



Modification to Special Temporary Authority

WC9XKT

File No. 0376-EX-ST-2006

Exhibit 1 – Tables and Figures

May 26, 2006

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Table 1 Existing and Modified Demonstration Frequencies (Changes in **Bold** & Underlined)

Purpose	Transmitter Signal Bandwidth	Emission Type	Transmitter Power	Transmitter Height	Location See Table 3	Requested Frequency
XG Signal in TV band	1.75 MHz & <u>3.5 MHz</u>	OFDM G2D	<u>Up to 1 W</u>	<u>Up to 3 m (indoors & outdoors)</u>	Inside SSC offices & <u>up to 3 km surrounding</u>	TV Chan 16, 19, 25, and 31
XG Signal in LMR band	Same as above	Same as above	Same as above	Same as above	Same as above	421-449 MHz
XG Signal in FRS band	Same as above	Same as above	Same as above	Same as above	Same as above	462-467 MHz
XG Signal in TV band	Same as above	Same as above	Up to 1 W	<u>3 m (mobile, outdoors)</u>	Test Areas A, D <u>and F</u>	See Table 2
XG Signal in LMR band	Same as above	Same as above	Same as above	Same as above	Same as above	421-449 MHz
XG Signal in FRS band	Same as above	Same as above	Same as above	Same as above	Same as above	462-467 MHz
LMR radio Channel	10 kHz	FM-F3E	<u>Up to 1 W</u>	<u>Up to 3 m (indoors & outdoors)</u>	Inside SSC offices & <u>up to 3 km surrounding</u>	482-488 MHz
Same as above	Same as above	Same as above	Same as above	Same as above	Same as above	421-449 MHz
Same as above	Same as above	Same as above	Same as above	<u>3 m (mobile, outdoors)</u>	Test Areas A, D <u>and F</u>	See Table 2
Same as above	Same as above	Same as above	Same as above	Same as above	Same as above	421-449 MHz
Signal Generator in TV Band	CW	CW	<u>Up to 1 W</u>	<u>Up to 3 m (indoors & outdoors)</u>	Inside SSC offices & <u>up to 3 km surrounding</u>	TV Chan 16, 19, 25, and 31
Signal Generator in LMR Band	Same as above	Same as above	Same as above	Same as above	Same as above	421-449 MHz
Signal Generator in FRS Band	Same as above	Same as above	Same as above	Same as above	Same as above	462-467 MHz
Signal Generator in TV Band	Same as above	Same as above	Up to 1 W	<u>3 m (mobile, outdoors)</u>	Test Areas A, D <u>and F</u>	See Table 2
Signal Generator in LMR Band	Same as above	Same as above	Same as above	Same as above	Same as above	421-449 MHz
Signal Generator in FRS Band	Same as above	Same as above	Same as above	Same as above	Same as above	462-467 MHz

Table 1A Wireless Microphone (Shure ULX-J1) Frequencies

Requested Frequencies (MHz)*	Emission Type	Emission Designator	Transmitter Power	Transmitter Height	Location (see Tables 2 & 3)	Frequency Tolerance
572.95 575.125 577.7	FM	120KF3E	.03 W	Up to 3 m (indoors & outdoors)	Inside SSC offices & up to 3 km surrounding	0.000005%
554.55 555.4 555.875 558.2 558.725 559.875 562.525 563.325 564.725 565.6 578.075 578.65 580.775 581.75 582.35 584.375 587.5 588.375 588.8 589.725	Same as above	Same as above	Same as above	Same as above	Test Area F	Same as above

*Frequencies selected per guidance from Shure web site's "wireless frequency reference guide for United States" for Vienna, VA,
http://www.shure.com/scripts/freq_app/default.asp?cityid=21909&system=ULX&miles=50&dispfreq=1 and
 Fredricksburg, VA,
http://www.shure.com/scripts/freq_app/default.asp?cityid=21721&system=ULX&miles=50&dispfreq=1.

