Date & Time Filed: Apr 1 2015 9:51:38:980AM File Number: SES-MFS-20150401-00186

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

## APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:

Modification to Add Remote Terminals for J-2

	gal Name of App	plicant		
		•		
	Name:	HNS License Sub, LLC	<b>Phone Number:</b>	301–428–5506
	DBA Name:		Fax Number:	301–428–2802
ı	Street:	11717 Exploration Lane	E–Mail:	Steven.Doiron@hughes.com
	City:	Germantown	State:	MD
	Country:	USA	Zipcode:	20876 –
	<b>Attention:</b>	Mr Steven Doiron		

## 9–16. Name of Contact Representative

Name: Steven Doiron Phone Number: 301–428–5506

Company: Hughes Network Systems, LLC Fax Number: 301–428–2802

Street: 11717 Exploration Lane E–Mail: Steven.Doiron@hughes.com

City: Germantown State:

Country: USA Zipcode: 20876–

Attention: Relationship:

#### **CLASSIFICATION OF FILING**

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

a1. Earth Station

a2. Space Station

(N/A) b1. Application for License of New Station

(N/A) b2. Application for Registration of New Domestic Receive-Only Station

**o** b3. Amendment to a Pending Application

**b**4. Modification of License or Registration

b5. Assignment of License or Registration

b6. Transfer of Control of License or Registration

**b**7. Notification of Minor Modification

(N/A) b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite

(N/A) b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States

(N/A) b10. Other (Please specify)

(N/A) b11. Application for Earth Station to Access a Non–U.S.satellite Not Currently Authorized to Provide the Proposed Service in the Proposed Frequencies in the United States

(N/A) b12. Application for Database Entry

b13. Amendment to a Pending Database Entry Application

b14. Modification of Database Entry

17c. Is a fee submitted with this applicat				
If Yes, complete and attach FCC Form	159. If No, indicate reason for fee exemption	(see 47 C.F.R.Section 1.1114).		
Governmental Entity Noncommo	ercial educational licensee			
Other(please explain):				
17d.				
Fee Classification CGV – Fixed Satellite VSAT System				
18. If this filing is in reference to an existing station, enter:	19. If this filing is an amendment to a pending modification please enter only the file number	g application enter both fields, if this filing is a		
(a) Call sign of station:	(a) Date pending application was filed:	(b) File number:		
E060445		GEGMEGA012022200200		
		SESMFS2012032200290		

# TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provid	e or use the following type(s) of service(s): Select all that apply:
a. Fixed Satellite	
b. Mobile Satellite	
c. Radiodetermination Satellite	
d. Earth Exploration Satellite	
e. Direct to Home Fixed Satellite	
f. Digital Audio Radio Service	
g. Other (please specify)	
21. STATUS: Choose the button next to the applicable status. Choose	22. If earth station applicant, check all that apply.
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 stacilities:	service, see instructions regarding Sec. 214 filings. Choose one. Are these
Connected to a Public Switched Network Not connected to a	Public Switched Network N/A
24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all a	applicable frequency band(s).
a. C–Band (4/6 GHz) b. Ku–Band (12/14 GHz)	
c.Other (Please specify upper and lower frequencies in MHz.)	
Frequency Lower: 18300.00 Frequency Upper: 30000.0	0 (Please specify additional frequencies in an attachment)

## TYPE OF STATION

25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one.
a. Fixed Earth Station
<b>b.</b> Temporary–Fixed Earth Station
c. 12/14 GHz VSAT Network
d. Mobile Earth Station
e. Geostationary Space Station
f. Non-Geostationary Space Station
g. Other (please specify) 20/30 GHz VSAT Network
26. TYPE OF EARTH STATION FACILITY:
Transmit/Receive Transmit-Only Receive-Only N/A
"For Space Station applications, select N/A."

