

Ray Barnes & Associates
Broadcast Technical Consultants

Exhibit EE-6
Nighttime Root Sum Squares Interference Study
(WIOJ Proposed facility indicated as "WIOJ-PROP")

Page 1 of 8

Nighttime limits to CMDN		AUSTRALIA		CU N Lat 22 29 00 W Long 81 07 00								
File No./arn	-	1010 kHz	Region 2 (50%)	IFRB Serial No.	Class D:0 /R2:B							
Comments: All radiations are in mV/m at 1 km UNLISTED CUBAN STATION , TECH DATA DERIVED FROM IFL LISTING												
***** REGION 2 STANDARDS USED -- 1ST B LIST EXCLUDED *****												
From Class	IFRB Ser #	Prefix/Freq	Arn	Dist (km)	Bearing	Rad on Gnd	Low Ang	Up Ang	Max Rad	Skywave FF	Limit	Running RSS
WQYK B		BL /1010	881130AG	622.8	169.2	184.1	15.7	15.7	168.9	43.244	1.4609	1.4609
HRLP 23 C	081001883	# 235/1010	Operatin	1055.5	40.7	308.0	7.9	7.9	303.7	23.365	1.4193	2.0368
HRSP C	081001881	# 234/1010	Proposal	1066.5	32.3	309.5	7.8	7.8	305.3	22.978	1.4031	2.4733
HRLT C	081001882	# 236/1010	Proposal	1070.9	36.5	309.5	7.7	7.7	305.4	22.827	1.3944	2.8393 %
WIOJ-PROP		# 1/1010		873.5	174.0	304.5	10.4	10.4	220.4	31.146	1.3731	
PJC 7 B	081000361	# 204/1010	Operatin	1722.7	313.4	978.6	2.5	2.5	977.3	6.682	1.3060	
YNW3 C	081001025	# 237/1010	Proposal	1184.1	27.1	309.5	6.5	6.5	306.6	18.796	1.1526	
TGRX B	081000859	# 232/1010	Operatin	1216.1	45.5	309.5	6.2	6.2	306.9	17.795	1.0921	
HJIX B	081003251	# 219/1010	Operatin	1883.4	336.4	978.6	1.6	1.6	978.0	5.029	.9836	
HJOP B	081003252	# 220/1010	Operatin	1953.8	340.6	978.6	1.2	1.2	978.3	4.463	.8731	
YVPC B	081001565	# 240/1010	Operatin	2000.2	315.0	978.6	1.0	1.0	978.3	4.139	.8099	

Nighttime limits to HIJP			S DOMINGO 13			DR N Lat 18 34 00 W Long 69 55 00						
File No./arn		-Operatin		1010 kHz NARBA		(10%)		IFRB Serial No. 081002052		Class D: B/R2:B		
Comments: All radiations are in mV/m at 1 km												
From Class	IFRB Ser #	Prefix/Freq	Arn	Dist (km)	Bearing	Rad on Gnd	Low Ang	Up Ang	Max Rad	Skywave FF	Limit	Running RSS
YVPC	B 081001565	# 240/1010	Operatin	973.2	344.3	978.6	6.5	11.2	969.4	61.196	11.8642	11.8642
HJZD	B 081003261	# 222/1010	Operatin	1259.1	30.1	1198.5	4.0	7.7	1194.3	37.964	9.0680	14.9327
CMDN	B	# 2/1010		1244.3	108.4	1013.8	4.1	7.8	1009.2	38.890	7.8494	16.8701 %
YVNW	B 081001566	# 241/1010	Operatin	1349.4	329.9	978.6	3.3	6.8	976.2	32.434	6.3324	18.0194
HJIX	B 081003251	# 219/1010	Operatin	1349.9	18.1	978.6	3.3	6.8	976.2	32.410	6.3274	19.0980
	A 081004001	# 233/1010	Operatin	1888.7	322.1	2188.1	.3	2.7	2188.1	12.462	5.4534	19.8614 %
HJOP	B 081003252	# 220/1010	Operatin	1501.4	20.6	978.6	2.3	5.5	977.4	24.759	4.8401	
HJCC	B 081003253	# 221/1010	Operatin	1617.4	15.9	978.6	1.6	4.5	978.0	19.973	3.9068	
WIOJ-PROP		# 1/1010		1786.0	134.1	1294.0	.7	3.4	1294.0	14.735	3.8134	
HJJR	B 081003255	# 223/1010	Operatin	1839.5	18.2	978.6	.5	3.0	978.5	13.494	2.6409	
WINS	B	BL /1010	990401DC	2504.4	169.6	2118.3	.0	.0	2118.3	5.841	2.4744	
HJBN	B 081003256	# 224/1010	Operatin	2088.6	22.2	691.7	.0	1.4	691.7	9.361	1.2950	
ZYH-625	A 081010368	# 209/1010	Operatin	4236.8	306.9	3745.9	.0	.0	3745.9	1.674	1.2545	
OAX4U	A 081001198	# 238/1010	Operatin	3502.5	13.1	2188.1	.0	.0	2188.1	2.613	1.1433	
WQYK	B	BL /1010	881130AG	1636.5	127.2	267.7	1.5	4.4	271.4	19.205	1.0423	
HCNR6	B 081003684	# 227/1010	Operatin	2396.3	23.0	692.0	.0	.0	692.0	6.474	.8961	
HCRS6	C 081003685	# 229/1010	Operatin	2452.3	23.5	692.0	.0	.0	692.0	6.147	.8508	
HRSP	C 081001881	# 234/1010	Proposal	1840.5	73.3	309.5	.5	3.0	309.5	13.471	.8338	
YNW3	C 081001025	# 237/1010	Proposal	1860.0	68.7	309.5	.4	2.8	309.5	13.020	.8059	

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Page 2 of 8

Nighttime limits to KBBW WACO-MARLIN TX US N Lat 31 30 02 W Long 96 57 52
File No./arn BL-800404AC 1010 kHz FCC Rules (10%) IFRB Serial No. Class D: B/R2:B
Comments: All radiations are in mV/m at 1 km

