



Subject: **Application for Class II Permissive Change
Authorization under FCC ID: AS5ONEBTS-25,
to Add the UMTS Emission Designator 4M10F9W
to the Initial Filing.**

600-700 Mountain Avenue
Murray Hill, NJ 07974-0636

Rudolf J. Pillmeier
Telephone: 908-582-2810
E-Mail: Rudy.Pillmeier@alcatel-lucent.com

October 27, 2011

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 **1900 MHz High Efficiency RF Power Amplifier (HE PAM)** will be deployed in the **9391 OneBTS Macrocells**, in combination with the previously authorized **MCR 1900 MHz radio** for Universal Mobile Telecommunications System (UMTS) operation in the North America Region (NAR). The initial Grant of Equipment Authorization was issued 4/7/2010 for CDMA operation (1M25F9W). The purpose of **this Class II Permissive Change request** is to add the UMTS emission designator **4M10F9W** to the initial filing.

The Frequency Spectrum subject of this application is Part 24 — Personal Communications Services (1930 - 1990 MHz). The RF power at the downlink (DL) antenna terminal to be authorized, and subject of this Class II Permissive Change request, is:

Single Carrier Operation (3S1C) at 72 Watts (+48.6 dBm) with a Single HE PAM

The RF power rating is based on employing the Aggregate Overload Control (AOC) algorithm (Lucent Technologies Patent # 6415153 B1, July 2, 2002). Enhanced Digital Predistortion (EDPD) and Closed Loop Gain Control (CLGC) are also features that are enabled with each carrier setting. The total RF power rating for a single 1900 MHz carrier and 1900 MHz HE PAM is 72 W.

The footnote on the Grant should read:

The 9391 OneBTS Macrocell is rated for 72W RF power per Power Amplifier (PA) with a single UMTS carrier over the Broadband PCS spectrum.

The single UMTS carrier has a 5 MHz bandwidth with an emission designator at 4M10F9W, based on measurement of the Necessary Bandwidth.

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.

This system complies both with the Federal Communication Commission (FCC) Rules and Regulations (47 CFR Part 24E), 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 standard: ETSI TS 125 141 V7.15.0 (2010-02) Universal Mobile Telecommunications System (UMTS); Base Station (BS) conformance testing (FDD); (3GPP TS 25.141 version 7.15.0 Release 7). The measurement exhibits attached to this application demonstrate full compliance with both FCC Part 24 — Personal Communications Services, 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	Alcatel-Lucent USA, Inc.
Equipment Identification	AS5ONEBTS-25
Rules Part Number	Part 24 — Personal Communications Services, Subpart E — Broadband PCS
Frequency Ranges	Transmit 1930 – 1990 MHz
Output Power	72 Watts (+48.6 dBm) at the Tx Antenna 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 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 confidential 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.**

07-IntPhotoConfidential_AS5ONEBTS-25_CONFIDENTIAL
09-OpDes_AS5ONEBTS-25_CONFIDENTIAL
10-BlkDia_AS5ONEBTS-25_CONFIDENTIAL
11-Schem_AS5ONEBTS-25_CONFIDENTIAL
13-UserMan_AS5ONEBTS-25_CONFIDENTIAL

Sincerely,

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

Att.
Table of Contents

TABLE OF CONTENTS

01-Exhibit 1:	731 Form File Name: 01-731_TCB_AS5ONEBTS-25-II
02-Cover Letter	File Name: 02-Cover_Letter_AS5ONEBTS-25-II
03-Request for Continued Confidentiality:	03-Req_Confidentiality_AS5ONEBTS-25-II
04-Exhibit 2:	FCC ID Label Sample and Location Information File Name: 04-Label_AS5ONEBTS-25-II
05-Exhibit 3:	FCC Required Information (Part 2.1033) File Name: 05-ReqInfo_AS5ONEBTS-25-II
06-Exhibit 4:	External Photographs of the Equipment (Part 2.1033 (c)(12)) File Name: 06-ExtPhoto_AS5ONEBTS-25-II
<i>07-Exhibit 4B:</i>	<i>Internal Photographs of the Equipment (Part 2.1033 (c)(12)) - CONFIDENTIAL</i> <i>No Change to this Exhibit - Not Re-Submitted</i>
08-Exhibit 5:	Test Set Up Photographs File Name: 08-TSup_AS5ONEBTS-25-II
<i>09-Exhibit 6:</i>	<i>Operational Description (Theory of Operation, Functional Description) - CONFIDENTIAL</i> <i>No Change to this Exhibit - Not Re-Submitted</i>
<i>10-Exhibit 7:</i>	<i>Block Diagrams - System - CONFIDENTIAL</i> <i>No Change to this Exhibit - Not Re-Submitted</i>
<i>11-Exhibit 8:</i>	<i>Schematic Diagrams - ALCATEL-LUCENT CONFIDENTIAL</i> <i>No Change to this Exhibit - Not Re-Submitted</i>
12-Exhibit 9:	Test Report File Name: 12-TestRpt_AS5ONEBTS-25-II
<i>13-Exhibit 10:</i>	<i>UMTS – Operation, Administration and Maintenance Documents – CONFIDENTIAL</i> <i>No Change to this Exhibit - Not Re-Submitted</i>
14-Exhibit 11:	Tuning Procedure, if Applicable File Name: 14-TunPro_AS5ONEBTS-25-II
15-Exhibit 12:	Parts List, if Applicable File Name: 15-PartsLst_AS5ONEBTS-25-II