Date & Time Filed: Sep 26 2006 3:25:44:083PM File Number: SES–MSC–INTR2006–02690 Callsign/Satellite ID:

APP	LICATION FOR EARTH STATIO	N AUTHORIZATIONS		FCC Use Only
	FCC 312 MAIN FORM FOR OF	FICIAL USE ONLY		
APPLICANT INFOR	MATION this application to identify it on	the main menu:		
EPS- METOPS HI S	•	ule main menu.		
1–8. Legal Name of App				
Name:	Universal Space Network, Inc.	Phone Number:	215-	-328-9130
DBA Name:		Fax Number:	215-	-328-9132
Street:	417 Caredean Drive	E-Mail:	jswa	nk@uspacenet.com
	Suite A			
City:	Horsham	State:	PA	
Country:	USA	Zipcode:	1904	44 –
Attention:	Joanne Swank			

Name:	Universal Space Network, Inc.	Phone Number:	215-328-9130
Company:		Fax Number:	215-328-9132
Street:	417 Caredean Drive	E-Mail:	jswank@uspacenet.com
	Suite A		
City:	Horsham	State:	PA
Country:	USA	Zipcode:	19044-
Attention:	Joanne Swank	<b>Relationship:</b>	

### CLASSIFICATION OF FILING

<ul> <li>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.</li> <li>a.</li> <li>a.1. Earth Station</li> <li>(N/A) a2. Space Station</li> </ul>	<ul> <li>b.</li> <li>b1. Application for License of New Station</li> <li>b2. Application for Registration of New Domestic Receive–Only Station</li> <li>(N/A) b3. Amendment to a Pending Application</li> <li>(N/A) b4. Modification of License or Registration</li> <li>(N/A) b5. Assignment of License or Registration</li> <li>(N/A) b6. Transfer of Control of License or Registration</li> <li>(N/A) b7. Notification of Minor Modification</li> <li>(N/A) b8. Application for License of New Receive–Only Station Using Non–U.S. Licensed</li> <li>Satellite</li> <li>(N/A) b9. Letter of Intent to Use Non–U.S. Licensed Satellite to Provide Service in the United</li> <li>States</li> <li>b10. Other (Please specify)</li> <li>b11. Application for Earth Station to Access a Non–U.S.satellite Not Currently Authorized to</li> <li>Provide the Proposed Service in the Proposed Frequencies in the United States.</li> </ul>
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<ul> <li>17c. Is a fee submitted with this application</li> <li>If Yes, complete and attach FCC Form</li> <li>Governmental Entity</li> <li>Other(please explain):</li> </ul>	159. If No, indicate reason for fee exemption (s	ee 47 C.F.R.Section 1.1114).
17d.		
Fee Classification BAX – Fixed Satellite T Station	ransmit/Receive Earth	
<ul><li>18. If this filing is in reference to an existing station, enter:</li><li>(a) Call sign of station: Not Applicable</li></ul>	<ul><li>19. If this filing is an amendment to a pending a</li><li>(a) Date pending application was filed:</li><li>Not Applicable</li></ul>	pplication enter: (b) File number of pending application: Not Applicable

## TYPE 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) Launch & Early Orbit Support

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	Using Non–U.S. licensed satellites
23. If applicant is providing INTERNATIONAL COMMON CARRIER s 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 a	pplicable 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: 2025 Frequency Upper: 2290	

#### 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
o c. 12/14 GHz VSAT Network
O 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

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.

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 ● No O N/A

No No

31. Is the applicant a corporation organized under the laws of any foreign government?	O Yes	● 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	● <sup>No</sup>	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	No 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.			

# 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
	EPS Metops Waiver

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.	O 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.	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 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	● 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.	O Yes	lo No

<ul> <li>a. By checking Yes, the undersigned certifies, that neither applicant nor any other party to the application is abject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti–Drug Act of 988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 7 CFR 1.2002(b) for the meaning of "party to the application" for these purposes.</li> </ul>	• Yes	O No
2a. Does the applicant intend to use a non–U.S. licensed satellite to provide service in the United States? If Yes, nswer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No, roceed to question 43.	O Yes	● No
nswer 42b and attach an exhibit providing the information specified in 47 C.F.R. 25.137, as appropriate. If No,		

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.)