# PURPOSE OF MODIFICATION

27. The purpose of this proposed modification is to: (Place an 'X' in the box(es) next to all that apply.)
a — authorization to add new emission designator and related service
b — authorization to change emission designator and related service
c — authorization to increase EIRP and EIRP density
d — authorization to replace antenna
e — authorization to add antenna
f — authorization to relocate fixed station
g — authorization to change frequency(ies)
h — authorization to add frequency
i — authorization to add Points of Communication (satellites & mp; countries)
j — authorization to change Points of Communication (satellites & Double of Communication (satellites & Doub
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)

## **ENVIRONMENTAL POLICY**

impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections 1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments.	_		~			
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aeron aeronautical fixed radio station services are not required to respond to Items 30–34.	autic	al en	ı rou	ite or		
29. Is the applicant a foreign government or the representative of any foreign government?	0	Yes	•	No		
30. Is the applicant an alien or the representative of an alien?	0	Yes	0	No	•	N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	0	Yes	0	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?	0	Yes	0	No	•	N/A

 $lackbox{ Yes } lackbox{ No}$ 

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental

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?	O Yes O	No 🍙 N/A
34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit an identification of the aliens or foreign entities, their nationality, their relationship to the applicant, and the percentage of stock they own or vote.		
BASIC QUALIFICATIONS		
35. Does the Applicant request any waivers or exemptions from any of the Commission's Rules? If Yes, attach as an exhibit, copies of the requests for waivers or exceptions with supporting documents.	○ Yes	No
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	O No

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.	• Yes	<b>⊚</b> 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	No
39. Is the applicant, or any person directly or indirectly controlling the applicant, currently a party in any pending matter referred to in the preceding two items? If yes, attach as an exhinit, an explanation of the circumstances.	• Yes	<b>⊘</b> No
40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, address, and citizenship of those stockholders owning a record and/or voting 10 percent or more of the Filer's voting stock and the percentages so held. In the case of fiduciary control, indicate the beneficiary(ies) or class of beneficiaries. Also list the names and addresses of the officers and directors of the Filer.		

41. By checking Yes, the undersigned certifies, that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti–Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.	Yes	O No
42a. Does the applicant intend to use a non–U.S. licensed satellite to provide service in the United States? If Yes, answer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, proceed to question 43.	<b>⊚</b> Yes	O No
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, wh coordinated or is in the process of coordinating the space station? Papua New Guinea	hat administr	ration has
43. Description. (Summarize the nature of the application and the services to be provided). (If the complete descriptio box, please go to the end of the form to view it in its entirety.)	on does not a	ppear in this
Modification application to add 5 Million remote terminals and add the EchoSt (Jupiter 2) satellite as a point of communication.	tar XIX	
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, whe coordinated or is in the process of coordinating the space station? Papua New Guinea  43. Description. (Summarize the nature of the application and the services to be provided). (If the complete description box, please go to the end of the form to view it in its entirety.)  Modification application to add 5 Million remote terminals and add the EchoSt	on does not a	

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

#### **CERTIFICATION**

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

44. Applicant is a (an): (Choose the button next to ap	opiicable response.)	
O Individual		
Unincorporated Association		
• Partnership		
O Corporation		
Governmental Entity		
Other (please specify)		
45. Name of Person Signing	46. Title of Person Signing	
Steven Doiron	Senior Director, Regulatory Affairs	
>		
(U.S. Code, Title 18, Section	DE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONME 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION 12(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).	ENT

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

Location of Earth S	tation Site			
E1: Site Identifier:	TR3.5M	E5. Call Sign:	E060445	
E2: Contact Name	Network Management Ctr	E6. Phone Number:	3014287205	
E3. Street:		E7. City:		
		E8. County:		
E4. State		E9. Zip Code		
E10. Area of Opera	tion:	CONUS, AK, HI, I	PR, VI	
E11. Latitude:	0 °0 '0.0 "N			
E12. Longitude:	0 °0 '0.0 "W			
E13. Lat/Lon Coord	dinates are:	O NAD-27	<b>●</b> NAD-83	O N/A
E14. Site Elevation	(AMSL):	0.0 meters		

