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 Name of Applicant

Name: Hughes Network Systems, LLC **Phone Number:** 301–428–5506

DBA Fax Number: 301–428–2802

Name:

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

City: Germantown State: MD

Country: USA Zipcode: 20876 -

Attention: Mr. Steven Doiron

9–16. Name of Contact Representative

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	b2. Application for Registration of New Domestic Receive–Only Station
for 17a and only one for 17b.	
	(N/A) b3. Amendment to a Pending Application (N/A) b4. Modification of License or Registration
a.	(N/A) b5. Assignment of License or Registration
a1. Earth Station	(N/A) b6. Transfer of Control of License or Registration
(N/A) a2. Space Station	(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 h 10. Other (Please specify)
	o 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.
	(N/A) b13. Amendment to a Pending Database Entry Application
	(N/A) b14. Modifiction of Database Entry
17c. Is a fee submitted with this applicati	on?
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 Noncomme	ercial educational licensee
Other(please explain):	
17d.	
Fee Classification BAX – Fixed Satellite T	ransmit/Receive Earth
Station	

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

TYPE OF SERVICE

I YPE OF SERVICE	
20. NATURE OF SERVICE: This filing is for an authorization to provide	or use the following type(s) of service(s): Select all that apply:
a. Fixed Satellite b. Mobile Satellite c. Radiodetermination Satellite	
d. Earth Exploration Satellite	
e. Direct to Home Fixed Satellite	
f. Digital Audio Radio Service	
g. Other (please specify)	
21. STATUS: Choose the button next to the applicable status. Choose only one. Common Carrier Non–Common Carrier	22. If earth station applicant, check all that apply. Using U.S. licensed satellites Using Non–U.S. licensed satellites
23. If applicant is providing INTERNATIONAL COMMON CARRIER so facilities: Connected to a Public Switched Network Not connected to	ervice, see instructions regarding Sec. 214 filings. Choose one. Are these 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
25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one.
a. Fixed Earth Station
b. Temporary–Fixed Earth Station
c. 12/14 GHz VSAT Network
d. Mobile Earth Station
(N/A) e. Geostationary Space Station
(N/A) f. Non–Geostationary Space Station
g. Other (please specify)
26. TYPE OF EARTH STATION FACILITY: Choose only one.
Transmit/Receive Transmit-Only Receive-Only 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.)
Not Applicable

ENVIRONMENTAL POLICY

environmental impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections 1.1308 and 1.1311 of the Commission's rules, 47 C.F.R. §§ 1.1308 and 1.1311, as an exhibit to this application. A Radiation Hazard Study must accompany all applications for new transmitting facilities, major modifications, or major amendments.	Exhibit B
ALIEN OWNERSHIP Earth station applicants not proposing to provide broadcast, common carrier, aerona aeronautical fixed radio station services are not required to respond to Items 30–34.	utical en route or
29. Is the applicant a foreign government or the representative of any foreign government?	O Yes O No
30. Is the applicant an alien or the representative of an alien?	O Yes O No O N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	O Yes O No O 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 O 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?	O Yes O N	o o 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	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
and the state of the commission of the state	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
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	⊚ 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.	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
	2	
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.	l, what administ	ration has
43. Description. (Summarize the nature of the application and the services to be provided). (If the	e complete desc	cription does
not appear in this box, please go to the end of the form to view it in its entirety.)		inputon do co
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.

Individual				
 Unincorporated Association 				
Partnership				
Corporation				
Governmental Entity				
Other (please specify)				
45. Name of Person Signing Steven Doiron		46. Title of Pers Senior Director,	son Signing , Regulatory Affairs	
		•		
47. Please supply any need attachment	ts.			
Attachment 1: Exhibit A	Attachment 2:		Attachment 3:	
	•		·	
WILL FILL FALCE CONTROL	MENTS MADE ON THIS FO		BLE BY FINE AND / OR IMPRIS ANY STATION AUTHORIZATIO	

