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EX PARTE OR **DUPLICATE**

March 25, 2004

Via Hand Delivery
Ms. Marlene H. Dortch
Secretary
Federal Communications Commission
445 12th Street, S.W.
Washington, D.C. 20554

Received
MAR 31 2004
RECEIVED Entry Branch
International Bureau

MAR 25 2004

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY


Re: Mobile Satellite Ventures Subsidiary LLC
Ex Parte Presentation
IB Docket No. 01-185
File No. SAT-MOD-20031118-00333 (ATC application)
File No. SAT-AMD-20031118-00332 (ATC application)
File No. SES-MOD-20031118-01879 (ATC application)
File No. SAT-AMD-20040209-00014 (replacement satellite application)

Dear Ms. Dortch:

Mobile Satellite Ventures Subsidiary LLC ("MSV") hereby files the attached e-mail correspondence from Dr. Peter D. Karabinis, Vice President and Chief Technical Officer of MSV, to Paul Locke of the International Bureau dated March 24, 2004.

Please direct any questions regarding this matter to the undersigned.

Very truly yours,



David S. Koneczal

cc: Paul Locke

From: "Peter Karabinis" [pkarabinis@msvlp.com]
Sent: 03/24/2004 07:04 PM
To: <plocke@fcc.gov>; <edrocella@ntia.doc.gov>
Cc: Bruce Jacobs
Subject: Cancellation of ATC-Induced interference over MSV's Space Segment

Gentlemen, our interference canceller prototype is now working "over-the-air" on MSV's system. The simulated ATC interference signal is being launched from Canada over a first satellite cell, while the desired satellite signal is being launched from Reston VA over a second satellite cell. In the absence of the canceller, the level of interference can be increased until the degradation to the desired signal exceeds 200% Delta T/T (rendering the desired signal useless). With the canceller operative, the residual Delta T/T is maintained at less than 6% (and even becomes negative for small levels of interference due to maximal ratio combining of desired signal contributions of the adjacent satellite cell). The prototype is jointly achieving maximal ratio combining and interference cancellation. The two effects can be demonstrated separately. I invite you to visit MSV to witness this milestone event. Please feel free to invite anyone else from your respective organizations that may also be interested and/or skeptical. Hope to see you soon. (I and the team are here all the time so simply indicate your preference and we'll be here to accommodate).

Peter.