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

E16. If the proposed antenna(s) do not operate in the Fixed Satellite S Satellite Service (FSS) with non–geostationary satellites, do(es) the pregain patterns specified in Section 25.209(a2) and (b) as demonstrated by measurements?	oposed antenna(s) comply with the antenna	O Yes	O No	<b>⊗</b> N/A
E17. Is the facility operated by remote control? If YES, provide the loc point.	cation and telephone number of the control	Yes	0	No
E18. Is frequency coordination required? If YES, attach a frequency co	pordination report as	O Yes	•	No
E19. Is coordination with another country required? If YES, attach the coordination contours as	name of the country(ies) and plot of	O Yes	•	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25. have you attached a copy of a completed FCC Form 854 and/or the FA the structure to aviation?  FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL APPLICATION.	A's study regarding the potential hazard of	O Yes	•	No
POINTS OF COMMUNICATION		-		
Satellite Name: OTHER   OTHER   If you selected OTHER, please	enter the following:			
E21. Common Name: Jupiter 97W	E22. ITU Name: RAGGIANA-5			
E23. Orbit Location: 97.1 WL	E24. Country: Papua New Guinea			
POINTS OF COMMUNICATION (Destination Points)	-			
E25. Site Identifier:				

E26. Common Na	ame:				E27. Cou	ntry:				
ANTENNA					<b>!</b>					
Site ID	E28. Antenna Id	E29. Quan		0. nufacturer	E31. Mod	del	E32. Anter Size <mete< th=""><th></th><th>E41/42. Antenna Gain Transmint and/or Reciev (dBi atGHz)</th><th></th></mete<>		E41/42. Antenna Gain Transmint and/or Reciev (dBi atGHz)	
TR3.5M	TR3.5	0	0		0		0.0		0.0 dBi at	
E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Le (meters)	l l	6. Above Sea vel(meters)	E37. Bui Height A Ground (meters)	bove	E38. Total Input Pow antenna fl (Watts)	er at	E39. Maximum Antenna Heig Above Roofto (meters)	ht EIRP for al
TR3.5	0.0/0.0	0.0	0.0		0.0		0.0		0.0	0.0
FREQUENCY	•		Į.		!				!	
E28. Antenna Id	E43/44. Frequency Ba (MHz)	E45. T/R<	or>Mode	E46. Ant Polarizat L,R)		E47. E Design	Emission nator		. Maximum P per Carrier W)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
TR3.5	0 0	R		Left and l Circular	Right	0		0.0		0.0
E50. Modulati entirety.)	on and Services	(If the comp	blete descr	iption does no	t appear ir	this bo	x, please go	to the	end of the form	to view it in its

E28.	E51. Satellite	E52/53.	E54/55.	E56. Earth	E57.	E58. Earth	E59.	E60.
Antenna Id	Orbit Type	Frequency	Range of	Station	Antenna	Station	Antenna	Maximum
		Limits(MHz)	Satellite Arc	Azimuth	Elevation	Azimuth	Elevation	EIRP Density
			Eastern/West	Angle	Angle	Angle	Angle	toward the
			ern Limit	Eastern Limit	Eastern Limit		Western	Horizon
						Limit	Limit	(dBW/4kHz)
			/					
L	ATTROL BOILE	<u> </u>						<u> </u>

#### REMOTE CONTROL POINT LOCATION

E61. Call Sign		E66. Phone Number		
NOTE: Please enter the callsign of t callsign for which this application is be				
E62. Street Address				
E63. City	E68. County		7/68. Country	E64. Zip Code

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

Location of Earth Station Site			
E1: Site Identifier:	E5. Call Sign:		
E2: Contact Name	E6. Phone Number:		
E3. Street:	E7. City:		
	E8. County:		
E4. State	E9. Zip Code		
E10. Area of Operation:			
E11. Latitude:			
E12. Longitude: °' '"			
E13. Lat/Lon Coordinates are:	O NAD-27	O NAD-83	O N/A
E14. Site Elevation (AMSL):	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.	O Yes	O No	O N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	O Yes	O No	O N/A

E17. Is the facility operated by remote control? If YES, provide the point.	location and telephone number of the control	O Yes	O No
E18. Is frequency coordination required? If YES, attach a frequency	y coordination report as	O Yes	O No
E19. Is coordination with another country required? If YES, attach to coordination contours as	the name of the country(ies) and plot of	O Yes	O No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 22 have you attached a copy of a completed FCC Form 854 and/or the the structure to aviation?  FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WI APPLICATION.	FAA's study regarding the potential hazard of	O Yes	O No
POINTS OF COMMUNICATION		1	
Satellite Name: If you selected OTHER, please enter the following	ng:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
POINTS OF COMMUNICATION (Destination Points)			
E25. Site Identifier:			
E26. Common Name:	E27. Country:		
A NUTRENINI A	<del></del>		

