

## Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

### Skywave Interference Protection FCC Form 301 §III-A, Question 10.b.

The proposed facility meets all FCC Rules pertaining to skywave protection of all existing stations, permits, and applications, as summarized below.

#### RSS Calculations

The proposed facility enters into the 25% RSS of four stations (WHEN, WPRO, WVMT, and WZON), but its contributions do not increase over those now authorized, as shown in the following Exhibit 15B.

Per FCC policy, Cuban and Dominican Republic Stations were not included in RSS calculation to US stations but were included in RSS calculations to foreign stations.

As shown in the table below, two stations make up the 50% RSS of the proposed facility, giving an Interference-Free contour level of 19.72 mV/m:

To WSNR	620 kHz	proposed										
From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
WHEN	620	310	144.2	53.4	24.2	36.9	0.1902	24.2	370.4	14.09	14.09	
WVMT	620	419	189.4	54.1	18.0	28.7	0.1296	18.0	532.0	13.79	19.72	- 50%
WZON	620	619	225.6	54.3	11.7	19.7	0.0732	11.7	374.9	5.49	20.47	- 25%
WRJZ	620	1007	54.9	49.8	5.9	11.1	0.0391	5.9	584.8	4.57		
WKHB	620	482	81.2	52.0	15.5	25.3	0.1143	15.5	193.8	4.43		
WIP	610	139	40.5	51.8	45.6	59.5	0.3581	53.5	456.3	3.27		
WDAE	620	1636	26.3	45.7	1.3	4.6	0.0189	1.3	547.7	2.08		
WDNC	620	683	37.4	49.8	10.4	17.8	0.0730	10.4	133.9	1.96		

#### “Clipping” Study

RSS calculations have been performed at 1° increments along the Nighttime Interference-Free (NIF) contours of all stations entitled to protection, and the proposed facility provides the required protections for all points over land. Measured soil data was used, where available, to project the NIF contour of affected stations (see Exhibit 14F).

#### Skywave Study

There are no co-channel or first-adjacent Class A stations for which skywave contour protection is required.



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## Skywave Interference Protection

Following are definitions for column heading abbreviations used in the tables:

Freq	is frequency in kilohertz.
Dist	is distance, in kilometers.
Bear	is azimuth, in degrees east from true north.
GM	is geomagnetic latitude of path midpoint, in degrees.
Tmin	is lower pertinent departure angle, in degrees.
Tmax	is higher pertinent departure angle, in degrees.
Skywv	is the 10% skywave signal for 100 mV/m radiated at 1 km, in mV/m.
Thet	is the departure angle between Tmin and Tmax where the radiation is greatest, in degrees. Note: for interference to Canada and Mexico, Thet = Tmin = Tmax departure angle (1) of Section 73.190, Figure 6a.
Rmax	is the radiation at departure angle Thet, in mV/m at 1 km.
Limit	is 20 times the skywave field at the receive point for co-channel stations and 2 times the skywave field for first adjacent stations, in mV/m.
RSS	is the square root of the sum of the squares of the limits, using the 50% and 25% exclusion rules, in mV/m.

To KARV 610 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS
KCSP	610	430	161.8	47.4	17.5	28.1	0.1429	17.5	643.8	18.40	18.40 - 50%
WEZN	610	610	291.0	45.0	11.9	20.0	0.0928	11.9	283.4	5.26	19.14 - 25%
WREC	600	286	273.2	45.7	26.1	39.3	0.2241	26.1	717.0	3.21	
WIOD	610	1626	313.4	41.6	1.4	4.7	0.0211	1.4	607.3	2.57	
KILT	610	635	19.0	42.8	11.3	19.2	0.0892	11.3	143.7	2.56	
WSNR-CP	620	1754	255.5	49.5	0.7	3.8	0.0143	0.7	54.3	0.02	
WSNR-Prop	620	1778	256.0	49.5	0.6	3.6	0.0139	3.6	84.5	0.02	

To KAVL 610 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS
KFRC	610	508	132.2	42.9	14.7	24.0	0.1193	14.7	599.0	14.29	14.29 - 50%
KVNU	610	947	217.1	45.6	6.5	12.0	0.0481	6.5	388.2	3.73	14.77 - 25%
KOGO	600	243	335.4	40.8	30.1	43.9	0.2541	30.1	526.0	2.67	
KTAR	620	585	285.2	41.6	12.5	20.9	0.1000	12.5	870.0	1.74	
KNML	610	1050	271.3	42.9	5.4	10.4	0.0426	5.4	201.7	1.72	
WSNR-CP	620	3871	274.3	49.7	0.0	0.0	0.0024	0.0	69.1	0.00	
WSNR-Prop	620	3897	274.5	49.8	0.0	0.0	0.0024	0.0	92.0	0.00	



# Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

## Skywave Interference Protection

To KDAL 610 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
KCSP	610	883	12.3	53.1	7.3	13.1	0.0429	7.3	682.5	5.86	5.86	
WIP	610	1573	304.6	54.7	1.7	5.1	0.0128	1.7	1219.6	3.11	6.64	- 50%
WTVN	610	1063	318.7	54.2	5.3	10.3	0.0290	10.3	414.0	2.40	7.06	
CKTB	610	1102	296.3	56.0	5.0	9.7	0.0239	5.0	456.4	2.18	7.39	- 25%
KNML	610	1775	38.6	50.6	0.6	3.7	0.0131	3.7	652.4	1.71		
WTFX	610	1407	311.0	54.1	2.7	6.5	0.0168	2.7	419.3	1.41		
CFLO	610	1271	276.9	57.9	3.6	7.8	0.0149	3.6	457.4	1.36		
WSNR-CP	620	1569	300.5	55.2	1.7	5.1	0.0122	1.7	152.2	0.04		
WSNR-Prop	620	1593	300.4	55.2	1.6	4.9	0.0118	1.6	185.6	0.04		

