Timco Engineering Inc.
FCC Authorized Telecommunications
Certification Body (TCB)

Lucent Technologies Inc. 67 Whippany Road Whippany, NJ 07981

FCC ID: ASSONEBTS-15

October 26, 2005

Sid Sanders - President Timco Engineering Inc.849 N.W. State Road 45
P.O. Box 370
Newberry, Florida 32669

Dear Mr. Sanders

In accordance with Parts 2 and 22 of the Commission's Rules and Regulations, we are submitting herewith, statements and supporting data to show compliance with the requirements of the Commission for Product Certification of the Lucent Technologies Corporation Cellular Band UMTS CDMA transceiver, henceforth UCR-850, FCC ID: AS5ONEBTS-15. The UCR-850 is used in Lucent Technologies Corp FLEXENT ® OneBTS Land Station Cellular systems using Code Division Multiple Access (CDMA) technology, for use in Domestic Cellular Communication Services.

This application for the **UCR-850** under **FCC ID: ASSONEBTS-15**, is for operation in the domestic extended cellular band with a CDMA signal. The data summarized below is in the form presently used by the Commission's Radio Equipment List.

Manufacturer Lucent Technologies, Inc.

Equipment Identification AS5ONEBTS-15

Rules Part Number 22 (H)

Frequency Range 869 -894 MHz Extended Cellular Band

Output Power -24.8 to +5.2 dBm/carrier; (1-3 carriers) Varied By Software

Frequency Tolerance +/- 0.05 ppm Emission Designator 1M23F9W

The **UCR-850**, which is the subject of this application, is a redesign of the previous **UCR-850** which was certified under **FCC ID: AS5ONEBTS-01**. This redesign includes new frequency signal sources which mandate refilling under FCC rule 47CFR-2.1043.

The UCR-850 under FCC ID: AS50NEBTS-15 is a transceiver designed to be operated and marketed with Lucent Technologies CDMA transmiter equipment which was either Type Accepted or Product Certified in accordance with Parts 2 and 22 of the code. When utilized in normal cellular base station operation, the UCR-850 will be operated with a FCC Product Certified power amplifier. A post transmit suppression filter will be used when necessary to maintain performance within the parameters as previously filed with the FCC. The UCR-850 will undergo formal evaluation with every cellular amplifier with which it is marketed. The overall performance of the integrated equipment shall continue to be compliant with FCC requirements. FCC Class II changes as specified in "The Code" will be used

for radio changes in the future. FCC Class I permissive change evaluations will be processed for all of the integrated products. As per prior agreement with the FCC, degradations in performance shall be reported.

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The UCR-850 is designed to transmit one, two, or three contiguous 1.23 MHz CDMA channels. The UCR-850, at its output, is typically operated over the power range of -30 dBm to 0.0 dBm for each of the 1.23 MHz CDMA carriers in a single, dual, or three channel configuration. The total power is limited to +5.2 dBm per channel (+10 dBm total integrated power for 3 carriers) for each of the 1.23 MHz CDMA carriers in a single, dual, or three channel configuration and is the level for this application. The actual power level delivered by the UCR-850 to the transmit amplifier is under the software control of the Mobile Switching Center of the local Cellular system. The output of this unit in normal base station use, is always subjected to additional signal amplification and post amplification filtering as required for spurious control prior to connection to the (J4) antenna connector. The software control only allows for adjustment in power necessary to provide the rated maximum of the co-configured transmitter

The evaluation of the "Spurious emissions at antenna terminals" (Sec. 2.1051) were made with a **mLAM/AS5ONEBTS-03** and its associated filters. The **mLAM/AS5ONEBTS-03** was also used for the "Field strength of spurious radiated" (Sec. 2.1053) measurements. Wherever possible the test procedures defined in CFR 47 Part's 2(J) and 22(H) were followed. Because of the "state of the art" nature of this equipment some of the characteristics cannot be tested using the requirements in CFR 47, so for those characteristics **3GPP2 TSG-C.S0010-C-v1.00** (February 2005, Recommended Minimum Performance Standards for cdma2000 Spread Spectrum Base Stations) was used to define the tests and evaluation criteria used in this application.

This application for **UCR-850/FCC ID:AS5ONEBTS-15**, is for all of the extended Cellular 850 band. Since the application encompasses the single, dual and three carrier configurations it presents the required test data for each of those operational configurations.

