Approved by OMB 3060–0678

Date & Time Filed: Apr 23 2014 2:02:26:853PM File Number: SES–LIC–INTR2014–00809 Callsign/Satellite ID:

APPLICATION FOR EARTH STATION AUTHORIZATIONS	FCC Use Only
FCC 312 MAIN FORM FOR OFFICIAL USE ONLY	

APPLICANT INFORMATION

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

April 2014 Application for Gateway Earth Station Operations for EUTELSAT 65 West A

1–8. Legal Nam	e of App	olicant		
Nan	ne:	Hughes Network Systems, LLC	Phone Number:	301-428-5506
DBA Nan			Fax Number:	301-428-2802
Stre	eet:	11717 Exploration Lane	E–Mail:	Steven.Doiron@hughes.com
City	/:	Germantown	State:	MD
Cou	ntry:	USA	Zipcode:	20876 –
Atte	ention:	Mr. Steven Doiron		

Name:	David S. Keir	Phone Number:	202-429-8970
Company:	Lerman Senter PLLC	Fax Number:	202-492-2993
Street:	2000 K Street, NW	E-Mail:	dkeir@lermansenter.com
	Suite 600		
City:	Washington	State:	DC
Country:	USA	Zipcode:	20006-
Attention:	David S. Keir, Esq.	Relationship:	Legal Counsel

CLASSIFICATION OF FILING

17. Choose the button next to the	b.
classification that applies to this filing for	b1. Application for License of New Station
both questions a. and b. Choose only one for 17a and only one for 17b.	 b2. Application for Registration of New Domestic Receive–Only Station (N/A) b3. Amendment to a Pending Application (N/A) b4. Modification of License or Registration
a. al. Earth Station (N/A) a2. Space Station	 (N/A) b5. Assignment of License or Registration (N/A) b6. Transfer of Control of License or Registration (N/A) b7. Notification of Minor Modification (N/A) b8. Application for License of New Receive–Only Station Using Non–U.S. Licensed Satellite
	(N/A) b9. Letter of Intent to Use Non–U.S. Licensed Satellite to Provide Service in the United States b10. Other (Please specify)
	b11. Application for Earth Station to Access a Non–U.S.satellite Not Currently Authorized to
	Provide the Proposed Service in the Proposed Frequencies in the United States. b12. Application for Database Entry
	(N/A) b13. Amendment to a Pending Database Entry Application (N/A) b14. Modifiction of Database Entry
17c. Is a fee submitted with this application	
If Yes, complete and attach FCC Form	159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114).
O Governmental Entity O Noncomme	rcial educational licensee
• Other(please explain):	
17d.	
Fee Classification BAX – Fixed Satellite T Station	ransmit/Receive Earth

18. If this filing is in reference to an	19. If this filing is an amendment to a pending ap	oplication enter:
existing station, enter:	(a) Date pending application was filed:	(b) File number of pending application:
(a) Call sign of station:		
Not Applicable	Not Applicable	Not Applicable

TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide	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
O Common Carrier	Using Non–U.S. licensed satellites
facilities:	ervice, 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 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: 18300.0000	Frequency Upper: 30000.0000

TYPE OF STATION

a. Fixed Earth Station				
b. Temporary–Fixed Ear	th Station			
c. 12/14 GHz VSAT Net	work			
d. Mobile Earth Station				
N/A) e. Geostationary Spac N/A) f. Non–Geostationary				
g. Other (please specify)				
YPE OF EARTH STATION	FACILITY: Choose only	one.		

PURPOSE OF MODIFICATION

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

Not Applicable

ENVIRONMENTAL POLICY

28. Would a Commission grant of any proposal in this application or amen environmental impact as defined by 47 CFR 1.1307? If YES, submit the	ũ là chiến thế	● No
1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. §§ 1.1308 and application. A Radiation Hazard Study must accompany all application	d 1.1311, as an exhibit to this Exhibit B Exhibit B	
modifications, or major amendments.		

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

29. Is the applicant a foreign government or the representative of any foreign government?	O Yes	No
30. Is the applicant an alien or the representative of an alien?	O Yes	O No ⊗ N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	O Yes	O 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?	O Yes	O 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?