ANTENNA

Site ID	E28. Antenna Id	E29	. Quantity	E30. Manuf	facturer	E31. Mod	del	E32. Anten Size <meter< th=""><th></th><th>E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz) dBi at</th><th></th></meter<>		E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz) dBi at	
										dDi at	
E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	Gro	. Above und Level ters)		bove Sea meters)	E37. Buil Height A Ground I (meters)	bove	E38. Total Input Powe antenna fla (Watts)		E39. Maximum Antenna Heig Above Roofton (meters)	ht EIRP for al
	/										
FREQUENCY					-				_		
E28. Antenna Id	E43/44. Frequency Ba (MHz)	ands	E45. T/R Mo	ode	E46. Ant Polarizat L,R)		E47. E Design	Emission nator		. Maximum P per Carrier W)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
E50. Modulati	on and Services	(If th	ne complete d	escripti	on does no	t appear in	this bo	x, please go t	o the	end of the form	to view it in its

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern Limit	0	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
			/					
REMOTE CC	NTROL POIN	T LOCATION						
	ase enter the calls ich this application	•	•		. Phone Number			
E63. City			E68. County	7		E67/68. State/Country	E	64. Zip Code
			m 312 – Schedu	TH STATION A le B:(Technical a OFFICIAL USE	and Operational			

Location of Earth Station Site			
E1: Site Identifier:	E5. Call Sign:		
E2: Contact Name	E6. Phone Number:		
E3. Street:	E7. City:		
	E8. County:		
E4. State	E9. Zip Code		
E10. Area of Operation:			
E11. Latitude:			
E12. Longitude: °', "			
E13. Lat/Lon Coordinates are:	O NAD-27	O NAD-83	O N/A
E14. Site Elevation (AMSL):	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.	O Yes	O No	O N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	O Yes	O No	O N/A

E17. Is the facility operated by remote control? If YES, provide the l point.	O Yes	O No				
		T				
E18. Is frequency coordination required? If YES, attach a frequency	coordination report as	O Yes	O No			
E19. Is coordination with another country required? If YES, attach the coordination contours as	O Yes	O No				
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 2. have you attached a copy of a completed FCC Form 854 and/or the Ithe structure to aviation?  FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WII APPLICATION.	O Yes	O No				
POINTS OF COMMUNICATION		!				
Satellite Name: If you selected OTHER, please enter the following	g:					
E21. Common Name:	E22. ITU Name:					
E23. Orbit Location: E24. Country:						
POINTS OF COMMUNICATION (Destination Points)						
E25. Site Identifier:						
E26. Common Name:	E27. Country:					
A NITTENINI A						

ANTENNA

Site ID	E28. Antenna Id	E29	. Quantity	E30. Manuf	facturer	E31. Mod	del	E32. Anten Size <meter< th=""><th></th><th>E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)</th><th></th></meter<>		E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)	
										dBi at	
E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	Gro	. Above und Level ters)		bove Sea meters)	E37. Buil Height A Ground I (meters)	bove	E38. Total Input Powe antenna fla (Watts)		E39. Maximur Antenna Heigl Above Roofton (meters)	nt EIRP for al
FREQUENCY	/										
E28. Antenna Id	E43/44. Frequency Ba (MHz)	ands	E45. T/R Mo	ode	E46. Ant Polarizat L,R)		E47. E Design	Emission nator		. Maximum P per Carrier W)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
E50. Modulati entirety.)	ion and Services	(If the	ne complete d	escripti	on does no	t appear in	this bo	x, please go t	o the	end of the form	to view it in its

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern Limit	ange of Station A Azimuth A Angle A		E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
			/					
REMOTE CC	NTROL POIN	T LOCATION						
	ase enter the calls ich this application	•	•		. Phone Number			
E63. City			E68. County	7		E67/68. State/Country	E64. Zip Code	
			m 312 – Schedu	TH STATION A le B:(Technical a OFFICIAL USE	and Operational			

