University at Buffalo
The State University of New York

Supplemental Statement of University at Buffalo STA File Number 0143-EX-ST-2018

This application is for radio propagation experiments at the University at Buffalo campus on the frequency of 1050 GHz or 1.05 THz.

All experiments will be transmissions from antennas on the top of Davis Hall, a 3-story building. In all cases there will be a negative elevation angle so the propagation path will be below the horizontal plane. This will prevent any impact to passive satellites that might be using this band as well as any other cochannel users.

These tests will involve a 55 dBi antenna which will be pointed from time to time in various azimuthal angles.

While the transmitter power is low, the effective radiated power may pose some danger in a small volume in the immediate vicinity of the antenna. The antenna will be mounted on a roof top with restricted access and will be pointed away from the building so the small area of high fields will be in free space high off the ground and of no danger to humans or wildlife.

Will expect that all emissions will be contained within the university campus and will be at negative elevation angles.

We believe that this is "new technology" in the context of 47 U.S.C. § 157 and is thus entitled to the "burden test" of § 157(a). Not only does the Commission not have any licenses at frequencies this high, we suspect that all experimental licenses precedents at nearby frequencies are either data entry errors or general "DC to light" requests.

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