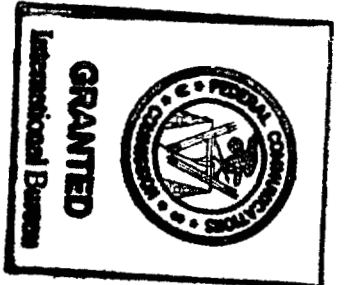


AMSC-1 SAT-STA-20040623-00121 IB2004001238
Mobile Satellite Ventures Subsidiary LLC
AMSC-1

Date & Time Filed: Jun 23 2004 2:29:08:166PM
File Number: SAT-STA-20040623-00121
Callsign:



FEDERAL COMMUNICATIONS COMMISSION
APPLICATION FOR SPACE STATION SPECIAL TEMPORARY AUTHORITY
FOR OFFICIAL USE ONLY

APPLICANT INFORMATION

Enter a description of this application to identify it on the main menu:
60-day STA to locate AMSC-1 at 100.95W

I. Applicant

Name:	Mobile Satellite Ventures Subsidiary LLC	Phone Number:	703-390-2700
DBA Name:		Fax Number:	703-390-2770
Street:	10802 Parkridge Blvd	E-Mail:	llevin@msvp.com
City:	Reston	State:	VA
Country:	USA	Zipcode:	20191
Attention:	Lon C. Levin		

File # SAT-STA-20040623-00121
Call Sign AMSC-1 with a 60-day conditional
(or other identifier) August 9, 2004
From 8/9/2004 to 10/18/2004
Approved by [Signature] Mobile Satellite
60-day Conditional Temporary Authority
Approved by OMB 3060-0678

Attachment
Conditions of Authorization
August 9, 2004

1. Action on this application is without prejudice to possible enforcement action in connection with operations of the AMSC-1 satellite prior to this action.

2. Contact	
Name: Bruce Jacobs	Phone Number: 202-663-8077
Company: Shaw Pittman LLP	Fax Number: 202-663-8007
Street: 2300 N Street, NW	E-Mail: bruce.jacobs@shawpittman.com
City: Washington	State: DC
Country: USA	Zipcode: 20037 -1128
Contact Title:	Relationship: Legal Counsel
(If your application is related to an application filed with the Commission, enter the file number below.)	
3. Reference File Number SATMOD2004062300120	
4a. Is a fee submitted with this application?	
<input checked="" type="radio"/> If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114). <input type="radio"/> Governmental Entity <input type="radio"/> Noncommercial educational licensee <input type="radio"/> Other (please explain):	
4b. Fee Classification CRY – Space Station (Geostationary)	
5. Type Request	
<input checked="" type="radio"/> Change Station Location <input type="radio"/> Extend Expiration Date <input type="radio"/> Other	
6. Temporary Orbit Location 100.95W	7. Requested Extended Expiration Date

8. Description (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)

MSV hereby files this request for a 60-day Special Temporary Authority to locate AMSC-1 at the 100.95W orbital location. 47 CFR sec. 25.120(b)(3). On this date, MSV has filed an application for permanent authority to locate AMSC-1 at the 100.95W orbital location. See File No. SAT-MOD-20040623-00120 (June 23, 2004).

9. 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 No

10. Name of Person Signing
Lon C. Levin

11. Title of Person Signing
Vice President

12. Please supply any need attachments.

Attachment 1: Description

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).

FCC NOTICE REQUIRED BY THE PAPERWORK REDUCTION ACT

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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.

Technical Appendix

Introduction. Mobile Satellite Ventures Subsidiary LLC (“MSV”) is licensed to operate a Mobile Satellite Service (“MSS”) satellite (AMSC-1) at 101°W.¹ The satellite uses L-band frequencies for service links (1530-1559 MHz (downlink); 1631.5-1660.5 MHz (uplink)) and Planned Ku-band frequencies for feeder links (10.75-10.95 GHz (downlink); 13.0-13.15 GHz & 13.2-13.25 GHz (uplink)).

MSV hereby files this request for a 60-day Special Temporary Authority (“STA”) to locate AMSC-1 at the 100.95°WL orbital location. 47 C.F.R. § 25.120(b)(3). On this date, MSV has filed an application for permanent authority to locate AMSC-1 at the 100.95°WL orbital location. *See* File No. SAT-MOD-20040623-00120 (June 23, 2004).

Grant of this STA will have no impact on any authorized system parameters for AMSC-1 or on L-band coordination.

