/138.9	1	107.0	4	5.0		267.8	69.	2	0.0	
	Geostationary	/ 19700 2	0200	63.0/138.9	1	107.0	4	5.0		267.8	69.	2	0.0	
	Geostationary	29250 3	0000	63.0/138.9	1	107.0	4	5.0		267.8	69.	2	-20.0	
	Geostationary			63.0/138.9		107.0		5.0		267.8	69.		-20.0	
REMOTE C	CONTROL POI	NT LOCAT	TION	11						/I				
E61. Call Si NOTE: Plea E62. Street	se enter the calls	ign of the co	ontrollii	ng station, not tl	he callsig	n for wl	hich this	applic	ation i		66. P	hone Numl	ber 	
E63. City					E	E68. Coi	unty					E67/68. St	ate/Coun	try E64. Zip Cod
	]			12 - Sched		(Tecl	nnical	and	l Op	ORIZATIO erational D			)	
Location of	Earth Station Sit	e												
E1: Site Ide		R90CM						]	E5. Ca	ll Sign:	]	E060445		
E2: Contact E3. Street:	t Name H	lughes Ne	etwork	x Managemer	nt Cente	er		]	E6. Ph E7. Cit E8. Co	-		301-428-	7205	
E4. State										p Code				
E10. Area o	of Operation:							(		US, AK, HI, P	PR, ۱	/I		
	-	° 0 ' 0.0 '	,					(		US, AK, HI, P	PR, V	/I		
E10. Area o E11. Latitud E12. Longi	de: 0	° 0 ' 0.0 ' ° 0 ' 0.0 '						(		US, AK, HI, P	PR, V	/Ι		
E11. Latitu E12. Longi	de: 0	° 0 ' 0.0 '							CON	US, AK, HI, P AD-27		/I • NAD-	-83	• N/A

antenna(s) co	omply with the a	intenna gain p		Section 25.209	9(a)	and (b) as der	nonstr	ites, do(es) the prop ated by the manufac gree spacing policy.		• Yes	○ No	○ N/A
Service (FSS	S) with non-geos	tationary satel		posed antenna	(s) (	comply with the	he ante	in the Fixed Satelli enna gain patterns sp		• Yes	○ No	• N/A
E17. Is the fa	acility operated	by remote con	trol? If YES, provid	de the location	and	telephone nu	mber c	of the control point.		• Yes	$\bigcirc$	No
E18. Is fre	equency coord	lination req	uired? If YES, a	attach a freq	lnei	ncy coordin	ation	report as		• Yes	۲	No
	ordination wi		country required	l? If YES, a	ttac	h the name	of th	e country(ies) a	nd plot	• Yes	۲	No
E20. FAA required, regarding FAILURI OF THIS	Notification have you att the potentia TO COMP APPLICAT	a - (See 47 C tached a co al hazard o PLY WITH ION.	py of a comple f the structure	ted FCC Fo to aviation	orn ?	1 854 and/o	or the	ere FAA notific FAA's study IN THE RET		• Yes	۲	No
-			ELCTAD 10V	(2 WI If.		a a la ata d O	THE	R, please enter t	fallarr	·		
	mon Name:	AK 19V   1	ELSIAK I9V	03 W.L. II	you			TU Name:	ne lollow	ing:		
	t Location:							ountry:				
			ELSTAD 10V	62 WI If.				R, please enter t	a fallow			
	mon Name:	AK 19V   I	ELSTAK 19V	05 W.L. II	you			R, please enter th ΓU Name:		mg:		
	t Location:							ountry:				
			ELSTAD 10V	62 WI If.				R, please enter t	a fallow			
	mon Name:	AK 19V   1	ELSIAK I9V	03 W.L. II	you			TU Name:	ne lollow	ing:		
	t Location:							ountry:				
			ELCTAD 10V	(2 WI If.				• •	f=11 ====	·		
	mon Name:	AK 19V   1	ELSIAK I9V	63 W.L. II	you			R, please enter the function of the function o	ne tollow	ing:		
	t Location:							ountry:				
	COMMUNIC	ATION (Dest	ination Points)				24. C	ounuy.				
E25. Site												
E26. Com	mon Name:						E	27. Country:				
ANTENNA		ŀ	51	1	-1							
Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacture	E31. r Model		E32. Antenna Size		E41/42. Anter Recieve(			int and GHz)	l/or
TR90CM	90CM	100000	GLOBAL SKYWARE	6116047- 01	0.0	0	0.0 0	dBi at				
TR90CM	90CM	100000	GLOBAL SKYWARE	6116047- 01	0.0	0	0.0 0	dBi at				
E28. Antenna Id	E33/34. Di Minor/Majo	n(motone)	E35. Above Ground Level(meters) l	E36. Abov Sea Level(meter		E37. Build Height Ab Ground Level(met	oove d	E38. Total Input Power at antenna flange(Watts)	Antenna	aximum a Height ove (meters)	EIR	). Total P for al ers(dBW)
90CM	0.0/0.0		0.0	0.0		0.0		0.0	0.0		0.0	
	0.0/0.0		0.0	0.0		0.0		0.0	0.0		0.0	
FREQUENC		E 46	-			F 47				40.34		
E28. Antenna Id	E43/44 Frequen Bands(M	cy 🛛 T/F	E46. An Polarization			E47. Emission esignator		Maximum EII r Carrier(dBW	(P	49. Max Dens Carrier(c	ity per	
J	ulation and S											
	CY COORDINA E51. Satellito Orbit Type	e E52/53					57. tenna	E58. Earth Station	E59. Antenn		0. Max IRP De	

Id					ML (18).htm					
		Limits(MHz)	Eastern/Western Limit	Azimuth Angle Eastern Limit	Elevation Angle Eastern Limit	Azimuth Angle Western Limit	Elevation Angle Wester Limit	n Hori	toward izon(dB	
90CM	Geostationary	/ 19700 20200	63.0/138.9	107.0	5.0	267.8	69.2	0.0		
		/ 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	)	
		/ 29250 30000	63.0/138.9	107.0	5.0	267.8	69.2	-20.0		
REMOTE	CONTROL POI									
E61. Call S NOTE: Pla E62. Stree	ease enter the calls	ign of the controllin	ng station, not the callsi	gn for which th	is application is		66. Phone N	umber		
							<u> </u>			
E63. City				E68. County			E67/68 /	. State/Co	untry E64	. Zip Cod
			FOR C	OFFICIAL U	ISE ONLY					
	of Earth Station Sit									
E1: Site Id		R1.8M			E5. Call	-	E0604			
E2: Conta		lughes Network	Management Cen	ter		ne Number:	301-42	28-7205		
E3. Street	t:				E7. City E8. Cou					
					E8. Cou E9. Zip	-				
F4. State										
E4. State E10. Area	a of Operation:				-		PR. VI			
	a of Operation: tude: 0	° 0 ' 0.0 "			-	JS, AK, HI, I	PR, VI			
E10. Area	tude: 0	° 0 ' 0.0 " ° 0 ' 0.0 "			-		PR, VI			
E10. Area E11. Latit E12. Long	tude: 0	° 0 ' 0.0 "			CONU		PR, VI	D-83	۲	N/A
E10. Area E11. Latit E12. Long E13. Lat/I	tude: 0 gitude: 0	° 0 ' 0.0 " re:			CONU	JS, AK, HI, H	,	.D-83	۲	N/A
