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May 6, 2010

By Hand Delivery

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

**Re: Raytheon BBN Technologies
Request for Experimental License
File No. 0206-EX-PL-2010**

Dear Ms. Dortch:

Sirius XM Radio Inc. ("Sirius XM") hereby comments on the above-referenced application of Raytheon BBN Technologies ("Raytheon") requesting an experimental license to conduct operations in the 2.3 GHz band in Cambridge, Massachusetts for nine months. Due to the need to prevent potential harmful interference to Sirius XM's operations, Sirius XM requests that the Office of Engineering and Technology ("OET") require Raytheon to adhere to existing Part 27 limits for these experimental operations.

Sirius XM is the licensee of Satellite Digital Audio Radio System ("SDARS") networks in the 2320-2332.5 MHz and 2332.5-2345 MHz band that provide a high-quality, continuous, multi-channel audio service throughout the United States. More than nineteen million customers currently subscribe to Sirius XM's service.

Sirius XM urges OET to require that any equipment operated in the 2.3 GHz band pursuant to the Raytheon application satisfy the out-of-band emission limits and other technical requirements for operations in the 2.3 GHz Wireless Communications Service band, as specified in Part 27 of the Commission's rules. Compliance with these technical restrictions is critical to avoiding harmful interference to Sirius XM's subscribers.

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If there are any questions regarding this matter, please contact the undersigned.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'K. A. Hastings', with a long horizontal flourish extending to the right.

Karis A. Hastings
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cc: James Burtle, FCC
John Kennedy, FCC
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David E. Petersen, Raytheon BBN Technologies (depeters@bbn.com)