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August 24, 2008

Marlene H. Dortch, Secretary
Federal Communications Commission
445 12th Street, SW
Washington, DC 20554

Re: ET Docket No. 04-186 – Ex parte Presentation

Dear Ms. Dortch,

On August 22, 2008 Dr. Michael Marcus and I met with FCC staff members at the FCC Laboratory. In attendance and participating by teleconference were: Julius Knapp, Geraldine Matise, Robert Weller, Hugh van Tuyl, Steven Jones, and Tom Phillips.

At the meeting we presented the attached slides. We also left at the Laboratory software and hardware that implements the beacon system should FCC wish to test it.

This system follows up on our July 6, 2008 comments where we outlined our approach for protecting wireless microphones: a combination of “safe harbors” for general wireless microphone users and beacons to protect *legal* users who need a large number of audio channels. The wireless microphone proponents have argued that beacons have not been tested in real life, although we are not aware of any statutory or regulatory precedents that such testing is required before a Commission decision.

We believe such a beacon system is a straightforward application of radio technology. To establish the feasibility of beacons we have developed and tested the beacon system provided herein. We are not advocating this system as the only technical implementation of wireless microphone beacons but as a feasibility demonstration to allow further progress in this proceeding.

In fact, we believe once the signal bandwidth, transmit power, and detection threshold are specified, most beacon waveforms will provide comparable performances. As a further note, most beacon proposals so far are “inband signaling” proposals where the presence of a beacon within a TV channel indicates the TV channel is not available. Out-of-band signaling in which a separate white space TV channel or any other communication

channel is used to carry the information about the TV channels occupied by wireless microphones, is also possible.

Please do not hesitate to contact me if you need additional information.

Sincerely,

/s/

Haiyun Tang, Ph. D.

cc: Julius Knapp
Geraldine Matise
Robert Weller
Hugh van Tuyl
Steven Jones
Thomas Phillips