Date & Time Filed: Aug 5 2004 12:08:13:006AM File Number: SES-MOD-INTR2004-01537

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:

Eielson AFB - CTBTO mod to add Intelsat 701 @ 180 EL

1–8. Legal Name of Applicant

Name: Hughes Network Systems, Limited Phone Number: 301–428–5500

DBA Fax Number: 301–428–7012

Name:

Street: 11717 Exploration Lane **E-Mail:**

City: Germantown State: MD

Country: USA Zipcode: 20876 -

Attention: Ms Joslyn Read, AVP

REGULATORY AFFAIRS

9–16. Name of Contact Representative (If other than applicant)

Name: John Janka Phone Number: 202–637–2200

Company: Latham & Watkins **Fax Number:** 202–637–2201

Street: 555 Eleventh Street, N.W. **E–Mail:**

Suite 1000

City: Washington State: DC

Country: USA Zipcode: 20004–

Contact Relationship: Legal Counsel

Title:

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

(N/A) b3. Amendment to a Pending Application

(N/A) b4. Modification of License or Registration

b5. Assignment of License or Registration

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

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

17c. Is a fee submitted with this application? If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R.Section 1.1114). Governmental Entity Noncommercial educational licensee Other(please explain):						
17d. Fee Classification A CGX – Fixed Satellite Station	Transmit/Receive Earth					
18. If this filing is in reference to an existing station, enter:(a) Call sign of station: E020207	19. If this filing is an amendment to a pending a modification please enter only the file number: (a) Date pending application was filed:	pplication enter both fields, if this filing is a (b) File number: SESLIC2002080201254				

TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide of	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)	
	2. 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 ser facilities:	vice, see instructions regarding Sec. 214 filings. Choose one. Are these
Connected to a Public Switched Network Not connected to a Public Switched Network	blic Switched Network N/A
24. FREQUENCY BAND(S): Place an 'X' in the box(es) next to all app	licable 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: Frequency Upper: (Please specify additional	l frequencies in an attachment)

TYPE OF STATION

25. CLASS OF STATION: Choose the button next to the class of station that applies. Choose only one.	
a. Fixed Earth Station	
• b. Temporary–Fixed Earth Station	
c. 12/14 GHz VSAT Network	
d. Mobile Earth Station	
e. Geostationary Space Station	
f. Non–Geostationary Space Station	
g. Other (please specify)	
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 & Double
j — authorization to change Points of Communication (satellites & tountries)
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

28. Would a Commission grant of any proposal in this application or amendment have a significant environmental impact as defined by 47 CFR 1.1307? If YES, submit the statement as required by Sections 1.1308 and 1.1311 of the Commission's rules, 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.	Yes 🌘 No	
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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?	٥	Yes	•	No	٥	N/A
30. Is the applicant an alien or the representative of an alien?	0	Yes	•	No	0	N/A
31. Is the applicant a corporation organized under the laws of any foreign government?	•	Yes	0	No	0	N/A
32. Is the applicant a corporation of which more than one—fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	•	Yes	0	No	0	N/A

33. Is the applicant a corporation directly or indirectly controlled by any other corporation of which more than one—fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country?	● Yes ● N	No 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.	Q34 Response	
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.	O 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	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	⊚ 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.		

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 Yes ■ Yes ■ Nes Nes	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.	O Yes	No
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, v	what administ	ration 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.)

coordinated or is in the process of coordinating the space station?

This application requests modification to call sign E020207 to add as a point of communication Intelsat 701 at 180 W.L., including the corresponding modifications to the satellite arc. In support of the application, attached are a satellite coordination letter from Intelsat and a frequency coordination report prepared by Comsearch. There are

CERTIFICATION

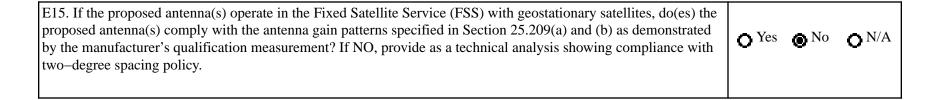
The Applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. The 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.

true, complete and correct to the best of his or her	r knowledge and belief,	and are made in good fa	aith.
44. Applicant is a (an): (Choose the button next to	o applicable response.)		
 Individual Unincorporated Association Partnership Corporation Governmental Entity Other (please specify) 			
45. Name of Person Signing Joslyn Read		46. Title of Person Sign AVP Regulatory Affairs	S .
47. Please supply any need attachments.			
Attachment 1:	Attachment 2:		Attachment 3:

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT (U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).

