

Subject: Application for Class II Permissive Change Authorization under FCC ID: AS5ONEBTS-11, Covering the UMTS Dual Band, Indoor, Macrocell Operating with Two (2) 850 MHz Carriers. 67 Whippany Road Whippany, NJ 07981

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November 30, 2009

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

Dear Mr. Sanders:

Alcatel-Lucent's Universal Mobile Telecommunications System (UMTS) **Dual Band Macrocell,** operating in the North America Region (NAR) Cellular Frequency Spectrum 869-894 MHz, **received the initial FCC Grant of Equipment Authorization effective June 22, 2005.** This Grant covered a single UMTS carrier operation (1S1C) at 40 Watts (+46.0 dBm) The RF power rating is based on the 3-second average, employing the Aggregate Overload Control (AOC) algorithm. Enhanced Digital Predistortion (EDPD) and Closed Loop Gain Control (CLGC) are features that are enabled for each carrier.

This application for a Class II Permissive Change requests FCC authorization to transmit 2 UMTS carriers at 40W per carrier, with 80W total composite power. A single UMTS carrier has a 5 MHz emission bandwidth, with an emission designator at 4M10F9W, based on measurement of the Necessary Bandwidth. There have been no changes made to circuitry in the RF path, and no changes made to the frequency determining and stabilization circuitry. The only modifications were to the software controlling the transceiver.

Alcatel-Lucent requests that the following text be included on the Class II Grant Certificate:

- 1. Single carrier at 40W power.
- 2. Two carriers at 80W total composite power.

In accordance with Sec. 2.1043 *Changes In Certificated Equipment*, only the characteristics affected by the change need to be reported. As such, the applicable measurements affected are contained in the Test Report Exhibit, and all other Exhibits submitted with the initial filing that remain unchanged will not be repeated for brevity. All initial exhibits that were granted permanent confidentiality are unchanged and continue to remain confidential, and will not be repeated with this submission for brevity.

The +24Vdc, 40 Watt per carrier, Dual Band, Indoor Macrocell served as the host equipment (EUT). The RF path consists of a single 850 MHz Multi Carrier Radio (MCR850) transmitting 2 UMTS carriers into 2 parallel C2PAM power amplifiers (PA) via 1:2 splitter and 2:1 combiner, and then to the Dual Duplex tuned cavity filter, to provide a total power of 80 W at the antenna terminal.

This system complies both with the Federal Communication Commission (FCC) Rules and Regulations (47 CFR Part 22), and with the European Telecommunications Standards Institute (ETSI) 3rd Generation Partnership Project (3GPP) Technical Specifications TS 25.104 and TS 25.141. UMTS functionality was developed in accordance to the guidelines of the ETSI TS 25.141 V7.4.0 (2006-06) standard: "Universal Mobile Telecommunications System

APPLICANT: Alcatel-Lucent USA, Inc. FCC ID: ASSONEBTS-11

(UMTS); Base Station Conformance Testing (FDD) (3GPP TS 25.141 version 7.4.0 Release 7)". The easurement exhibits attached to this application demonstrate full compliance with both FCC Part 22 Subpart H — Cellular Radiotelephone Service 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 Alcatel-Lucent Equipment Identification AS5ONEBTS-11

Rules Part Number Part 22 Subpart H — Cellular Radiotelephone Service

Frequency Ranges Transmit 869–894 MHz (Downlink)

Output Power 40 Watts (+46.0 dBm) 3-second average per single carrier

80 Watts (+49.0 dBm) total composite power for 2 carriers

Frequency Tolerance ± 0.05 ppm Emission Designator ± 0.05 ppm ± 0.05 ppm

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 Class II Permissive Change authorization. The technical contact at Alcatel-Lucent USA, Inc., 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.

In the initial filing, permanent confidentiality was requested and granted for the initial exhibits re-stated below. Alcatel-Lucent hereby requests that they continue to be held permanently confidential. Since none have changed, they will not be re-submitted.

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 +24V Indoor Operation,

Administration and Maintenance

Exhibit 13: Parts List, if Applicable

Sincerely,

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

Whippany, NJ

Att.

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01-Exhibit 1: 731 Form

File Name: 01-TCB_Form_731_AS5ONEBTS-11_CL-II.doc

02-Cover Letter File Name: 02-Cover_Letter_AS5ONEBTS-11_CL-II.DOC

03-Request for Confidentiality No Change to this Exhibit - Not Re-Submitted

04-Exhibit 2: FCC ID Label Sample and Location Information

File Name: 04-Label_AS5ONEBTS-11_CL-II.DOC

05-Exhibit 3: FCC Required Information (Part 2.1033)

File Name: 05-ReqInfo_AS5ONEBTS-11_CL-II.DOC

06-Exhibit 4: External Photographs of the Equipment (Part 2.1033 (c)(12))

File Name: 06-ExtPhoto_AS5ONEBTS-11_CL-II.DOC

07-Exhibit 4B: Internal Photographs of the Equipment (Part 2.1033 (c)(12)) - CONFIDENTIAL

No Change to this Exhibit - Not Re-Submitted

08-Exhibit 5: Test Set Up Photographs

File Name: 08-TSup_AS5ONEBTS-11_CL-II.DOC

09-Exhibit 6: Operational Description (Theory of Operation, Functional Description) - CONFIDENTIAL

No Change to this Exhibit - Not Re-Submitted

10-Exhibit 7: Block Diagrams - System

No Change to this Exhibit - Not Re-Submitted

11-Exhibit 8: Schematic Diagrams - ALCATEL-LUCENT CONFIDENTIAL

No Change to this Exhibit - Not Re-Submitted

12-Exhibit 9: Test Report

File Name: 12-TestRpt_AS5ONEBTS-11_CL-II.DOC

13-Exhibit 10: UMTS – Operation, Administration and Maintenance Documents – CONFIDENTIAL

No Change to this Exhibit - Not Re-Submitted

14-Exhibit 11: Tuning Procedure, if Applicable

No Change to this Exhibit - Not Re-Submitted

15-Exhibit 12: Parts List, if Applicable

No Change to this Exhibit - Not Re-Submitted