From Class	IFRB Ser #	Prefix/Freq	Arn	Dist (km)	Bearing	Rad on Gnd	Low Ang	Up Ang	Max Rad	Skywave FF	Limit	Running RSS	
WMOX	B		BL /1010		789.7	265.0	518.1	8.5	15.1	501.0	65.803	6.5941	6.5941
XEHL	B		# 249/1010	Operatin	1363.2	27.0	693.3	3.0	6.9	691.8	32.832	4.5426	8.0073
KTNZ	B		BL /1010	880428AC	600.2	131.7	220.5	12.1	20.4	214.5	96.081	4.1227	9.0063 %
XEKD	B		# 246/1010	Operatin	451.5	56.3	145.4	16.7	26.9	137.1	137.549	3.7715	9.7641
WQYK	B		BL /1010	881130AG	1471.5	288.9	571.0	2.3	5.9	572.4	25.394	2.9069	10.1876 %
CBR	A	000012186	# 195/1010	Operatin	2572.9	140.6	2024.0	.0	.0	2024.0	6.004	2.4305	10.4735
CFRB-8	A	12187	# 199/1010	Operatin	2021.9	234.5	1015.3	.0	2.2	1015.3	11.320	2.2986	
KXEN	B		BL /1010	981208AA	1022.5	219.9	262.0	5.7	10.8	264.7	42.688	2.2597	
XELO1	B		# 255/1010	Proposal	935.9	67.8	216.1	6.6	12.2	214.0	52.619	2.2518	
OAX4U	A	081001198	# 238/1010	Operatin	5294.1	336.9	2188.1	.0	.0	2188.1	4.424	1.9359	
XEWS1	B		# 257/1010	Proposal	1262.5	51.7	221.0	3.7	7.9	220.2	35.215	1.5507	
HJOP	B	081003252	# 220/1010	Operatin	3650.7	323.8	978.6	.0	.0	978.6	7.122	1.3939	
HJIX	B	081003251	# 219/1010	Operatin	3624.1	321.6	978.6	.0	.0	978.6	7.089	1.3875	
XENVA2	B		# 245/1010	Proposal	743.6	71.3	96.6	9.3	16.1	94.8	72.405	1.3722	
HJCC	B	081003253	# 221/1010	Operatin	3826.8	324.1	978.6	.0	.0	978.6	6.644	1.3002	
HJJR	B	081003255	# 223/1010	Operatin	3907.5	326.9	978.6	.0	.0	978.6	6.561	1.2840	
XETX1	B		# 256/1010	Proposal	1055.3	80.4	142.7	5.4	10.4	141.9	43.316	1.2290	
XEVK	B		# 248/1010	Operatin	916.9	42.3	105.9	6.9	12.5	103.8	56.234	1.1679	
XEWS	B		# 250/1010	Operatin	1262.5	51.7	156.3	3.7	7.9	155.7	35.215	1.0965	
HRLT	C	081001882	# 236/1010	Proposal	2097.3	333.7	309.5	.0	1.8	309.5	17.181	1.0635	
XETX	B		# 244/1010	Operatin	1050.0	80.7	119.8	5.4	10.4	119.2	43.639	1.0402	
HRSP	C	081001881	# 234/1010	Proposal	2166.8	332.8	309.5	.0	1.4	309.5	16.323	1.0104	
XELO	B		# 243/1010	Operatin	935.9	67.8	96.6	6.6	12.2	95.7	52.619	1.0071	
XEXN1	B		# 258/1010	Proposal	1305.6	76.5	152.1	3.3	7.4	151.7	31.293	.9493	
KIND	D		BL /1010		645.8	190.5	54.7	11.1	18.8	53.2	86.231	.9182	
YNW3	C	081001025	# 237/1010	Proposal	2318.8	333.8	309.5	.0	.7	309.5	14.810	.9167	
HJBN	B	081003256	# 224/1010	Operatin	3948.5	330.4	691.7	.0	.0	691.7	6.601	.9132	
KDKA	A		BL /1020	950214AB	1826.3	241.9	3047.6	.4	3.3	3047.1	14.757	.8994	
XEEB	B		# 251/1010	Operatin	1328.3	67.6	140.5	3.2	7.2	140.2	31.334	.8788	
HCNR6	B	081003684	# 227/1010	Operatin	4120.2	333.6	692.0	.0	.0	692.0	6.303	.8723	
HCRS6	C	081003685	# 229/1010	Operatin	4139.8	334.2	692.0	.0	.0	692.0	6.281	.8693	
KXEM	B		BL /1010	000815CV	1444.5	94.4	165.3	2.4	6.1	165.0	25.769	.8505	
XEXN	B		# 252/1010	Operatin	1305.6	76.5	136.0	3.3	7.4	135.7	31.293	.8491	
XEOY	A		# 146/1000	Operatin	1363.9	8.7	1163.3	2.9	6.9	1159.9	33.166	.7694	
XEFM	B		# 253/1010	Operatin	1355.1	356.7	107.7	3.0	6.9	107.6	33.390	.7183	
WIOJ-PROP	I		# 1/1010	I	1432.0	279.2	138.8	2.5	6.2	134.7	26.138	.7043	
XEMG2	B		# 247/1010	Proposal	1725.3	350.3	140.9	.9	4.0	140.9	23.563	.6640	

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Page 3 of 8

Nighttime limits to KLAT HOUSTON TX US N Lat 29 51 44 W Long 95 30 42
File No./arn BL-960221AD 1010 kHz FCC Rules (10%) IFRB Serial No. Class D: B/R2:B
Comments: All radiations are in mV/m at 1 km

From Class	IFRB Ser #	Prefix/Freq	Arn	Dist (km)	Bearing	Rad on Gnd	Low Ang	Up Ang	Max Rad	Skywave FF	Limit	Running RSS
WMOX	B	BL /1010		710.3	248.5	643.0	9.9	17.0	616.5	76.828	9.4730	9.4730
KBBW	B	BL /1010	800404AC	229.1	142.3	279.0	31.6	45.7	165.7	265.991	8.8161	12.9406 %
WQYK	B	BL /1010	881130AG	1306.2	282.3	871.6	3.3	7.4	870.7	31.268	5.4451	14.0396
XEHL	B	249/1010	Operatin	1292.8	36.5	693.3	3.4	7.6	691.4	36.277	5.0160	14.9087 %
XEKD	B	246/1010	Operatin	527.1	81.9	145.4	14.1	23.2	139.4	115.391	3.2177	15.2520
KTNZ	B	BL /1010	880428AC	827.7	133.9	230.1	8.0	14.2	227.3	61.471	2.7940	
CFRB	A	12187	199/1010	Operatin	2067.7	228.1	1223.0	.0	1.9	1223.0	11.253	2.7525
OAX4U	A	081001198	238/1010	Operatin	5069.3	337.4	2188.1	.0	.0	2188.1	4.881	2.1361
CBR	A	000012186	195/1010	Operatin	2798.9	139.8	2005.8	.0	.0	2005.8	5.199	2.0857
XELO1	B	255/1010	Proposal	1036.9	79.8	216.1	5.6	10.6	214.6	46.023	1.9749	
KXEN	B	BL /1010	981208AA	1108.9	208.4	246.5	4.9	9.7	249.2	37.973	1.8928	
HJOP	B	081003252	220/1010	Operatin	3422.9	323.4	978.6	.0	.0	978.6	8.214	1.6077
HJIX	B	081003251	219/1010	Operatin	3397.7	321.0	978.6	.0	.0	978.6	8.188	1.6026
XEWS1	B	257/1010	Proposal	1299.8	61.9	221.0	3.4	7.5	220.3	34.292	1.5109	
HJCC	B	081003253	221/1010	Operatin	3598.9	323.7	978.6	.0	.0	978.6	7.623	1.4920
PJC 7	B	081000361	204/1010	Operatin	3368.3	309.8	978.6	.0	.0	978.6	7.617	1.4908
HJJR	B	081003255	223/1010	Operatin	3678.6	326.7	978.6	.0	.0	978.6	7.503	1.4685
HRLT	C	081001882	236/1010	Proposal	1870.5	334.7	309.5	.2	3.1	309.5	21.230	1.3141
HRSP	C	081001881	234/1010	Proposal	1939.3	333.5	309.5	.0	2.6	309.5	20.080	1.2430
XEVK	B	248/1010	Operatin	917.9	56.7	105.9	6.8	12.5	103.9	57.103	1.1866	
XENVA2	B	245/1010	Proposal	858.7	85.6	96.6	7.6	13.6	95.4	59.913	1.1428	
YNW3	C	081001025	237/1010	Proposal	2091.8	334.7	309.5	.0	1.8	309.5	18.010	1.1148
XEWS	B	250/1010	Operatin	1299.8	61.9	156.3	3.4	7.5	155.8	34.292	1.0684	
HJBN	B	081003256	224/1010	Operatin	3719.6	330.6	691.7	.0	.0	691.7	7.526	1.0412
XETX1	B	256/1010	Proposal	1197.6	89.6	142.7	4.2	8.6	142.2	36.020	1.0244	
HCNR6	B	081003684	227/1010	Operatin	3892.6	333.9	692.0	.0	.0	692.0	7.140	.9882
HCRS6	C	081003685	229/1010	Operatin	3912.5	334.7	692.0	.0	.0	692.0	7.108	.9837
XEOY	A	146/1000	Operatin	1220.1	16.7	1163.3	4.0	8.3	1156.8	40.040	.9263	
KDKA	A	BL /1020	950214AB	1842.1	234.7	3047.6	.3	3.2	3047.4	14.966	.9122	
XEFM	B	253/1010	Operatin	1172.2	3.0	107.7	4.4	8.9	107.4	42.417	.9109	
XELO	B	243/1010	Operatin	1036.9	79.8	96.6	5.6	10.6	96.0	46.023	.8832	
XETX	B	244/1010	Operatin	1193.2	89.9	119.8	4.2	8.6	119.4	36.200	.8647	
XEXN1	B	258/1010	Proposal	1436.9	84.4	152.1	2.5	6.2	151.8	27.392	.8318	
XEMG2	B	247/1010	Proposal	1524.1	354.2	140.9	2.0	5.5	140.8	29.267	.8243	
XEEB	B	251/1010	Operatin	1428.8	76.3	140.5	2.5	6.3	140.3	28.454	.7987	
WFGW	B	BL /1010	921202AB	1384.9	246.3	143.6	2.8	6.7	142.9	26.794	.7657	
XEXN	B	252/1010	Operatin	1436.9	84.4	136.0	2.5	6.2	135.8	27.392	.7440	
HCGO3	C	081003687	231/1010	Operatin	4056.3	337.0	536.0	.0	.0	536.0	6.798	.7287
KXEM	B	BL /1010	000815CV	1627.4	99.6	165.3	1.4	4.7	165.2	21.272	.7029	
WIOJ-PROP	I	1/1010		1299.4	271.3	80.1	3.4	7.5	98.0	31.020	.6083	
CFRB-15 A	12187	201/1010	Proposal	2067.9	228.1	253.3	.0	1.9	253.3	11.251	.5699	

