

Exhibit That Answers Question 7 in Admin Data

The Wireless Information Technology (WIT) lab at University of Washington hereby requests an experimental license for research in wireless broadband enabling technologies.

The lab has several ongoing projects funded by the National Science Foundation (NSF 0086032: ITR: Heterogeneous System Integration in System-on-a-Chip Designs) and the Office of Naval Research (ONR N00014-00-1-0652: Intelligent MAC for next generation broadband wireless networks).

The main objective of the proposed experiment is to evaluate the performance of a newly developed modulation (OFDM: Orthogonal Frequency Division Multiplex) and coding scheme (LDPC: Low Density Parity Check) in a wide-area fading environment. Specifically, our plan is to transmit encoding data from the tower mounted at the top of the electrical engineering building, and measure the receiver bit-error rate at different locations in campus.

The transmitter side involves an encoder board residing inside a PC, an up-converter, a power amplifier (RFV470860-10DVBT), and an antenna.

The receiver side includes a decoding card that is connected to a standard notebook computer.

Outputs of the experiment will provide important insights regarding the applicability of the new techniques in future generation broadband wireless systems, including but not limited to, 4th generation cellular networks, military ad hoc networks, and multi-hop access networks.