The UCR-850/ AS5ONEBTS-15 is produced by Lucent Technologies Incorporated solely for incorporation into Lucent Technologies Inc. products.

Enclosed in this electronically transmitted online package is a copy of FCC Form 731 (Application for Equipment Authorization - Radio Frequency Devices) and the required exhibits. These exhibits contain the technical data, and the required statements and documents for Product Certification. The technical contact at Lucent Technologies, Bell Laboratories, will comply with any request for additional information should the need arise.

Sincerely,

R.J.Pillmeier Technical Manager Certification Test Group Phone: 973-386-3837 email: rpillmeier@lucent.com

cc/FCC Coordinator

FCC ID: ASSONEBTS-15

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EXHIBITS TO BE KEPT CONFIDENTIAL

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Exhibit 1: QUALIFICATION OF ENGINEERS

September 13, 2002

SECTION 2.911 (d) QUALIFICATION OF ENGINEERS

Walter Steven Majkowski is a Member of Technical Staff at Lucent Technologies Bell Laboratories. He holds a BSEE from New Jersey Institute of Technology and was trained in the FCC testing procedures. Mr Majkowski is the Lead engineer for the filing of CDMA Wireless Base station products at Lucent Technologies. Mr. Majkowski is a NARTE certified EMC engineer, Certificate number EMC-001859-NE, and has at least twenty six years of EMC design and testing experience. Mr. Majkowski has provided guidance and has reviewed the results contained herein.

R.J.Pillmeier Technical Manager Wireless FCC Compliance Group

APPLICANT: Lucent Technologies Inc.	FCC ID: AS5ONEBTS-15
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Exhibit 1 continued

SECTION 2.911 (d) CERTIFICATION OF TECHNICAL TEST DATA

I hereby certify that the technical test data are the results of tests performed or supervised by me.

Walter Steven Majkowski Member Technical Staff Whippany Compliance Laboratory

Exhibit 2: Manufactures, FCC Identifier

SECTION 2.1033(c)(1)

Name of applicant indicating whether the applicant is the manufacturer of the equipment, a vendor other than the manufacturer (include the name of the manufacturer), a licensee or a prospective licensee.

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RESPONSE:

APPLICANT: Lucent Technologies

Room:4C-638

101 Crawfords Corner Rd. Holmdel, NJ 07733-3030 Attention: Theresa I. Deaver

Lucent Technologies, Incorporated will be the manufacturer of this product. The **AS5ONEBTS-15** will only be marketed under the Lucent Technologies Incorporated trademark.

SECTION 2.1033(c)(2)

Identification of equipment for which Product Certification is sought.

RESPONSE:

Cellular 850 Land Station UMTS CDMA Radio (Lucent Technologies part number BNJ28C) herewith identified as UCR-850 and filed under FCC ID: AS50NEBTS-15 is to be operated under Part 22 (H) of the FCC Rules in the FLEXENT CDMA ONEBTS 4.0 Cellular Modular Cell.

Exhibit 3: Emission, Frequency Range, Power Range and Maximum Power

FCC ID: ASSONEBTS-15

SECTION 2.1033(c)

Applications for equipment other than that operating under parts 15 and 18 of the rules shall be accompanied by a technical report containing the following information:

SECTION 2.1033(c) (4)

Type or types of emission.

RESPONSE:

The UCR-850, FCC ID: AS50NEBTS-15, is capable of providing and decoding the following type of emissions amplifying transmissions involving the following types of emissions:

1M23F9W (CDMA)

The AS5ONEBTS-15 provides the modulation of the transmitted signal. The modulation system is fully described in Exhibits 4, 5, 6 and 10 of this filing. Filters which are internal to the FLEXENT CDMA ONEBTS 4.0 Cellular Modular Cell are also detailed in Exhibits 4, 5, 6, 9 and 10. This product is designed to be used with Lucent Technologies Corporation CDMA cellular transmitters. The performance of post amplification filters for these transmitters were consistently detailed in each specific transmitter application.

SECTION 2.1033(c) (5)

Frequency Range.

RESPONSE:

The Transmit Frequency Range of the UCR-850 is 869–894 MHz: i.e. The extended Cellular 850 bands, A & B

SECTION 2.1033(c) (6)

Range of operating power values or specific operating power levels, and description of any means provided for variation of operating power.