To KFRC 610 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
KOGO	600	741	321.7	42.0	9.3	16.2	0.0722	9.3	876.1	1.27	1.27	
KCSP	610	2404	275.8	47.6	0.0	0.0	0.0083	0.0	690.9	1.15	1.71	
KNML	610	1431	287.2	44.3	2.5	6.2	0.0250	2.5	223.2	1.12	2.04	
KAVL	610	508	314.6	42.9	14.7	24.0	0.1193	24.0	45.4	1.08	2.31	- 50%
KIGS	620	295	305.8	43.6	25.3	38.3	0.2173	25.3	248.2	1.08	2.55	
KRTA	610	506	175.3	46.2	14.7	24.1	0.1177	14.7	42.6	1.00	2.74	
KPOJ	620	842	178.4	47.7	7.8	13.9	0.0555	7.8	712.0	0.79	2.85	- 25%
KONA	610	963	197.2	48.4	6.3	11.8	0.0440	6.3	79.9	0.70		
KOJM	610	1569	225.2	50.4	1.7	5.1	0.0170	1.7	198.0	0.67		
KDAL	610	2646	259.1	51.6	0.0	0.0	0.0052	0.0	649.8	0.67		
WSNR-CP	620	4085	281.4	51.5	0.0	0.0	0.0018	0.0	84.6	0.00		
WSNR-Prop	620	4111	281.6	51.6	0.0	0.0	0.0017	0.0	108.6	0.00		

To KILT 610 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
KCSP	610	1011	184.4	44.6	5.8	11.0	0.0442	5.8	685.6	6.05	6.05	
XEBX	610	601	66.4	38.8	12.1	20.3	0.0992	12.1	211.7	4.20	7.37	
WEZN	610	901	246.1	42.3	7.0	12.8	0.0542	7.0	344.8	3.74	8.26	- 50%
WIOD	610	1566	290.3	38.9	1.7	5.1	0.0240	1.7	729.7	3.50	8.97	
KARV	610	635	200.2	42.8	11.3	19.2	0.0892	11.3	184.2	3.28	9.55	- 25%
KNML	610	1196	115.2	42.1	4.2	8.6	0.0350	4.2	320.0	2.24		
KMKI	620	384	163.8	41.6	19.7	31.0	0.1656	19.7	514.3	1.70		
WREC	600	776	222.3	43.0	8.8	15.4	0.0672	8.8	1037.3	1.39		
WSNR-CP	620	2256	244.1	46.8	0.0	1.0	0.0098	0.0	72.2	0.01		
WSNR-Prop	620	2277	244.6	46.8	0.0	0.9	0.0097	0.9	79.9	0.02		

To KCSP 610 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
WMT	600	430	218.3	50.8	17.5	28.1	0.1363	17.5	915.5	2.49	2.49	
WIP	610	1676	272.9	50.8	1.1	4.3	0.0146	4.3	596.3	1.74	3.04	
WIOD	610	1989	320.8	43.5	0.0	2.4	0.0141	0.0	577.1	1.63	3.45	- 50%
KMNS	620	407	157.2	50.7	18.6	29.5	0.1464	18.6	461.9	1.35	3.71	
XEBX	610	1374	24.3	43.3	2.9	6.8	0.0273	2.9	218.4	1.19	3.89	
KFRC	610	2404	78.4	47.6	0.0	0.0	0.0083	0.0	630.6	1.05	4.03	- 25%
KDAL	610	883	193.9	53.1	7.3	13.1	0.0429	7.3	105.8	0.91		
KILT	610	1011	3.9	44.6	5.8	11.0	0.0442	11.0	98.3	0.87		
CFLO	610	1767	248.5	54.1	0.7	3.7	0.0104	0.7	381.1	0.80		
WSNR-CP	620	1739	269.8	51.3	0.8	3.9	0.0131	0.8	65.6	0.02		
WSNR-Prop	620	1764	270.1	51.3	0.7	3.7	0.0127	0.7	94.7	0.02		



# Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

## Skywave Interference Protection

To KOJM 610 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
KVNU	610	788	12.3	53.1	8.6	15.1	0.0522	8.6	381.2	3.98	3.98	
KNML	610	1526	351.6	50.2	1.9	5.5	0.0181	1.9	923.3	3.33	5.19	- 50%
KDAL	610	1322	285.4	57.3	3.2	7.3	0.0146	3.2	879.0	2.57	5.79	
KFRC	610	1569	36.5	50.4	1.7	5.1	0.0170	1.7	630.2	2.14	6.17	
KCSP	610	1605	316.5	53.3	1.5	4.8	0.0136	1.5	690.5	1.88	6.45	- 25%
KONA	610	757	65.9	54.8	9.1	15.8	0.0515	9.1	94.6	0.97		
KAVL	610	1695	21.9	49.2	1.0	4.2	0.0155	1.0	262.9	0.82		
WIP	610	2888	301.1	56.0	0.0	0.0	0.0026	0.0	1168.2	0.61		
WSNR-CP	620	2890	299.2	56.5	0.0	0.0	0.0024	0.0	149.6	0.01		
WSNR-Prop	620	2914	299.3	56.6	0.0	0.0	0.0023	0.0	186.2	0.01		

To KONA 610 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
KFRC	610	963	15.0	48.4	6.3	11.8	0.0440	6.3	624.7	5.50	5.50	- 50%
KVNU	610	759	313.6	51.2	9.0	15.8	0.0595	9.0	222.3	2.65	6.10	
KRTA	610	514	33.7	50.6	14.5	23.8	0.1083	14.5	85.7	1.86	6.38	- 25%
KAVL	610	1277	356.9	47.2	3.6	7.7	0.0282	3.6	202.1	1.14		
KCSP	610	2144	299.8	51.9	0.0	1.5	0.0081	0.0	690.9	1.12		
KDAL	610	2051	278.2	55.9	0.0	2.0	0.0062	0.0	822.7	1.02		
WSNR-CP	620	3606	294.7	55.7	0.0	0.0	0.0015	0.0	135.5	0.00		
WSNR-Prop	620	3631	294.8	55.7	0.0	0.0	0.0014	0.0	177.4	0.01		

To KRTA 610 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
KFRC	610	506	355.6	46.2	14.7	24.1	0.1177	14.7	599.0	14.10	14.10	- 50%
KONA	610	514	216.3	50.6	14.5	23.8	0.1083	14.5	321.0	6.95	15.72	- 25%
KPOJ	620	338	182.8	49.9	22.3	34.5	0.1840	22.3	685.2	2.52		
KVNU	610	898	278.7	49.1	7.1	12.9	0.0484	7.1	236.3	2.29		
KAVL	610	942	336.3	45.1	6.6	12.1	0.0489	6.6	140.2	1.37		
WSNR-CP	620	3974	288.9	53.9	0.0	0.0	0.0014	0.0	113.0	0.00		
WSNR-Prop	620	3999	289.1	54.0	0.0	0.0	0.0014	0.0	150.5	0.00		