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	O No
	Exhibit C	
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
	Exhibit D	

37. Has the applicant, or any party to this application or amendment, or any party directly or indirectly controlling the applicant ever been convicted of a felony by any state or federal court? If Yes, attach as an exhibit, an explination of circumstances.	O Yes	No No
38. Has any court finally adjudged the applicant, or any person directly or indirectly controlling the applicant, guilty of unlawfully monopolizing or attemptiing unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement or any other means or unfair methods of competition? If Yes, attach as an exhibit, an explanation of circumstances	O Yes	
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.	O Yes	
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.	Exhibit E	

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.	• Yes Exhibit G	O No
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued coordinated or is in the process of coordinating the space station?See Attachment, Technical Information.	, what administr	ation has

43. Description. (Summarize the nature of the application and the services to be provided).	(If the complete description does
not appear in this box, please go to the end of the form to view it in its entirety.)	

See Attachment, Technical Information.

Narrative

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.	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.	o c
	Attachment Sch S

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 ne	ext to applicable response	e.)		
O Individual				
O Unincorporated Association				
• Partnership				
• Corporation				
• Governmental Entity				
• Other (please specify)				
-				
45. Name of Person Signing		46. Title of Person		
Steven Doiron		Senior Director, Re	gulatory Affairs	
47. Please supply any need attachments.				
Attachment 1: Exhibit A	Attachment 2:		Attachment 3:	
WILLFUL FALSE STATEMENT				
			NY STATION AUTHORIZATION	ſ
(U.S. Code, 111e 47, Se	(1)), AND/C	JK FUKFEITUKE (U.S	. Code, Title 47, Section 503).	

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

Location of Earth St	ation Site				
E1: Site Identifier:	B-3	E5. Call Sign:	NEW		
E2: Contact Name	Network Management Center	E6. Phone Number:	1-800-548-2404		
E3. Street:		E7. City:			
		E8. County:			
E4. State		E9. Zip Code			
E10. Area of Opera	tion:	CONUS, AK, HI, P	PR, and VI		
E11. Latitude:	33 °47 '45.7 "N				
E12. Longitude:	117 °5 '20.28 "W				
E13. Lat/Lon Coord	linates are:	O NAD−27	● NAD-83	O ^{N/A}	
E14. Site Elevation	(AMSL):	565.4 meters			

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two–degree spacing policy.	• Yes	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	○ ^{No}	● N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	• Yes	0	No

	c	Yes	۲	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	c	Yes	۲	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, he 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.	ive C	Yes	۲	No

Satellite Name:OTHER | OTHER | If you selected OTHER, please enter the following:

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

Satellite Name:OTHER OTHER If you selected OTHER, please enter the following:				
E21. Common Name: EUTELSAT 65 West A	E22. ITU Name:			
E23. Orbit Location: 65.2 W.L.	E24. Country: USA			
POINTS OF COMMUNICATION (Destination Points)				
E25. Site Identifier:				
E26. Common Name: E27. Country:				

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi at GHz)
В-3	B3	1	GD SATCOM	13.2M	13.2	66.2 dBi at 19.9500
						69.0 dBi at 29.7500

Id	E33/34. Diameter Minor/Major (meters)		(meters)	0	Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers (dBW)
B3	0.0/0.0	14.9	580.3	0.0	635.0	0.0	97.0

FREQUENCY

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V, L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
В3	18300.0000 18800.0000	R	Left and Right Circular	612KG7W	0.0	0.0
E50. Modulation entirety.) Inroute, P	and Services (If th PSK, 512 ksps	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
B3	19700.0000 20200.0000	R	Left and Right Circular	612KG7W	0.0	0.0
E50. Modulation entirety.)	and Services (If th	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Inroute, P	OSK, 512 ksps					
B3	18300.0000 18800.0000	R	Left and Right Circular	3M67G7W	0.0	0.0

E50. Modulatio	on and Services (If t	he complete descripti	on does not appear ir	n this box, please go t	o the end of the form	to view it in its
entirety.)						
Inroute,	PSK, 2048 ksps					
B3	19700.0000 20200.0000	R	Left and Right Circular	3M67G7W	0.0	0.0
E50. Modulation entirety.)	on and Services (If t	he complete descripti	on does not appear ir	n this box, please go t	o the end of the form	to view it in its
Inroute,	PSK, 2048 ksps					
B3	27500.0000 29000.0000	Т	Horizontal and Vertical	40M0G7W	88.5	48.5
E50. Modulation entirety.)	on and Services (If t	he complete descripti	on does not appear ir	n this box, please go t	o the end of the form	to view it in its
Outroute,	PSK, 32 Msps					
B3	29500.0000 30000.0000	Т	Left and Right Circular	40M0G7W	88.5	48.5