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

Location of Earth St	ation Site					
E1: Site Identifier:	Eilson AFB-RN76	E5. Call Sign:	E020207			
E2: Contact Name	MSgt Dana Samm	E6. Phone Number:	907 377 2423			
E3. Street:	1183 Flightline Avenue	E7. City:	Eielson AFB			
		E8. County:	Fairbanks North Star			
E4. State	AK	E9. Zip Code	99702			
E10. Area of Operat	ion:	NOT REQUIRED				
E11. Latitude:	64 °40 '8.0 "N					
E12. Longitude:	147 °5 '19.0 "W					
E13. Lat/Lon Coord	linates are:	○ NAD-27	● NAD-83	O N/A		
E14. Site Elevation	(AMSL):	166.3 meters				



E16. If the proposed antenna(s) do not operate in the Fixed Satellite So Satellite Service (FSS) with non–geostationary satellites, do(es) the progain patterns specified in Section 25.209(a2) and (b) as demonstrated by measurements?	oposed antenna(s) comply with the antenna	O Yes	O No	● N/A
E17. Is the facility operated by remote control? If YES, provide the loc point.	cation and telephone number of the control	Yes	٥	No
E18. Is frequency coordination required? If YES, attach a frequency co	pordination report as E.18 response	• Yes	0	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 25.1 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		Į.		
Satellite Name: OTHER If you selected OTHER, please enter the	e following:			
E21. Common Name: Intelsat 701	E22. ITU Name:			
E23. Orbit Location: 180 EL	E24. Country: USA			
POINTS OF COMMUNICATION (Destination Points)	ı			
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 Gain Transmint and/or Recieve (dBi atGHz)	
Eilson AFB–RN76		RN71		1		Prodelin		1251		0.0		0.0 dBi at	
E28. Antenna Id	D M	33/34. iameter linor/Major neters)	Gro	. Above und Level ters)		bove Sea meters)	E37. Buil Height A Ground I (meters)	bove	E38. Total Input Powe antenna fla (Watts)	1		ht	E40. Total EIRP for al carriers(dBW)
RN71	0.	0/0.0	2.64	,	0.0		0.0		0.0	0.0			0.0
FREQUENCY			I		•								
E28. Antenna Id	l	E43/44. Frequency Ba (MHz)	nds	E45. T/R M	ode	E46. Ant Polarizat L,R)		E47. E Design	Emission nator	_	. Maximum P per Carrier W)	EF Ca	9. Maximum RIP Density per arrier BW/4kHz)
E50. Modulat entirety.)	ion	and Services	(If th	ne complete d	lescripti	on does no	t appear in	this box	x, please go to	o the	end of the form	to v	riew 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	Station Azimuth Angle	E57. Antenna Elevation Angle Eastern Limit	Station Azimuth Angle	E59. Antenna Elevation Angle Western Limit	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
RN71	Geostationary	3700 4200	180.0/184.0	215.6	12.6	219.7	11.5	0.0
	Geostationary	5925 6425	180.0/184.0	215.6	12.6	219.7	11.5	-3.7

REMOTE CONTROL POINT LOCATION

E61. Call Sign	E66. Phone Number						
NOTE: Please enter the callsign of the contraction 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 jboley@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.

43. Description. (Summarize the nature of the application and the services to be provided).

This application requests modification to call sign E020207 to add as a point of communication Intelsat 701 at 180 W.L., including the corresponding modifications to the satellite arc. In support of the application, attached are a satellite coordination letter from Intelsat and a frequency coordination report prepared by Comsearch. There are no other changes being requested to the currently authorized antenna.