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: B-3 E5. Call Sign: NEW

E2: Contact Name Network E6. Phone 1–800–548–2404

Management Number:

Center

E3. Street: E7. City:

E8. County:

E4. State E9. Zip Code

E10. Area of Operation: CONUS, AK, HI, PR, and VI

E11. Latitude: 33 °47 '45.7 "N

E12. Longitude: 117 °5 '20.28 "W

E13. Lat/Lon Coordinates are: NAD-27 NAD-83 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	s 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	s O No	● N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.		es C) No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	O Ye	es @) No
E19. Is coordination with another country required? If YES, attach the name of the country(ies) and plot of coordination contours as	O Ye	es ©	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 Ye	es ©	N o
POINTS OF COMMUNICATION	-		
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 atGHz)
B-3	B3	1	GD SATCOM	13.2M	13.2	66.2 dBi at 19.9500
						69.0 dBi at 29.7500

Id	Diameter	Ground	(meters)	Height Above Ground Level 	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, 1	n and Services (If the PSK, 512 ksps	he complete descripti	ion does not appear in	this box, please go t	to 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.)	n and Services (If the	he complete descripti	ion does not appear ir	this box, please go t	to the end of the form	to view it in its
Inroute, 1	PSK, 512 ksps					
В3	18300.0000 18800.0000	R	Left and Right Circular	3M67G7W	0.0	0.0

E50. Modul entirety.)	lation and Services (I	f the complete	description does not appear	n this box, please	go to the end of t	he form to view it in	its
Inroute	e, PSK, 2048 ksp	s					
В3	19700.0000 20200.0000	R	Left and Right Circular	3M67G7W	0.0	0.0	
entirety.)	lation and Services (I		description does not appear i	n this box, please	go to the end of t	he form to view it in	its
В3	27500.0000 29000.0000	Т	Horizontal and Vertical	40M0G7W	88.5	48.5	
entirety.)	lation and Services (I		description does not appear	n this box, please	go to the end of t	he form to view it in	its
В3	29500.0000 30000.0000	Т	Left and Right Circular	40M0G7W	88.5	48.5	

E50. Modulation entirety.)	n and Services (If t	he complete descrip	tion does not appear	in this box, please	go to the end of th	ne form to view it in its
	PSK, 32 Msps					
В3	27500.0000 29000.0000	Т	Left and Right Circular	250MG7W	96.5	48.5
E50. Modulation entirety.) Outroute,	PSK, 225 Msps	he complete descrip	tion does not appear	in this box, please	go to the end of th	ne form to view it in its
B3	29500.0000 30000.0000	Т	Left and Right Circular	250MG7W	96.5	48.5
E50. Modulation entirety.)	n and Services (If t	he complete descrip		in this box, please	go to the end of th	ne form to view it in its
Outroute,	PSK, 225 Msps					

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)
В3	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 CONTROL POINT LOCATION

E61. Call Sign NEW NOTE: Please enter the callsign of the contro callsign for which this application is being filed.	E65. Phone Number 1–800–548–2404			
E62. Street Address 11717 Exploration Lane				
E63. City Germantown	E67. County Montgomery		E64/68. State/Country MD/ USA	E66. Zip Code 20876

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: B-2 E5. Call Sign: NEW

E2: Contact Name Network E6. Phone 1–800–548–2404

Management Number:

Center

E3. Street: E7. City:

E8. County:

E4. State E9. Zip Code

E10. Area of Operation: CONUS, AK, HI, PR, and VI

E11. Latitude: 41 °7 '54.36 "N

E12. Longitude: 104 °44 '14.69 "W

E13. Lat/Lon Coordinates are: NAD-27 NAD-83 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	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
	т		
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	O Yes	•	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	•	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	•	No
POINTS OF COMMUNICATION			
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	E31. Model	Size <meters></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
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	Diameter	Ground	(meters)	Height Above Ground Level 	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.)	n and Services (If the	he complete descripti	ion does not appear ir	this box, please go	to the end of the form	to view it in its
Inroute, F	PSK, 512 ksps					
B2	19700.0000 20200.0000	R	Left and Right Circular	612KG7W	0.0	0.0
E50. Modulation entirety.)	n and Services (If the	he complete descripti	ion does not appear ir	this box, please go	to the end of the form	to view it in its
Inroute, I	PSK, 512 ksps					
B2	18300.0000 18800.0000	R	Left and Right Circular	3M67G7W	0.0	0.0