on and Services (1	f the complete d	escription does not appear	in this box, please	go to the end of t	he form to view it in its
, PSK, 32 Msps					
27500.0000 29000.0000	Т	Left and Right Circular	250MG7W	96.5	48.5
	-				
29500.0000 30000.0000	Т	Left and Right Circular	250MG7W	96.5	48.5
		escription does not appear	in this box, please	go to the end of t	he form to view it in its
	PSK, 32 Msps 27500.0000 29000.0000 on and Services (1 PSK, 225 Msp 29500.0000 29500.0000 on and Services (1 29500.0000 on and Services (1	PSK, 32 Msps 27500.0000 T 29000.0000 T on and Services (If the complete d PSK, 225 Msps 29500.0000 T 29500.0000 T	PSK, 32 Msps 27500.0000 T Left and Right 29000.0000 on and Services (If the complete description does not appear PSK, 225 Msps 29500.0000 T Left and Right Output 29500.0000 T Left and Right Output Output Image: State of the complete description does not appear Output Output Output Output Image: State of the complete description does not appear Output Output Image: State of the complete description does not appear Output Output Image: State of the complete description does not appear	PSK, 32 Msps 27500.0000 T Left and Right Circular 250MG7W 29000.0000 T Circular 250MG7W on and Services (If the complete description does not appear in this box, please PSK, 225 Msps 29500.0000 T Left and Right Circular 250MG7W 29500.0000 T Left and Right Circular 250MG7W on and Services (If the complete description does not appear in this box, please	PSK, 32 Msps 27500.0000 T Left and Right Circular 250MG7W 96.5 29000.0000 T Left and Right Circular 250MG7W 96.5 on and Services (If the complete description does not appear in this box, please go to the end of t PSK, 225 Msps 29500.0000 T Left and Right Circular 250MG7W 96.5 0000.0000 T Left and Right Circular 250MG7W 96.5 00 and Services (If the complete description does not appear in this box, please go to the end of t

FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	E52/53. Frequency Limits(MHz)	E54/55. Range of Satellite Arc E/W 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)
B3	Geostationary	18300.0000 18800.0000	43.7/ 190.5	99.4	5.1	260.6	5.1	0.0
	Geostationary	19700.0000 20200.0000	43.7/ 190.5	99.4	5.1	260.6	5.1	0.0
	Geostationary	27500.0000 29000.0000	43.7/ 190.5	99.4	5.1	260.6	5.1	-9.1
	Geostationary	29500.0000 30000.0000	43.7/ 190.5	99.4	5.1	260.6	5.1	-9.1
REMOTE CO	 ONTROL POIN	L T LOCATION						
	Sign ase enter the calls nich this applicati	•	•	1-8	. Phone Number 00–548–2404			
E62. Street 11717 Expl	Address loration Lane			I				
E63. City Germantown E67. County Montgomery		•		E64/68. State/Country MD/ US		E66. Zip Code 20876		

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

Location of Earth St	ation Site				
E1: Site Identifier:	B-2	E5. Call Sign:	NEW		
E2: Contact Name	Network Management Center	E6. Phone Number:	1-800-548-2404		
E3. Street:		E7. City:			
		E8. County:			
E4. State		E9. Zip Code			
E10. Area of Operat		CONUS, AK, HI, P	PR, and VI		
E11. Latitude:	41 °7 '54.36 "N				
E12. Longitude:	104 °44 '14.69 "W	r			
E13. Lat/Lon Coord	linates are:	ONAD-27	NAD-83	O N/A	
E14. Site Elevation	(AMSL):	1812.5 meters			

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two–degree spacing policy.	• Yes	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	○ ^{No}	● N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	• Yes	0	No

	c	Yes	۲	No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	c	Yes	۲	No
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, he 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.	ive C	Yes	۲	No

Satellite Name:OTHER | OTHER | If you selected OTHER, please enter the following:

E21. Common Name: EUTELSAT 65 West A	E22. ITU Name:
E23. Orbit Location: 65.2 W.L.	E24. Country: USA

Satellite Name:OTHER OTHER If you selected OTHER, please enter the following:							
E21. Common Name: ALSAT	E22. ITU Name:						
E23. Orbit Location:	E24. Country: USA						
POINTS OF COMMUNICATION (Destination Points)							
E25. Site Identifier:							
E26. Common Name:	E27. Country:						