Location of Earth Station Site			
E1: Site Identifier:	E5. Call Sign:		
E2: Contact Name	E6. Phone Number:		
E3. Street:	E7. City:		
	E8. County:		
E4. State	E9. Zip Code		
E10. Area of Operation:			
E11. Latitude:			
E12. Longitude: °' '"			
E13. Lat/Lon Coordinates are:	O NAD-27	O NAD-83	O N/A
E14. Site Elevation (AMSL):	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.	<b>O</b> Yes	O No	O N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	O Yes	O No	O N/A

E18. Is frequency coordination required? If YES, attach a frequency coordination report as	O Yes	
l ,		No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	O Yes	O No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation?  FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	O Yes	O No
POINTS OF COMMUNICATION		
Satellite Name: OTHER   OTHER   If you selected OTHER, please enter the following:		
E21. Common Name: E22. ITU Name:		
E23. Orbit Location: E24. Country:		
POINTS OF COMMUNICATION (Destination Points)		
E25. Site Identifier:		
E26. Common Name: E27. Country:		

ANTENNA

Site ID	E28. Antenna Id	E29	. Quantity	E30. Manuf	facturer	E31. Mod	del	E32. Anten Size <meter< th=""><th></th><th>E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)</th><th>,</th></meter<>		E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)	,
										dBi at	
E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	Gro	. Above und Level ters)	I	bove Sea meters)	E37. Buil Height A Ground I (meters)	bove	E38. Total Input Powe antenna fla (Watts)		E39. Maximum Antenna Heigh Above Roofton (meters)	nt EIRP for al
	/										
FREQUENCY											
E28. Antenna Id	E43/44. Frequency Ba (MHz)	ands	E45. T/R Mo	ode	E46. Ante Polarizat L,R)		E47. E Design	Emission nator		P per Carrier	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
E50. Modulat entirety.)	ion and Services	(If tl	ne complete d	escripti	on does no	t appear in	this bo	x, please go t	o the	end of the form	o view it in its

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern Limit	E56. Ea Station Azimut Angle Eastern	h	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
DEMOTE CO	NITPOL POIN	TIOCATION	/						
E61. Call S	ase enter the calls	sign of the contro	olling station, no	t the	E66	. Phone Number			
E62. Street	Address	on is being filed	•						

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

E67/68.

State/Country

E64. Zip Code

E68. County

E63. City

Location of Earth St	ation Site							
E1: Site Identifier:	TR98CM	E5. Call Sign:	E060445					
E2: Contact Name	Network Management Ctr	E6. Phone Number:	301–428–7205					
E3. Street:		E7. City:						
		E8. County:						
E4. State		E9. Zip Code						
E10. Area of Operat	ion:	CONUS, AK, HI, PR, VI						
E11. Latitude:	0 °0 '0.0 "							
E12. Longitude:	0 °0 '0.0 "							
E13. Lat/Lon Coord	linates are:	NAD-27	<b>○</b> NAD-83	N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/				
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.	<b>●</b> Yes	O No	O N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	O Yes	O No	<b>⊗</b> N/A

E17. Is the facility operated by remote control? If YES, provide the locat point.	ion and telephone number of the control	Yes	O No
E18. Is frequency coordination required? If YES, attach a frequency coordination	rdination report as	O Yes	No
E19. Is coordination with another country required? If YES, attach the na coordination contours as	ame of the country(ies) and plot of	O Yes	<b>⊘</b> No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.11 have you attached a copy of a completed FCC Form 854 and/or the FAA' the structure to aviation?  FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RAPPLICATION.	O Yes	No	
POINTS OF COMMUNICATION		•	
Satellite Name: OTHER   OTHER   If you selected OTHER, please en	iter the following:		
E21. Common Name: Jupiter 97W	E22. ITU Name: RAGGIANA-5		
E23. Orbit Location: 97.1 WL	E24. Country: Papua New Guinea		
POINTS OF COMMUNICATION (Destination Points)			
E25. Site Identifier:			
E26. Common Name: ANTENNA			

