

Exhibit 1

Objectives Sought To Be Accomplished

Flarion Technologies herein seeks new experimental authority to perform field testing of a prototype broadband wireless communications system based on Flarion's flash-OFDM technology on a nationwide basis in accordance with the procedures specified below.

Flarion has successfully operated its prototype in a two-part configuration that includes a base station and mobile stations in accordance with pre-existing experimental authorizations.¹ Flarion has determined that its prototype responds well in the 1.9 GHz band and, given the number of opportunities it will have in the future to demonstrate its technology at various locations throughout the United States, it is seeking herein experimental authority to operate within the contiguous United States. Flarion's operations will adhere to the same strict coordination procedures as it has previously employed in other tests of its system.

The objectives of the testing and demonstration are to validate the system design and functionality, and the operation of the equipment. Tests in various locations and topographies permit Flarion to study the performance of the system under various real world conditions that cannot be effectively simulated or modeled in a lab setting. Among the conditions studied are environment, propagation, frequency reuse, mobility user behavior, traffic mix, and system loading.

Flarion is seeking experimental authority to test in the 1.9 GHz frequency band to meet the demands of potential domestic and international customers. Flarion will select channels within the requested bands that will not interfere with PCS licensees in the band.

Proposed Program Of Research And Experimentation

The equipment under test (EUT) consists of a (experimental) system specifically developed to deliver broadband voice and data communications to mobile devices. The system will allow mobile users to access the Internet, corporate intranets, and other services at data rates significantly higher than presently available in existing mobility products by utilizing multiple cells and reusing frequencies in a manner similar to cellular telephone networks.

The system test will operate in the bands specified below, with a channel bandwidth of 1.35 MHz, for both the forward link and reverse link, using a Frequency Division Duplex (FDD)

¹ Flarion is presently holder of an experimental authorization that permits it to test its prototype in the vicinity of its headquarters in Bedminster, New Jersey, and in the greater New York City area (Call Sign WC2XLF). Flarion's authorization permits operations in the 700 MHz band on the condition that Flarion coordinates each test of its prototype in advance of using the facility. Furthermore, Flarion has a pending application to modify that authorization to permit operations in the 1.9 GHz, 2.1 GHz, and 2.3 GHz bands (File No. 0011-EX-ML-2003). Flarion additionally has Special Temporary Authority under Call Sign WC2XLF to permit operations in the same vicinity on the 1.9 GHz and 2.1 GHz bands.

channel structure. The system utilizes an OFDM access approach with a MAC layer optimized for packet communications over a wireless channel. The transmitted signal for the prototype will have the following characteristics:

Frequency (MHz)	Maximum RF power output at transmitter terminals	Maximum EIRP from the antenna	Mean or Peak	Emission	Modulating Signal	Necessary Bandwidth
a	B	C	d	e	f	G
DL 1970 - 1990	43 dBm	43 dBm	Mean	D7D	See below*	1M35
UL 1890 - 1910	23 dBm	28 dBm	Mean	D7D	See below*	1M35
UL 1970 – 1990	23 dBm	28 dBm	Mean	D7D	See below*	1M35

* The modulating signal consists of a multitone signal where the available bandwidth is divided into multiple tones, where the phase and amplitude of each tone is determined by the information bits and an inverse Fast Fourier Transform (FFT) is performed to obtain the time domain modulating signal.

Exhibit 2

Interference Analysis

An interference analysis will be performed at the transmit location prior to operation of the prototype under the subject experimental authorization. Flarion performs an extensive analysis of licensees in the proposed area of operation and accordingly tunes its system to avoid the potential for interference to those operations that are identified as constructed and fully operational.