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Exhibit EE-6
Nighttime Root Sum Squares Interference Study
(WIOJ Proposed facility indicated as "WIOJ-PROP")

Page 4 of 8

Nighttime limits to KTNZ AMARILLO TX US N Lat 35 11 03 W Long 101 41 28
File No./arn BL-880428AC 1010 kHz FCC Rules (10%) IFRB Serial No. Class D: B/R2:B
Comments: All radiations are in mV/m at 1 km

From Class	IFRB Ser #	Prefix/Freq	Arn	Dist (km)	Bearing	Rad on Gnd	Low Ang	Up Ang	Max Rad	Skywave FF	Limit	Running RSS	
CBR	A	000012186	# 195/1010	Operatin	2009.1	145.9	2149.4	.0	2.2	2149.4	9.429	4.0535	4.0535
XEHL	B		# 249/1010	Operatin	1619.2	5.7	693.3	1.4	4.7	692.9	23.867	3.3077	5.2318 %
XELO1	B		# 255/1010	Proposal	840.0	28.6	216.1	7.8	14.0	213.1	60.661	2.5860	5.8360
XEKD	B		# 246/1010	Operatin	657.6	353.9	145.4	10.9	18.5	141.8	85.404	2.4218	6.3185
CFRB-15	A	12187	# 201/1010	Proposal	2101.6	251.4	1064.8	.0	1.7	1064.9	9.431	2.0086	6.6301
XETX1	B		# 256/1010	Proposal	792.7	45.9	142.7	8.5	15.0	140.6	65.687	1.8472	6.8826
KBBW	B		BL /1010	800404AC	600.2	314.3	93.5	12.1	20.4	90.4	96.081	1.7372	7.0985 %
XETX	B		# 244/1010	Operatin	785.7	46.0	119.8	8.6	15.1	118.2	66.521	1.5729	7.2706
WMOX	B		BL /1010		1242.5	288.0	248.0	3.8	8.1	246.2	31.837	1.5678	
XENVA2	B		# 245/1010	Proposal	674.3	21.4	96.6	10.5	18.0	94.3	82.553	1.5563	
KXEN	B		BL /1010	981208AA	1106.3	252.5	213.1	4.9	9.7	213.0	36.119	1.5387	
KXEM	B		BL /1010	000815CV	984.3	75.7	165.3	6.1	11.4	163.4	46.981	1.5351	
OAX4U	A	081001198	# 238/1010	Operatin	5864.2	334.7	2188.1	.0	.0	2188.1	3.480	1.5230	
KEWS1	B		# 257/1010	Proposal	1275.0	24.2	221.0	3.6	7.7	220.2	33.236	1.4638	
KSIR	B		BL /1010	951215AD	594.2	163.1	60.0	12.3	20.6	76.1	94.113	1.4327	
XEXN1	B		# 258/1010	Proposal	1037.1	49.6	152.1	5.6	10.6	151.0	44.195	1.3346	
XEXN	B		# 252/1010	Operatin	1037.1	49.6	136.0	5.6	10.6	135.1	44.195	1.1938	
XELO	B		# 243/1010	Operatin	840.0	28.6	96.6	7.8	14.0	95.3	60.661	1.1565	
XEEB	B		# 251/1010	Operatin	1153.0	40.6	140.5	4.5	9.1	140.0	37.780	1.0575	
KEWS	B		# 250/1010	Operatin	1275.0	24.2	156.3	3.6	7.7	155.7	33.236	1.0351	
WINS	B		BL /1010	990401DC	2485.0	264.4	724.1	.0	.0	724.1	6.933	1.0041	
XEDX1	B		# 254/1010	Proposal	1430.0	71.1	190.7	2.5	6.3	190.4	26.051	.9921	
HJOP	B	081003252	# 220/1010	Operatin	4250.6	323.5	978.6	.0	.0	978.6	5.000	.9785	
HJIX	B	081003251	# 219/1010	Operatin	4224.3	321.7	978.6	.0	.0	978.6	4.947	.9682	
XEDX	B		# 242/1010	Operatin	1433.8	71.0	179.3	2.5	6.2	179.1	25.942	.9291	
HJCC	B	081003253	# 221/1010	Operatin	4426.5	323.7	978.6	.0	.0	978.6	4.719	.9236	
HJJR	B	081003255	# 223/1010	Operatin	4505.0	326.0	978.6	.0	.0	978.6	4.711	.9219	
XEVK	B		# 248/1010	Operatin	1084.6	8.6	105.9	5.1	10.0	104.8	42.023	.8806	
KCHJ	B		BL /1010		1595.2	87.3	189.7	1.6	4.9	189.6	20.789	.7885	
KDKA	A		BL /1020	950214AB	1993.2	259.5	3047.6	.0	2.3	3047.6	11.439	.6972	
HJBN	B	081003256	# 224/1010	Operatin	4540.1	328.9	691.7	.0	.0	691.7	4.789	.6626	
HRLT	C	081001882	# 236/1010	Proposal	2680.1	330.2	309.5	.0	.0	309.5	10.575	.6546	
HCNR6	B	081003684	# 227/1010	Operatin	4704.0	331.6	692.0	.0	.0	692.0	4.654	.6441	
HCRS6	C	081003685	# 229/1010	Operatin	4721.5	332.2	692.0	.0	.0	692.0	4.650	.6436	
HRSP	C	081001881	# 234/1010	Proposal	2752.1	329.6	309.5	.0	.0	309.5	10.126	.6268	
YNW3	C	081001025	# 237/1010	Proposal	2901.5	330.6	309.5	.0	.0	309.5	9.407	.5823	
WQYK	B		BL /1010	881130AG	2002.7	298.4	193.1	.0	2.3	193.9	14.333	.5559	
NEW	B		# 198/1010	Proposal	1768.9	218.7	215.2	.7	3.7	215.1	12.258	.5274	
WIOJ-PROP			# 1/1010		1915.4	291.6	170.4	.0	2.8	170.4	15.095	.5146	

Nighttime limits to KXEN FESTUS-ST. LOUIS MO US N Lat 38 46 01 W Long 90 03 32
File No./arn BL-981208AA 1010 kHz FCC Rules (10%) IFRB Serial No. Class D: B/R2:B
Comments: All radiations are in mV/m at 1 km ***RSS USING CFRB-8 ***

