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April 29, 2010

Ex Parte

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

Re: Unlicensed Operation in the TV Broadcast Bands, ET Docket Nos. 04-186 and 02-380; Amendment of Parts 15, 74, and 90 of the Commission's Rules Regarding Low Power Auxiliary Stations, WT Docket Nos. 08-166 and 08-167, ET Docket No. 10-24

Dear Ms. Dortch:

In Redmond, Washington on April 28, 2010, Dan Reed, Victor Bahl, Ranveer Chandra, Thomas Moscibroda, and Paula Boyd of Microsoft Corp. met with Charles Mathias, Legal Advisor to Commissioner Baker, Paul de Sa, Chief of the Office of Strategic Planning and Policy Analysis, and Zachary Katz, Deputy Chief of OSP.

During the meeting, Microsoft demonstrated its experimental campus-wide "White-Fi" network, which operates using TV white spaces spectrum.¹ In particular, Microsoft demonstrated how unlicensed white spaces spectrum enables innovative wireless broadband uses, including accessing high quality video content over medium-range distances, that are difficult to achieve using unlicensed spectrum at higher frequencies. Microsoft also demonstrated that licensed wireless microphone systems could be protected using database technology without disruption either to the wireless microphone or to white space operations.

¹ See, e.g., Comments of Microsoft Corp. on NBP Public Notice #6, GN Docket Nos. 09-47, 09-51, 09-137, at 9-10 (filed Nov. 13, 2009) (describing the White-Fi network).

Ms. Marlene H. Dortch

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Pursuant to the Commission's rules, a copy of this letter is being filed electronically in the above-referenced dockets. Please contact the undersigned if you have any questions concerning this submission.

Respectfully submitted,

/s/ Paula Boyd

Paula Boyd

Regulatory Counsel for Microsoft Corp.

cc: meeting participants