E10. Area E11. Latit E12. Long E13. Lat/I E14. Site E15. If the antenna(s) qualificatio	tude: 0 gitude: 0 Lon Coordinates ar Elevation (AMSL) proposed antenna comply with the a on measurement? 1	° 0 ' 0.0 " re: (s) operate in the Fintenna gain pattern f NO, provide as a	ixed Satellite Service (F s specified in Section 2 technical analysis show	5.209(a) and (b ving compliance	CONU NA 0.0 me ntionary satellite ) as demonstrate with two-degree	JS, AK, HI, H AD-27 ters es, do(es) the pre- ed by the manuf se spacing polic	NA poposed acturer's y.		© No	○ N/A ○ N/A
E10. Area E11. Latit E12. Long E13. Lat/I E14. Site E15. If the antenna(s) qualificatio E16. If the Service (F	tude: 0 gitude: 0 Lon Coordinates ar Elevation (AMSL) e proposed antenna o omply with the a on measurement? I e proposed antenna SS) with non-geos	<ul> <li>° 0 ' 0.0 "</li> <li>re:</li> <li>(s) operate in the Fintenna gain pattern if NO, provide as a</li> <li>(s) do not operate in tationary satellites,</li> </ul>	s specified in Section 2	5.209(a) and (b ving compliance rvice (FSS), or i tenna(s) comply	NA 0.0 me ttionary satellite ) as demonstrate with two-degree f they operate in with the antenn	JS, AK, HI, H AD-27 ters es, do(es) the pre- ed by the manuf ee spacing polic n the Fixed Sate	NA poposed acturer's y. llite	• Yes		
E10. Area E11. Latit E12. Long E13. Lat/I E14. Site E15. If the antenna(s) qualification E16. If the Service (F Section 25	tude: 0 gitude: 0 Lon Coordinates ar Elevation (AMSL) e proposed antenna o comply with the a on measurement? I e proposed antenna SS) with non-geos 5.209(a2) and (b) as	° 0 ' 0.0 " re: (s) operate in the Fintenna gain pattern (f NO, provide as a (s) do not operate in tationary satellites, s demonstrated by t	s specified in Section 2 technical analysis show n the Fixed Satellite Ser do(es) the proposed an	5.209(a) and (b ving compliance rvice (FSS), or i tenna(s) comply fication measur	CONU NA 0.0 me titionary satellite ) as demonstrate with two-degre f they operate in with the antenne ements?	JS, AK, HI, I D-27 ters es, do(es) the pri- ed by the manuf ee spacing polic n the Fixed Sate na gain patterns	NA oposed acturer's y. llite specified in	• Yes	○ No	○ N/2
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E10. Area E11. Latit E12. Long E13. Lat/I E14. Site E15. If the antenna(s) qualification E16. If the Service (F Section 25 E17. Is the E18. Is f E19. Is c of coord E20. FA requirec regardin FAILUF OF THI	tude: 0 gitude: 0 Lon Coordinates ar Elevation (AMSL) e proposed antenna o comply with the a on measurement? I e proposed antenna SS) with non-geos 5.209(a2) and (b) as e facility operated b frequency coord coordination wi lination contour A Notification d, have you att ng the potentia RE TO COMP IS APPLICAT	<ul> <li>° 0 ' 0.0 "</li> <li>re:</li> <li>(s) operate in the Fintenna gain pattern if NO, provide as a (s) do not operate in tationary satellites, s demonstrated by t</li> <li>by remote control?</li> <li>dination required th another counts as</li> <li>- (See 47 CFR ached a copy on the copy of the copy of</li></ul>	s specified in Section 2 technical analysis show n the Fixed Satellite Ser do(es) the proposed an he manufacturer's quali If YES, provide the loc d? If YES, attach a	5.209(a) and (b ving compliance rvice (FSS), or i tenna(s) comply fication measur ation and teleph frequency co S, attach the FR part 25.1 C Form 854 tion?	CONU NA 0.0 me as demonstrated with two-degree f they operate in with the antenne ements? one number of pordination re- name of the 113(c)) When and/or the lagree	JS, AK, HI, H AD-27 ters es, do(es) the pro- ed by the manuf ee spacing police in the Fixed Sate na gain patterns the control poin eport as country(ies) re FAA notif FAA's study	NA oposed acturer's y. Illite specified in t. and plot <b>fication is</b>	<ul> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> </ul>	© No © No ©	<ul> <li>N/2</li> <li>N/2</li> <li>No</li> <li>No</li> </ul>
E10. Area E11. Latit E12. Long E13. Lat/I E14. Site E15. If the antenna(s) qualification E16. If the Service (F Section 25 E17. Is the E18. Is f E19. Is c of coord E20. FA requirect regardin FAILUE OF THI POINTS C	tude: 0 gitude: 0 Lon Coordinates ar Elevation (AMSL) proposed antenna comply with the a on measurement? I proposed antenna son measurement? I proposed antenna SS) with non-geos 5.209(a2) and (b) as e facility operated b frequency coord coordination wi lination contour A Notification d, have you att ng the potentia RE TO COMP IS APPLICAT	<ul> <li>° 0 ' 0.0 "</li> <li>re:</li> <li>(s) operate in the Fintenna gain pattern if NO, provide as a (s) do not operate in tationary satellites, s demonstrated by t</li> <li>for required the another count is as</li> <li>- (See 47 CFR ached a copy of a c</li></ul>	s specified in Section 2 technical analysis show in the Fixed Satellite Ser do(es) the proposed and he manufacturer's quali If YES, provide the loc: d? If YES, attach a try required? If YE Part 17 and 47 C f a completed FC structure to aviat CFR PARTS 17 A	5.209(a) and (b ving compliance rvice (FSS), or i tenna(s) comply fication measur ation and teleph frequency co S, attach the FR part 25.1 C Form 854 tion? ND 25 WILL	CONU NA 0.0 me tionary satellite ) as demonstrate with two-degree f they operate in with the antenne ements? one number of pordination rr name of the 113(c)) When and/or the l	JS, AK, HI, H AD-27 ters es, do(es) the pro- ed by the manuf ee spacing polic n the Fixed Sate na gain patterns the control poin eport as country(ies) <b>re FAA notif</b> F <b>AA's study</b> IN THE RE <sup>7</sup>	NA opposed acturer's y. Illite specified in t. and plot <b>fication is</b> <b>FURN</b>	<ul> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> </ul>	© No © No ©	<ul> <li>N/2</li> <li>N/2</li> <li>No</li> <li>No</li> <li>No</li> </ul>