Site ID	E28. Antenna Id	E29	. Quantity	E30. Manuf	facturer	E31. Mod	del	E32. Anten Size <meter< th=""><th></th><th>E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz) dBi at</th><th></th></meter<>		E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz) dBi at	
										dDi at	
E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	Gro	. Above und Level ters)		bove Sea meters)	E37. Buil Height A Ground I (meters)	bove	E38. Total Input Powe antenna fla (Watts)		E39. Maximum Antenna Heig Above Roofton (meters)	ht EIRP for al
	/										
FREQUENCY					-				_		
E28. Antenna Id	E43/44. Frequency Ba (MHz)	ands	E45. T/R Mo	ode	E46. Ant Polarizat L,R)		E47. E Design	Emission nator		. Maximum P per Carrier W)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
E50. Modulati	on and Services	(If th	ne complete d	escripti	on does no	t appear in	this bo	x, please go t	o the	end of the form	to view it in its

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
			/					
REMOTE CO	L NTROL POIN	L T LOCATION						
	se enter the calls	•	•		. Phone Number			
E63. City			E68. County	/		E67/68. State/Country	E64	4. Zip Code
			m 312 – Schedu	TH STATION Alle B:(Technical a	and Operational			

Location of Earth St	cation Site				
E1: Site Identifier:	TFTR98CM	E5. Call Sign:	E060445		
E2: Contact Name	Network Management Ctr	E6. Phone Number:	301-428-7205		
E3. Street:		E7. City:			
		E8. County:			
E4. State		E9. Zip Code			
E10. Area of Operat	tion:	CONUS, AK, HI, P	PR, VI		
E11. Latitude:	0 °0 '0.0 "				
E12. Longitude:	0 °0 '0.0 "				
E13. Lat/Lon Coord	linates are:	O NAD-27	O NAD-83	● N/A	
E14. Site Elevation (AMSL):		0.0 meters			

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two–degree spacing policy.	<b>●</b> Yes	O No	O N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	O Yes	O No	● N/A

E17. Is the facility operated by remote control? If YES, provide the locat point.	Yes	O No	
E18. Is frequency coordination required? If YES, attach a frequency coordination	rdination report as	O Yes	No
E19. Is coordination with another country required? If YES, attach the na coordination contours as	ame of the country(ies) and plot of	O Yes	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.11 have you attached a copy of a completed FCC Form 854 and/or the FAA the structure to aviation?  FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RAPPLICATION.	's study regarding the potential hazard of	O Yes	No
POINTS OF COMMUNICATION			
Satellite Name: OTHER   OTHER   If you selected OTHER, please en	nter the following:		
E21. Common Name: Jupiter 97W	E22. ITU Name: RAGGIANA-5		
E23. Orbit Location: 97.1 WL			
POINTS OF COMMUNICATION (Destination Points)	,		
E25. Site Identifier:			
E26. Common Name: ANTENNA	E27. Country:		

Site ID	E28. Antenna Id	E29	. Quantity	E30. Manuf	facturer	E31. Mod	del	E32. Anten Size <meter< th=""><th></th><th>E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)</th><th>;</th></meter<>		E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)	;
										dBi at	
E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	Gro	. Above und Level ters)		bove Sea meters)	E37. Buil Height A Ground I (meters)	bove	E38. Total Input Powe antenna fla (Watts)		E39. Maximum Antenna Heigh Above Roofton (meters)	nt EIRP for al
	/										
FREQUENCY			_								
E28. Antenna Io	E43/44. Frequency Ba (MHz)	ands	E45. T/R M	ode	E46. Ant Polarizat L,R)		E47. E Design	mission nator		P per Carrier	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
	ion and Services	(If tl	ne complete d	lescripti	on does no	t appear in	this bo	x, please go t	o the	end of the form	to view it in its
entirety.)											

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern Limit	E56. Earth Station Azimuth Angle Eastern Limit	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
REMOTE CO	ONTROL POIN	T LOCATION		F66	Phone Number			
NOTE: Ple	ase enter the calls	•	•		Thone Ivamoer			
E62. Street	Address							
E63. City E68. County					E67/68. E64. Z			E64. Zip Code

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

State/Country

Location of Earth St	ation Site				
E1: Site Identifier:	TR1.2M	E5. Call Sign:	E060445		
E2: Contact Name	Network Management Ctr	E6. Phone Number:	301–428–7205		
E3. Street:		E7. City:			
		E8. County:			
E4. State		E9. Zip Code			
E10. Area of Operat	ion:	CONUS, AK, HI, P	R, VI		
E11. Latitude:	0 °0 '0.0 "				
E12. Longitude:	0 °0 '0.0 "				
E13. Lat/Lon Coord	linates are:	NAD-27	<b>○</b> NAD-83	N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/	
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.	<b>●</b> Yes	O No	O N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	O Yes	O No	● N/A

