

Shared Spectrum Company

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June 14, 2004

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

Re: *Ex Parte Filing*

**ET Docket No. 03-108, Facilitating Opportunities for Flexible, Efficient,
and Reliable Spectrum Use Employing Cognitive Radio Technologies**

Dear Ms Dortch,

Pursuant to Section 1.1206 of the Commission's Rules, Shared Spectrum Company wishes to make publicly available in the above-referenced proceeding, the attached copy of a report on Spectrum Occupancy Measurements prepared in connection with the National Science Foundation's National Research Testbed (NRNRT) Project as an Ex Parte contribution.

The measurements were made by Shared Spectrum at two locations: on the roof of the National Science Foundation building in Arlington, Virginia and at Riverbend Park, Northern Virginia. The purpose was to determine the occupancy of different spectrum bands from 30 MHz to 2900 MHz at a "worst-case" location (good line-of-sight visibility in a dense urban area) and at a "baseline" rural location.

The attached report (separated into several parts to facilitate electronic transfer) describes the equipment used and the measured results. The data show that there are many spectrum bands with low occupancy. We believe that cognitive radios will be able to utilize these empty spectrum bands and, thus, greatly increase the capacity of wireless communications.

William J. Byrnes

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