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E10. Area E11. Latit E12. Long E13. Lat/I E14. Site E15. If the antenna(s) qualificatio E16. If the Service (F Section 25 E17. Is the E18. Is f E19. Is c of coord E20. FA requirec regardin FAILUF OF THI POINTS C Satellite E21. Co	tude: 0 gitude: 0 Lon Coordinates ar Elevation (AMSL) e proposed antenna o comply with the a on measurement? I e proposed antenna SS) with non-geos 5.209(a2) and (b) as e facility operated b frequency coord coordination wi lination contour A Notification d, have you att ng the potentia RE TO COMP IS APPLICAT DF COMMUNIC/ Name: TELST/ mmon Name:	<ul> <li>° 0 ' 0.0 "</li> <li>re:</li> <li>(s) operate in the Fintenna gain pattern if NO, provide as a (s) do not operate in tationary satellites, s demonstrated by t</li> <li>for required the another count is as</li> <li>- (See 47 CFR ached a copy of a c</li></ul>	s specified in Section 2 technical analysis show in the Fixed Satellite Ser do(es) the proposed and he manufacturer's quali If YES, provide the loc: d? If YES, attach a try required? If YE Part 17 and 47 C f a completed FC structure to aviat CFR PARTS 17 A	5.209(a) and (b ving compliance rvice (FSS), or i tenna(s) comply fication measur ation and teleph frequency co S, attach the FR part 25.1 C Form 854 tion? ND 25 WILL	CONU NA 0.0 me titionary satellite as demonstrated with two-degree f they operate in with the antenne ements? one number of pordination re- name of the 113(c)) When and/or the I L RESULT I ted OTHER.	JS, AK, HI, H AD-27 ters es, do(es) the pro- ed by the manuf ee spacing polic n the Fixed Sate na gain patterns the control poin eport as country(ies) <b>re FAA notif</b> F <b>AA's study</b> IN THE RE <sup>7</sup>	NA opposed acturer's y. Illite specified in t. and plot <b>fication is</b> <b>FURN</b>	<ul> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> </ul>	© No © No ©	<ul> <li>N/2</li> <li>N/2</li> <li>No</li> <li>No</li> <li>No</li> </ul>
E10. Area E11. Latit E12. Long E13. Lat/I E14. Site E15. If the antenna(s) qualificatio E16. If the Service (F Section 25 E17. Is the E18. Is f E19. Is c of coord E20. FA requirec regardin FAILUF OF THI OINTS C Satellite E21. Co	tude: 0 gitude: 0 Lon Coordinates ar Elevation (AMSL) e proposed antenna o comply with the a on measurement? I e proposed antenna SS) with non-geos 5.209(a2) and (b) as e facility operated b frequency coord coordination wi lination contour A Notification d, have you att ng the potentia RE TO COMP IS APPLICAT	<ul> <li>° 0 ' 0.0 "</li> <li>re:</li> <li>(s) operate in the Fintenna gain pattern if NO, provide as a (s) do not operate in tationary satellites, s demonstrated by t</li> <li>for required the another count is as</li> <li>- (See 47 CFR ached a copy of a c</li></ul>	s specified in Section 2 technical analysis show in the Fixed Satellite Ser do(es) the proposed and he manufacturer's quali If YES, provide the loc: d? If YES, attach a try required? If YE Part 17 and 47 C f a completed FC structure to aviat CFR PARTS 17 A	5.209(a) and (b ving compliance rvice (FSS), or i tenna(s) comply fication measur ation and teleph frequency co S, attach the FR part 25.1 C Form 854 tion? ND 25 WILL	CONU NA 0.0 me titionary satellite as demonstrated with two-degree f they operate in with the antenne ements? one number of pordination re- name of the 113(c)) When and/or the I L RESULT I ted OTHER.	JS, AK, HI, H AD-27 ters ters ters ters ters ters ters ters ters ters the control poin the control poin the control poin the control poin the control poin the control poin the <b>FAA notif</b> <b>FAA's study</b> IN THE RE <sup>7</sup> , please enter U Name:	NA opposed acturer's y. Illite specified in t. and plot <b>fication is</b> <b>FURN</b>	<ul> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> </ul>	© No © No ©	○ N/. ● N/. No No

Antenna IdE33/34. Diameter Minor/Major(meters)Ground Level(meters)Sea Level(meters)Height Above Ground Level(meters)Input Power at antenna frage(Watts)Antenna Height Above Rooftop(meters)EIRP for carriers(dl at antenna frage(Watts)EIRP for carriers(dl at antenna hage(Watts)EIRP for carriers(dl at antenna hage(Watts)EIRP for carriers(dl at antenna hage(Watts)Antenna Height Above Rooftop(meters)EIRP for carriers(dl at antenna hage(Watts)EIRP for carriers(dl antenna hage(Watts)EIRP for carriers(dl at antenna hage(Watts)EIRP for carriers(dl antenna hage(Watts)EIRP for carriers(dl antenna hage(Matts)EIRP for carriers(dl antenna hage hage hage hage hage hage 	25/2021							HTN	ИL (18	8).htm					