RESPONSE:

The UCR-850 has a maximum power output at its terminals of 0.0033 Watts (5.2 dBm) for a single carrier, 0.0066 Watts (8.2 dBm) for two carriers (5.2 dBm per carrier), and a maximum power output of 0.010 Watts (+10.0 dBm) for three carriers (5.2 dBm per carrier). The steady state range of power adjustment at the output is 30 dB. The minimum power is therefore 30 dB below the maximum (-24.8 dBm) for a single carrier across the Cellular down-link Band (869.00-894.00 MHz). When operated with a Lucent Technologies transmit power amplifier, the overall integrated transmitter will maintain its rated output power with an accuracy of +2/-4 dB. The power is under continuous software control.

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Exhibit 3: continued

SECTION 2.1033(c) (7)

Maximum power rating as defined in the applicable part of the rules.

RESPONSE:

The **UCR-850/AS5ONEBTS-15** has a maximum power output at its terminals of 0.0033 Watts (5.2 dBm) for a single carrier, 0.0066 Watts (8.2 dBm) for two carriers (5.2 dBm per carrier), and a maximum power output of 0.010 Watts (+10.0 dBm) for three carriers (5.2 dBm per carrier).

Exhibit 4: Active Circuit Devices Drive Levels and Circuit description

SECTION 2.1033(c) (8)

The dc voltages applied to and dc currents into the several elements of the final radio frequency amplifying device for normal operation over the power range.

RESPONSE:

Please see Exhibit 4 in the confidential section for the Active Device Drive Levels. Confidential status has been requested for this information.

SECTION 2.1033(c)(10)

A schematic diagram and a description of all circuitry and devices provided for determining and stabilizing frequency, for suppression of spurious radiation, for limiting modulation, and for limiting power.

RESPONSE:

Please see Exhibit 4 in the confidential section of this filing for the description of circuitry and devices for the **UCR-850/ AS5ONEBTS-15 and** Exhibits 8 and 9 for information on the circuitry used to determine and stabilize frequency, for suppression of spurious radiation and for limiting modulation.

Exhibit 5: Complete Circuit Diagrams

SECTION 2.1033(c) (10)

Complete circuit diagrams.

Please see: Exhibit 5 in the Confidential section.

RESPONSE:

Attached in the confidential section are the schematic diagrams for the UCR-850/ AS5ONEBTS-15. Confidential status has been requested for this information.

Exhibit 6: Instruction Book

SECTION 2.1033(c) (3)

A copy of the installation and operating instructions to be furnished the user. A draft copy of the instructions may be submitted if the actual document is not available. The actual document shall be furnished to the FCC when it becomes available.

RESPONSE:

There is not a specific instruction book for the UCR-850/ AS5ONEBTS-15.

The "FLEXENT ® CDMA Cellular 850 and PCS CDMA Modular Cell, Operation, Administration, and Maintenance" manual is included in the confidential section. Confidential status has been requested for these materials. The general description of the UCR-850 and the specific cabinet in which it is mounted is in Chapter 1 of this document.

Please see: Exhibit 6a in the Confidential section.

Exhibit 7: Tune up Proceedures

SECTION 2.1033(c) (9)

Tune-up procedure over the power range, or at specific operating power levels.

RESPONSE:

Please see: Exhibit 7a in the Confidential section.

Exhibit 8: Circuitry for Determining Frequency

SECTION 2.1033(c) (10)

A schematic diagram and a description of all circuitry and devices provided for determining and stabilizing frequency, for suppression of spurious radiation, for limiting modulation, and for limiting power.

RESPONSE:

Please see: Exhibit 8 in the Confidential section.

Exhibit 9: Circuitry for the Suppression of Spurious

SECTION 2.1033(c) (10)

A schematic diagram and a description of all circuitry and devices provided for determining and stabilizing frequency, for suppression of spurious radiation, for limiting modulation, and for limiting power.

RESPONSE:

Please see: Exhibit 9 in the Confidential section.

A schematic diagram and a description of all circuitry and devices for suppression of spurious radiation are described in Exhibit 9 for which confidential status has been requested.

Exhibit 10: Description of Modulation System

SECTION 2.1033(c) (13)

For equipment employing digital modulation techniques, a detailed description of the modulation system to be used, including response characteristics of any filters provided, and a description of the modulating wavetrain, shall be submitted for the maximum rated conditions under which the equipment will be operated.

RESPONSE:

Please refer to the circuit descriptions in Exhibits 4, 5, 6, 8 and 10.