

REQUEST FOR EXPERIMENTAL SPECIAL TEMPORARY AUTHORIZATION

Verizon Wireless (VAW) LLC

Exhibit 1

NARRATIVE STATEMENT

Pursuant to Section 5.61 of the Commission's rules, 47 C.F.R. §5.61, Verizon Wireless (VAW) LLC, a subsidiary of Cellco Partnership ("Verizon") hereby respectfully requests special temporary authority ("STA") beginning June 15, 2015 to test LTE equipment on the 850 A and B band licensed spectrum where power limits will exceed the maximum of 500 Watts ERP; as well as, the impact of using Power Spectral Density ("PSD") measure for determining cellular base station power transmission limits. This is a First Market Application for LTE on 850 for Verizon and we are testing the equipment for reliability and support of 4 way transmit and receive.

In support of this request, the following is shown:

1) Applicant's Name, Address and FCC Registration Number ("FRN")

Applicant Name: Verizon Wireless (VAW) LLC
Address: Licensing Compliance
1120 Sanctuary Pkwy, GASA5REG
Alpharetta, GA 30009
FRN: 0003800307

2) Description of Operation and Purpose of Test:

Verizon intends to evaluate the potential impact to service performance upon adjacent-band Public Safety mobile devices, using various combinations of transmitted power spectral density, bandwidth and center channel configuration of an 850 MHz LTE carrier. Should any issues arise during testing immediate steps will be taken to mitigate the interference. Verizon will coordinate testing with the following local Public Safety Agencies:

Public Safety	Address	Phone
Gila River Indian Community	639 West Seedfarm Rd Sacaton, AZ 85147 Attn: Communications Engineer	(520)526-7116
State of Arizona	PO Box 6638 MS 2800 Phoenix, AZ 85005-6638	(602)223-2247

	Attn: Wireless Systems Bureau	
City of Mesa	PO Box 1466 Mesa, AZ 85211-1466 Attn: Communications Department	(480)644-6158
R/M Management Co., Inc.	9221 E. Via de Ventura Scottsdale, AZ 85258 Attn: Ashley Frank	(480)606-3607
State of California	601 Sequoia Pacific Blvd Sacramento, CA 95811-0231 Attn: Radio Licensing	(916)657-6153
Central Arizona Water Conservation District	23636 N. 7 th St. Phoenix, AZ 85080-3020 Attn: David Sanchez	(623)869-2165
County of Maricopa	3324 W. Gibson Lane Phoenix, AZ 85009 Attn: Wireless System Group	(602)506-5264
City of Yuma	One City Plaza Yuma AZ 85364 Attn: Asst IT Director-Telecom	(928)373-4902
City of Tempe	PO Box 5002 Tempe, AZ 85280 Attn: Scott Campbell	(480)350-8948
City of Goodyear	14455 W. Van Buren St, #E101 Goodyear, AZ 85338 Attn: Christopher Nadeau	(623)932-1220
City of Peoria	8343 W. Monroe St. Peoria, AZ 85345-6559 Attn: IT Radio Systems Engineer	(623)773-7251
City of Phoenix	2441 S. 22 nd Ave Phoenix, AZ 85009 Attn: Stuart Snow	(602)262-7034
Town of Paradise Valley	6401 E. Lincoln Dr. Paradise Valley, AZ 85253 Attn: Tech Services Director PD	(602) 948-7418
City of Glendale	6835 N 57 Dr. Glendale, AZ 85301 Attn: Police Department	(623)930-3000
City of Tolleson	9555 W Van Buren Tolleson, AZ 85353 Attn: Police Department	(623)936-8202
Tohono Oodham Nation of AZ	PO Box 2425 Sells, AZ 85634 Attn: Alex Vavages	(520)383-0270
Arizona State University	325 E. Apache Blvd Tempe, AZ 85287-1812 Attn: Lonny Foster	(480)965-2599
City of Chandler	250 E. Chicago St.	(480)782-4162

	Chandler, AZ 85244-4008 Attn: Ron Parks	
City of Bullhead	2355 Trane Rd. Bullhead City, AZ 86442 Attn: Radio System Manager	(928)763-9400
City of Lake Havasu City	2360 McCulloch Blvd Lake Havasu City, AZ 86403 Attn: Police Department	(928)855-1171
Pima County Information Technology	150 W. Congress, 6 th Floor Tucson, AZ 85701 Attn: Contracts Administration	(520)740-8113
Town of Marana	5100 W. Ina Road Tucson, AZ 85743 Attn: Radio Manager	(520)382-2500
City of Florence	425 North Pinal Street Florence, AZ 85132 Attn: Police Department	(520)868-7681
County of San Diego	5595 Overland Ave, Suite #101 San Diego, CA 92123 Attn: Wireless Services Div, FCC Unit	(858)694-3210

3) Need for an STA and Expedited Treatment:

Verizon respectfully requests an expeditious grant of the STA so that it can conduct its equipment testing to resolve any unforeseen technical issues that will arise in deploying LTE on 850 nationwide.

4) Dates of Operation:

June 15, 2015 through December 15, 2015

5) Class(es) of Station(s):

Transmitter	Class	Radius of Operation
1	Fixed	8.7 miles
2	Fixed	8.7 miles
3	Fixed	8.7 miles

6) Location(s) of Proposed Operations:

Transmitter	Address	Latitude	Longitude
1	2395 E. Williams Field Rd Gilbert, AZ 85296	33.306286	-111.738394
2	1777 S. Val Vista Drive Gilbert, AZ 83233	33.320692	-111.751975

3	12861 S Higley Road Gilbert, AZ 85296	33.328833	-111.719556
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7) Equipment To Be Used:

Transmitter	Antenna Manufacturer	Antenna Model
1	Antel	BXA 70040 6CF EDIN 4 (Ant 1) BXA 70040 6CF EDIN 6 (Ant 2 and 3)
2	Antel	BXA 70063 6CF6 (Ant 1 & 3) BXA 70063 8CF5 (Ant 2)
3	Antel	BXA 70040 6CF EDIN 6 (Ant 1 and 2) BXA 70040 6CF EDIN 10 (Ant 3)

Manufacturer	Model	# of Units
Alcatel Lucent	RRH2x60-850 (Radio)	3 per transmit location

8) Frequencies Desired:

824-835 MHz/869-880 MHz
835-845 MHz/880-890 MHz
845-846.5 MHz/890-891.5 MHz
846.5-849 MHz/891.5-894 MHz

9) Type of Emission, Modulation Technique and Bandwidth Required.

Type of Emission	Modulation	Bandwidth
10M0F9W	QPSK	10 MHz per carrier
10M0F9W	16 QAM	10 MHz per carrier
10M0F9W	64 QAM	10 MHz per carrier
5M00F9W	QPSK	5 MHz per carrier
5M00F9W	16 QAM	5 MHz per carrier
5M00F9W	64 QAM	5 MHz per carrier

10) Power Levels:

Maximum ERP: 10,000 Watts ERP or 1000 W/MHz
Transmitter Power Output: 60 watts

11) Overall Height of Antenna(s) Above Ground:

Transmitter	Height (ft)
1	61'
2	75'

There are no antenna changes being made to existing sites; therefore, no further FAA and FCC tower registration requirements are necessary.

12) Contact Information:

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