To KVNU 610 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
KFRC	610	981	61.1	46.9	6.1	11.5	0.0443	6.1	625.0	5.53	5.53	
KNML	610	869	329.7	46.7	7.4	13.4	0.0539	7.4	316.2	3.41	6.50	- 50%
KCSP	610	1494	287.1	49.8	2.1	5.7	0.0192	2.1	690.2	2.65	7.02	
KAVL	610	947	33.3	45.6	6.5	12.0	0.0481	6.5	259.2	2.49	7.45	
KRTA	610	898	91.4	49.1	7.1	12.9	0.0484	7.1	245.7	2.38	7.82	
KONA	610	759	128.7	51.2	9.0	15.8	0.0595	9.0	186.8	2.22	8.13	
KOJM	610	788	194.0	53.1	8.6	15.1	0.0522	8.6	200.7	2.09	8.39	- 25%
KDAL	610	1666	257.5	53.8	1.2	4.4	0.0121	1.2	632.9	1.53		
XEBX	610	1820	330.3	43.7	0.4	3.4	0.0165	0.4	218.8	0.72		
KTAR	620	911	0.3	45.5	6.9	12.6	0.0512	6.9	599.5	0.61		
WSNR-CP	620	3118	284.3	53.1	0.0	0.0	0.0030	0.0	94.6	0.01		
WSNR-Prop	620	3144	284.4	53.1	0.0	0.0	0.0030	0.0	123.3	0.01		



# Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

## Skywave Interference Protection

To KNML 610 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
KCSP	610	1154	251.4	46.6	4.5	9.1	0.0341	4.5	687.7	4.69	4.69	
KFRC	610	1431	97.9	44.3	2.5	6.2	0.0250	2.5	629.7	3.15	5.64	
KAVL	610	1050	84.7	42.9	5.4	10.4	0.0426	5.4	346.9	2.95	6.37	- 50%
XEBX	610	952	328.1	40.6	6.5	11.9	0.0505	6.5	216.7	2.19	6.74	
KILT	610	1196	301.3	42.1	4.2	8.6	0.0350	4.2	299.2	2.09	7.05	
KVNU	610	869	146.4	46.7	7.4	13.4	0.0539	13.4	191.3	2.06	7.35	- 25%
KROD	600	348	355.9	42.3	21.7	33.7	0.1846	21.7	436.5	1.61		
KRTA	610	1615	115.1	46.5	1.5	4.8	0.0189	1.5	332.3	1.26		
WEZN	610	1823	280.9	44.6	0.4	3.4	0.0161	0.4	360.4	1.16		
WSNR-CP	620	2889	267.6	49.5	0.0	0.0	0.0050	0.0	64.8	0.01		
WSNR-Prop	620	2915	267.9	49.6	0.0	0.0	0.0048	0.0	96.8	0.01		

To WEZN 610 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
KCSP	610	924	128.9	46.8	6.8	12.4	0.0488	6.8	683.6	6.67	6.67	
WIOD	610	1069	324.2	40.8	5.3	10.2	0.0423	5.3	561.1	4.75	8.19	
KILT	610	901	61.6	42.3	7.0	12.8	0.0542	7.0	387.7	4.21	9.20	- 50%
KARV	610	610	107.4	45.0	11.9	20.0	0.0928	11.9	189.4	3.52	9.85	
WTVN	610	790	207.3	47.7	8.5	15.1	0.0614	8.5	203.3	2.50	10.16	- 25%
WREC	600	344	122.5	45.1	21.9	34.0	0.1864	21.9	642.7	2.40		
WVBEa	610	750	237.7	46.5	9.2	16.0	0.0678	9.2	171.5	2.33		
WRJZ	620	392	225.9	45.7	19.3	30.5	0.1611	30.5	712.6	2.30		
WSNR-CP	620	1377	237.6	48.5	2.9	6.7	0.0236	2.9	110.0	0.05		
WSNR-Prop	620	1396	238.5	48.5	2.7	6.6	0.0230	6.6	110.0	0.05		

To WFNZ 610 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
WEZN	610	584	68.3	45.5	12.5	20.9	0.0980	20.9	274.4	5.38	5.38	
WIP	610	719	226.9	48.9	9.7	16.8	0.0689	9.7	311.9	4.30	6.89	
WIOD	610	1053	356.3	41.8	5.4	10.4	0.0429	5.4	484.2	4.16	8.05	- 50%
WTFX	610	494	209.4	48.5	15.1	24.7	0.1183	15.1	162.1	3.84	8.91	
KCSP	610	1283	104.4	48.1	3.5	7.7	0.0272	3.5	689.0	3.74	9.67	
WRJZ	620	277	105.3	46.8	26.8	40.2	0.2302	40.2	729.3	3.36	10.23	
WVBEa	610	236	199.2	47.5	30.9	44.9	0.2639	30.9	57.0	3.01	10.67	- 25%
KILT	610	1485	62.5	43.6	2.2	5.8	0.0238	2.2	397.7	1.89		
WSJS	600	103	208.2	46.9	54.1	66.4	0.4062	54.1	210.0	1.71		
WTVN	610	541	159.5	48.7	13.7	22.6	0.1044	13.7	81.6	1.70		
WSNR-CP	620	842	225.0	49.5	7.8	13.9	0.0531	7.8	167.7	0.18		
WSNR-Prop	620	857	226.6	49.4	7.6	13.6	0.0516	7.6	163.3	0.17		

To WGIR 610 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
WIP	610	463	39.6	52.9	16.2	26.3	0.1177	26.3	319.7	7.53	7.53	- 50%
CFLO	610	505	139.7	56.3	14.8	24.2	0.0917	14.8	140.2	2.57	7.96	- 25%
WVMT	620	219	139.8	55.3	32.8	47.0	0.2534	32.8	387.2	1.96		
CKTB	610	625	87.6	54.5	11.6	19.5	0.0716	11.6	97.7	1.40		
KCSP	610	1987	69.5	52.6	0.0	2.4	0.0091	0.0	690.9	1.25		
WSNR-CP	620	338	43.5	53.4	22.3	34.5	0.1727	22.3	72.5	0.25		
WSNR-Prop	620	324	40.0	53.4	23.2	35.7	0.1812	35.7	77.5	0.28		



# Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

## Skywave Interference Protection

To WEXS 610 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
WAEI	600	123	98.6	29.6	49.3	62.6	0.4111	49.3	554.0	4.55	4.55	
WIOD	610	1696	118.1	33.6	1.0	4.2	0.0245	1.0	613.5	3.01	5.46	- 50%
WIP	610	2582	157.6	40.5	0.0	0.0	0.0093	0.0	1188.4	2.22	5.89	
ABS	620	456	282.7	29.0	16.5	26.6	0.1593	16.5	639.1	2.04	6.24	- 25%
WFNZ	610	2418	138.8	38.3	0.0	0.0	0.0115	0.0	607.3	1.39		
WVBEa	610	2544	143.7	39.3	0.0	0.0	0.0100	0.0	559.5	1.12		
WGIR	610	2827	167.8	42.0	0.0	0.0	0.0075	0.0	550.8	0.83		
WSNR-CP	620	2660	160.2	41.0	0.0	0.0	0.0087	0.0	1374.0	0.24		
WSNR-Prop	620	2648	160.8	41.0	0.0	0.0	0.0088	0.0	2337.0	0.41		

To WIP 610 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
KCSP	610	1676	80.5	50.8	1.1	4.3	0.0146	1.1	690.7	2.02	2.02	
WGIR	610	463	222.1	52.9	16.2	26.3	0.1177	16.2	84.0	1.98	2.83	
WIOD	610	1627	15.5	44.2	1.4	4.7	0.0200	1.4	476.4	1.90	3.41	
WCAO	600	149	70.5	51.0	43.6	57.7	0.3484	55.8	268.3	1.87	3.89	- 50%
WTFX	610	277	73.5	50.9	26.9	40.2	0.2229	26.9	33.1	1.47	4.16	
WHEN	620	370	165.6	52.9	20.4	32.0	0.1571	20.4	466.8	1.47	4.41	
CKTB	610	488	134.9	52.8	15.3	25.0	0.1097	15.3	63.8	1.40	4.62	
WEZN	610	1264	52.5	48.0	3.6	7.9	0.0280	7.9	230.1	1.29	4.80	
WSNG	610	273	220.2	52.3	27.2	40.6	0.2217	27.2	28.7	1.27	4.97	- 25%
WFNZ	610	719	43.4	48.9	9.7	16.8	0.0689	16.8	71.6	0.99		
WTVN	610	671	87.6	51.2	10.6	18.1	0.0722	18.1	67.4	0.97		
WVMT	620	542	197.3	53.6	13.7	22.6	0.0920	13.7	472.5	0.87		
WSNR-CP	620	127	211.2	51.8	48.2	61.7	0.3720	48.2	94.1	0.70		
WSNR-Prop	620	139	221.2	51.8	45.6	59.5	0.3581	45.6	105.6	0.76		

To WSNG 610 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
WIP	610	273	38.8	52.3	27.2	40.6	0.2217	40.6	414.1	18.36	18.36	-50&25%
WGIR	610	190	223.2	53.9	36.7	51.0	0.2908	51.0	67.9	3.95		
WVMT	620	309	177.4	54.6	24.3	37.0	0.1849	24.3	551.8	2.04		
CFLO	610	567	159.0	55.6	13.0	21.6	0.0792	13.0	113.1	1.79		
WSNR-CP	620	148	46.3	52.8	43.9	57.9	0.3443	43.9	66.4	0.46		
WSNR-Prop	620	134	37.7	52.7	46.8	60.5	0.3610	53.1	110.7	0.80		

To WTFX 610 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
WIP	610	277	255.4	50.9	26.9	40.2	0.2229	40.2	482.9	21.53	21.53	-50&25%
KCSP	610	1414	83.8	50.2	2.6	6.4	0.0209	2.6	689.8	2.88		
WVBEa	610	264	36.5	49.5	28.0	41.5	0.2364	28.0	48.4	2.29		
WIOD	610	1495	6.5	43.8	2.1	5.7	0.0234	2.1	478.8	2.24		
WSNR-CP	620	378	242.2	51.4	20.0	31.5	0.1579	20.0	79.2	0.25		
WSNR-Prop	620	399	244.6	51.4	18.9	30.0	0.1480	30.0	122.1	0.36		



# Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

## Skywave Interference Protection

To WIOD 610 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
WDAE	620	330	132.5	38.1	22.8	35.1	0.1989	22.8	830.1	3.30	3.30	
KCSP	610	1989	132.9	43.5	0.0	2.4	0.0141	0.0	690.9	1.95	3.84	- 50%
WIP	610	1627	198.2	44.2	1.4	4.7	0.0200	4.7	410.6	1.64	4.17	
WEXS	610	1696	303.4	33.6	1.0	4.2	0.0245	1.0	284.9	1.40	4.40	
KARV	610	1626	126.7	41.6	1.4	4.7	0.0211	1.4	317.8	1.34	4.60	
KILT	610	1566	103.1	38.9	1.7	5.1	0.0240	1.7	272.1	1.30	4.78	- 25%
WFNZ	610	1053	176.0	41.8	5.4	10.4	0.0429	10.4	119.7	1.03		
WTVN	610	1581	169.6	44.1	1.6	5.0	0.0211	1.6	216.6	0.91		
JBC	620	915	343.4	33.2	6.9	12.6	0.0626	6.9	686.0	0.86		
WSNR-CP	620	1752	199.6	44.7	0.7	3.8	0.0172	0.7	195.7	0.07		
WSNR-Prop	620	1757	200.6	44.7	0.7	3.8	0.0171	0.7	341.2	0.12		

To WVBE 610 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
WIP	610	514	237.9	50.0	14.5	23.8	0.1094	23.8	313.2	6.85	6.85	
WFNZ	610	236	18.7	47.5	30.9	44.9	0.2639	44.9	120.2	6.34	9.34	
WTFX	610	264	217.6	49.5	28.0	41.5	0.2364	28.0	117.0	5.53	10.85	- 50%
WTVN	610	383	137.3	49.8	19.7	31.1	0.1597	31.1	134.3	4.29	11.67	
KCSP	610	1288	93.8	49.2	3.5	7.6	0.0260	3.5	689.0	3.58	12.21	
WEZN	610	750	53.7	46.5	9.2	16.0	0.0678	16.0	239.7	3.25	12.63	- 25%
WIOD	610	1273	0.5	42.8	3.6	7.8	0.0313	3.6	481.7	3.01		
CKTB	610	642	186.9	51.4	11.2	19.0	0.0768	11.2	122.7	1.88		
WSJS	600	135	11.9	47.9	46.6	60.3	0.3702	46.6	239.6	1.77		
WSNR-CP	620	630	233.1	50.5	11.4	19.3	0.0810	11.4	133.9	0.22		
WSNR-Prop	620	649	235.0	50.5	11.0	18.8	0.0776	18.8	133.3	0.21		