E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	Yes	O No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	O Yes	O No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	O Yes	O No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is require 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.	· · · · · · · · · · · · · · · · · · ·	O No
POINTS OF COMMUNICATION	l	
Satellite Name: If you selected OTHER, please enter the following:		
E21. Common Name: E22. ITU Name:		
E23. Orbit Location: E24. Country:		
POINTS OF COMMUNICATION (Destination Points)		
E25. Site Identifier:		
E26. Common Name: E27. Country:		

ANTENNA

Site ID	E28. Antenna Id	E29	. Quantity	E30. Manuf	facturer	E31. Mod	del	E32. Anten Size <meter< th=""><th></th><th>E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)</th><th>,</th></meter<>		E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)	,
										dBi at	
E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	Gro	Above ound Level ters)	I	bove Sea meters)	E37. Buil Height A Ground I (meters)	bove	E38. Total Input Powe antenna fla (Watts)		E39. Maximum Antenna Heigh Above Roofton (meters)	nt EIRP for al
	/										
FREQUENCY											
E28. Antenna Io	E43/44. Frequency Ba (MHz)	ands	E45. T/R Mo	ode	E46. Ant Polarizat L,R)		E47. E Design	Emission nator		P per Carrier	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
E50. Modulat entirety.)	ion and Services	(If the	he complete d	escripti	on does no	t appear in	this bo	x, please go t	o the	end of the form	o view it in its

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern Limit	E56. Ea Station Azimut Angle Eastern	Antenna		E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
			/						
REMOTE CO	ONTROL POIN	T LOCATION							
E61. Call S	ign				E66	Phone Number			
	ase enter the calls	•	•	t the					
E62. Street	Address								

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

E67/68.

State/Country

E64. Zip Code

E68. County

E63. City

Location of Earth Station Site			
E1: Site Identifier:	E5. Call Sign:		
E2: Contact Name	E6. Phone Number:		
E3. Street:	E7. City:		
	E8. County:		
E4. State	E9. Zip Code		
E10. Area of Operation:			
E11. Latitude: °' "			
E12. Longitude: °' '"			
E13. Lat/Lon Coordinates are:	O NAD-27	O NAD-83	O N/A
E14. Site Elevation (AMSL):	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.	O Yes	O No	O N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	O Yes	O No	O N/A

point.	O Yes	O No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	O Yes	O No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	O Yes	O No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, have you attached a copy of a completed FCC Form 854 and/or the FAA's study regarding the potential hazard of the structure to aviation?  FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WILL RESULT IN THE RETURN OF THIS APPLICATION.	O Yes	O No
POINTS OF COMMUNICATION	· ·	
Satellite Name: If you selected OTHER, please enter the following:		
E21. Common Name: E22. ITU Name:		
E23. Orbit Location: E24. Country:		
POINTS OF COMMUNICATION (Destination Points)		
E25. Site Identifier:		
E26. Common Name: E27. Country:		

ANTENNA

Site ID	E28. Antenna Id	E29	. Quantity	E30. Manuf	facturer	E31. Mod	del	E32. Anten Size <meter< th=""><th></th><th>E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)</th><th></th></meter<>		E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)	
										dBi at	
E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	Gro	. Above und Level ters)		bove Sea meters)	E37. Buil Height A Ground I (meters)	bove	E38. Total Input Powe antenna fla (Watts)		E39. Maximur Antenna Heigl Above Roofton (meters)	nt EIRP for al
FREQUENCY	/										
E28. Antenna Id	E43/44. Frequency Ba (MHz)	ands	E45. T/R Mo	ode	E46. Ant Polarizat L,R)		E47. E Design	Emission nator		. Maximum P per Carrier W)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
E50. Modulati entirety.)	ion and Services	(If the	ne complete d	escripti	on does no	t appear in	this bo	x, please go t	o the	end of the form	to view it in its