From Class	IFRB Ser #	Prefix/Freq	Arn	Dist (km)	Bearing	Rad on Gnd	Low Ang	Up Ang	Max Rad	Skywave FF	Limit	Running RSS	
CFRB-8	A	12187	# 199/1010	Operatin	1018.6	242.4	766.0	5.7	10.9	739.0	34.796	5.1430	5.1430
WFGW	B		BL /1010	921202AB	767.6	299.5	221.2	8.9	15.6	218.6	63.476	2.7754	5.8440 %
KDKA	A		BL /1020	950214AB	887.0	260.3	3047.6	7.2	13.1	2891.4	46.882	2.7111	6.4423
WINS	B		BL /1010	990401DC	1379.6	265.8	575.0	2.8	6.7	573.4	20.894	2.3963	6.8735
WHIN	D		BL /1010	820820AD	409.1	310.4	66.6	18.5	29.4	61.6	150.303	1.8527	7.1188 %
CBR	A	000012186	# 195/1010	Operatin	2302.5	116.7	1657.3	.0	.7	1657.3	5.293	1.7544	7.3318
XEHL	B		# 249/1010	Operatin	2382.3	29.6	693.3	.0	.4	693.3	11.076	1.5358	
KSIR	B		BL /1010	951215AD	1171.8	94.1	251.5	4.4	8.9	250.5	30.200	1.5130	
OAX4U	A	081001198	# 238/1010	Operatin	5817.3	347.2	2188.1	.0	.0	2188.1	3.369	1.4746	
WMVP	A		BL /1000	911113AA	381.9	208.0	483.6	19.8	31.2	442.4	157.280	1.3916	
WIOJ-PROP			# 1/1010		1194.8	324.1	183.2	4.2	8.6	179.0	33.010	1.1815	
HJIX	B	081003251	# 219/1010	Operatin	3882.3	337.7	978.6	.0	.0	978.6	5.473	1.0712	
HJOP	B	081003252	# 220/1010	Operatin	3952.8	339.5	978.6	.0	.0	978.6	5.407	1.0581	

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Exhibit EE-6
Nighttime Root Sum Squares Interference Study
(WIOJ Proposed facility indicated as “WIOJ-PROP”)

Page 5 of 8

Nighttime limits to KXEN FESTUS-ST. LOUIS MO US N Lat 38 46 01 W Long 90 03 32
File No./arn BL-981208AA 1010 kHz FCC Rules (10%) IFRB Serial No. Class D: B/R2:B
Comments: All radiations are in mV/m at 1 km ***RSS USING CFRB-15 ***

From Class	IFRB Ser #	Prefix/Freq	Arn	Dist (km)	Bearing	Rad on Gnd	Low Ang	Up Ang	Max Rad	Skywave FF	Limit	Running RSS
CFRB-15 A	12187	# 201/1010	Proposal	1018.7	242.4	783.1	5.7	10.9	813.1	34.786	5.6565	5.6565 %
WFGW B		BL /1010	921202AB	767.6	299.5	221.2	8.9	15.6	218.6	63.476	2.7754	6.3007
KDKA A		BL /1020	950214AB	887.0	260.3	3047.6	7.2	13.1	2891.4	46.882	2.7111	6.8592
WINS B		BL /1010	990401DC	1379.6	265.8	575.0	2.8	6.7	573.4	20.894	2.3963	7.2657
WHIN D		BL /1010	820820AD	409.1	310.4	66.6	18.5	29.4	61.6	150.303	1.8527	7.4982 %
CBR A	000012186	# 195/1010	Operatin	2302.5	116.7	1657.3	.0	.7	1657.3	5.293	1.7544	7.7007
XEHL B		# 249/1010	Operatin	2382.3	29.6	693.3	.0	.4	693.3	11.076	1.5358	
KSIR B		BL /1010	951215AD	1171.8	94.1	251.5	4.4	8.9	250.5	30.200	1.5130	
OAX4U A	081001198	# 238/1010	Operatin	5817.3	347.2	2188.1	.0	.0	2188.1	3.369	1.4746	
WMVP A		BL /1000	911113AA	381.9	208.0	483.6	19.8	31.2	442.4	157.280	1.3916	
WIOJ-PROP		# 1/1010		1194.8	324.1	183.2	4.2	8.6	179.0	33.010	1.1815	
HJIX B	081003251	# 219/1010	Operatin	3882.3	337.7	978.6	.0	.0	978.6	5.473	1.0712	
HJOP B	081003252	# 220/1010	Operatin	3952.8	339.5	978.6	.0	.0	978.6	5.407	1.0581	

Nighttime limits to WFGW BLACK MOUNTAIN NC US N Lat 35 36 19 W Long 82 21 00
File No./arn BL-921202AB 1010 kHz FCC Rules (10%) IFRB Serial No. Class D: B/R2:B
Comments: All radiations are in mV/m at 1 km ***RSS USING CFRB-15 ***

From Class	IFRB Ser #	Prefix/Freq	Arn	Dist (km)	Bearing	Rad on Gnd	Low Ang	Up Ang	Max Rad	Skywave FF	Limit	Running RSS
CFRB-15 A	12187	# 201/1010	Proposal	908.7	195.7	891.5	7.0	12.7	815.2	44.986	7.3349	7.3349
KDKA A		BL /1020	950214AB	589.3	201.6	3047.6	12.4	20.7	2605.9	91.719	4.7802	8.7550 %
KXEN B		BL /1010	981208AA	767.6	114.9	339.4	8.9	15.6	327.7	63.476	4.1603	9.6932
WMVP A		BL /1000	911113AA	845.9	142.9	3304.6	7.7	13.9	3194.2	52.367	3.3454	10.2543
WINS B		BL /1010	990401DC	922.7	233.9	325.5	6.8	12.4	310.8	45.584	2.8339	10.6386 %
WIOJ-PROP		# 1/1010		590.8	357.0	79.6	12.4	20.7	120.6	97.572	2.3540	
OAX4U A	081001198	# 238/1010	Operatin	5336.4	354.2	2188.1	.0	.0	2188.1	4.149	1.8158	
HJIX B	081003251	# 219/1010	Operatin	3290.5	345.9	978.6	.0	.0	978.6	7.958	1.5576	

Nighttime limits to WFGW BLACK MOUNTAIN NC US N Lat 35 36 19 W Long 82 21 00
File No./arn BL-921202AB 1010 kHz FCC Rules (10%) IFRB Serial No. Class D: B/R2:B
Comments: All radiations are in mV/m at 1 km ***RSS USING CFRB-8 ***

From Class	IFRB Ser #	Prefix/Freq	Arn	Dist (km)	Bearing	Rad on Gnd	Low Ang	Up Ang	Max Rad	Skywave FF	Limit	Running RSS
CFRB-8 A	12187	# 199/1010	Operatin	908.5	195.7	884.9	7.0	12.7	822.3	45.006	7.4017	7.4017
KDKA A		BL /1020	950214AB	589.3	201.6	3047.6	12.4	20.7	2605.9	91.719	4.7802	8.8110 %
KXEN B		BL /1010	981208AA	767.6	114.9	339.4	8.9	15.6	327.7	63.476	4.1603	9.7438
WMVP A		BL /1000	911113AA	845.9	142.9	3304.6	7.7	13.9	3194.2	52.367	3.3454	10.3021
WINS B		BL /1010	990401DC	922.7	233.9	325.5	6.8	12.4	310.8	45.584	2.8339	10.6848 %
WIOJ-PROP		# 1/1010		590.8	357.0	79.6	12.4	20.7	120.6	97.572	2.3540	
OAX4U A	081001198	# 238/1010	Operatin	5336.4	354.2	2188.1	.0	.0	2188.1	4.149	1.8158	
HJIX B	081003251	# 219/1010	Operatin	3290.5	345.9	978.6	.0	.0	978.6	7.958	1.5576	

