

**Filed Electronically**

June 11, 2008

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

**Re: IB Docket No. 95-91, WT Docket No. 07-293, GEN. Docket No. 90-357,  
RM No. 8610**

Dear Ms. Dortch:

In its comments in this docket XM Radio Inc. (“XM”) has demonstrated that its satellite radio system operates with a noise floor of -113 dBm/4 MHz. This reflects the challenges of reception of signals from satellites located many thousands of miles in space. *See* XM Comments at 11. In the attached letter Mitsumi Electronics Corporation (“Mitsumi”), an antenna developer and manufacturer who has supplied over 7 million XM antennas, verifies that its antennas made for SDARS applications “typically have a noise floor of -113 dBm or lower when measured in a 4 MHz bandwidth.” Mitsumi notes that “[p]roper performance of the SDARS antenna depends on this lower noise floor level to ensure operation with the limits of acceptance.”

If any questions arise in connection with this matter, please contact the undersigned.

Sincerely,

*/s/ James S. Blitz*  
James S. Blitz  
Vice President, Regulatory Counsel  
XM Radio Inc.  
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Washington, DC 20002  
(202) 380-4000

# MITSUMI



**MITSUMI ELECTRONICS CORPORATION**

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May 30, 2008

RE: Noise Floor Affect on SDARS Antennas

Mitsumi Electric Co., Ltd. is a global electronics company headquartered in Tama, Japan with a 54 year history of development of products for the radio industry. Mitsumi has developed and supplied Satellite Radio antennas for more than 10 years and has manufactured roughly 15 million units that are currently in use in markets in North America, Africa and India. We are a developer and manufacturer of an extensive line of RF products including antennas and transceivers for SDARS, GPS, Bluetooth, Wifi, Wimax, AM/FM and other technologies.

I am Pierre Wassom and am employed by Mitsumi as Senior Antenna Design Engineer since August 2007. I earned a Masters Degree in Electrical Engineering in 2001 from the Bochum University of Applied Sciences in Germany. My former employment at Delphi Electronics both in Germany and USA was that of RF Advanced Design Engineer and I held that position from 2001 until 2007. I have been designing RF antennas and receivers for that entire time and more specifically for SDARS applications since 2003.

Different than other technologies, SDARS has many areas that require extensive knowledge of properly designing antennas that can effectively receive signals from satellites positioned thousands of miles away from the mobile or stationary receiving antenna. Mitsumi has had significant success in understanding the challenges posed by SDARS and has been able to apply the knowledge gained there to the marketable products we manufacture that provide users with a positive experience using their SDARS equipment.

I and my colleagues at Mitsumi have reviewed the report from Florida Atlantic University and verify that the antennas made by Mitsumi for SDARS applications typically have a noise floor of -113 dBm or lower when measured in a 4 MHz bandwidth. Proper performance of the SDARS antenna depends on this noise floor level to ensure operation within the limits of acceptance.

Best regards,

Pierre L. Wassom  
Senior Antenna Design Engineer  
Mitsumi Electric Co. Ltd.