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer			E41/42. Antenna GainTransmint and/or Recieve (dBi at GHz)
B-2	B2	1	ASC Signal	8.1 Meter Ka-band	8.1	61.6 dBi at 18.9000
						65.3 dBi at 27.5000

Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	(meters)	0	Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers (dBW)
B2	0.0/0.0	8.4	1820.9	0.0	635.0	0.0	93.3

FREQUENCY

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V, L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
B2	18300.0000 18800.0000	R	Left and Right Circular	612KG7W	0.0	0.0
E50. Modulation entirety.) Inroute, P	and Services (If th SK, 512 ksps	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
B2	19700.0000 20200.0000	R	Left and Right Circular	612KG7W	0.0	0.0
E50. Modulation entirety.)	and Services (If th	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
Inroute, P	SK, 512 ksps					
B2	18300.0000 18800.0000	R	Left and Right Circular	3M67G7W	0.0	0.0

E50. Modulatio	n and Services (If the	he complete descripti	on does not appear ir	n this box, please go t	o the end of the form	to view it in its
entirety.)						
Inroute,	PSK, 2048 ksps					
B2	19700.0000 20200.0000	R	Left and Right Circular	3M67G7W	0.0	0.0
E50. Modulatio entirety.)	n and Services (If the service	he complete descripti	on does not appear ir	n this box, please go t	o the end of the form	to view it in its
Inroute,	PSK, 2048 ksps					
B2	27500.0000 29000.0000	Т	Left and Right Circular	40M0G7W	84.8	44.8
E50. Modulatio entirety.)	n and Services (If the services) (If the service	he complete descripti	on does not appear in	1 this box, please go t	o the end of the form	to view it in its
Outroute,	PSK, 32 Msps					
B2	29500.0000 30000.0000	Т	Left and Right Circular	40M0G7W	84.8	44.8

E50. Modulatio entirety.)	n and Services (If	the complete descript	ion does not appear	in this box, please	go to the end of th	ne form to view it in its
Outroute,	PSK, 32 Msps					
B2	27500.0000 29000.0000	Т	Left and Right Circular	250MG7W	92.76	44.8
E50. Modulatio entirety.) Outroute,	PSK, 225 Msps					he form to view it in its
B2	29500.0000 30000.0000	Т	Left and Right Circular	250MG7W	92.76	44.8
E50. Modulatio entirety.) Outroute,	n and Services (If PSK, 225 Msps		ion does not appear	in this box, please	go to the end of th	ne 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 E/W 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)
B2	Geostationary	18300.0000 18800.0000	33.2/ 176.5	102.3	5.1	257.7	5.0	0.0
	Geostationary	19700.0000 20200.0000	33.2/ 176.5	102.3	5.1	257.7	5.0	0.0
	Geostationary	27500.0000 29000.0000	33.2/ 176.5	102.3	5.1	257.7	5.0	-9.0
	Geostationary	29500.0000 30000.0000	33.2/ 176.5	102.3	5.1	257.7	5.0	-9.0
REMOTE CO	 ONTROL POIN	L T LOCATION						
	Sign ase enter the calls nich this applicati			1-8	. Phone Number 00–548–2404			
E62. Street 11717 Expl	Address loration Lane							
E63. City Germantow	vn		E67. Count Montgomer	•		E64/68. State/Country MD/ US		E66. Zip Code 20876

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

Location of Earth St	ation Site					
E1: Site Identifier:	B-1	E5. Call Sign:	NEW			
E2: Contact Name	Network Management Center	E6. Phone Number:	1-800-548-2404	L Contraction of the second		
E3. Street:		E7. City:				
		E8. County:				
E4. State		E9. Zip Code				
E10. Area of Operation:		CONUS, AK, HI, PR, and VI				
E11. Latitude:	39 °10 '45.26 "N					
E12. Longitude:	77 °14 '40.2 "W					
E13. Lat/Lon Coord	linates are:	ONAD-27	● NAD-83	O N/A		
E14. Site Elevation	(AMSL):	129.4 meters				