USN's ground station in Hawaii will be used to assist Telespazio during launch & early orbit operation of Eumetsat's (EU) METOP2 (EPS) spacecraft

EPS SBE letter

#### 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 applicable response.)

Individual

O Unincorporated Association

- Partnership
- Corporation
- Governmental Entity
- Other (please specify)

45. Name of Person Signing Joanne Greet Swank		46. Title of Person Signing Program Compliance Manager		
7. Please supply any need attachments.				
Attachment 1:	Attachment 2:	Attachment 3:		
		JNISHABLE BY FINE AND / OR IMPRISONMEN TION OF ANY STATION AUTHORIZATION	T	
		TURE (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:	USHI01	E5. Call Sign:	E060022		
E2: Contact Name	Joanne Greet Swank	E6. Phone Number:	808–929–8069		
E3. Street:	93–1704 South Point Road	E7. City:	Naalehu		
		E8. County:	Ka'u		
E4. State	HI	E9. Zip Code	96772		
E10. Area of Opera	tion:	Region 2 Hawaii			
E11. Latitude:	19 °0 '50.3 "N				
E12. Longitude:	155 °39 '46.6 "W				
E13. Lat/Lon Coord	linates are:	ONAD-27	<b>()</b> NAD-83	<b>O</b> N/A	
E14. Site Elevation (AMSL):		378.0 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.	O Yes	O <sup>No</sup>	● <sup>N/A</sup>
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 <sup>No</sup>	● N/A
E17. Is the facility operated by remote control? If YES, provide the location and telephone number of the control point.	O Yes	۲	No

E18. Is frequency coordination required? If YES, attach a frequency coordination report as		Yes	<b>0</b> 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	● <sup>N</sup>	Чо
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.	0	Yes	• N	10

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

E21. Common Name: METOP2	E22. ITU Name: METOP2
E23. Orbit Location: NGSO	E24. Country: Italy
POINTS OF COMMUNICATION (Destination Points)	
E25. Site Identifier: USHI01	
E26. Common Name:	E27. Country:USA

# ANTENNA

Site ID	E28. Antenna Id	E29. Quantity	E30. Manufacturer	E31. Model	Size <meters></meters>	E41/42. Antenna GainTransmint and/or Recieve (dBi at GHz)
USHI01	USHI01	1	Datron	1453	13.0	45.9 dBi at 2.100
						46.9 dBi at 2.200

Id	E33/34. Diameter Minor/Major (meters)	E35. Above Ground Level  (meters)		0	Input Power at antenna flange 	Maximum Antenna Height	E40. Total EIRP for al carriers  (dBW)
USHI01	13.0/13.0	20.0	398.0	3.0	200.0	0.0	68.9

# FREQUENCY

E28. Antenna Id	E43/44. Frequency Bands	E45. T/R Mode			E48. Maximum EIRP per Carrier	E49. Maximum
	(MHz)		L,R)	Designator		Carrier
						(dBW/4kHz)

USHI01	2053.458 2053.458	Т	Right Hand Circular	228KG2D	68.6	51.0
E50. Modulation entirety.)	and Services (If the service s	he complete descripti	on does not appear in	this box, please go to	o the end of the form	to view it in its
1000 BPS i	s BPSK on 8 KH	Iz subcarrier				
USHI01	2230.000 2230.000	R	Right Hand Circular	228KG2D	0.0	0.0
E50. Modulation entirety.)	and Services (If the	he complete descripti	on does not appear in	this box, please go to	o the end of the form	to view it in its
4096 PBS F	PCM/BPSK modula	ated onto 65.54	6 KHz subcarri	er		

# FREQUENCY COORDINATION

E28. Antenna Id	E51. Satellite Orbit Type	Frequency	E54/55. Range of Satellite Arc E/W Limit	Station Azimuth Angle	E57. Antenna Elevation Angle Eastern Limit	Station Azimuth Angle	Antenna	E60. Maximum EIRP Density toward the Horizon (dBW/4kHz)
USHI01	Non– Geostationary	2230.000 2230.000	0.0/ 360.0	0.0	5.0	360.0	5.0	0.0

	Non– Geostationary	2053.458 2053.458	0.0/ 360.0	0.0		5.0	360.0	5.0	9.5		
REMOTE CONTROL POINT LOCATION											
E61. Call Si	E61. Call Sign E65. Phone Number										
	se enter the calls ch this application			t the							
E62. Street A	Address										
E63. City			E67. County	y			E64/68.		E66. Zip Code		
							State/Count /	ry			

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