

July 15, 2013

Julie Knapp
Chief
Federal Communications Commission
Office of Engineering and Technology
445 12th Street, SW
Washington, DC 20554

RE: STA File Number: 0503-EX-ST-2013

Oceus Networks respectfully seeks a special temporary authority (STA) from the Federal Communications Commission (FCC) to operate in the Lower 700 MHz A-block on an experimental basis for use on the National Mall in Washington, D.C. and immediate area surrounding Arlington National Cemetery. Oceus Networks requests the STA on behalf of the United States Park Police (USPP) to demonstrate video transmission and distribution over a 3GPP Long Term Evolution (LTE) network, and simulate the priority and preemption features of a dedicated public safety LTE broadband network. The USPP is seeking to understand how it could integrate into the operational policies expected in a future national or regional public safety broadband network.

Oceus Networks has sought and received permission to use spectrum currently licensed to Verizon Wireless (698-704 MHz/ 728-734 MHz) on a non-interference basis for the period from August 1, 2013 through November 1, 2013. A letter from Verizon Wireless demonstrating its concurrence with this request is attached. Oceus Networks seeks to use the spectrum to operate a single base station unit and directional antenna located atop a building across the river from the Lincoln Memorial in Arlington, VA. The antenna will be directed towards Washington, D.C. with primary coverage over the National Mall. Secondary coverage will include the USPP Headquarters along the Anacostia Freeway and eastern portions of Arlington National Cemetery.

Existing IP-based video cameras on the National Mall will send back data over the LTE test network to the USPP Anacostia Operations Facility (AOF) in Southeast Washington, DC via an existing LAN/WAN network. Video from AOF can then be sent to other state and local public safety agencies over other dedicated public safety communication networks such as networkMaryland, NCRnet, and DC-Net.

USPP is looking to test the future capabilities of a dedicated public safety system during high volume events including the events commemorating the 50th anniversary of the MLK "I Have a Dream" speech in August, and the Marine Corps Marathon at the end of October. USPP will coordinate and work with state and local public safety users as part of this testing.

The proposed project will conform to the following parameters:

- 1) **Bands and Testing Purpose:** Oceus Networks seeks an STA to conduct research trials using the 698-704/728-734 MHz commercial mobile broadband spectrum band, which are currently licensed within Basic Economic Area 13¹ to Cellco Partnership, d/b/a Verizon Wireless (Call Sign WQJQ698). Priority, preemption, and performance characteristics of a LTE wireless network will be simulated by placing only experimental public safety traffic on the system. Oceus Networks will provide the operating equipment to facilitate this comparison to the USPP's existing commercial wireless carrier services.
- 2) **Dates of Operation:** Oceus Networks request the STA to support USPP testing efforts from August 1 – November 1, 2013.
- 3) **Equipment:** The test network will consist of base stations manufactured by Oceus Networks and portable LTE modem solutions from Samsung and Bandrich.
- 4) **Emergency Contact:** During the tests, Doug Sharp, Oceus Networks, the overall project manager and main point of contact for these tests can be reached and can execute a “stop button” immediately upon a report of interference. He is also the emergency contact, if during the test, the “stop button” must be initiated. His phone number is 720-373-1515 and email is dsharp@oceusnetworks.com.
- 5) **Network Operation For Experimentation Only:** This experiment is for research and evaluative purposes only. The experiment will not result in permanent, ongoing network operations. Operation of the experiment will not be used in mission-critical operations or in the delivery of live transmissions in duties to protect life, property, or safety. Video transmitted over the test network will duplicate existing functionality and will not be relied on to provide mission-critical services.
- 6) **State and Local Public Safety Engagement:** By the start of the tests, Oceus Networks and the USPP will have contacted agencies in the District of Columbia, the Commonwealth of Virginia, and other federal agencies operating in the area. Agencies in Virginia have made IP cameras available to the USPP as part of this test. After initial tests demonstrate the ability of the network to transmit data from these cameras to the AOF, USPP can distribute these streams to interested agencies over dedicated public safety communications networks.

¹ (BEA013) Wash.-Balt. DC-MD-VA-WV-PA.

Respectfully Submitted,

/s Doug Sharp

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