



Alcatel-Lucent USA  
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Murray Hill, NJ 07974

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849 NW State Road 45  
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**May 25, 2016**

**Dear Examiner:**

The purpose and objective of this application for a Class II Permissive Change, under FCC ID: AS5ONEBTS-27, is to add 5+5 and 10+5 MHz Configurations to the RRH2x60-1900A filing, which is both LTE operational and 2x60 MIMO compliant. The spectrum covered is Rule Part 24E, 1930 – 1990 MHz. The current product, designated on the equipment label as RRH2x60-1900A, incorporates the same radio, the same power amplifier, and the same digital (D/A) circuitry. There is no change to the radio frequency determining and stabilization circuitry. The only change is to the controlling software.

The LTE MIMO requirements are specified in *OET Bulletin 662911 D011 Multiple Transmitter Output v02r01*. The long term average power rating at each of the two transmit antenna terminals is 60 W (47.8 dBm) and a total composite power combined in the air interface of 120 W (50.8 dBm). Three LTE (Long Term Evolution) modulation schemes are supported: QPSK, 16QAM and 64QAM. Design and operation employs the guidelines set forth in ETSI TS 36.104 *LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); Base Station (BS) radio transmission and reception (3GPP TS 36.104 version 10.9.0 Release 10)*. Full compliance has been demonstrated with FCC Part 24 — Personal Communications Services, § 24.238 Emission Limitations for Broadband PCS Equipment, following the procedural requirements specified in Part 2 — Frequency Allocations And Radio Treaty Matters; General Rules And Regulations Subpart J — Equipment Authorization Procedures.

The footnote on the Grant should include:

Class II Permissive Change: 5+5 and 10+5 MHz Configurations to the RRH2x60-1900A and is both LTE operational and 2x60 MIMO compliant.

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

**The data summarized below is in the form presently used by the Commission's Radio Equipment List.**

<b>Manufacturer</b>	Alcatel-Lucent, Inc.
<b>Equipment Identification</b>	AS5ONEBTS-27
<b>Rules Part Number</b>	Part 24 – Personal Communication Services, §24.238 Emission limitations for Broadband PCS Equipment
<b>Frequency Range</b>	1930 to 1990 MHz
<b>Output Power</b>	60Watts (47.8 dBm) at each TX Antenna Terminal
<b>Frequency Tolerance</b>	+/- 0.05 ppm

Enclosed in this application package are the FCC Application Form 731, Table of Contents, and the required exhibits. These exhibits contain the technical data and the required statements and documents for the Class II Permissive change. The technical contact at Alcatel-Lucent will comply with any request for additional information should the need arise.

The fees are submitted as required for radio equipment certification filing.

Sincerely,

A handwritten signature in black ink, appearing to read "Raymond G. Johnson", written over the printed name.

R.J. Johnson  
Technical Manager  
FCC Compliance Test Group