Satellite Name:TELSTAR 19V   TELSTAR 19V   63 W.L. If you selected OTHER, please enter the following:           F21. Common Name:         F22. TTU Name:           E23. Orbit Location:         E24. Country:           Satellite Name:TELSTAR 19V   TELSTAR 19V   63 W.L. If you selected OTHER, please enter the following:         E24. Country:           Satellite Name:TELSTAR 19V   TELSTAR 19V   63 W.L. If you selected OTHER, please enter the following:         E23. Orbit Location:           E23. Orbit Location:         E24. Country:           POINTS OF COMMUNICATION (Destination Points)         E25. Site Identifier:           E25. Site Identifier:         E27. Country:           Artenna Id         Quantity Manufacturer         Model           Antenna Size         E41/42. Antenna Gain Transmint and/or           R1.8M TR1.8         50000         GD SATCOM           Ground         Ground         E37. Boilding           Hight Above Identifier:         E37. Boilding           F18.80 (00.0         0.0         0.0           R18.80 (00.0         0.0         0.0           R18.9	E21. Con	E21. Common Name: E22. ITU Name:													
E21. Common Name:         E22. ITU Name:           E23. Orbit Location:         E24. Country:           Satellite Name:TELSTAR 19V   TELSTAR 19V   63 WL. If you selected OTHER, please enter the following:         E23.           E21. Common Name:         E24. Country:           E23. Orbit Location:         E24. Country:           E23. Orbit Location:         E24. Country:           E23. Orbit Location:         E24. Country:           E23. Stie Identifier:         E24. Country:           E25. Stie Identifier:         E26. Common Name:           Antenna Id         Quantify Maurfacturer         Model           Antenna Size         E41/42. Antenna Gain Transmint and/or           Recieve(dBi atGH/2)         GBJ           TR1.8M         TR1.8         50000         GD SATCOM           TR1.8         S0000         GD SATCOM         3180-         0.0         0.0 doi at           TR1.8         0.00.0         0.0	E23. Orb	E23. Orbit Location:													
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Satellite Name: TELSTAR 19V   7ELSTAR 19V   63 WL. If you selected OTHER, please enter the following:           F21. Common Name:         F22. ITU Name:           F23. Orbit Location:         F24. Country:           PONTS OF COMUNICATION (Destination Points)         F24. Country:           F25. Site Identifier:         F29.           F26. Common Name:         F27. Country:           ATTENA         F29.           Site ID         Antenna Id           Quantity         Manufacturer           Model         Antenna Size           F41/42. Antenna Gain Transmint and/or           Recieve(_dBi atGram           TR1.8M         TR1.8           Materna         Solog GD SATCON           131         0.0           Level(meters)         E36. Above           E43/34. Diameter         E35. Above           Roadondor         Ground           Level(meters)         E46. Antenna           Level(meters)         E47. Building           Prequency         E46. Antenna           Roadon(H12)         Antenna Iteight           Antenna         Frequency           Kata         E47.           Density per         Carriers(d)           TR1.8         0.00.0 <t< td=""><td>E21. Con</td><td colspan="12"></td></t<>	E21. Con														
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E21. Common Name:         F22. ITU Name:           E23. Orbit Location:         E24. Country:           PONTS OF COMMUNICATION (Destination Points)         E24. Country:           E25. Site Identifier:         E26. Country:           E26. Common Name:         E27. Country:           NTEENA         Country MunicAtion Points)           E27. Country:         Antenna Gain Transmint and/or Recieve(	Satellite 1	Name:TELST	AR 19V	TELS	STAR 19V	63 W.L.	If voi	u selec	ted O	THER	R. please enter t	the f	following	r:	
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EXPONTS OF COMMUNICATION (Destination Points)         Image: Common Name: Com															
E25. Site Identifier:         E26. Common Name:         Ket Identifier:         E26. Common Name:         Site ID       Antenna Id       Guantity       Model       Antenna Size       E41/42. Antenna Gain Transmint and/or Recieve         Site ID       Antenna Id       Guantity       Model       Antenna Size       E41/42. Antenna Gain Transmint and/or Recieve         Country:         TRI.8.       Soudo       Gib SATCOM       3180       0.0       Od Bi at         E28.       E33.734. Diameter Ground Level(meters)       E35. Above Ground Level(meters)       E37. Building Hautenna Height Above Rooftop(meters)       E40. Tot ERP for Count of Level(meters)         TRI.8       0.000       0.0       0.0       0.0       0.0       0.0       Carrier(dBW/4kHz)       E43.44.       E45.       Transmint and/or Recieve Colspan="2">E41/42. Antenna Size       E41/42. Antenna Field       Carrier(Jatter Colspan="2">Carrier(Jatter Colspan="2">Carrier(Jatter Colspan="2")       E43.44. <t< td=""><td>_</td><td></td><td>ATION (De</td><td>stinatio</td><td>on Points)</td><td></td><td></td><td></td><td></td><td>21.00</td><td>ound y.</td><td></td><td></td><td></td><td></td></t<>	_		ATION (De	stinatio	on Points)					21.00	ound y.				