Exhibit EE-6
Nighttime Root Sum Squares Interference Study
(WIOJ Proposed facility indicated as "WIOJ-PROP")

Page 6 of 8

Nighttime limits to WIOJ-PROPOSED JACKSONVILLE BEACH FL US N Lat 30 17 57 W Long 82 00 26
File No./arn - 1010 kHz FCC Rules (10%) IFRB Serial No. Class D:B /R2:B
Comments: All radiations are in mV/m at 1 km WIOJ-PROPOSED FROM PROPOSED SITE

*** NIGHTTIME INTERFERENCE FREE CONTOUR ***												
From Class	IFRB Ser #	Prefx/Freq	Arn	Dist (km)	Bearing	Rad on Gnd	Low Ang	Up Ang	Max Rad	Skywave FF	Limit	Running RSS
WQYK	B	BL /1010	881130AG	257.8	5.2	83.2	28.6	42.2	148.9	241.705	7.2001	7.2001 %%%
CFRB	A	12187 # 201/1010	Proposal	1483.3	188.9	710.4	2.2	5.8	703.6	20.902	2.9415	
WFGW	B	BL /1010	921202AB	590.8	176.8	159.7	12.4	20.7	150.1	97.572	2.9286	
OAX4U	A	081001198 # 238/1010	Operatin	4747.0	353.7	2188.1	.0	.0	2188.1	5.481	2.3986	
HJIX	B	081003251 # 219/1010	Operatin	2720.8	342.8	978.6	.0	.0	978.6	12.110	2.3700	
WINS	B	BL /1010	990401DC	1367.8	213.8	457.8	2.9	6.8	456.1	25.191	2.2981	

Nighttime limits to WOQI ADJUNTAS PR US N Lat 18 09 04 W Long 66 42 48
File No./arn BP-011120AD 1020 kHz FCC Rules (10%) IFRB Serial No. Class D: B/R2:B
Comments: All radiations are in mV/m at 1 km

*** ADJACENT CHANNEL CP ***												
From Class	IFRB Ser #	Prefx/Freq	Arn	Dist (km)	Bearing	Rad on Gnd	Low Ang	Up Ang	Max Rad	Skywave FF	Limit	Running RSS
YVRS	B	081001567 # 331/1020	Operatin	863.2	339.1	978.6	7.5	13.5	966.3	75.222	14.5379	14.5379 %
HJKS	B	081003266 # 310/1020	Operatin	1730.7	25.4	978.6	.9	4.0	978.4	28.991	5.6729	15.6055
HJFQ	B	081003262 # 309/1020	Operatin	1770.1	32.1	978.6	.7	3.7	978.5	27.895	5.4589	16.5327
HJFT	B	081003259 # 307/1020	Operatin	1787.6	30.6	978.6	.6	3.6	978.5	27.544	5.3904	17.3893
KDKA	A	BL /1020	950214AB	2794.6	149.2	3047.6	.0	.0	3047.6	7.921	4.8280	18.0471 %
HJDQ	B	081003260 # 308/1020	Operatin	1630.2	35.3	692.0	1.4	4.7	691.7	31.294	4.3293	18.5591
	B	090002059 # 284/1020	Operatin	1827.8	339.3	654.0	.4	3.3	654.0	26.917	3.5206	
HCEW2	B	081003691 # 318/1020	Operatin	2686.0	32.1	978.6	.0	.0	978.6	15.074	2.9502	
HCGO3	B	090002222 # 320/1020	Operatin	2806.5	30.7	978.7	.0	.0	978.7	14.136	2.7670	
WRHB	B	BL /1020	010406BC	1647.5	117.5	477.1	1.3	4.5	477.0	25.743	2.4560	
HJDY	B	081003258 # 306/1020	Operatin	1415.0	28.8	305.7	2.6	6.4	305.2	38.464	2.3481	
HCRS6	B	090002221 # 317/1020	Operatin	2574.3	30.9	692.0	.0	.0	692.0	16.096	2.2276	
CP 4	B	081000393 # 305/1020	Operatin	3855.6	2.4	978.6	.0	.0	978.6	8.868	1.7356	
HCSE4	C	081003689 # 315/1020	Operatin	2551.9	34.3	437.6	.0	.0	437.6	16.224	1.4199	
TIBAS	B	081001986 # 311/1020	Operatin	2152.6	63.1	305.7	.0	1.5	305.7	19.695	1.2041	
HRUW	C	081001884 # 322/1020	Proposal	2152.5	80.1	305.7	.0	1.5	305.7	18.622	1.1386	
HCCE1	C	081003692 # 319/1020	Operatin	2409.5	31.6	305.7	.0	.2	305.7	17.753	1.0854	
HCRV5	C	081003690 # 316/1020	Operatin	2699.8	29.5	305.7	.0	.0	305.7	15.015	.9180	
ZP14	B	081001779 # 325/1020	Operatin	4926.2	347.6	690.9	.0	.0	690.9	5.945	.8214	
XECUS	B	# 345/1020	Operatin	2734.3	85.0	336.5	.0	.0	336.5	12.128	.8162	
WIOJ-PROP		# 1/1010		2052.2	127.7	2281.1	.0	2.0	2281.1	16.742	.7638	
HJIX	B	081003251 # 219/1010	Operatin	1457.2	31.5	978.6	2.4	6.0	977.3	36.832	.7199	

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Exhibit EE-6
Nighttime Root Sum Squares Interference Study
(WIOJ Proposed facility indicated as "WIOJ-PROP")

Page 7 of 8

Nighttime limits to WOQI ADJUNTAS PR US N Lat 18 09 04 W Long 66 42 48
File No./arn BL-890606AL 1020 kHz FCC Rules (10%) IFRB Serial No. Class D: B/R2:B
Comments: All radiations are in mV/m at 1 km

*** ADJACENT CHANNEL ***																						
From Class	IFRB Ser #	Prefix/Freq	Arn	Dist (km)	Bearing	Rad on Gnd	Low Ang	Up Ang	Max Rad	Skywave FF	Limit	Running RSS										
YVRS	B	081001567	# 331/1020	Operatin		863.2		339.1		978.6		7.5		13.5		966.3		75.222		14.5379		14.5379 %
HJKS	B	081003266	# 310/1020	Operatin		1730.7		25.4		978.6		.9		4.0		978.4		28.991		5.6729		15.6055
HJFQ	B	081003262	# 309/1020	Operatin		1770.1		32.1		978.6		.7		3.7		978.5		27.895		5.4589		16.5327
HJFT	B	081003259	# 307/1020	Operatin		1787.6		30.6		978.6		.6		3.6		978.5		27.544		5.3904		17.3893
KDKA	A		BL /1020	950214AB		2794.6		149.2		3047.6		.0		.0		3047.6		7.921		4.8280		18.0471 %
HJDQ	B	081003260	# 308/1020	Operatin		1630.2		35.3		692.0		1.4		4.7		691.7		31.294		4.3293		18.5591
	B	090002059	# 284/1020	Operatin		1827.8		339.3		654.0		.4		3.3		654.0		26.917		3.5206		
HCEW2	B	081003691	# 318/1020	Operatin		2686.0		32.1		978.6		.0		.0		978.6		15.074		2.9502		
HCGO3	B	090002222	# 320/1020	Operatin		2806.5		30.7		978.7		.0		.0		978.7		14.136		2.7670		
WRHB	B		BL /1020	010406BC		1647.5		117.5		477.1		1.3		4.5		477.0		25.743		2.4560		
HJDY	B	081003258	# 306/1020	Operatin		1415.0		28.8		305.7		2.6		6.4		305.2		38.464		2.3481		
HCRS6	B	090002221	# 317/1020	Operatin		2574.3		30.9		692.0		.0		.0		692.0		16.096		2.2276		
CP 4	B	081000393	# 305/1020	Operatin		3855.6		2.4		978.6		.0		.0		978.6		8.868		1.7356		
HCSE4	C	081003689	# 315/1020	Operatin		2551.9		34.3		437.6		.0		.0		437.6		16.224		1.4199		
TIBAS	B	081001986	# 311/1020	Operatin		2152.6		63.1		305.7		.0		1.5		305.7		19.695		1.2041		
HRUW	C	081001884	# 322/1020	Proposal		2152.5		80.1		305.7		.0		1.5		305.7		18.622		1.1386		
YVQY	B	081001569	# 420/1030	Operatin		1061.3		17.6		978.6		5.3		10.3		972.4		57.359		1.1156		
HCCE1	C	081003692	# 319/1020	Operatin		2409.5		31.6		305.7		.0		.2		305.7		17.753		1.0854		
HCRV5	C	081003690	# 316/1020	Operatin		2699.8		29.5		305.7		.0		.0		305.7		15.015		.9180		
ZP14	B	081001779	# 325/1020	Operatin		4926.2		347.6		690.9		.0		.0		690.9		5.945		.8214		
XECUS	B		# 345/1020	Operatin		2734.3		85.0		336.5		.0		.0		336.5		12.128		.8162		
WIOJ-PROP	I		# 1/1010	I		2052.2		127.7		2281.1		.0		2.0		2281.1		16.742		.7638		
HJIX	B	081003251	# 219/1010	Operatin		1457.2		31.5		978.6		2.4		6.0		977.3		36.832		.7199		