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc Eastern/West ern Limit	0	E57. Antenna Elevation Angle Eastern Limit	E58. Earth Station Azimuth Angle Western Limit	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
			/					
REMOTE CC	NTROL POIN	T LOCATION						
	ase enter the calls ich this application	•	•		. Phone Number			
E63. City			E68. County	7		E67/68. State/Country	E	64. Zip Code
			m 312 – Schedu	TH STATION A le B:(Technical a OFFICIAL USE	and Operational			

Location of Earth Station Site			
E1: Site Identifier:	E5. Call Sign:		
E2: Contact Name	E6. Phone Number:		
E3. Street:	E7. City:		
	E8. County:		
E4. State	E9. Zip Code		
E10. Area of Operation:			
E11. Latitude:			
E12. Longitude: °', "			
E13. Lat/Lon Coordinates are:	<b>○</b> NAD-27	O NAD-83	O N/A
E14. Site Elevation (AMSL):	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.	O Yes	O No	O N/A
E16. If the proposed antenna(s) do not operate in the Fixed Satellite Service (FSS), or if they operate in the Fixed Satellite Service (FSS) with non–geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a2) and (b) as demonstrated by the manufacturer's qualification measurements?	O Yes	O No	O N/A

E17. Is the facility operated by remote control? If YES, provide the l point.	ocation and telephone number of the control	O Yes	O No
		T	
E18. Is frequency coordination required? If YES, attach a frequency	coordination report as	O Yes	O No
E19. Is coordination with another country required? If YES, attach the coordination contours as	ne name of the country(ies) and plot of	O Yes	O No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 2 have you attached a copy of a completed FCC Form 854 and/or the I the structure to aviation?  FAILURE TO COMPLY WITH 47 CFR PARTS 17 AND 25 WII APPLICATION.	O Yes	O No	
POINTS OF COMMUNICATION		•	
Satellite Name: If you selected OTHER, please enter the following	g:		
E21. Common Name:	E22. ITU Name:		
E23. Orbit Location:	E24. Country:		
POINTS OF COMMUNICATION (Destination Points)			
E25. Site Identifier:			
E26. Common Name:	E27. Country:		
A NITTENINI A		·	

ANTENNA

Site ID	E28. Antenna Id	E29	. Quantity	E30. Manuf	facturer	E31. Mod	del	E32. Anten Size <meter< th=""><th></th><th>E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)</th><th></th></meter<>		E41/42. Antenna Gain Transmint and/or Recieve (dBi atGHz)	
										dBi at	
E28. Antenna Id	E33/34. Diameter Minor/Major (meters)	Gro	Above ound Level ters)		bove Sea meters)	E37. Buil Height A Ground I (meters)	bove	E38. Total Input Powe antenna fla (Watts)		E39. Maximum Antenna Heigh Above Roofton (meters)	nt EIRP for al
	/										
FREQUENCY											
E28. Antenna Id	E43/44. Frequency Ba (MHz)	ands	E45. T/R Mo	ode	E46. Ant Polarizat L,R)		E47. E Design	Emission nator		P per Carrier	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
E50. Modulat entirety.)	ion and Services	(If the	he complete d	escripti	on does no	t appear in	this bo	x, please go t	o the	end of the form	o view it in its

FREQUENCY COORDINATION

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

E61. Call Sign	E66. Phone Number					
NOTE: Please enter the callsign of the contr callsign for which this application is being filed						
E62. Street Address						
E63. City	E68. County		E67/68. State/Country	E64. Zip Code		

## FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

The public reporting for this collection of information is estimated to average 2 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the required data, and completing and reviewing the collection of information. If you have any comments on this burden estimate, or how we can improve the collection and reduce the burden it causes you, please write to the Federal Communications Commission, AMD–PERM, Paperwork Reduction Project (3060–0678), Washington, DC 20554. We will also accept your comments regarding the Paperwork Reduction Act aspects of this collection via the Internet if you send them to PRA@fcc.gov. PLEASE DO NOT SEND COMPLETED FORMS TO THIS ADDRESS.

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

THE FOREGOING NOTICE IS REQUIRED BY THE PAPERWORK REDUCTION ACT OF 1995, PUBLIC LAW 104–13, OCTOBER 1, 1995, 44 U.S.C. SECTION 3507.