

Approved by OMB  
3060-0678

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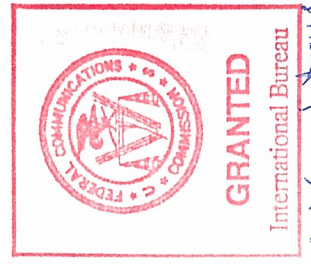
FCC APPLICATION FOR SPACE AND EARTH STATION:MOD OR AMD - MAIN FORM	FCC Use Only
FCC 312 MAIN FORM FOR OFFICIAL USE ONLY	

**APPLICANT INFORMATION**

Enter a description of this application to identify it on the main menu:  
Minor Amendment to MSV-1 Modification Application

1-8. Legal Name of Applicant			
<b>Name:</b>	Mobile Satellite Ventures Subsidiary LLC	<b>Phone Number:</b>	703-390-2730
<b>DBA Name:</b>		<b>Fax Number:</b>	703-390-2770
<b>Street:</b>	10802 Parkridge Blvd	<b>E-Mail:</b>	jmanner@msvlp.com
<b>City:</b>	Reston	<b>State:</b>	VA
<b>Country:</b>	USA	<b>Zipcode:</b>	20191 -
<b>Attention:</b>	Jennifer A Manner		

see SAT-MOD-20070117-00012



File # SAT-AMD-20070508-00069  
Call Sign 52358 Grant Date 11/14/08  
(or other identifier) Term Dates  
From To  
Approved: [Signature]

**Attachment**  
**Mobile Satellite Ventures Subsidiary LLC**  
**Application to Modify License for MSV-1 Space Station**  
**IBFS File Nos. SAT-MOD-20070117-00012 and SAT-AMD-20070508-00069**  
**Call Sign: S2358**  
**November 14, 2008**

The application of Mobile Satellite Ventures Subsidiary LLC (MSV) to modify its license for operation of the MSV-1 space station, IBFS File No. SAT-MOD-20070117-00012, as amended by SAT-AMD-20070508-00069, IS GRANTED. Accordingly, the license for the MSV-1 space station – which authorizes operation at 101.3° W.L. using spectrum in the 1525-1544/1545-1559 MHz (space-to-Earth) and 1626.5-1645.5/1646.5-1660.5 MHz (Earth-to-space) frequency bands for service links and using the 10.7-10.95/11.2-11.45 GHz (space-to-Earth) and 12.75-13.25 GHz (Earth-to-space) bands for feeder links and telemetry, tracking, and control (TT&C) – IS MODIFIED as proposed in the above-captioned amended application. Accordingly, *inter alia*, MSV is authorized to transmit command signals to MSV-1 at 12.751 GHz and 13.249 GHz, transmit telemetry signals from MSV-1 at 11.201 GHz and 11.202 GHz, and transmit power control beacons from MSV-1 at 11446.25 MHz and 11448.75 MHz.

1. The modified authorization for MSV-1 is subject to the previously-established license conditions, except that the condition in Paragraph 65 of the original MSV-1 Order and Authorization, 20 FCC Rcd 9752 (Int'l Bur. 2005), is revised to permit feeder-link and TT&C transmissions between MSV-1 and two gateway earth stations to be located in California and Texas, rather than in Virginia.
2. MSV's request for waiver of Section 25.210(i) of the Commission's rules, 47 C.F.R. § 25.210(i), IS GRANTED. Section 25.210(i) directs, "Space station antennas in the Fixed-Satellite Service must be designed to provide a cross-polarization isolation such that the ratio of the on axis co-polar gain to the crosspolar gain of the antenna in the assigned frequency band shall be at least 30 dB within its primary coverage area." MSV indicates that MSV-1 will operate with a 25 dB cross-polarization isolation in the Appendix 30B Ku-band with the primary coverage area of the antenna for feeder link, command, telemetry, and power control beam operations. MSV indicates that there is no other satellite using these bands within 5 degrees other than MSV's AMSC-1 satellite. Accordingly, we find that these shortfalls will not produce a significant increase in interference, except to MSV itself, and will not adversely affect any other U.S. or foreign-licensed operator serving the United States. This waiver is granted with the condition that operation of the MSV-1 satellite in the Appendix 30B Ku-band shall not cause more interference to U.S. services being provided by any authorized system that is two-degree spacing compliant than would be caused if such operation were in compliance with Section 25.210(i). Further, MSV shall not claim protection against interference to its operations caused by U.S. services being provided by two-degree spacing compliant satellites if such interference results from the MSV-1 satellite's noncompliance with Section 25.210(i) of the Commission's rules, 47 C.F.R. § 25.210(i).
3. MSV's request for partial waiver of Section 25.114(c)(4)(ii), (c)(4)(iii), (c)(4)(v) and (c)(4)(vi) of the Commission's rules, 47 C.F.R. § 25.114(c)(4)(ii), (c)(4)(iii), and (c)(4)(v) (c)(4)(vi), IS GRANTED. In particular, MSV seeks to provide representative configurations in Schedule S, Tables S6 through S10 and Table S13, in lieu of all the information required by the rules. MSV indicates that the satellite will utilize ground based beam forming and, accordingly, will have the ability to form up to 500 L band spot beams, or to form a large number of L band spot beams in a portion of MSV's spectrum

and simultaneously form a smaller number of larger beams in another portion of the spectrum. Given the great number of possible MSV-1 spot beam configurations and transponders, we find that requiring submission of exhaustive specifications would be unduly burdensome in this instance and the information provided by MSV as representative taken together with the other information in the application as a whole is acceptable in this instance.