ANTENNA         E30.         E31.         E32.         E41/42. Antenna Gain Transmint and/or Recieve         E41/42. Antenna Gain Transmint and/or Recieve           TR1.8M         TR1.8         50000         GD SATCOM         3180- 131         0.0         0.0 dBi at	7														
Site ID         E28. Antenna Id         E29. Quantity         E30. Manufacturer         E31. Model         E32. Antenna Size         E41/42. Antenna Gain Transmint and/or Recieve(	E26. Con	mon Name:								E2	27. Country:				
Site ID Antenna Id R1.8M TR1.8         Quantity GD SATCOM (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	ANTENNA					71	- 1								
IR1.8M       IR1.8       20000       GD SATCOM       131       0.0       0.0 dBi at         TR1.8M       TR1.8       50000       GD SATCOM       3180- 131       0.0       0.0 dBi at         E28. Attenna 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 dat antenna Range(Watts)       Above Rooftop(meters)       E40. Tot Above Rooftop(meters)         TR1.8       0.0/0.0       0.0       0.0       0.0       0.0       0.0       0.0         PREQUENCY       Frequency Id       E45. Modulation and Services       E46. Antenna Polarization(II,V,L,R)       E47. E51. Satellite Orbit Type       E45. Sate Frequency Limits(MHz)       E45. Sange of Satellite Arc Eastern/Western Limit       E56. Earth Angle Carteriot(BW/4kLz)       E48. Maximum EIRP Density per Carteriot(BW/4kLz)         F1. Satellite Orbit Type       E52/53. Frequency Limits(MHz)       E54/55. Range of Satellite Arc Eastern/Western Limit       E57. Eastern Sation Angle Carteriot Angle Carteriot Address       E60. On Asimum Carteriot Angle Carteriot Address <td< td=""><td>Site ID</td><td></td><td></td><td>Ma</td><td></td><td>Model</td><td>Ant</td><td></td><td>Size</td><td></td><td></td><td>ina</td><td></td><td></td><td></td></td<>	Site ID			Ma		Model	Ant		Size			ina			
I.R.1.80       INI.18       50000       GD SATCOM       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 Height Above at antenna Level(meters)       E39. Maximum Antenna Height Above Rooftop(meters)         FREQUENCY       E44.       T/R Polarization(H,V,1,R)       E47. E46. Antenna Polarization(H,V,1,R)       E47. E48. Maximum EIRP Polarization(H,V,1,R)       E48. Maximum EIRP Per Carrier(dBW)       E49. Maximum EIRP Density per Carrier(dBW/4kHz)         E50. Modulation and Services       E54/55. Range of Satellite Arc Eastern/Western Limit       E56. Earth Antenna Elsatern/Western Limit       E57. Station Angle Eastern/Western Limit       E58. Earth Angle Eastern/Western Limit       E60. Maximum EIRP Density toward the Horizon(dBW/4l Urizon(dBW/4l Eastern         TR 1.8       Geostationary Geostationary       E50. 03.0/138.9       107.0       5.0       267.8       69.2       0.0         Geostationary       19700 20200       63.0/138.9       107.0       5.0       267.8	TR1.8M	TR1.8	50000	GD	SATCOM	131	0.0		0	).0 dBi	i at				
L20. Antenna Id       E33/34. Diameter Minor/Major(meters)       L25. Above Ground Level(meters)       E30. Above Sea Level(meters)       Height Above Ground Level(meters)       Input Power Antenna Level(meters)       Antenna Height Above Rooftop(meters)       E40. To Carriers(d)         TR1.8       0.0/0.0       <	TR1.8M	TR1.8	50000	GD	SATCOM		0.0		0	).0 dBi	i at				
Example         0.0	E28.E33/34. DiameterE35. AboveE36. AboveHeight AboveInput PowerAntenna HeightE40.AntennaMinor/Major(meters)GroundSeaGroundGroundat antennaAboveEIRP									E40. Total EIRP for al carriers(dBW)					
FREQUENCY       E43/44.       Frequency Bands(MHz)       E45. Mode       E46. Antenna Polarization(H,V,L,R)       E47. Emission Designator       E48. Maximum EIRP per Carrier(dBW)       E49. Maximum ERIP Density per Carrier(dBW)         E50. Modulation and Services       Frequency Carrier(dBW/4kHz)       E50. Modulation and Services       E54.55. Range of Satellite Arc Estern/Western Limit       E56. Earth Station Angle Eastern/Western Limit       E57. Station Angle Eastern/Limit       E58. Earth Station Angle Western Limit       E59. Antenna Elevation Angle Western Limit       E60. Maximum EIRP Density toward the Horizon(dBW/4kHz)         TR1.8       Geostationary 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       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       E62. Number       E66. Phone Number       E66. Phone Number         OTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.       E67/68. State/Country Lifet/68. State/Country Lifet/28. State/Country       E64. Zip / Lifet/28. State/Country	TR1.8	0.0/0.0		0.0		0.0		0.0		(	0.0	0.0 0.0			0.0
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       E50. Modulation and Services       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. Limit       E58. Earth Antenna Elevation Angle Western Limit       E59. Antenna Elevation Angle Western Limit       E60. Maximum EIRP Density for Satellite Arc Geostationary 19700 20200       E3.0/138.9       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       19700 20200       63.0/138.9       107.0       5.0       267.8       69.2       2.0.0         Geostationary       19700 20200       63.0/138.9       107.0       5.0       267.8       69.2       2.0.0         Geostationary       19700 20200       63.0/138.9       107.0       5.0       267.8       69.2       2.0.0         Geostationary       29250 30000       63.0/138.9       107.0       5.0       267.8       69.2       -20.0	TR1.8														
Antenna IdFrequency Bands(MHz)T/R ModePeter Carrier(decorrigation)Left Station DesignatorE48. Maximum ELRP per Carrier(dBW)Density per Carrier(dBW/4kHz)E50. Modulation and ServicesFREQUENCY COORDINATIONE28. Antenna IdE51. Satellite Orbit TypeE52/53. Frequency Limits(MHz)E54/55. Range of Satellite Arc Eastern/Western LimitE56. Earth Azimuth Angle Eastern/Western LimitE57. Station Azimuth Angle Eastern LimitE58. Earth Antenna Angle Bastern LimitE59. Antenna Angle Bastern LimitE60. Maximum EIRP Density toward the Horizon(dBW/4l Horizon(dBW/4l Horizon(dBW/4l Eastern)TR1.8Geostationary Geostationary 19700 2020063.0/138.9107.05.0267.869.20.0Geostationary Geostationary 29250 3000063.0/138.9107.05.0267.869.2-20.0Geostationary Geostationary 29250 3000063.0/138.9107.05.0267.869.2-20.0E61. Call SignE62. Street AddressE63. CityE64. CountryE64. Zip / /E64. Zip / /Fe3. CityE63. CityE64. CountryE64. Zip / /E64. Zip / /	FREQUENCY														
