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February 28, 2003

RECEIVED

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FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

BY HAND

Mr. James Burtle
Chief, Experimental Licensing Branch
Federal Communications Commission
MS 13000E1
445 12th Street, SW
Washington, DC 20554

**Re: Flarion Technologies, Inc.
Call Sign WC2XLF
File No. 0063-EX-ML-2001
Progress Report for Experimental License**

Dear Mr. Burtle:

Submitted herewith on behalf of Flarion Technologies, Inc. ("Flarion," formerly Radio Router, Inc.), licensee of experimental station WC2XLF, is a progress report for the above-referenced experimental authorization. This report covers the period from September 2001 to February 2003 and demonstrates that Flarion has made substantial progress in the development of its flash-OFDM™ technology subject to the terms of its experimental authorization.

In accordance with the special condition on its experimental license, Flarion is required to file a progress report every twelve months from the date of its experimental license grant. The report submitted herewith is being filed after its due date because of an administrative oversight. Flarion will avoid similar filing delays in the future and requests that the Commission accept the attached progress report in satisfaction of the special condition on its experimental authorization.¹

¹ To the extent the attached report is deemed to be not in compliance with the special condition on its license, Flarion requests a waiver of the licensing condition in this instance.

Mr. J. Burtle
Jan. 21, 2003
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Please direct any questions concerning this matter to the undersigned.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Henry Goldberg", with a long horizontal flourish extending to the right.

Henry Goldberg
Attorney for Flarion Technologies, Inc.

Attachment

cc: Mr. Carl Huie (by electronic mail)



Progress Report
Flarion Technologies, Inc.
(formerly Radio Router, Inc.)

For Experimental License
Call Sign: WC2XLF
File No.: 0063-EX-ML-2001

flash-OFDM™

February 28, 2003



This Progress Report is filed pursuant to the special condition on the experimental license issued to Flarion Technologies, Inc. ("Flarion," formerly Radio Router, Inc.), Call Sign WC2XLF, File No. 0063-EX-ML-2001.

Background

Flarion originally was granted an experimental license (Call Sign WC2XLF, File No. 0159-EX-PL-2000) on September 25, 2000, to perform testing of a prototype broadband wireless communication system based on Flarion's flash-OFDM™ technology. That license was modified (File No. 0063-EX-ML-2001) effective September 25, 2001, to increase the base station EIRP and the testing area around the company headquarters in Bedminster, New Jersey.

The equipment under test (EUT) consists of an 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. The system will utilize multiple cells and reuse frequencies in a manner similar to cellular telephone networks with a reuse factor of one.

Testing Under the Experimental License

As described in its experimental license applications, Flarion has undertaken testing in two phases. The objective of the phase one prototype test was to validate the system design concept, functionality, and operation of the equipment. The prototype testing process also identified issues to be addressed prior to the phase two system test. The objective of the phase two system test was to understand the performance of the system in real world conditions, which cannot be effectively understood or modeled in a lab setting. These real world conditions include environment, propagation, frequency reuse, mobility user behavior, traffic mix and system loading.

Flarion has successfully completed the phase one prototype test and the initial phase two system test. Ongoing testing of software loads and hardware modifications is required as new features are added. Testing occurs both in the lab and in the real world environment surrounding the Flarion Headquarters building in Bedminster, NJ. The surrounding area is mostly a low density suburban environment with some interstate highway sections. Testing also has occurred in locations in New York City, and future tests are planned for that dense urban environment. The data that Flarion has collected through testing under its experimental license has been and will continue to be critical to the development of the flash-OFDM™ technology.



Flarion's flash-OFDM™ technology has attracted the attention of mobile carriers around the world. The advantages of flash-OFDM™ in data throughput speeds, latency and cost have been demonstrated in trial systems underway in the U.S., Europe and Korea. There is an international demand for flash-OFDM™ which requires Flarion to continue to test under its experimental license. However, because frequency allocations for advanced mobile systems (3G and 4G) vary from country to country, Flarion is seeking additional frequencies for its experimental license through a modification application under separate cover.

Conclusion

Flarion's experimental license continues to be essential to Flarion's testing of flash-OFDM™ technology. Flarion has made extraordinary progress in demonstrating the capabilities of flash-OFDM™ technology to mobile carriers around the world. Flarion expects that this technology one day will help to fulfill the promise of affordable, ubiquitous, high speed, mobile data for businesses and consumers.