

**Supplemental Statement of
University at Buffalo
STA File Number 0516-EX-CN-2018**

This application is for radio propagation experiments at the University at Buffalo campus on the frequency of 1050 GHz or 1.05 THz. This license is a continuation of work begun under a previous STA File Number 1781-EX-ST-2017. A 2 year term is requested for continued experimentation on this cutting edge topic.

The University at Buffalo, SUNY, is an instrumentality of the New York State government.

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. While this location is close to the Canadian border, all transmission will either being pointed away from Canadian territory or will be in directions with terrain or building blockage.

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

Will expect that all emissions will be contained within the university campus.

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 are either data entry errors or general "DC to light" requests.

STOP BUZZER contact: Prof. Josep Jornet , (716) 645-1607, jmjornet@buffalo.edu