

Verizon AWS-3 Temporary Retune Proposal

1. Introduction

Verizon Communications Inc. (Verizon or the Company) is a holding company that, acting through its subsidiaries, is one of the world's leading providers of communications, information and entertainment products and services to consumers, businesses and governmental agencies. With a presence around the world, we offer voice, data and video services and solutions on our wireless and wireline networks that are designed to meet customers' demand for mobility, reliable network connectivity, security and control. We have two reportable segments, Wireless and Wireline. Our wireless business, operating as Verizon Wireless, provides voice and data services and equipment sales across the United States (U.S.) using one of the most extensive and reliable wireless networks.

2. Experiment Description

Verizon is working with partner companies to develop equipment that will use LTE technologies, using Advanced Wireless Services 3 (AWS-3) spectrum [2155 – 2180 MHz], also known as part of Band 66, using 3GPP terminology. As part of the technology validation, Verizon plans to conduct a temporary test transmitting in an unclaimed frequency block (AWS-3 G-block, 2155 – 2160 MHz) in the early morning hours to limit the time transmitting in this frequency and provide minimal service interruption.

The purpose of the proposed tests is:

- 1) Evaluation of handset capability using the deployed frequency combinations

Field tests will be conducted in a highly controlled field environment, in order to assist in the development of commercial products. The testing will benefit the public interest by enabling the pre-commercial testing of new products outside of a lab environment but in a controlled and managed manner.

This trial will consist of a single base station for the trial location. Mobile units will operate within the RF coverage area of the base station, receiving the intended broadcast signal in downlink-only operation. There will be no uplink transmissions from the handsets in the AWS-3 G-block (1755 - 1760 MHz).

Equipment from multiple equipment manufacturers will be used in the evaluation testing. Verizon has the ability to shut down all transmissions operated under the experimental license in the unlikely event any interference occurs.

3. Hours of operation and equipment shut down

The intent is to operate the evaluation devices, both small cells and mobile units, for a few hours as needed, between the local time of 0:00 – 05:00, for several (less than 7) nights during the test period. Equipment can be shut down speedily, if the need arises, by contacting one or more of the interference coordinators identified in the section "Interference Coordination"

4. Interference Coordination

Immediate requests to stop transmissions under this STA can be communicated to Jacob Spahr, Verizon Network Planning at (704)-900-4805 or by email at jacob.spahr@verizonwireless.com.

5. Trial Duration

Testing will be done for approximately 10 total hours over the course of several (less than 7) nights, beginning earliest on March 19th, 2018. The latest date for the testing will be May 31st, 2018.

6. Evaluation Equipment Transmitter Information

The base station supporting LTE will be operating with the transmitter parameters defined in below. This is an existing structure and deployment, and only the frequencies used at this location will change during the duration of the testing. Directional antennas will be used with the system within the maximum EIRP and antenna gain constraints defined below.

Mobile devices will operate near the base station site, in receive-only mode for this frequency block.

Base Station:

City:	Greenville	Frequency (MHz):	2155-2160
State:	SC	Directional Antenna:	Yes
County:	Greenville	Orientation (horizontal):	200.00
FIPS:	45045	Beam width (degrees):	43.25
Latitude:	34.872953	Transmitter Power (W):	10.00
Longitude:	-82.326333	Max EIRP (W):	800.00

Mobile Unit (handset):

No operation in the proposed frequency block.