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 Angle Western Limit       E59. Antenna Elevation Angle Western Limit       E60. Maximut BIRP Density toward the Horizon(dBW/44 Drizon(dBW/44 Limit         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       E66. Phone Number       E66. Phone Number         NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.       E66. Phone Number       E67/68. State/Country       E64. Zip 4/2         E63. City       E68. County       E67/68. State/Country       E64. Zip 4/2	Antenna	Antenna Frequency T/R E46. Antenna Emission E48. Maximum EIRP Density per									ty per				
E28. Antenna Id       E51. Satellite Orbit Type       E52/53. Frequency Limits(MHz)       E54/55. Range of Satellite Arc Eastern/Western Limit       E56. Earth Station Angle Eastern/Limit       E57. Antenna Elevation Angle Eastern       E58. Earth Station Angle Western Limit       E59. Antenna Elevation Angle Western Limit       E60. Maximus EIRP Density toward the Horizon(dBW/44         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         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       E66. Phone Number       E66. Phone Number         NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.       E67/68. State/Country       E64. Zip 4         E63. City       E63. County       E68. County       E67/6															
E28. Antenna Id       E51. Satellite Orbit Type       E52/53. Frequency Limits(MHz)       E54/55. Range of Satellite Arc Eastern/Limit       Station Azimuth Angle Eastern Limit       Antenna Blevation Angle Eastern Limit       Station Angle Western Limit       Antenna Blevation Angle Western Limit       E60. Maximut Angle Western Limit         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         Geostationary       29250 30000       63.0/138.9       107.0       5.0       267.8       69.2       -20.0         REMOTE CONTROL POINT LOCATION       E61. Call Sign       Fe60. Phone Number       E66. Phone Number       E66. Phone Number         E61. Call Sign         E64. City       E64. Zip         E67/68. State/Country       E64. Zip         SATELLITE EARTH STATION AUTHORIZATIONS	FREQUEN	CY COORDIN	ATION		1	I			i					I	
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           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         E66. Phone Number           NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.         E66. Phone Number           E62. Street Address         E68. County         E67/68. State/Country         E64. Zip 0           SATELLITE EARTH STATION AUTHORIZATIONS         E64. Zip 0         E64. Zip 0	Antenna		e Freque	ency	of Satell Eastern/V	Range ite Arc Western	Star Azin An Eas	tion nuth gle tern	An Elev A Ea	tenna vation ngle stern	Station Azimuth Angle Western		ntenna evation Angle ′estern	EI t	RP Density oward the
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.       E66. Phone Number         E62. Street Address       E67/68. State/Country         E63. City       E68. County         SATELLITE EARTH STATION AUTHORIZATIONS	TR1.8	Geostationar	y 19700 2	0200	63.0/138.9	9	107.0		5.0		267.8	69.2	2	0.0	
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.       E66. Phone Number         E62. Street Address       E68. County       E67/68. State/Country       E64. Zip of the control to the call state of the country of the							107.0				267.8				
REMOTE CONTROL POINT LOCATION         E61. Call Sign         NOTE: Please enter the callsign of the controlling station, not the callsign for which this application is being filed.         E62. Street Address         E63. City         E63. City         E64. Zip of the state/Country         E64. Zip of the state/Country         E64. Zip of the state/Country         E65. City         E67/68. State/Country         E64. Zip of the state/Country         E65. City         E67/68. State/Country         E64. Zip of the state/Country															
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         E62. Street Address       E68. County       E67/68. State/Country         E63. City       E67/68. State/Country       E64. Zip of         SATELLITE EARTH STATION AUTHORIZATIONS			- ()		63.0/138.9	9	107.0		5.0		267.8	69.2	2	-20.0	
E62. Street Address E63. City E68. County E68. County E67/68. State/Country E64. Zip COUNTY E64. Zip	E61. Call Sign E66. Phone Number														
SATELLITE EARTH STATION AUTHORIZATIONS															
	E63. City	E63. City E68. County E67/68. State/Country E64. Zip Code													
FOR OFFICIAL USE ONLY		-1													

Location of	f Earth Station S	ite										
E1: Site Id	entifier:	TR1.8M		E5. Call Sign: E060445								
E2: Contac	6 6									8-7205		
E3. Street:												
								ounty:				
	E4. State E9. Zip Code											
	E10. Area of Operation: CONUS, AK, HI, PR, VI E11. Latitude: 0 ° 0 ' 0.0 "											
E12. Longi		0 ° 0 ' 0.0 "								<b>D</b> 00		
	on Coordinates							IAD-27	○ NA	D-83	۲	N/A
E14. Site E	Elevation (AMSI	_):					0.0 n	neters				
antenna(s) o qualificatio E16. If the Service (FS	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. 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?											○ N/A ● N/A
E17. Is the	facility operated	by remote con	ntrol? If YES, provi	de the locati	on and	telephone n	umber o	of the control point.		• Yes	$\bigcirc$	No
			quired? If YES,		-			-		• Yes	۲	No
	oordination w nation contou		country required	d? If YES	, attacl	h the nam	e of th	ne country(ies) and	nd plot	• Yes	۲	No
required regardin FAILUR	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.											No
			TELSTAR 10V	63 W I	[f you	selected (	THE	R, please enter t	he follow	ina		
	nmon Name:			05 W.L.	li you			TU Name:		ing.		
	it Location:											
								Country:				
		TAR 19V   7	TELSTAR 19V	63 W.L. ]	lf you			R, please enter t	he follow	ing:		
E21. Con	nmon Name:							TU Name:				
E23. Orb	it Location:					]	E24. C	Country:				
Satellite 1	Name:TELST	FAR 19V   7	TELSTAR 19V	63 W.L.	lf you	selected (	OTHE	R, please enter t	he follow	ing:		
E21. Con	nmon Name:					]	E22. I'	TU Name:				
E23. Orb	it Location:						E24. C	Country:				
Satellite 1	Name:TELS7	ΓΛ <b>Ρ</b> 10V   7	FEI STAD 10V	63 W I	fvou	salacted (	отие	R, please enter t	ha fallow	ing:		
	nmon Name:			05 W.L.	li you			TU Name:		ing.		
	it Location:											
JL	F COMMUNIC		(*				E24. C	Country:				
	Identifier:	ATION (Des	unation Foints)									
L	nmon Name:						Е	27. Country:				
ANTENNA								27. Country.				
