

APPLICANT: Lucent Technologies, Inc.

FCC ID: AS5ONEBTS-09

Lucent Technologies
Bell Labs Innovations



67 Whippany Road
Whippany, NJ 07981

**Subject: Application for Class II Permissive Change Authorization
under FCC ID:AS5ONEBTS-09, Covering a Broadband
PCS UMTS – CDMA Transceiver.**

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April 14, 2005

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

Dear Mr. Sanders:

The Lucent Technologies' Broadband PCS UMTS-CDMA Transceiver, subject of this request for a Class II Permissive Change, was previously authorized for CDMA operation, under FCC ID: AS5ONEBTS-09. The "Multi-Carrier CDMA Radio" (MCR1900), Model BNJ64, is a transceiver that can be converted from Multi-Carrier CDMA to Single Carrier UMTS (or UMTS to CDMA) by software alone, which can be performed at the installation site. There are no physical, hardware or circuit changes to the transceiver. Lucent Technologies hereby requests that the UMTS emission designator **4M10F9W** be added to the AS5ONEBTS-09 authorization. All required supporting exhibits, not previously submitted with the initial filing, are attached.

As an individual UMTS transceiver, the MCR1900 BNJ64 will be operated in the Lucent Flexent® OneBTS™ 1900MHz UMTS "External Multi-Carrier Power Amplifier" (MCPA) Macrocell, configured for 3S1C operation. The MCPA equipment configuration is designed to interface with customer supplied, or pre-existing, externally installed power amplifiers and transmit bandpass filters. The maximum rated power at the MCPA transmit terminal, which is direct from the MCR1900 output terminal, is + 5.2 dBm (3.3 mW) per 5 MHz emission bandwidth carrier. Two ETSI Release 5 UMTS modulation schemes can be enabled with the MCR1900: 1) standard UMTS with QPSK modulation, which has 20 active channels, and 2) standard UMTS with "High Speed Downlink Packet Access" (HSDPA), QPSK plus 16QAM modulation, which together has 24 active channels; both have been evaluated as documented in the attached exhibits.

UMTS functionality for the MCR1900 (BNJ64) transceiver was developed following the guidelines of the ETSI TS 25.141 V5.9.0 (2004-09) standard: "Universal Mobile Telecommunications System (UMTS); Base Station Conformance Testing (FDD) (3GPP TS 25.141 version 5.9.0 Release 5)". The measurement exhibits attached to this application demonstrate full compliance with both FCC Part 24 Subpart E – Broadband PCS and with ETSI TS 25.141, following the procedural requirements specified in FCC Part 2 Subpart J – Equipment Authorization Procedures. The data summarized below is in the form presently used by the Commission's Radio Equipment List, Equipment Acceptable for Licensing.

Manufacturer	Lucent Technologies
Equipment Identification	AS5ONEBTS-09
Rules Part Number	Part 24, Subpart E – Broadband PCS
Frequency Ranges	Transmit 1930–1990 MHz
Output Power	3.3 Milliwatts (+5.2 dBm) 3-second average at the Tx terminal
Frequency Tolerance	± 0.05 ppm
Emission Designator	4M10F9W

Attached are the FCC Form 731 (Application for Equipment Authorization – Radio Frequency Devices) and the required measurement data and exhibits specific to this request for a Class II Permissive Change authorization of the UMTS-CDMA Transceiver MCR1900 (BNJ64). The technical contact at Lucent Technologies will comply with any request for additional information should the need arise. The attached exhibits are assembled and presented in the sequence recommended by Timco Engineering, in accordance with the *Table of Contents* attachment.

Confidentiality is requested for the following exhibits:

- Exhibit 5: Internal Photographs
- Exhibit 7: Operational Description (Theory of Operation, Functional Description)
- Exhibit 8: Block Diagrams
- Exhibit 9: Schematic Diagrams
- Exhibit 11: UMTS FLEXENT™ OneBTS™ Macrocell – Indoor Maintenance Document
- Exhibit 13: Parts List, if Applicable

Sincerely,

Rudolf J. Pillmeier
Technical Manager
FCC/EMC Compliance Test Group
Whippany, NJ

Att.

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Exhibit 6: Test Set Up Photographs

**Exhibit 7: Operational Description (Theory of Operation, Functional Description) -
LUCENT TECHNOLOGIES CONFIDENTIAL**

Exhibit 8: Block Diagrams - LUCENT TECHNOLOGIES CONFIDENTIAL

Exhibit 9: Schematic Diagrams - LUCENT TECHNOLOGIES CONFIDENTIAL

Exhibit 10: Test Report

**Exhibit 11: UMTS FLEXENT™ OneBTS™ Macrocell – Indoor Maintenance Document
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Exhibit 12: Tuning Procedure, if Applicable

Exhibit 13: Parts List, if Applicable LUCENT TECHNOLOGIES CONFIDENTIAL