

APPLICANT: Lucent Technologies, Inc.
FRN 0003-7104-31

Lucent Technologies
Bell Labs Innovations



EXHIBIT 1

Subject: **Request for Experimental License** Date: **February 16, 2005**

From: **Michael P. Farina**

Lucent Technologies, Inc.
67 Whippany Road, Room 4E-326
Whippany, NJ 07981-0903
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Federal Communications Commission
Experimental Radio Service
P.O. Box 358320
Pittsburgh, PA 15251-5320

Dear Examiner:

On behalf of Lucent Technologies, I am requesting that an Experimental License and new call sign be issued in accordance with the provisions of 47 CFR Part 5 – Experimental Radio Service. The required information, fees and a Request for Confidentiality are attached.

The following information is provided in accordance with 47 CFR § 5.63 (c) An application for authorization may be filed in letter form and shall contain the following information:

1. Name, address, phone number (also e-mail address and facsimile number, if available) of the applicant.

Applicant: Cynthia S Donovan
Lucent Technologies
101 Crawfords Corner Rd, Room 4C-621
Holmdel, NJ 07733-3030
Phone: 732 949 2938
Fax: 732 949 5055
E-Mail: csdonovan@lucent.com

2. Description of why an Experimental License is needed.

Response: This information is classified as Lucent Technologies **Confidential**. It will be included in the exhibit that is designated as “Confidential”, in accordance with the provisions set forth in 47 CFR 0.457 (d).

3. Description of the operation to be conducted and its purpose.

Response: This information is classified as Lucent Technologies **Confidential**. It will be included in the exhibit that is designated as “Confidential”, in accordance with the provisions set forth in 47 CFR 0.457 (d).

4. Time and dates of proposed operation.

Response: Between February 2005 and December 2005 during the day and night.

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5. Class(es) of station (fixed, mobile, fixed and mobile) and call sign of station (if applicable).
Response: (1) Fixed WiMax base station (28 dBm), a CW transmitter (30 dBm), and a WiMax subscriber unit (20 dBm)
(2) Request for a new call sign is the subject of this application.
6. Description of the location(s) and, if applicable, geographical coordinates of the proposed operation.
Response: Selected homes within a 20-mile radius of Whippany, NJ
(NL40-49-08 WL 74-24-40)
7. Equipment to be used, including name of manufacturer, model and number of units.
Response: This information is classified as Lucent Technologies **Confidential**. It will be included in the exhibit that is designated as "Confidential", in accordance with the provisions set forth in 47 CFR 0.457 (d).
8. Frequency(ies) desired.
Response:

Rx (MHz)	Tx (MHz)
3399.5 – 3453.5	3499.5 – 3553.5
3450.0 – 3500.0	3550.0 – 3600.0
3499.5 – 3600.0	3399.5 – 3500.0

The CW tone will be transmitted at 3.5 GHz.
9. Maximum effective radiated power (ERP) or equivalent isotropically radiated power (EIRP).
Response: 100W ERP
10. Emission designator (see § 2.201 of this chapter) or describe emission (bandwidth, modulation, etc.)
Response: (1) FX & MO, 5M00WXD, 100W ERP
(2) FX & MO, 5M00D8D, 100W ERP
11. Overall height of antenna structure above the ground (if greater than 6 meters above the ground or an existing structure, see part 17 of this Chapter concerning notification to the FAA).
Response: The WiMax base station transmitter antenna will be placed above the surrounding clutter and the subscriber antenna locations will include rooftops for the baseline. Antenna heights are anticipated as high as 12 meters.

A request for confidentiality is submitted under separate cover.

Sincerely,

Michael P. Farina
Member of Technical Staff
FCC/EMC Compliance Test Group
Whippany, NJ