	E28.	E29.	E30.	E31.	I	E <b>32.</b>		E41/42. Anten	na Gain	Transmi	nt and/	or
Site ID	Antenna Id	Quantity	Manufacturer	Model		nna Size		Recieve(_	dBi a		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												
	11(1.0			131			0.0 41					

25/2021						HTN	/IL (18)	).htm					
							round		at antenna		ove		
L						Leve	l(met		flange(Watts)	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		0.0	
FREQUEN	1					T 45					40.34	• •	
E28. Antenna	E43/44. Frequenc		ъ	E46. Antenna	T	E47. Emissi		<b>E48.</b> ]	Maximum EI	RP <sup>E</sup>	49. Max	imum I sity per	
Id	Bands(MH	· I		olarization(H,V,L,		esigna		per	Carrier(dBW	0	Carrier(		
E50 Mor	lulation and Se												,
J	CY COORDINA												
E28. Antenna Id	na E51. Satellite Orbit Type I imits(MHz) E52/53. Frequency I imits(MHz)		E54/55. Range of Satellite Arc Eastern/Western Limit	nge Stat Arc Azim		muth Elevati ngle Angl stern Easter		E58. Earth Station Azimuth Angle Western	E59. Antenn Elevatio Angle Wester	on E n Hori	n EIRP Density toward the		
		10			Lin			mit	Limit	Limit			
TR1.8	Geostationary			63.0/138.9	107.0		5.0			69.2	0.0		
	Geostationary			63.0/138.9	107.0		5.0			69.2	0.0		
	Geostationary			63.0/138.9	107.0		5.0			69.2	-20.0		
DEMOTE	Geostationary			63.0/138.9	107.0		5.0		267.8	69.2	-20.0		
E61. Call S		I LUCAI	IUN						E6	6. Phone N	umber		
Lon our b	.5												
		gn of the co	ntrolli	ng station, not the callsi	gn for w	hich this	s applie	cation is	s being filed.				
E62. Street	Address												
E63. City					E68. Co	unty				E67/68 /	. State/Cou	intry E64	. Zip Code
	F	FCC Fo	rm 3	512 - Schedule B FOR C				•	erational De	escriptio	on)		
Location of	Earth Station Site	;											
	t Name H			c Management Cent	ter			E7. City E8. Cou E9. Zip	one Number: y: unty:		45 28-7205		
E11. Latitu		° 0 ' 0.0 "											
E12. Longi		° 0 ' 0.0 "						- <b>N</b> T 4	ND 27	- NT 4	D 02		NI/A
	on Coordinates are Elevation (AMSL):							● NA 0.0 me	AD-27	○ NA	D-83	۲	N/A
antenna(s) o qualification	comply with the ar n measurement? If	ntenna gain NO, provi	patterr le as a	ixed Satellite Service (F ns specified in Section 2 technical analysis show	5.209(a) ving com	and (b) pliance	as den with tv	nonstrat vo-degr	ed by the manufa ee spacing policy.	cturer's	• Yes	○ No	○ N/A
Service (FS	S) with non-geost	ationary sat	ellites,	n the Fixed Satellite Ser do(es) the proposed and the manufacturer's quali	tenna(s)	comply	with th	e anten			• Yes	○ No	• N/A
E17. Is the	facility operated b	y remote co	ntrol?	If YES, provide the loca	ation and	l telepho	one nur	nber of	the control point.		• Yes	$\bigcirc$	No
E18. Is fr	equency coord	ination re	quire	d? If YES, attach a	freque	ncy co	ordin	ation r	eport as		• Yes	۲	No
I													

	oordination w nation contou		country require	d? If YE	S, attao	ch the n	name of	the	country(ies) a	nd plot	• Yes	No
required regardin FAILUR OF THIS	, have you at g the potenti E TO COM S APPLICAT	tached a c al hazard PLY WITH FION.	CFR Part 17 a opy of a complo of the structure I 47 CFR PAR	eted FC( to aviat	C Forn tion?	n 854 a	nd/or t	he l	FAA's study		• Yes	• No
-	F COMMUNIC											
		CAR 19V   7	TELSTAR 19V	63 W.L	. If you	1 selecto	10		-	he follow	ing:	
	nmon Name:								U Name:			
E23. Orb	it Location:						E24.	Co	ountry:			
Satellite	Name:TELST	CAR 19V   7	TELSTAR 19V	63 W.L	. If you	ı selecte	ed OTH	ER	, please enter t	he follow	ing:	
E21. Cor	nmon Name:						E22.	ITU	U Name:			
E23. Orb	it Location:						E24.	Co	ountry:			
Satellite	Name:TELST	CAR 19V   7	TELSTAR 19V	63 W.L	. If you	ı selecte	ed OTH	ER	, please enter t	he follow	ing:	
	nmon Name:	1							U Name:			
E23. Orb	it Location:								untry:			
			FELSTAR 19V	63 W I	If you	1 select			•	he follow	ing:	
	nmon Name:		TELSTAK 19V	05 W.L	. 11 you	i selecti	10		U Name:		ing.	
	it Location:											
		ATION (Dec	tination Points)				E24.		ountry:			
	Identifier:	ATION (Des	dination rollits)					1				
	nmon Name:							E2	7. Country:			
ANTENNA									7. Country.			
Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Mode		E32. enna Si	ize	I	E41/42. Anten Recieve(_	na Gain ' dBi a		nt and/or 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. D Minor/Majo	iameter or(meters)	E35. Above Ground Level(meters)	E36. A Sea Level(m		Heigh	Building at Abov ound (meters	<b>e</b>	E38. Total Input Power at antenna lange(Watts)	E39. Ma Antenna Ab Rooftop	n Height ove	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
FREQUEN		I										
E28. Antenna Id	E43/44 Frequer Bands(M	ncy T/	R Polarization		K M	E47. Emissio esignat	on   r		Maximum EI Carrier(dBW		Dens	imum ERIP ity per IBW/4kHz)
	dulation and S											
FREQUEN	CY COORDIN	ATION	i									
E28. Antenna Id	E51. Satelli Orbit Type		ency   01 Satell	ite Arc Western	E56. I Stat Azin An East Lin	tion nuth gle tern	E57. Anten Elevati Angl Easter Limi	na ion e rn	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevatio Angle Westerr Limit		0. Maximum IRP Density toward the con(dBW/4kHz)
TR1.2	Geostational	-			107.0		5.0			69.2	0.0	
	Geostationa	y 19700 20	0200 63.0/138.	9	107.0		5.0		267.8	69.2	0.0	
	Geostationa	-		9	107.0		5.0		267.8	69.2	-20.0	
	Geostational	-		9	107.0		5.0		267.8	69.2	-20.0	
REMOTE	CONTROL PO	INT LOCAT	ION									

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E62. Street Address							
E63. City	E68. County	E67/68 /	8. State/Country	E64. Zip Code			
	SATELLITE EARTH STATI	ON AUTHORIZATIONS					
	FCC Form 312 - Schedule B:(Technic FOR OFFICIAL	cal and Operational Description	on)				
Location of Earth Statio	on Site						
E1: Site Identifier: E2: Contact Name E3. Street:	: Site Identifier:TR1.2ME5. Call Sign:E06:: Contact NameHughes Network Management CenterE6. Phone Number:301-						
E4. State		E9. Zip Code					
E10. Area of Operatior E11. Latitude:	0 ° 0 ' 0.0 "	CONUS, AK, HI, PR, VI					
E12. Longitude:	0 ° 0 ' 0.0 "						
E13. Lat/Lon Coordina	ites are:	NAD-27	AD-83	• N/A			
E14. Site Elevation (Al	MSL):	0.0 meters					
antenna(s) comply with	tenna(s) operate in the Fixed Satellite Service (FSS) with geos the antenna gain patterns specified in Section 25.209(a) and ( ent? If NO, provide as a technical analysis showing compliance	(b) as demonstrated by the manufacturer's	• Yes O	No N/A			
Service (FSS) with non	tenna(s) do not operate in the Fixed Satellite Service (FSS), or -geostationary satellites, do(es) the proposed antenna(s) comp (b) as demonstrated by the manufacturer's qualification measu	ly with the antenna gain patterns specified in	Yes O	No 💿 N/A			
E17. Is the facility oper	ated by remote control? If YES, provide the location and telep	phone number of the control point.	Yes	No			
E18. Is frequency c	coordination required? If YES, attach a frequency	coordination report as	• Yes	No			
E19. Is coordinatio of coordination cor	n with another country required? If YES, attach th atours as	e name of the country(ies) and plot	• Yes	No			
required, have you regarding the pote FAILURE TO CC OF THIS APPLIC		4 and/or the FAA's study	• Yes	• No			
POINTS OF COMMU							
	LSTAR 19V   TELSTAR 19V   63 W.L. If you seld		ving:				
E21. Common Nar		E22. ITU Name:					
E23. Orbit Location		E24. Country:					
	LSTAR 19V   TELSTAR 19V   63 W.L. If you sele		ving:				
E21. Common Nar		E22. ITU Name:					
E23. Orbit Location		E24. Country:					
	LSTAR 19V   TELSTAR 19V   63 W.L. If you sele		ving:				
E21. Common Nar		E22. ITU Name:					
E23. Orbit Location	n:	E24. Country:					
Satellite Name:TE	LSTAR 19V   TELSTAR 19V   63 W.L. If you sele		ving:				
E21. Common Nar	ne:	E22. ITU Name:					
E23. Orbit Location	n:	E24. Country:					

#### POINTS OF COMMUNICATION (Destination Points)

E25. Site Identifier:

L25. 510	Identifier.												
E26. Con	nmon Name:						H	E27. Country:					
NTENNA													
Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacture	E31. r Model		E32. enna Siz	ze	E41/42. Anter Recieve(	1na Gain Tr dBi at _		nt and/or Hz)		
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 dI	0 dBi at					
E28. Antenna Id	tenna E33/34. Diameter Minor/Major(meters) Ground				5. Above Sea el(meters) E37. Bui Height A Groun Level(meters)			E38. Total Input Power at antenna flange(Watts)	Above		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		
	0.0/0.0		0.0	0.0		0.0		0.0	0.0		0.0		
FREQUEN	СҮ												
E28. Antenna Id	Bands(M	icy T/ Hz) Mo	R Bolorizatio			E47. Emissio esignat	n   no	. Maximum EI er Carrier(dBW		Densi	mum ERIP ty per BW/4kHz)		
	lulation and S												
E28. Antenna Id	E51. Satellit Orbit Type	e E52/5	ncy of Satell	Range ite Arc Western	E56. I Stat Azim Ang East Lin	ion 1uth gle tern	E57. Antenna Elevatio Angle Easterr Limit	n Azimuth Angle	E59. Antenna Elevation Angle Western Limit	EI t	). Maximum RP Density oward the on(dBW/4kHz		
TR1.2	Geostationar	y 19700 20	0200 63.0/138.	9	107.0	5	.0	267.8	69.2	0.0			
	Geostationar	y 19700 20	0200 63.0/138.	9	107.0	5	.0	267.8	69.2	0.0			
	Geostationar	y 29250 30	0000 63.0/138.	9	107.0	5	.0	267.8	69.2	-20.0			
	Geostationar	-		9	107.0	5	.0	267.8	69.2	-20.0			
E61. Call S	ase enter the call		ION ntrolling station, no	ot the callsig	gn for w	hich this a	applicatior		56. Phone Num	ber			
E63. City			HE PAPERWO		E68. Co				E67/68. St /	ate/Coun	try E64. Zip Code		

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