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February 26, 2015

Marlene H. Dortch, Secretary
Federal Communications Commission
445 Twelfth Street, SW
Washington, DC 20554

Re: *Ex Parte* Notice: *Terrestrial Use of the 2473-2495 MHz Band for Low-Power Mobile Broadband Networks* – IB Docket No. 13-213

Dear Ms. Dortch:

On behalf of Globalstar, Inc. (“Globalstar”) and in response to the request of Commission staff, we hereby submit into the record of this proceeding the attached “Globalstar TLPS Demonstration Plan,” prepared by Globalstar’s technology consultants Roberson and Associates, LLC and AT4 Wireless, Inc. The Commission has proposed rules to allow Globalstar to provide low-power terrestrial mobile broadband service (Terrestrial Low Power Service or “TLPS”) in its own licensed spectrum at 2483.5-2495 MHz and adjacent, unlicensed spectrum at 2473-2483.5 MHz.¹ Globalstar greatly appreciates the opportunity to demonstrate TLPS technology at the Commission’s Technology Experience Center next week.

Respectfully submitted,

/s/ Regina M. Keeney
Regina M. Keeney

cc: Mark Settle

¹ *Terrestrial Use of the 2473-2495 MHz Band for Low-Power Mobile Broadband Networks; Amendments to Rules for the Ancillary Terrestrial Component of Mobile Satellite Service Systems*, Notice of Proposed Rulemaking, 28 FCC Rcd 15351 (2013).

Technical Memorandum:

Globalstar TLPS Demonstration Plan

Prepared by:

K. Zdunek, Roberson and Associates, LLC
 AT4 Wireless, Inc.
 Globalstar, Inc.

Submitted: Feb. 26, 2015

Globalstar Equipment List			
Item	Description	Number	Notes
1	Wireless Access Points	5	Ruckus Approx 8x8x2 inches
2	Mounting Stands for APs	4	Pole mounts on 3 foot circular base
3	Client Devices	65	Nexus Tablets or Equivalent
4	Table with Stands for Holders for Devices	2	Approx. 30" x 72"
5	Network Switch	1	Approx 8x6x2 inches
6	Laptop Computer	2	15 inch
7	Computer Monitor	1	22" monitor
8	Spectrum Analyzer	1	Anritsu or similar
9	Power strips, cords, AC adapters	A/R	As required
10	Bluetooth device--Speakers	1	
11	Bluetooth device--Heart Monitor	1	
12	Other Bluetooth devices	TBD	As required
13	Microwave Oven	1	Approx 20x16x14 inches

Globalstar team requests exclusive access to FCC demo area for 12 hours between Feb. 27-Mar. 4. At other times during Feb. 27-Mar. 4, Globalstar will be available to assist other demo setups.

Globalstar Set-Up Plan (Feb 27-Mar 4)		
Setup Segment	Description	Approx Time (hr: min)
1	Physical Setup and Integration	8:00
2	Validate Demonstration Scenarios	4:00
3	Demonstration Dry Run	4:00
4	External Demonstration Prep	2:00
	Total Setup	18:00

Globalstar TLPS Demonstration Plans

Globalstar Demonstration Plan		
Segment Day 1	Description	Approx Time (min)
1	Introduction Description of Demonstration	0:15
2	Globalstar Performance Demonstrations	
2.1	Baseline: Channels 1,6,11. 4 clients per channel	0:30
	Execute throughput demo on channels 1, 6,11 separately and together. Display and describe results.	
2.2	Channels 1,6,11, 14. 3 clients per channel	0:20
	Execute throughput demo on channels 1, 6,11, and 14. Display and describe results.	
2.3	Channels 1,6,11, 6 (4 APs) w. 3 clients per AP	0:20
	Execute throughput demo on channels 1, 6,11, and 6. Display and describe results.	
2.4	Channels 1,6,11,14 with up to 10 clients per channel	0:50
	Execute throughput demo on channels 1, 6,11, and 14. Display and describe results.	
2.5	Bluetooth	
2.5.1	Demonstrate bluetooth wireless speakers, other BT. BLE devices operating simultaneously with channels 1,6,11	0:20
2.5.2	Demonstrate bluetooth wireless speakers other BT. BLE devices operating simultaneously with channels 1,6,14	0:20
2.5.3	Demonstrate bluetooth wireless speakers other BT. BLE devices operating simultaneously with channels 1,6,11,14	0:20
3	(If time) Microwave Oven Impact	0:10
	Demonstrate impact of Microwave oven on throughput	
4	Globalstar Description of Performance Results in Other Deployments (option)	0:35
	Total Globalstar Demonstration	4:00
Segment Day 2	Non-Globalstar Performance Demonstrations (separate day)	
5.1	Globalstar will create wireless environment with network operating on channels 1,6,11	TBD
5.2	Globalstar will create wireless environment with network operating on channels 1,6,11,14	TBD