4. This action is taken pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. § 0.261, and is effective immediately. Petitions for reconsideration under Section 1.106 or applications for review under Section 1.115 of the Commission's rules, 47 C.F.R. §§ 1.106 and 1.115, may be filed within 30 days of the date of the public notice announcing this action.



with conditions

SAT-AMD-20070508-00069  
File # SAT-MOD-20070117-00012

Call Sign S2358 Grant Date 11/14/08  
(or other identifier)

Term Dates  
From \_\_\_\_\_ To: \_\_\_\_\_

Approved: [Signature]

9-16. Name of Contact Representative

<b>Name:</b>	Bruce D. Jacobs	<b>Phone Number:</b>	202-663-8077
<b>Company:</b>	Pillsbury Winthrop Shaw Pittman LLP	<b>Fax Number:</b>	202-663-8007
<b>Street:</b>	2300 N ST NW	<b>E-Mail:</b>	bruce.jacobs@pillsburylaw.com
<b>City:</b>	Washington	<b>State:</b>	DC
<b>Country:</b>	USA	<b>Zipcode:</b>	20037-1128
<b>Attention:</b>		<b>Relationship:</b>	Legal Counsel

CLASSIFICATION OF FILING

<p>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.</p> <p><input type="radio"/> a1. Earth Station</p> <p><input checked="" type="radio"/> a2. Space Station</p>	<p>(N/A) b1. Application for License of New Station  (N/A) b2. Application for Registration of New Domestic Receive-Only Station</p> <p><input checked="" type="radio"/> b3. Amendment to a Pending Application</p> <p><input type="radio"/> b4. Modification of License or Registration</p> <p>b5. Assignment of License or Registration</p> <p>b6. Transfer of Control of License or Registration</p> <p><input type="radio"/> b7. Notification of Minor Modification</p> <p>(N/A) b8. Application for License of New Receive-Only Station Using Non-U.S. Licensed Satellite</p> <p>(N/A) b9. Letter of Intent to Use Non-U.S. Licensed Satellite to Provide Service in the United States</p> <p>(N/A) b10. Other (Please specify)</p> <p>(N/A) 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</p> <p>(N/A) b12. Application for Database Entry</p> <p><input type="radio"/> b13. Amendment to a Pending Database Entry Application</p> <p><input type="radio"/> b14. Modification of Database Entry</p>
<p>17c. Is a fee submitted with this application?</p> <p><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).</p> <p><input type="radio"/> Governmental Entity</p> <p><input type="radio"/> Noncommercial educational licensee</p> <p><input type="radio"/> Other (please explain):</p>	
<p>17d.</p> <p>Fee Classification CWY – Space Station Amendment (Geostationary)</p>	

<p>18. If this filing is in reference to an existing station, enter:</p> <p>(a) Call sign of station: S2358</p>	<p>19. If this filing is an amendment to a pending application enter both fields, if this filing is a modification please enter only the file number:</p> <p>(a) Date pending application was filed: 01/17/2007</p> <p>(b) File number: SATMOD2007011700012</p>
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**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)

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 service, see instructions regarding Sec. 214 filings. Choose one. Are these facilities:

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 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:    Frequency Upper: (Please specify additional 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 & countries)
- j --- authorization to change Points of Communication (satellites & countries)
- k --- authorization for facilities for which environmental assessment and radiation hazard reporting is required
- l --- 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

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?

Yes  No

30. Is the applicant an alien or the representative of an alien?

Yes  No  N/A

31. Is the applicant a corporation organized under the laws of any foreign government?

Yes  No  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  No  N/A

<p>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?</p>	<p> <input type="radio"/> Yes    <input type="radio"/> No    <input checked="" type="radio"/> N/A </p>
<p>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.</p>	

**BASIC QUALIFICATIONS**

<p>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.</p>	<p> <input type="radio"/> Yes    <input checked="" type="radio"/> No </p>
<p>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 explanation of circumstances.</p>	<p> <input type="radio"/> Yes    <input checked="" type="radio"/> No </p>

<p>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 explanation of circumstances.</p>	<p style="text-align: right;"> <input type="radio"/> Yes      <input checked="" type="radio"/> No </p>
<p>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</p>	<p style="text-align: right;"> <input type="radio"/> Yes      <input checked="" type="radio"/> No </p>
<p>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.</p>	<p style="text-align: right;"> <input type="radio"/> Yes      <input checked="" type="radio"/> No </p>
<p>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.</p>	

<p>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.</p>	<p style="text-align: right;"> <input checked="" type="radio"/> Yes      <input type="radio"/> No         </p>
<p>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.</p>	<p style="text-align: right;"> <input type="radio"/> Yes      <input checked="" type="radio"/> No         </p> <p style="text-align: right;">Noise Budgets (Rev.)</p>
<p>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?</p>	
<p>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.)</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>With this minor amendment, MSV hereby corrects entries made on pages 15 and 41 of the Narrative and Table S9 of the Schedule S pertaining to the Command frequencies for the MSV-1 satellite. Because this change does not increase the potential for interference, does not request additional frequencies, does not request a new orbital location, and</p> </div> <p>Narrative</p>	

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.

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.

C

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

45. Name of Person Signing  
Jennifer A. Manner

46. Title of Person Signing  
Vice President, Regulatory Affairs

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).

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