From: Brian Holman

To: Doug Young
Date: January 19, 2017

Subject: Request for Info - STA File #1697-EX-ST-2016

Message:

File # 1697-ex-st-2016
Georgia Institute of Technology

The application contains the worst-case ERP value using the signal generator maximum output and the peak antenna gain. After refining our link budget, the signal generator will be operated at a much lower peak output power of 1mW. The geometry of our test setup will also position the antenna to be pointing 30 degrees down from the horizon. Our peak ERP value on the horizon will be 0.575mW, given our antenna geometry and loss budget between transmitter and antenna. I have also sent antenna patterns in the vertical and horizontal plane to Doug Young (Douglas.Young@fcc.gov) for inspection of off axis ERP values.

Your duty cycle calculations of 50% are correct. If the average power will be too high considering the local FSS received earth stations nearby, please let us know and we’ll try to revise our test plan to accommodate accordingly.