Nighttime limits to WPMH PORTSMOUTH VA US N Lat 36 49 20 W Long 76 26 38
File No./arn BL- 1010 kHz FCC Rules (10%) IFRB Serial No. Class D: B/R2:B
Comments: All radiations are in mV/m at 1 km

***RSS USING CFRB-15 ***													
From Class	IFRB Ser #	Prefix/Freq	Arn	Dist (km)	Bearing	Rad on Gnd	Low Ang	Up Ang	Max Rad	Skywave FF	Limit	Running RSS	
WINS	B		BL /1010	990401DC	486.7	205.3	442.8	15.4	25.0	495.7	117.221	11.6212 %	
KDKA	A		BL /1020	950214AB	515.0	142.6	3047.6	14.5	23.7	2459.2	109.056	5.3639	12.7993
WFGW	B		BL /1010	921202AB	546.7	73.9	241.8	13.5	22.4	241.3	104.774	5.0559	13.7617
CFRB-15	A	12187	# 201/1010	Proposal	790.7	158.9	379.8	8.5	15.0	382.6	55.138	4.2193	14.3940 %
WMVP	A		BL /1000	911113AA	1136.3	115.5	4157.6	4.7	9.3	4104.7	30.714	2.5215	14.6132
OAX4U	A	081001198	# 238/1010	Operatin	5443.3	.7	2188.1	.0	.0	2188.1	3.926	1.7183	
WQYK	B		BL /1010	881130AG	1122.5	27.5	228.0	4.8	9.5	226.9	37.854	1.7176	
HJIX	B	081003251	# 219/1010	Operatin	3320.4	355.9	978.6	.0	.0	978.6	7.660	1.4991	
HJOP	B	081003252	# 220/1010	Operatin	3434.1	357.6	978.6	.0	.0	978.6	7.327	1.4341	
HJCC	B	081003253	# 221/1010	Operatin	3590.5	356.5	978.6	.0	.0	978.6	6.888	1.3481	
HJJR	B	081003255	# 223/1010	Operatin	3775.1	358.4	978.6	.0	.0	978.6	6.445	1.2614	
KXEN	B		BL /1010	981208AA	1214.3	96.0	208.7	4.0	8.4	207.2	28.964	1.2005	
XEHL	B		# 249/1010	Operatin	3165.7	49.7	693.3	.0	.0	693.3	6.369	.8830	
HJBN	B	081003256	# 224/1010	Operatin	3957.8	1.2	691.7	.0	.0	691.7	6.052	.8372	
WIOJ-PROP	I		# 1/1010	I	889.3	33.9	77.6	7.2	13.0	77.9	53.678	.8362	
HCLR6	B	081003684	# 227/1010	Operatin	4235.1	2.8	692.0	.0	.0	692.0	5.522	.7642	
HCRS6	C	081003685	# 229/1010	Operatin	4279.9	3.3	692.0	.0	.0	692.0	5.443	.7533	

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Exhibit EE-6
Nighttime Root Sum Squares Interference Study
(WIOJ Proposed facility indicated as "WIOJ-PROP")

Page 8 of 8

Nighttime limits to WPMH PORTSMOUTH VA US N Lat 36 49 20 W Long 76 26 38
File No./arn BL- 1010 kHz FCC Rules (10%) IFRB Serial No. Class D: B/R2:B
Comments: All radiations are in mV/m at 1 km

***RSS USING CFRB-8 ***

From Class	IFRB Ser #	Prefix/Freq	Arn	Dist (km)	Bearing	Rad on Gnd	Low Ang	Up Ang	Max Rad	Skywave FF	Limit	Running RSS
WINS	B	BL /1010	990401DC	486.7	205.3	442.8	15.4	25.0	495.7	117.221	11.6212	11.6212 %
KDKA	A	BL /1020	950214AB	515.0	142.6	3047.6	14.5	23.7	2459.2	109.056	5.3639	12.7993
WFGW	B	BL /1010	921202AB	546.7	73.9	241.8	13.5	22.4	241.3	104.774	5.0559	13.7617
CFRB-8	A	12187 # 199/1010	Operatin	790.5	158.9	406.3	8.5	15.0	443.3	55.161	4.8903	14.6048 %
WMVP	A	BL /1000	911113AA	1136.3	115.5	4157.6	4.7	9.3	4104.7	30.714	2.5215	14.8208
OAX4U	A	081001198 # 238/1010	Operatin	5443.3	.7	2188.1	.0	.0	2188.1	3.926	1.7183	
WQYK	B	BL /1010	881130AG	1122.5	27.5	228.0	4.8	9.5	226.9	37.854	1.7176	
HJIX	B	081003251 # 219/1010	Operatin	3320.4	355.9	978.6	.0	.0	978.6	7.660	1.4991	
HJOP	B	081003252 # 220/1010	Operatin	3434.1	357.6	978.6	.0	.0	978.6	7.327	1.4341	
HJCC	B	081003253 # 221/1010	Operatin	3590.5	356.5	978.6	.0	.0	978.6	6.888	1.3481	
HJJR	B	081003255 # 223/1010	Operatin	3775.1	358.4	978.6	.0	.0	978.6	6.445	1.2614	
KXEN	B	BL /1010	981208AA	1214.3	96.0	208.7	4.0	8.4	207.2	28.964	1.2005	
XEHL	B	# 249/1010	Operatin	3165.7	49.7	693.3	.0	.0	693.3	6.369	.8830	
HJBN	B	081003256 # 224/1010	Operatin	3957.8	1.2	691.7	.0	.0	691.7	6.052	.8372	
WIOJ-PROP	I	 # 1/1010 	I	889.3	33.9	77.6	7.2	13.0	77.9	53.678	.8362	
HCMR6	B	081003684 # 227/1010	Operatin	4235.1	2.8	692.0	.0	.0	692.0	5.522	.7642	
HCRS6	C	081003685 # 229/1010	Operatin	4279.9	3.3	692.0	.0	.0	692.0	5.443	.7533	

Nighttime limits to WVWI CHARLOTTE AMALIE VI US N Lat 18 20 11 W Long 64 56 41
File No./arn BL-800908AN 1000 kHz FCC Rules (10%) IFRB Serial No. Class D: B/R2:B
Comments: All radiations are in mV/m at 1 km