To WTVN 610 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
WIP	610	671	272.6	51.2	10.6	18.1	0.0722	18.1	609.6	8.80	8.80	
KCSP	610	1005	80.7	50.3	5.9	11.1	0.0386	5.9	685.4	5.29	10.27	- 50%
WTFX	610	415	281.9	50.8	18.2	29.0	0.1427	18.2	169.8	4.85	11.36	
WVBEa	610	383	319.2	49.8	19.7	31.1	0.1597	31.1	107.3	3.43	11.86	
WEZN	610	790	25.0	47.7	8.5	15.1	0.0614	15.1	275.4	3.38	12.33	- 25%
WRJZ	620	438	9.7	49.0	17.2	27.6	0.1370	17.2	1023.4	2.80		
WIOD	610	1581	351.2	44.1	1.6	5.0	0.0211	1.6	492.8	2.08		
WFNZ	610	541	340.8	48.7	13.7	22.6	0.1044	22.6	91.1	1.90		
WSNR-CP	620	739	264.4	51.7	9.3	16.2	0.0609	9.3	61.0	0.07		
WSNR-Prop	620	764	265.1	51.7	8.9	15.6	0.0578	8.9	96.1	0.11		

To KIPA 620 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
KIPAb	620	89	155.3	19.6	57.9	69.3	0.4706	57.9	510.2	48.02	48.02	
KIPAA	620	113	213.5	19.7	51.7	64.5	0.4450	51.7	367.9	32.74	58.12	-50&25%
KPOJ	620	4227	237.0	36.0	0.0	0.0	0.0043	0.0	1007.5	0.87		
KTAR	620	4604	260.8	32.0	0.0	0.0	0.0043	0.0	954.4	0.81		
KIGS	620	4010	251.2	32.2	0.0	0.0	0.0056	0.0	472.3	0.53		
WSNR-CP	620	7926	279.3	43.6	0.0	0.0	0.0006	0.0	78.6	0.01		
WSNR-Prop	620	7952	279.5	43.7	0.0	0.0	0.0006	0.0	100.3	0.01		



# Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

## Skywave Interference Protection

To KIPAA 620 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
KIPAb	620	100	82.6	20.1	55.0	67.1	0.4586	55.0	550.8	50.53	50.53	
KIPA	620	113	33.3	19.7	51.7	64.5	0.4450	51.7	377.4	33.59	60.68	-50&25%
KPOJ	620	4115	237.1	36.4	0.0	0.0	0.0045	0.0	1007.3	0.90		
KTAR	620	4504	261.5	32.5	0.0	0.0	0.0044	0.0	956.6	0.84		
KIGS	620	3905	251.8	32.6	0.0	0.0	0.0058	0.0	471.7	0.54		
WSNR-CP	620	7820	279.7	44.0	0.0	0.0	0.0006	0.0	79.5	0.01		
WSNR-Prop	620	7846	279.9	44.1	0.0	0.0	0.0006	0.0	101.5	0.01		

To KMNS 620 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
WTMJ	620	688	269.7	53.0	10.3	17.6	0.0655	10.3	437.1	5.72	5.72	
WRJZ	620	1296	307.0	49.9	3.4	7.5	0.0249	3.4	953.4	4.75	7.44	
KMKI	620	1015	0.4	47.8	5.8	11.0	0.0410	5.8	488.6	4.01	8.45	-50&25%
KTAR	620	1680	49.4	47.1	1.1	4.3	0.0172	1.1	608.6	2.09		
WTMT	620	1015	299.7	51.0	5.8	11.0	0.0369	5.8	279.3	2.06		
KCSP	610	407	338.4	50.7	18.6	29.5	0.1464	18.6	637.9	1.87		
WSNR-CP	620	1841	282.6	53.1	0.3	3.2	0.0103	0.3	88.6	0.18		
WSNR-Prop	620	1866	282.7	53.1	0.2	3.1	0.0100	0.2	114.2	0.23		

To KPOJ 620 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
KONA	610	284	254.1	52.0	26.3	39.5	0.2140	26.3	867.5	3.71	3.71	
KFXD	630	538	295.4	51.0	13.8	22.7	0.1004	13.8	1010.9	2.03	4.23	- 50%
KRTA	610	338	2.7	49.9	22.3	34.5	0.1840	22.3	448.6	1.65	4.54	
KMKI	620	2598	309.1	48.5	0.0	0.0	0.0067	0.0	1124.2	1.51	4.79	
KWAL	620	553	247.6	53.0	13.3	22.1	0.0913	13.3	66.8	1.22	4.94	- 25%
KTAR	620	1605	328.9	46.7	1.5	4.8	0.0190	1.5	283.4	1.08		
KCIS	630	272	186.7	52.6	27.3	40.7	0.2212	27.3	201.2	0.89		
KIPAb	620	4187	39.3	36.3	0.0	0.0	0.0043	0.0	963.5	0.83		
WSNR-CP	620	3887	294.0	55.5	0.0	0.0	0.0012	0.0	133.0	0.03		
WSNR-Prop	620	3911	294.1	55.5	0.0	0.0	0.0012	0.0	175.0	0.04		

To KIPAb 620 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
KIPAA	620	100	262.9	20.1	55.0	67.1	0.4586	55.0	336.2	30.84	30.84	
KIPA	620	89	335.4	19.6	57.9	69.3	0.4706	57.9	321.2	30.23	43.18	-50&25%
KPOJ	620	4187	238.2	36.3	0.0	0.0	0.0043	0.0	1005.9	0.87		
KTAR	620	4597	262.0	32.4	0.0	0.0	0.0042	0.0	958.2	0.81		
KIGS	620	3993	252.5	32.5	0.0	0.0	0.0055	0.0	471.0	0.52		
WSNR-CP	620	7906	280.1	44.1	0.0	0.0	0.0006	0.0	80.8	0.01		
WSNR-Prop	620	7932	280.3	44.1	0.0	0.0	0.0006	0.0	103.2	0.01		





# Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

## Skywave Interference Protection

To KMKI 620 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
XENK	620	1563	8.8	36.2	1.7	5.2	0.0261	1.7	621.0	3.24	3.24	
WRJZ	620	1201	259.0	45.4	4.1	8.5	0.0328	4.1	292.6	1.92	3.77	- 50%
WTMT	620	1128	243.3	46.4	4.7	9.4	0.0356	9.4	257.1	1.83	4.19	
KMNS	620	1015	180.5	47.8	5.8	11.0	0.0410	5.8	202.5	1.66	4.51	
JBC	620	2542	315.5	36.8	0.0	0.0	0.0111	0.0	692.0	1.54	4.76	
WJDX	620	601	280.9	43.2	12.1	20.3	0.0959	12.1	77.8	1.49	4.99	
KTAR	620	1435	86.8	42.7	2.5	6.2	0.0257	2.5	288.5	1.48	5.20	
WDAE	620	1461	297.5	41.4	2.3	6.0	0.0254	2.3	275.3	1.40	5.39	
KJSL	630	836	225.7	46.3	7.9	14.1	0.0578	7.9	1201.9	1.39	5.57	- 25%
KCSP	610	661	195.6	46.2	10.8	18.4	0.0819	10.8	672.6	1.10		
KWAL	620	2275	127.2	49.6	0.0	0.9	0.0083	0.0	520.1	0.87		
XEKX	620	1739	332.7	36.9	0.8	3.9	0.0214	0.8	201.3	0.86		
WSNR-CP	620	2136	253.8	48.5	0.0	1.6	0.0101	0.0	52.8	0.11		
WSNR-Prop	620	2160	254.3	48.5	0.0	1.4	0.0099	1.4	80.0	0.16		

To KIGS 620 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
KTAR	620	759	296.8	42.3	9.0	15.8	0.0697	9.0	745.4	10.40	10.40	- 50%
KPOJ	620	1042	165.0	47.2	5.5	10.6	0.0398	5.5	536.8	4.27	11.24	- 25%
KFRC	610	295	124.1	43.6	25.3	38.3	0.2173	25.3	541.4	2.35		
KPTT	630	362	176.0	44.6	20.9	32.6	0.1770	20.9	385.5	1.36		
KMKI	620	2125	285.8	43.9	0.0	1.6	0.0123	0.0	513.3	1.27		
WSNR-CP	620	3919	277.7	50.6	0.0	0.0	0.0022	0.0	74.6	0.03		
WSNR-Prop	620	3944	277.9	50.7	0.0	0.0	0.0021	0.0	95.7	0.04		

To KTAR 620 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
XENK	620	2025	323.4	35.6	0.0	2.2	0.0173	0.0	621.4	2.15	2.15	
KHOW	630	954	223.6	45.2	6.4	11.9	0.0479	6.4	1307.8	1.25	2.48	- 50%
KMKI	620	1435	275.3	42.7	2.5	6.2	0.0257	6.2	229.2	1.18	2.75	
KAVL	610	585	101.8	41.6	12.5	20.9	0.1000	12.5	538.2	1.08	2.95	
KPOJ	620	1605	142.2	46.7	1.5	4.8	0.0190	1.5	275.2	1.05	3.13	
KMNS	620	1680	239.1	47.1	1.1	4.3	0.0172	1.1	302.6	1.04	3.30	
KWAL	620	1595	166.4	48.1	1.6	4.9	0.0183	4.9	237.0	0.87	3.41	- 25%
KIPAb	620	4597	61.4	32.4	0.0	0.0	0.0042	0.0	963.5	0.81		
KFXD	630	1177	160.0	46.1	4.3	8.8	0.0334	4.3	1118.4	0.75		
JBC	620	3831	303.5	37.1	0.0	0.0	0.0050	0.0	692.0	0.69		
WSNR-CP	620	3408	268.4	48.9	0.0	0.0	0.0035	0.0	65.1	0.05		
WSNR-Prop	620	3433	268.6	48.9	0.0	0.0	0.0035	0.0	96.2	0.07		

To KGTL 620 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
KPOJ	620	2490	319.9	56.7	0.0	0.0	0.0035	0.0	1013.2	0.70	0.70	
KIAM	630	549	195.1	61.6	13.4	22.3	0.0632	13.4	516.0	0.65	0.96	
KIPAb	620	4455	3.4	39.7	0.0	0.0	0.0032	0.0	963.5	0.61	1.14	- 50%
KIPAA	620	4437	2.7	39.8	0.0	0.0	0.0032	0.0	680.1	0.43	1.22	
KIPA	620	4534	3.1	39.4	0.0	0.0	0.0031	0.0	637.3	0.40	1.28	- 25%
KWAL	620	2666	313.7	58.8	0.0	0.0	0.0021	0.0	518.4	0.22		
KJNO	630	991	286.0	60.5	6.0	11.3	0.0203	6.0	293.9	0.12		
KMKI	620	4933	323.7	56.5	0.0	0.0	0.0005	0.0	1133.5	0.11		
WSNR-CP	620	5510	319.7	65.3	0.0	0.0	0.0001	0.0	135.6	0.00		
WSNR-Prop	620	5530	319.8	65.4	0.0	0.0	0.0001	0.0	80.2	0.00		



# Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

## Skywave Interference Protection

To KWAL 620 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
KPOJ	620	553	62.9	53.0	13.3	22.1	0.0913	13.3	278.0	5.08	5.08	- 50%
KMKI	620	2275	319.9	49.6	0.0	0.9	0.0083	0.0	1153.0	1.92	5.43	
KTAR	620	1595	349.0	48.1	1.6	4.9	0.0183	1.6	506.5	1.85	5.73	
KFXD	630	445	3.1	52.6	16.9	27.2	0.1254	16.9	583.2	1.46	5.92	- 25%
KIGS	620	1277	12.2	48.8	3.6	7.7	0.0268	3.6	155.2	0.83		
KMNS	620	1636	297.1	54.0	1.3	4.6	0.0123	1.3	306.5	0.76		
WRJZ	620	2932	305.9	52.6	0.0	0.0	0.0037	0.0	969.7	0.72		
WSNR-CP	620	3361	296.9	56.3	0.0	0.0	0.0016	0.0	142.9	0.05		
WSNR-Prop	620	3386	297.0	56.3	0.0	0.0	0.0016	0.0	183.4	0.06		

To WDNC 620 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
WRJZ	620	438	87.9	47.2	17.2	27.6	0.1398	17.2	419.8	11.74	11.74	- 50%
WDAE	620	969	19.7	43.2	6.3	11.7	0.0481	6.3	454.3	4.37	12.53	
WHEN	620	820	197.8	50.9	8.1	14.4	0.0530	8.1	313.0	3.32	12.96	- 25%
WTMT	620	648	111.0	48.4	11.1	18.8	0.0813	11.1	195.0	3.17		
WKHB	620	477	172.0	49.4	15.7	25.5	0.1220	15.7	127.9	3.12		
WSNR-CP	620	669	218.4	49.8	10.6	18.1	0.0752	10.6	164.3	2.47		
WSNR-Prop	620	683	220.5	49.8	10.4	17.8	0.0730	10.4	179.0	2.61		
WMAL	630	368	206.4	48.9	20.5	32.1	0.1690	20.5	666.8	2.25		
JBC	620	2012	356.3	38.3	0.0	2.2	0.0159	0.0	692.0	2.21		