Table 2 STA and Modification (MOD) Test Areas/Frequencies

FMHz	TV Channel	Test Area						
		Area A	Area B	Area C	Area D	Area E	Area F	SSC Office
421-449	n/a	STA			STA		MOD	STA/MOD
462-467	n/a	STA			STA		MOD	STA/MOD
470-476	14							
476-482	15							
482-488	16						MOD	STA/MOD
488-494	17 (PS)	Public Safety Band – No Transmissions						
494-500	18 (PS)							
500-506	19						MOD	STA/MOD
506-512	20	STA			STA		MOD	
512-518	21							
518-524	22	STA			STA			
524-530	23							
530-536	24						MOD	
536-542	25	STA			STA			STA/MOD
542-548	26							
548-554	27							
554-560	28	STA			STA		MOD	
560-566	29							
566-572	30							
572-578	31						MOD	STA/MOD
578-584	32							
584-590	33							
590-596	34							
596-602	35							
602-608	36							

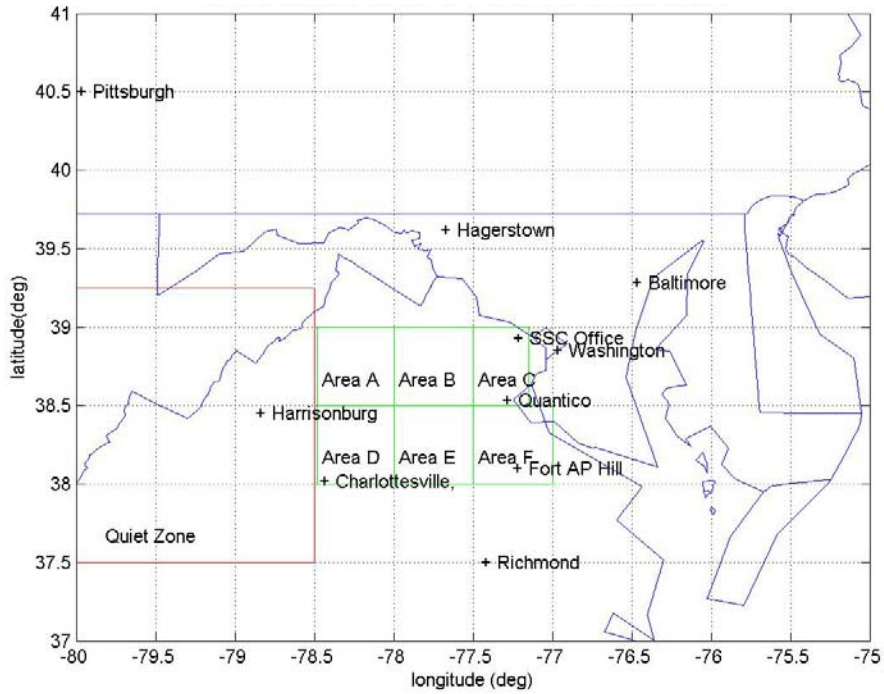


Figure 1 Location of XG Demonstration “Test Areas”. The National Radio Quiet Zone is located to the west of the Test Areas.

Table 3 shows the latitudes and longitudes of the rectangular test areas. The SSC office location is 38° 55' 33" NL, 77° 14' 43" WL, Vienna, Virginia. Test Area A is near Bentonville, Virginia, 38°49'38.18"NL, 78°16'44.80"WL. Test Area D is near Orange, Virginia, 38°14'2.17"NL, 78° 5'28.41"WL. Test Area F is near Fredericksburg, Virginia, 38° 18' 10" NL, 77° 27' 38"WL

Table 3 Latitude and Longitude Coordinates of Test Areas

Location	Min Latitude	Mid Latitude	Max Latitude	Min Longitude	Mid Longitude	Max Longitude	Radius (km)
Area A	38° 30' 00"	38° 45' 00"	39° 0' 00"	78° 29' 00"	78° 14' 30"	78° 0' 00"	NA
Area C	38° 30' 00"	38° 45' 00"	39° 0' 00"	77° 30' 00"	77° 19' 30"	77° 9' 00"	NA
Area D	38° 00' 00"	38° 15' 00"	38° 30' 00"	78° 29' 00"	78° 14' 30"	78° 0' 00"	NA
Area F	38° 00' 00"	38° 15' 00"	38° 30' 00"	77° 30' 00"	77° 19' 30"	77° 9' 00"	NA
SSC Office	NA	38° 55' 33"	NA	NA	77° 14' 43"	NA	3