*** ADJACENT CHANNEL ***

From Class	IFRB Ser #	Prefix/Freq	Arn	Dist (km)	Bearing	Rad on Gnd	Low Ang	Up Ang	Max Rad	Skywave FF	Limit	Running RSS
YVNM	B	081001563 # 142/1000	Operatin	937.7	21.3	978.6	6.6	12.2	969.1	67.371	13.0577	13.0577
HJAQ	A	081003249 # 127/1000	Operatin	1425.5	51.1	1198.5	2.6	6.3	1196.6	37.104	8.8798	15.7909 %
ZYK-522	A	081010364 # 123/1000	Operatin	5063.2	335.3	6211.2	.0	.0	6211.2	5.629	6.9926	17.2698 %
HOK 36	B	081001125 # 139/1000	Operatin	2024.2	54.7	978.6	.0	2.2	978.6	22.014	4.3084	
WMVP	A	BL /1000	911113AA	3402.1	133.1	3699.6	.0	.0	3699.6	5.153	3.8128	
TIMIL	B	081001984 # 129/1000	Operatin	2260.9	63.5	978.6	.0	.9	978.6	18.149	3.5521	
HCAW2	B	081003681 # 135/1000	Operatin	2809.3	35.0	978.6	.0	.0	978.6	13.975	2.7350	
HIHG	C	081005013 # 133/1000	Operatin	723.0	99.6	154.7	9.6	16.7	151.5	89.851	2.7232	
XEOY	A	# 146/1000	Operatin	3592.1	86.1	1163.3	.0	.0	1163.3	7.172	1.6687	
WPR4	B	BL /0990	971024KB	233.7	85.1	288.7	31.1	45.1	224.1	293.773	1.3167	
CP 43	B	081000392 # 125/1000	Operatin	4018.6	357.2	692.0	.0	.0	692.0	8.294	1.1479	
HRXZ	C	081001880 # 137/1000	Operatin	2421.6	75.8	327.2	.0	.2	327.2	15.536	1.0167	
HCCR1	C	090002435 # 134/1000	Operatin	2581.6	36.2	309.5	.0	.0	309.5	15.847	.9809	
WIOJ-PROP	I	 # 1/1010 	I	2176.2	123.8	2973.5	.0	1.4	2973.5	15.051	.8951	
CKBW	B	000012184 # 116/1000	Operatin	2893.7	180.9	628.6	.0	.0	628.6	6.979	.8775	
CB100	B	081000518 # 126/1000	Operatin	5784.8	7.0	818.8	.0	.0	818.8	4.506	.7379	
OAZ4W	C	081001197 # 140/1000	Operatin	3534.3	23.5	327.2	.0	.0	327.2	10.005	.6548	

Special Exhibit EE-6A
Nighttime Root Sum Squares Interference Study With Respect To Existing Interference
(WIOJ Proposed facility indicated as "WIOJ-PROP")

Page 1 of 3

This exhibit demonstrates the Mcentee proposal's compliance with CFR47 Part 73.182 (q) (1). In all cases, existing interference is either dramatically reduced, or eliminated completely. The following RSS calculations present comparison in a before (existing) and after (proposed) format..

Nighttime limits to WMOX MERIDIAN MS US N Lat 32 23 42 W Long 88 39 28
File No./arn BL- 1010 kHz FCC Rules (10%) IFRB Serial No. Class D: B/R2:B
Comments: All radiations are in mV/m at 1 km

*** EXISTING USING (CFRB-8)-- WIOJ EXISTING AUTHORIZED CLASS D DELIBERATELY INCLUDED IN RSS ***

From Class	IFRB Ser #	Prefix/Freq	Arn	Dist (km)	Bearing	Rad on Gnd	Low Ang	Up Ang	Max Rad	Skywave FF	Limit	Running RSS	
CFRB-8	A	12187	# 199/1010	Operatin	1464.8	215.5	1399.1	2.3	6.0	1387.9	20.623	5.7245	5.7245 %
WFGW	B		BL /1010	921202AB	682.0	240.2	177.3	10.4	17.8	166.3	79.413	2.6412	6.3044
WIOJ	D	*EXISTING*	BL /1010		713.7	290.9	173.3	9.8	16.9	170.7	76.033	2.5954	6.8177
XEHL	B		# 249/1010	Operatin	1959.2	45.4	693.3	.0	2.5	693.3	17.599	2.4402	7.6414
OAX4U	A	081001198	# 238/1010	Operatin	5101.4	346.4	2188.1	.0	.0	2188.1	4.696	2.0550	7.9129 %
KDKA	A		BL /1020	950214AB	1194.3	223.3	3047.6	4.2	8.6	2993.6	31.339	1.8763	
HJIX	B	081003251	# 219/1010	Operatin	3206.3	333.5	978.6	.0	.0	978.6	8.779	1.7182	
HJOP	B	081003252	# 220/1010	Operatin	3266.3	335.8	978.6	.0	.0	978.6	8.633	1.6896	

Nighttime limits to WMOX MERIDIAN MS US N Lat 32 23 42 W Long 88 39 28
File No./arn BL- 1010 kHz FCC Rules (10%) IFRB Serial No. Class D: B/R2:B
Comments: All radiations are in mV/m at 1 km

*** PROPOSED "WIOJ-PROP" USING (CFRB-8) ***

From Class	IFRB Ser #	Prefix/Freq	Arn	Dist (km)	Bearing	Rad on Gnd	Low Ang	Up Ang	Max Rad	Skywave FF	Limit	Running RSS	
CFRB-8	A	12187	# 199/1010	Operatin	1464.8	215.5	1399.1	2.3	6.0	1387.9	20.623	5.7245	5.7245 %
WFGW	B		BL /1010	921202AB	682.0	240.2	177.3	10.4	17.8	166.3	79.413	2.6412	6.3044
XEHL	B		# 249/1010	Operatin	1959.2	45.4	693.3	.0	2.5	693.3	17.599	2.4402	6.7602
OAX4U	A	081001198	# 238/1010	Operatin	5101.4	346.4	2188.1	.0	.0	2188.1	4.696	2.0550	7.0656
KDKA	A		BL /1020	950214AB	1194.3	223.3	3047.6	4.2	8.6	2993.6	31.339	1.8763	7.3105 %
HJIX	B	081003251	# 219/1010	Operatin	3206.3	333.5	978.6	.0	.0	978.6	8.779	1.7182	
HJOP	B	081003252	# 220/1010	Operatin	3266.3	335.8	978.6	.0	.0	978.6	8.633	1.6896	
WIOJ-PROP	I	# 1/1010			672.9	292.0	168.8	10.6	18.0	99.6	82.528	1.6439	
HJCC	B	081003253	# 221/1010	Operatin	3442.0	335.6	978.6	.0	.0	978.6	7.989	1.5635	

Special Exhibit EE-6A
Nighttime Root Sum Squares Interference Study With Respect To Existing Interference
(WIOJ Proposed facility indicated as "WIOJ-PROP")

Page 2 of 3

Nighttime limits to WMOX			MERIDIAN		MS		US		N Lat 32 23 42 W Long		88 39 28														
File No./arn		BL-		1010 kHz		FCC Rules		(10%)		IFRB Serial No.		Class D: B/R2:B													
Comments: All radiations are in mV/m at 1 km																									
*** EXISTING USING (CFRB-15)-- WIOJ EXISTING AUTHORIZED CLASS D DELIBERATELY INCLUDED IN RSS ***																									
From Class		IFRB Ser #		Prefix/Freq		Arn		Dist (km)		Bearing		Rad on Gnd		Low Ang		Up Ang		Max Rad		Skywave FF		Limit		Running RSS	
CFRB-15 A		12187		# 201/1010		Proposal		1465.0		215.5		751.3		2.3		6.0		742.2		20.616		3.0605		3.0605	
WFGW B				BL /1010		921202AB		682.0		240.2		177.3		10.4		17.8		166.3		79.413		2.6412		4.0425	
WIOJ D		*EXISTING*		BL /1010				713.7		290.9		173.3		9.8		16.9		170.7		76.033		2.5954		4.8040 %	
XEHL B				# 249/1010		Operatin		1959.2		45.4		693.3		.0		2.5		693.3		17.599		2.4402		5.3882	
OAX4U A		081001198		# 238/1010		Operatin		5101.4		346.4		2188.1		.0		.0		2188.1		4.696		2.0550		5.7668	
KDKA A				BL /1020		950214AB		1194.3		223.3		3047.6		4.2		8.6		2993.6		31.339		1.8763		6.0643	
HJIX B		081003251		# 219/1010		Operatin		3206.3		333.5		978.6		.0		.0		978.6		8.779		1.7182		6.3031	
HJOP B		081003252		# 220/1010		Operatin		3266.3		335.8		978.6		.0		.0		978.6		8.633		1.6896		6.5256 %	
HJCC B		081003253		# 221/1010		Operatin		3442.0		335.6		978.6		.0		.0		978.6		7.989		1.5635			