E50. Modula entirety.)	ntion and Services (l	If the complete	description does not appear	in this box, please	go to the end of t	he form to view it in	its
Inroute	, PSK, 2048 ksp	s					
B2	19700.0000 20200.0000	R	Left and Right Circular	3M67G7W	0.0	0.0	
entirety.)	ntion and Services (I		description does not appear	in this box, please	go to the end of t	he form to view it in	its
B2	27500.0000 29000.0000	Т	Left and Right Circular	40M0G7W	84.8	44.8	
entirety.)	e, PSK, 32 Msps		description does not appear	in this box, please	go to the end of t	he form to view it in	its
B2	29500.0000 30000.0000	Т	Left and Right Circular	40M0G7W	84.8	44.8	

E50. Modulation entirety.)	n and Services (If	the complete descript	ion does not appear	in this box, please	go to the end of th	e form to view it in its
	PSK, 32 Msps					
B2	27500.0000 29000.0000	T	Left and Right Circular	250MG7W	92.76	44.8
E50. Modulation entirety.) Outroute,	n and Services (If the PSK, 225 Msps	the complete descript	ion does not appear	in this box, please	go to the end of th	e form to view it in its
B2	29500.0000 30000.0000	Т	Left and Right Circular	250MG7W	92.76	44.8
E50. Modulation entirety.)	PSK, 225 Msps	the complete descript	ion does not appear	in this box, please	go to the end of th	e 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)
			/					
REMOTE CO	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. E65. Phone Number								
E62. Street Address								
E63. City			E67. County	7		E64/68. State/Country	E66	. 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:	○ NAD-27	○ 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.	● 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	٥	No
E18. Is frequency coordination required? If YES, attach a frequency coordination report as	Π		
270. Is frequency coordination required. If T25, attach a frequency coordination report as	O Yes	•	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	•	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	•	No
POINTS OF COMMUNICATION	•		
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	Size <meters></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi atGHz)
B-1	B1	1	GD SATCOM	13.2M	13.2	66.2 dBi at 19.9500
						69.0 dBi at 29.7500

Id	Diameter	Ground	(meters)	Height Above Ground Level 	Input Power at antenna flange (Watts)	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.)	and Services (If the	he complete descripti	ion does not appear ir	this box, please go	to the end of the form	to view it in its
Inroute, F	PSK, 512 ksps					
B1	19700.0000 20200.0000	R	Left and Right Circular	612KG7W	0.0	0.0
E50. Modulation entirety.)	and Services (If the	he complete descripti	ion does not appear ir	this box, please go	to the end of the form	to view it in its
Inroute, I	PSK, 512 ksps					
B1	18300.0000 18800.0000	R	Left and Right Circular	3M67G7W	0.0	0.0

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

E50. Modulation	and Services (If t	he 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					
B1	27500.0000 29000.0000	Т	Left and Right Circular	250MG7W	96.5	48.5
E50. Modulation entirety.)		he 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, 225 Msps					
B1	29500.0000 30000.0000	Т	Left and Right Circular	250MG7W	96.5	48.5
E50. Modulation entirety.)	and Services (If t	he 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, 225 Msps					

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 CONTROL POINT LOCATION

E61. Call Sign NEW NOTE: Please enter the callsign of the contro callsign for which this application is being filed.		E65. Phone Number 1–800–548–2404		
E62. Street Address 11717 Exploration Lane				
E63. City Germantown	E67. County Montgomery		E64/68. State/Country MD/ USA	E66. Zip Code 20876

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

The public reporting for this collection of information is estimated to average 0.25-24 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.