

Approved by UNIB
Rev. 0478

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:
Spainsat LEOP STA

1. Applicant

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

Conditions Attached



File # SES-STA-20060210-00224

Call Sign E060022 **Order Date** 2/16/06
(or other identifier)

From 2/21/06 **Term/Setup** **For** 3/21/06

Approved: Jeannette R. Spriggs

Attachment

SES-STA-20060210-00224 Call Sign E060022

Universal Space Network, Inc.'s application for Special Temporary Authority is GRANTED WITH CONDITIONS.

1. All operations shall be on an unprotected, non-interference basis.
2. All operations shall expire no later than 10-days from the date of launch.
3. All operations shall be limited to launch and early orbit.
4. Point of Contact for Operations is 949-863-1848 or 215-620-1123 and must be available while the frequencies are in use.

TYPE OF SERVICE

20. NATURE OF SERVICE: This filing is for an authorization to provide or use the following type(s) of service(s): Place an "X" in the box(es) next to all that apply.

a. Fixed Satellite c. Radiodetermination Satellite e. Direct to Home Fixed Satellite
 b. Mobile Satellite d. Earth Exploration Satellite f. Digital Audio Radio Service g. Other (please specify) Launch & early orbit support (LEOP)

21. STATUS: Place an "X" in the box next to the applicable status. Mark only one box.

a. Common Carrier b. Non-Common Carrier

22. If earth station applicant, place an "X" in the box(es) next to all that apply.

a. Using U.S. licensed satellites b. Using Non-U.S. licensed satellites

23. If applicant is providing INTERNATIONAL COMMON CARRIER service, see instructions regarding Sec. 214 filings. Mark only one box. Are these facilities:

a. Connected to the Public Switched Network b. Not connected to the Public Switched Network

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) S-band

TYPE OF STATION

25. CLASS OF STATION: Place an "X" in the box next to the class of station that applies. Mark only one box.

a. Fixed Earth Station b. Temporary-Fixed Earth Station c. 12/14 GHz VSAT Network d. Mobile Earth Station e. Space Station f. Other (Specify) _____

If space station applicant, go to Question 27.

26. TYPE OF EARTH STATION FACILITY Mark only one box.

a. Transmit/Receive b. Transmit-Only c. Receive-Only

PURPOSE OF MODIFICATION OR AMENDMENT

27. The purpose of this proposed modification or amendment 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 assigned frequency(ies)
 h -- authorization to add Points of Communication (satellites & countries)
 i -- authorization to change Points of Communication (satellites & countries)
 j -- authorization for facilities for which environmental assessment and radiation hazard reporting is required
 k -- Other (Please Specify) N/A

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? YES NO

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 as an exhibit for new transmitting facilities, major modifications, or major amendments. Refer to OET Bulletin 65.

ALIEN OWNERSHIP

29. Is the applicant a foreign government or the representative of any foreign government?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
30. Is the applicant an alien or the representative of an alien?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
31. Is the applicant a corporation organized under the laws of any foreign government?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
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?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
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?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
34. If any answer to questions 29, 30, 31, 32 and/or 33 is Yes, attach as an exhibit, the 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.	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
36. Has the applicant or any party to this application 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 explanation of the circumstances.	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
37. Has the applicant, or any party to this application, 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 explanation of the circumstances.	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> 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 the circumstances.	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> 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 exhibit, an explanation of the circumstances.	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
40. If the applicant is a corporation and is applying for a space station license, attach as an exhibit the names, addresses, and citizenship of those stockholders owning of 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 the 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.	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> 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.	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
42b. What administration has licensed or is in the process of licensing the space station? If no license will be issued, what administration has coordinated or is in the process of coordinating the space station? <u>International Telecommunication Union</u>		

February 10, 2006

Mr. Frank Peace
Satellite Engineering Branch
Satellite and Radiocommunications Policy Division
International Bureau
Federal Communications Commission
Room 7A-430
445 12th Street, S.W.
Washington, DC 20544

Subject: Universal Space Network
Request for Special Temporary Authority for SPAINSAT

Dear Mr. Peace,

With this letter, Universal Space Network, Inc. (USN) respectfully submits this formal application for Special Temporary Authority (STA) to provide telemetry and telecommand data delivery and control support in S-band during the launch and early orbit operations (LEOP) of the SPAINSAT spacecraft.

This letter is being sent, along with the required FCC Form 159 and accompanying MasterCard charge for the appropriate amount of \$155.00, as required by the FCC as outlined the FCC booklet "International and Satellite Services Fee Filing Guide."

The launch is currently scheduled for February 21st on an Ariane 5 ECA rocket with a cryogenic upper stage to launch the SPAINSAT communications spacecraft for the Spanish Ministry of Defense from Kourou in French Guyana. SPAINSAT is co-manifest with Eutelsat's Hot Bird 7A direct-to-home TV broadcasting satellite. USN will support the SPAINSAT spacecraft from approximately 20 minutes after launch thru geo-transfer orbit parking.

USN has been contracted to provide orbit-raising telemetry, tracking, and tele-commanding support to Space Systems / Loral in Palo Alto, California. USN is seeking authorization to provide this support through its South Point, Hawaii earth station.

In requesting STA for the above, USN knows that its proposed USN earth station operations are required to be conducted on an unprotected, non-interference basis to government operations.

USN understands that the STA it is asking to be granted would authorize USN to operate a 13-meter fixed earth station at Naalehu, Hawaii to be used to provide launch telecommand and telemetry to SPAINSAT.

USN, headquartered at 1501 Quail Street, Suite 103, Newport Beach, CA 92660, owns and operates a network of satellite earth stations that provide telemetry, tracking, and control (telecommanding) ("TT&C") to commercial and government satellite operators. USN provides

customers with access to a TT&C network linking the customer's facilities to the customer's satellite assets in space. USN maintains strategically located remote ground stations around the earth and a permanent, 7 day-a-week, 24 hours-a-day communications headquarters.

USN is the owner and operator of a fixed satellite earth station located at 93-1704 South Point Road, Naalehu, Hawaii 96772-0842, latitude 19 degrees 00' 50.3" N, longitude 155 degrees 39' 46.6" W (NAD-83), Site Identifier USHI01. The earth station has a single Datron 1453 antenna, size 13 meters, located 20 meters above ground level and 378 meters above sea level, with antenna gain on transmit of 45.9dBi @ 2062.0 Mhz and on receive of 46.9dBi @ 2239 Mhz. The uplink frequency for the SPAINSAT spacecraft is 2062.0 Mhz with an EIRP required of 68dBW, and the required downlink frequency is 2239.276 Mhz; uplink polarization is RCP and downlink polarization is LCP. Telecommand/uplink is PM modulation and the downlink is BPSK modulation.

Technical information for the satellite earth station is set forth in Exhibit 1, which is a filled out copy of FCC form 312.

Your assistance in this matter is greatly appreciated.

Sincerely,

Joanne Greet-Swank
Program Compliance Manager
Universal Space Network, Inc.
215/328-9130
jswank@uspacenet.com