

**FEDERAL COMMUNICATIONS COMMISSION**  
**Office of Engineering and Technology**  
**Electromagnetic Compatibility Division**

March 7, 2006

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Re: Hughes Network Systems Sub, LLC  
Call Sign WD2XJU  
Application for Modification of  
Experimental License  
File No. 0137-EX-ML-2005  
(Granted November 16, 2005)

Mobile Satellite Ventures Subsidiary LLC  
Informal Request for Reconsideration  
filed November 28, 2005

Dear Counsel:

On November 16, 2005, the Experimental Licensing Branch granted the above-referenced application of Hughes Network Systems Sub, LLC ("HNS") for modification of the Experimental Radio license of Station WD2XJU. Among other things, the grant authorizes HNS to modify the station's frequency plan to enable its terminals to use frequencies in the 1626.5 – 1650.5 MHz band ("L band") aboard Inmarsat-4 satellites. On November 28, 2005, Mobile Satellite Ventures Subsidiary LLC ("MSV") filed an informal request for reconsideration of the grant of this application. On December 23, 2005, HNS filed an *ex parte* letter<sup>1</sup> that clarified the specific frequency segments of the L-band in which it intends to test its equipment. Subsequently, on February 27, 2006, HNS amended its application to revise further the specific L-band frequency segments that it proposes to use for testing its broadband ("RBGAN") terminals aboard Inmarsat-4 satellites.

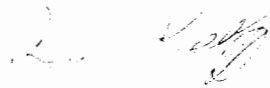
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<sup>1</sup> The certificate of service attached to the letter indicates that a copy of the letter was properly served upon MSV.

Based on our review of the HNS application and after consultation with the International Bureau, we find that grant of the HNS application with the following conditions would be consistent with the public interest. HNS shall assure that adequate guard bands are provided between the band edges of its carriers and the band edges of MSV's operations in order to preclude the possibility of unacceptable interference to MSV's operations. Neither the aggregate uplink EIRP densities in the direction of any other L-band satellite serving the United States, nor the downlink EIRP densities at any geographical point within the United States, shall be increased as a result of the addition of experimental RBGAN operations on Inmarsat-4 satellites over those densities previously authorized on the Inmarsat-3 satellites. The grant to HNS is on an unprotected basis, and, like all Experimental Radio Service authorizations, is conditioned on not causing any harmful interference to other grantees.<sup>2</sup> We are also requiring HNS to notify MSV prior to commencing experimental operations and to provide MSV with a point of contact for this purpose.<sup>3</sup> Finally, we point out that HNS's operations are required to comply with the general limitations on use set forth in Section 5.111 of the Commission's Rules.<sup>4</sup>

Accordingly, IT IS ORDERED that the November 28, 2005 informal request for reconsideration filed by Mobile Satellite Ventures Subsidiary LLC IS DENIED, that the authorization for Station WD2XJU (File No. 0137-EX-ML-2005) IS MODIFIED in accordance with the terms of this letter, and that Hughes Network Systems Sub, LLC shall notify MSV prior to commencing operations and identify its point of contact. A modified station license for Station WD2XJU will be issued to HNS under separate cover.

Sincerely,



Ira Keltz  
Chief,  
Electromagnetic Compatibility Division

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<sup>2</sup> See Section 5.85(c) of the Commission's Rules, 47 C.F.R. § 5.85(c).

<sup>3</sup> See Section 5.85(e) of the Commission's Rules, 47 C.F.R. § 5.85(e).

<sup>4</sup> 47 C.F.R. § 5.111 (limitations include, among other things, transmitting for the minimum practical time and using every precaution to ensure that emissions will not cause harmful interference). We need not address the general issues raised concerning the coordination of Inmarsat-4 satellites and spectrum sharing in the L-band, because these issues are properly within the purview of the International Bureau, where they are currently being considered. See, e.g., MSV Petition to Hold in Abeyance or to Grant with Conditions the Applications of Telenor Satellite, Inc. (File Nos. SES-LFS-20050930-01352, SES-AMD-20051111-01564, and ITC-214-20051005-00395), filed November 23, 2005.