Satellite Antenna Gain Contours. The L-band and Planned Ku-band satellite antenna gain contours and coverage areas from the 100.95°WL orbital location remain the same as those currently specified for the 101.00°WL orbital location. Accordingly, new beam gain contours are not being submitted with this application. The satellite antenna boresight locations will also remain the same.

Power Flux Density Levels. L-band and Planned Ku-band power flux density levels on the Earth’s surface from the 100.95°WL orbital location are the same as those corresponding to operation from the 101.00°WL orbital location. Accordingly, revised power flux density levels are not being submitted with this application.

Interference Analysis. In both the L-band and Planned Ku-band, the nearest operational satellite to AMSC-1 is MSAT-1 at 106.5°WL, licensed by Industry Canada to Mobile Satellite Ventures (Canada) Inc (“MSV Canada”). The 100.95°WL orbital location is farther away than the 101.00°WL orbital location from MSAT-1. Operation of AMSC-1 at 100.95°WL will have no impact on the existing interference environment.

In the L-band, MSV shares spectrum with MSV Canada, Inmarsat, TMSAT, and Telecomm. All of those systems use Mobile Earth Terminals (METs) with low gain antennas having such wide beams that, for many terminal types, 0 dB isolation is assumed. The spectrum is shared mainly by using different portions of the band for each system. Since antenna discrimination is not used to achieve isolation, the precise location of the satellite has no impact on interference among the systems.

¹ *Memorandum Opinion, Order and Authorization*, 4 FCC Rcd 6041 (1989) (“*Licensing Order*”); *remanded by Aeronautical Radio, Inc. v. FCC*, 928 F.2d 428 (D.C. Cir. 1991); *Final Decision on Remand*, 7 FCC Rcd 266 (1992); *aff’d*, *Aeronautical Radio, Inc. v. FCC*, 983 F.2d 275 (D.C. Cir. 1993); *see also AMSC Subsidiary Corporation, Memorandum Opinion and Order*, 8 FCC Rcd 4040 (1993) (“*License Modification Order*”).

In the Planned Ku-band, the signal received at the MSAT-1 feeder link Earth station site in Ottawa, Ontario depends on the characteristics of that station's antenna. At worst, the gain roll-off of that antenna is bounded by $32-29\log(\theta)$. With a separation in longitude of 5.5° , a 0.05° change results in an interference reduction of about 0.1 dB.

Link Budget. Because the location of AMSC-1 at 100.95°WL will not have an impact on the existing interference environment and there will be no changes in the path between AMSC-1 and its associated METs, there is no change to the existing link budgets.

Schedule S Submission. As discussed above, the proposed operation of AMSC-1 at 100.95°WL has no impact on any authorized system parameters for AMSC-1 and will not impact the existing interference environment. The information requested in Schedule S is thus duplicative of the information already on file for AMSC-1 at the Commission. Moreover, similar applications have been filed without a Schedule S and have been placed on *Public Notice*² and subsequently granted.³ Accordingly, MSV is not submitting a Schedule S with this application.⁴

² See, e.g., Application of PanAmSat, File No. SAT-MOD-20040405-00075 (April 5, 2004) (requesting modification of license for C-band satellite to specify orbital location of 125.05°WL rather than 125.00°WL); *Public Notice*, Report No. SAT-00211 (April 23, 2004).

³ *Public Notice*, Report No. SAT-00222; DA No. 04-1746 (June 18, 2004) (granting PanAmSat application to modify license for C-band satellite to specify orbital location of 125.05°WL rather than 125.00°WL).

⁴ To the extent necessary, MSV requests a waiver of Section 25.114 of the Commission's rules which requires a Schedule S to be submitted with an application to modify a space station license. See 47 C.F.R. §1.3; see also *WAIT Radio v. FCC*, 418 F.2d 1153 (D.C. Cir. 1969). As discussed above, the good cause for this waiver is that the information required by Schedule S is already on file with the Commission and will not change as a result of operation of AMSC-1 at the 100.95°WL orbital location rather than the currently authorized 101.00°WL orbital location

CERTIFICATION

I, Richard O. Evans, Senior Engineer of Mobile Satellite Ventures Subsidiary LLC (“MSV”), certify under penalty of perjury that:

I am the technically qualified person with overall responsibility for preparation of the information contained in the foregoing. I am familiar with the requirements of the Commission’s rules, and the information contained therein is true and correct.

Executed on June 23, 2004

/s/Richard O. Evans
Richard O. Evans
Senior Engineer