

Modulating Signal Description

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Exhibit 6

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Orthogonal Frequency Division Multiplexing (“OFDM”) modulation is employed by the NextNet system to be utilized in the proposed system tests. The OFDM signal used by NextNet consists of 1024 sub-carriers with 811 sub-carriers utilized in transmissions. Each sub-carrier is quadrature phase shift keyed (“QPSK”) on each of the information sub-carriers in each OFDM modulation symbol. Each QPSK sub-carrier provides for 2 bits of information.

Time division duplex (“TDD”) is utilized to share one frequency for upstream and downstream transmissions between the base station and CPE installations. CPE transmissions are controlled by the protocol between the base station and the CPE. CPE units will not transmit without first receiving base station’s control signal.