

Exhibit A

Experimental Description

1.0 Introduction

This exhibit describes the research and experimentation proposed including descriptions of equipment and operation, the specific objectives, and how the program will contribute to the development of the radio art.

2.0 Description of Equipment

The equipment to be used in this experimental application is developmental in nature. It is unique technology which is based on similar technology built by MDS International of Taluyers, France, but which has been redesigned for use in certain parts of the radio spectrum in the United States. The equipment consists of a modem, transmitter, and transmit and receive antennas. The modem provides access and conversion from the broadband information source responding to internet requests by a user. The modem processes the information through to the transmitter and associated omni directional antenna.

The equipment transmits high speed internet transmissions at rates up to 60 MB/S. The transmission is received by a user which receives it at a PC with a specialized card and is connected to an antenna having considerable gain.

3.0 Experimental Layout

The MDS International transmitter will be located on a building in Milwaukie, Oregon, at the indicated coordinates. The newly developed transmitter is based on a previously implemented design which is in use in France.

The new transmitter has been designed to operate in the band 4940-4990 MHz. This is spectrum which has been proposed to the FCC to be used in the Part 26, General Wireless Communications Service (GWCS), in substitution for the previously provided government spectrum in the band 4635-4685 MHz. A petition in support of this proposal is also being filed with the Commission. The experiment/demonstration will use several receivers at several locations over a period of several months to confirm its effective operation on these frequencies. The location of the receivers will be moved periodically to demonstrate the

feasibility of this technology at different locations. The locations will vary as to distance from the transmitter, and location in the premises.

In summary, the purpose will be to investigate the utility of this technology utilizing the intended frequencies for its application of providing very high speed internet downloading transmissions. No other on-the-air radio transmission has the capability to provide this high speed of internet transmissions direct to the user. This program of experimentation will demonstrate the viability of this technology to provide this kind of internet access using spectrum which has not been otherwise effectively used for commercial application.