E15. If the proposed antenna(s) operate in the Fixed Satellite Service (FSS) with geostationary satellites, do(es) the proposed antenna(s) comply with the antenna gain patterns specified in Section 25.209(a) and (b) as demonstrated by the manufacturer's qualification measurement? If NO, provide as a technical analysis showing compliance with two-degree spacing policy.	• Yes	○ ^{No}	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	0	No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as	0	Yes	● ^N	10
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	0	Yes	● ^N	10
E20. FAA Notification – (See 47 CFR Part 17 and 47 CFR part 25.113(c)) Where FAA notification is required, hav 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.	0	Yes	() N	10

Satellite Name:OTHER | OTHER | If you selected OTHER, please enter the following:

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

Satellite Name:OTHER OTHER If you selected OTHER, please enter the following:					
E21. Common Name: EUTELSAT 65 West A	E22. ITU Name:				
E23. Orbit Location: 65.2 W.L.	E24. Country: USA				
POINTS OF COMMUNICATION (Destination Points)					
E25. Site Identifier:					
E26. Common Name:	E27. Country:				

ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	E32. Antenna Size <meters></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi at GHz)
B-1	B1	1	GD SATCOM	13.2M	13.2	66.2 dBi at 19.9500
						69.0 dBi at 29.7500

Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level (meters)	(meters)		Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers (dBW)
B1	0.0/0.0	14.9	144.3	0.0	635.0	0.0	97.0

FREQUENCY

E28. Antenna Id	E43/44. Frequency Bands (MHz)	E45. T/R Mode	E46. Antenna Polarization(H,V, L,R)	E47. Emission Designator	E48. Maximum EIRP per Carrier (dBW)	E49. Maximum ERIP Density per Carrier (dBW/4kHz)
B1	18300.0000 18800.0000	R	Left and Right Circular	612KG7W	0.0	0.0
E50. Modulation entirety.) Inroute, P	and Services (If th SK, 512 ksps	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
B1	19700.0000 20200.0000	R	Left and Right Circular	612KG7W	0.0	0.0
E50. Modulation entirety.) Inroute, P	and Services (If th SK, 512 ksps	ne complete description	on does not appear in	this box, please go to	o the end of the form	to view it in its
B1	18300.0000 18800.0000	R	Left and Right Circular	3M67G7W	0.0	0.0

E50. Modulation	n and Services (If th	he complete descripti	on does not appear ir	n this box, please go t	to the end of the form	to view it in its
entirety.)						
Inroute, I	PSK, 2048 ksps					
B1	19700.0000 20200.0000	R	Left and Right Circular	3M67G7W	0.0	0.0
E50. Modulation entirety.)	n and Services (If the	he complete descripti	on does not appear ir	n this box, please go t	to the end of the form	to view it in its
Inroute, I	PSK, 2048 ksps					
B1	27500.0000 29000.0000	Т	Left and Right Circular	40M0G7W	88.5	48.5
E50. Modulation entirety.)	n and Services (If the services) (If the service	he complete descripti	on does not appear ir	n this box, please go t	to the end of the form	to view it in its
Outroute,	PSK, 32 Msps					
B1	29500.0000 30000.0000	Т	Left and Right Circular	40M0G7W	88.5	48.5

E50. Modulati entirety.)	ion and Services (I	f the complete d	escription does not appear	in this box, please	go to the end of t	he form to view it in its
Outroute	, PSK, 32 Msps					
B1	27500.0000 29000.0000	Т	Left and Right Circular	250MG7W	96.5	48.5
entirety.)	ion and Services (I	-	escription does not appear			
B1	29500.0000 30000.0000	Т	Left and Right Circular	250MG7W	96.5	48.5
entirety.)	ion and Services (I	_	escription does not appear	in this box, please	go to the end of t	he 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 E/W 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)
B1	Geostationary	18300.0000 18800.0000	5.0/ 149.4	101.4	5.0	258.5	5.1	0.0
	Geostationary	19700.0000 20200.0000	5.0/ 149.4	101.4	5.0	258.5	5.1	0.0
	Geostationary	27500.0000 29000.0000	5.0/ 149.4	101.4	5.0	258.5	5.1	-9.0
	Geostationary	29500.0000 30000.0000	5.0/ 149.4	101.4	5.0	258.5	5.1	-9.0
REMOTE CO	 ONTROL POIN	T LOCATION						
	Sign ase enter the calls hich this applicati			1-8	. Phone Number 00–548–2404			
E62. Street 11717 Expl	Address loration Lane			I				
E63. City Germantown			E67. Count Montgomer	•		E64/68. State/Country MD/ US		E66. Zip Code 20876

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