Nighttime limits to WMOX		MERIDIAN		MS		US		N Lat 32 23 42 W Long		88 39 28		
File No./arn	BL-	1010 kHz		FCC Rules		(10%)		IFRB Serial No.		Class D: B/R2:B		
Comments: All radiations are in mV/m at 1 km												
*** PROPOSED "WIOJ-PROP" USING (CFRB-15) ***												
From Class	IFRB Ser #	Prefix/Freq	Arn	Dist (km)	Bearing	Rad on Gnd	Low Ang	Up Ang	Max Rad	Skywave FF	Limit	Running RSS
CFRB-15 A	12187	# 201/1010	Proposal	1465.0	215.5	751.3	2.3	6.0	742.2	20.616	3.0605	3.0605
WFGW B		BL /1010	921202AB	682.0	240.2	177.3	10.4	17.8	166.3	79.413	2.6412	4.0425
XEHL B		# 249/1010	Operatin	1959.2	45.4	693.3	.0	2.5	693.3	17.599	2.4402	4.7219 %
OAX4U A	081001198	# 238/1010	Operatin	5101.4	346.4	2188.1	.0	.0	2188.1	4.696	2.0550	5.1497
KDKA A		BL /1020	950214AB	1194.3	223.3	3047.6	4.2	8.6	2993.6	31.339	1.8763	5.4809
HJIX B	081003251	# 219/1010	Operatin	3206.3	333.5	978.6	.0	.0	978.6	8.779	1.7182	5.7439
HJOP B	081003252	# 220/1010	Operatin	3266.3	335.8	978.6	.0	.0	978.6	8.633	1.6896	5.9872
WIOJ-PROP		# 1/1010		672.9	292.0	168.8	10.6	18.0	99.6	82.528	1.6439	6.2087
HJCC B	081003253	# 221/1010	Operatin	3442.0	335.6	978.6	.0	.0	978.6	7.989	1.5635	6.4026 %
HJJR B	081003255	# 223/1010	Operatin	3565.1	338.4	978.6	.0	.0	978.6	7.680	1.5032	
KXEN B		BL /1010	981208AA	719.6	169.4	83.4	9.7	16.7	102.9	72.339	1.4885	

Ray Barnes & Associates
Broadcast Technical Consultants

Special Exhibit EE-6A
Nighttime Root Sum Squares Interference Study With Respect To Existing Interference
(WIOJ Proposed facility indicated as “WIOJ-PROP”)

Page 3 of 3

Nighttime limits to WQYK SEFFNER FL US N Lat 27 59 25 W Long 82 15 06

File No./arn BL-881130AG 1010 kHz FCC Rules (10%) IFRB Serial No. Class D: B/R2:B

Comments: All radiations are in mV/m at 1 km

*** EXISTING-- WIOJ EXISTING AUTHORIZED CLASS D DELIBERATELY INCLUDED IN RSS ***

From Class	IFRB Ser #	Prefx/Freq	Arn	Dist (km)	Bearing	Rad on Gnd	Low Ang	Up Ang	Max Rad	Skywave FF	Limit	Running RSS	
WIOJ	D	*EXISTING*	BL /1010		265.1	195.0	28.8	27.9	41.4	62.6	236.167	2.9557	2.9557
HJIX	B	081003251	# 219/1010	Operatin	2489.8	340.2	978.6	.0	.0	978.6	14.507	2.8391	4.0983
HJOP	B	081003252	# 220/1010	Operatin	2568.4	343.3	978.6	.0	.0	978.6	13.937	2.7276	4.9230
OAX4U	A	081001198	# 238/1010	Operatin	4495.5	353.0	2188.1	.0	.0	2188.1	6.186	2.7074	5.6184 %
HJCC	B	081003253	# 221/1010	Operatin	2740.3	342.5	978.6	.0	.0	978.6	12.658	2.4774	6.1403
HJJR	B	081003255	# 223/1010	Operatin	2887.2	345.9	978.6	.0	.0	978.6	11.794	2.3083	6.5598
CFRB-15	A	12187	# 201/1010	Proposal	1740.9	188.6	699.8	.8	3.9	698.9	16.198	2.2643	6.9396
XEHL	B		# 249/1010	Operatin	2290.8	65.1	693.3	.0	.8	693.3	14.177	1.9656	7.2126
WFGW	B		BL /1010	921202AB	846.7	179.3	169.2	7.7	13.8	164.7	59.150	1.9488	7.4713 %
HRLT	C	081001882	# 236/1010	Proposal	1552.7	18.8	309.5	1.8	5.2	309.3	28.977	1.7924	
HRSP	C	081001881	# 234/1010	Proposal	1572.5	16.1	309.5	1.7	5.1	309.3	28.519	1.7642	

Nighttime limits to WQYK SEFFNER FL US N Lat 27 59 25 W Long 82 15 06

File No./arn BL-881130AG 1010 kHz FCC Rules (10%) IFRB Serial No. Class D: B/R2:B

Comments: All radiations are in mV/m at 1 km

*** PROPOSED "WIOJ-PROP" ***

PROCESS WIOJ-PROP													
From Class	IFRB Ser #	Prefix/Freq	Arn	Dist (km)	Bearing	Rad on Gnd	Low Ang	Up Ang	Max Rad	Skywave FF	Limit	Running RSS	
HJIX	B	081003251	# 219/1010	Operatin	2489.8	340.2	978.6	.0	.0	978.6	14.507	2.8391	2.8391
HJOP	B	081003252	# 220/1010	Operatin	2568.4	343.3	978.6	.0	.0	978.6	13.937	2.7276	3.9370
OAX4U	A	081001198	# 238/1010	Operatin	4495.5	353.0	2188.1	.0	.0	2188.1	6.186	2.7074	4.7781
HJCC	B	081003253	# 221/1010	Operatin	2740.3	342.5	978.6	.0	.0	978.6	12.658	2.4774	5.3821 %
HJJR	B	081003255	# 223/1010	Operatin	2887.2	345.9	978.6	.0	.0	978.6	11.794	2.3083	5.8562
WIOJ-PROP	I		# 1/1010		257.8	185.3	377.2	28.6	42.2	47.4	241.705	2.2898	6.2879
CFRB-15	A	12187	# 201/1010	Proposal	1740.9	188.6	699.8	.8	3.9	698.9	16.198	2.2643	6.6832
XEHL	B		# 249/1010	Operatin	2290.8	65.1	693.3	.0	.8	693.3	14.177	1.9656	6.9662
WFGW	B		BL /1010	921202AB	846.7	179.3	169.2	7.7	13.8	164.7	59.150	1.9488	7.2337 %
HRLT	C	081001882	# 236/1010	Proposal	1552.7	18.8	309.5	1.8	5.2	309.3	28.977	1.7924	
HRSP	C	081001881	# 234/1010	Proposal	1572.5	16.1	309.5	1.7	5.1	309.3	28.519	1.7642	