To WRJZ 620 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
WTMT	620	307	146.9	48.1	24.4	37.2	0.2069	24.4	81.3	3.36	3.36	
WDAE	620	910	352.9	43.0	6.9	12.7	0.0531	6.9	217.1	2.30	4.08	
WJDX	620	708	53.8	45.1	9.9	17.0	0.0751	17.0	144.2	2.17	4.62	- 50%
JBC	620	2095	344.1	38.3	0.0	1.8	0.0149	0.0	692.0	2.06	5.06	
WDNC	620	438	270.8	47.2	17.2	27.6	0.1398	27.6	67.1	1.88	5.39	
KMKI	620	1201	71.7	45.4	4.1	8.5	0.0328	4.1	256.0	1.68	5.65	
WTMJ	620	830	152.7	50.3	8.0	14.2	0.0530	8.0	153.8	1.63	5.88	
WKHB	620	599	218.4	49.3	12.2	20.4	0.0895	12.2	87.0	1.56	6.08	- 25%
XENK	620	2374	35.7	38.4	0.0	0.4	0.0119	0.0	621.4	1.47		
KMNS	620	1296	119.0	49.9	3.4	7.5	0.0249	7.5	232.6	1.16		
WMAL	630	679	242.4	48.8	10.4	17.8	0.0753	10.4	745.7	1.12		
WSNR-CP	620	987	239.9	49.8	6.1	11.4	0.0404	6.1	95.3	0.77		
WSNR-Prop	620	1007	241.0	49.8	5.9	11.1	0.0391	11.1	100.5	0.79		



# Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

## Skywave Interference Protection

To WTMJ 620 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
CFCO	630	476	277.0	53.5	15.8	25.6	0.1114	15.8	618.0	1.38	1.38	
JBC	620	2923	342.4	41.6	0.0	0.0	0.0071	0.0	692.0	0.99	1.69	
XENK	620	2793	19.3	41.4	0.0	0.0	0.0078	0.0	621.4	0.97	1.95	- 50%
KTAR	620	2321	56.8	48.2	0.0	0.6	0.0087	0.0	540.0	0.94	2.17	
KCSP	610	690	51.0	51.3	10.2	17.6	0.0689	10.2	674.5	0.93	2.36	
KJSL	630	481	20.4	51.3	15.6	25.3	0.1164	15.6	359.5	0.84	2.50	
WRJZ	620	830	335.4	50.3	8.0	14.2	0.0530	8.0	75.5	0.80	2.63	
WDAE	620	1721	344.8	46.3	0.9	4.0	0.0169	0.9	222.8	0.76	2.73	
WJDX	620	1163	8.6	48.2	4.4	9.0	0.0322	4.4	115.0	0.74	2.83	
WZON	620	1562	268.1	55.5	1.7	5.2	0.0121	1.7	304.5	0.74	2.93	- 25%
WVMT	620	1210	265.5	55.1	4.1	8.4	0.0213	4.1	161.1	0.68		
WLAP	630	595	330.1	51.3	12.3	20.6	0.0864	12.3	384.3	0.66		
WTMT	620	527	338.5	51.3	14.1	23.2	0.1025	14.1	28.3	0.58		
WSNR-CP	620	1155	284.8	53.2	4.5	9.1	0.0263	4.5	94.3	0.50		
WSNR-Prop	620	1181	284.9	53.2	4.3	8.8	0.0252	4.3	123.0	0.62		

To WTMT 620 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
WRJZ	620	307	328.0	48.1	24.4	37.2	0.2069	24.4	152.3	6.30	6.30	
WTMJ	620	527	157.0	51.3	14.1	23.2	0.1025	14.1	187.0	3.83	7.38	-50&25%
WKHB	620	561	248.9	50.4	13.1	21.8	0.0960	13.1	94.9	1.82		
WDNC	620	648	295.0	48.4	11.1	18.8	0.0813	11.1	108.8	1.77		
KMKI	620	1128	56.9	46.4	4.7	9.4	0.0356	4.7	240.6	1.72		
WSNR-CP	620	1013	257.6	51.0	5.8	11.0	0.0371	5.8	55.8	0.41		
WSNR-Prop	620	1037	258.3	51.0	5.6	10.6	0.0356	5.6	89.8	0.64		

To WDAE 620 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
JBC	620	1215	335.8	34.2	4.0	8.4	0.0407	4.0	690.0	5.61	5.61	- 50%
XENK	620	1925	57.5	34.4	0.0	2.7	0.0195	0.0	621.4	2.42	6.11	
WIOD	610	330	313.6	38.1	22.8	35.1	0.1989	22.8	551.6	2.19	6.49	
XEKX	620	1078	29.9	34.7	5.2	10.1	0.0480	5.2	200.2	1.92	6.77	
ABS	620	2439	302.9	34.3	0.0	0.0	0.0130	0.0	692.0	1.80	7.01	- 25%
KMKI	620	1461	110.4	41.4	2.3	6.0	0.0254	2.3	268.0	1.36		
WTMT	620	1196	165.1	44.1	4.2	8.6	0.0339	4.2	172.1	1.17		
KMNS	620	2040	137.7	46.0	0.0	2.1	0.0124	0.0	438.4	1.09		
WSNR-CP	620	1627	210.1	45.7	1.4	4.7	0.0191	1.4	132.1	0.51		
WSNR-Prop	620	1636	211.2	45.7	1.3	4.6	0.0189	1.3	234.3	0.89		



# Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

## Skywave Interference Protection

To WZON 620 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
WRJZ	620	1605	47.6	52.0	1.5	4.8	0.0148	1.5	408.4	1.21	1.21	
WTMJ	620	1562	74.7	55.5	1.7	5.2	0.0121	1.7	472.4	1.14	1.66	
WDAE	620	2247	29.3	47.9	0.0	1.0	0.0094	0.0	590.8	1.11	2.00	
CHLT	630	248	101.2	56.6	29.6	43.4	0.2189	43.4	252.7	1.11	2.29	- 50%
WSNR-CP	620	633	43.8	54.4	11.4	19.3	0.0705	11.4	74.6	1.05	2.52	
WSNR-Prop	620	619	42.0	54.3	11.7	19.7	0.0732	11.7	66.7	0.98		
WVMT	620	352	83.1	56.2	21.4	33.4	0.1508	21.4	34.8	1.05	2.73	
CFCY	630	463	252.1	57.1	16.2	26.3	0.1003	26.3	492.8	0.99	2.90	
WPRO	630	397	30.3	54.8	19.0	30.2	0.1362	30.2	357.6	0.97	3.06	
WHEN	620	623	69.4	55.5	11.6	19.6	0.0686	11.6	69.2	0.95	3.20	
CFRP	620	424	176.8	58.2	17.8	28.4	0.1069	17.8	39.6	0.85	3.31	
JBC	620	3094	13.4	42.9	0.0	0.0	0.0061	0.0	692.0	0.84	3.42	- 25%
ABS	620	3145	349.5	42.5	0.0	0.0	0.0060	0.0	692.0	0.82		
WDNC	620	1301	38.2	52.0	3.4	7.5	0.0224	3.4	147.1	0.66		
WTMT	620	1578	57.3	53.2	1.7	5.0	0.0141	1.7	152.3	0.43		
XENK	620	3975	37.7	43.9	0.0	0.0	0.0034	0.0	621.4	0.42		
WKHB	620	1025	56.9	54.1	5.7	10.8	0.0311	5.7	60.4	0.38		

To WKHB 620 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
WRJZ	620	599	35.9	49.3	12.2	20.4	0.0895	20.4	612.4	10.96	10.96	- 50%
WDNC	620	477	352.5	49.4	15.7	25.5	0.1220	15.7	191.2	4.66	11.91	- 25%
WHEN	620	427	224.3	53.0	17.7	28.3	0.1307	28.3	107.9	2.82		
WTMJ	620	746	108.3	52.6	9.2	16.1	0.0582	9.2	240.4	2.80		
WTMT	620	561	65.1	50.4	13.1	21.8	0.0960	13.1	143.3	2.75		
WSNR-CP	620	457	263.9	52.0	16.4	26.6	0.1228	16.4	56.2	1.38		
WSNR-Prop	620	482	264.9	52.0	15.5	25.3	0.1143	25.3	98.7	2.26		

To WHEN 620 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
WRJZ	620	1026	37.3	50.8	5.7	10.8	0.0365	10.8	459.1	3.35	3.35	
WZON	620	623	254.5	55.5	11.6	19.6	0.0686	11.6	235.3	3.23	4.65	
WIP	610	370	346.3	52.9	20.4	32.0	0.1571	20.4	986.2	3.10	5.59	
WTMJ	620	968	83.4	54.2	6.3	11.7	0.0345	6.3	424.8	2.93	6.31	- 50%
WSNR-CP	620	293	329.1	53.4	25.5	38.6	0.2020	38.6	62.1	2.51	6.79	
WSNR-Prop	620	310	325.7	53.4	24.2	36.9	0.1902	24.2	57.6	2.19		
WMAL	630	460	9.7	52.4	16.3	26.4	0.1202	16.3	836.3	2.01	7.08	- 25%
WDNC	620	820	16.0	50.9	8.1	14.4	0.0530	8.1	161.1	1.71		
WPRO	630	425	291.8	53.9	17.7	28.4	0.1281	24.4	562.9	1.44		
WDAE	620	1787	17.1	46.8	0.6	3.6	0.0155	0.6	419.6	1.30		
WSNG	610	297	301.0	53.9	25.2	38.1	0.1967	25.2	322.5	1.27		
WKHB	620	427	41.9	53.0	17.7	28.3	0.1307	17.7	48.0	1.26		



# Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

## Skywave Interference Protection

To WVMT 620 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
WZON	620	352	266.2	56.2	21.4	33.4	0.1508	21.4	257.2	7.76	7.76	- 50%
WHEN	620	287	55.0	55.3	26.0	39.1	0.1967	26.0	90.9	3.57	8.54	
WPRO	630	343	334.0	54.6	22.0	34.1	0.1639	22.0	1037.8	3.40	9.19	
WSNR-CP	620	420	12.2	54.1	18.0	28.7	0.1293	18.0	100.2	2.59	9.55	- 25%
WSNR-Prop	620	419	8.9	54.1	18.0	28.7	0.1296	28.7	80.3	2.08		
WTMJ	620	1210	75.3	55.1	4.1	8.4	0.0213	4.1	468.1	1.99		
CHLT	630	137	231.7	56.4	46.2	59.9	0.3343	55.6	264.7	1.77		
WRJZ	620	1307	40.1	51.7	3.3	7.4	0.0226	7.4	370.3	1.67		
WDAE	620	2030	21.7	47.6	0.0	2.1	0.0117	0.0	484.3	1.13		
WSNG	610	309	357.5	54.6	24.3	37.0	0.1849	24.3	250.7	0.93		

To WJDX 620 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
WRJZ	620	708	237.3	45.1	9.9	17.0	0.0751	17.0	336.8	5.06	5.06	
KMKI	620	601	97.4	43.2	12.1	20.3	0.0959	12.1	220.2	4.22	6.59	
WTMT	620	775	213.0	46.1	8.8	15.4	0.0649	8.8	294.2	3.82	7.62	- 50%
WDAE	620	886	306.3	41.1	7.2	13.1	0.0561	7.2	301.7	3.39	8.34	
KMNS	620	1240	151.6	47.7	3.8	8.1	0.0292	3.8	508.2	2.97	8.85	
XENK	620	1697	29.7	36.2	1.0	4.2	0.0229	1.0	621.3	2.84	9.30	- 25%
JBC	620	2041	324.1	36.4	0.0	2.1	0.0166	0.0	692.0	2.30		
WTMJ	620	1163	189.9	48.2	4.4	9.0	0.0322	4.4	309.9	1.99		
KJSL	630	699	180.6	46.1	10.1	17.3	0.0756	10.1	1234.4	1.87		
WSNR-CP	620	1695	241.3	48.0	1.0	4.2	0.0164	1.0	87.1	0.29		
WSNR-Prop	620	1715	242.0	48.0	0.9	4.1	0.0160	4.1	91.2	0.29		

To CFRP 620 kHz

From	Freq	Dist	Bear	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
WZON	620	424	357.0	23.3	23.3	0.1386	23.3	911.5	25.27	25.27	
WVMT	620	555	33.2	17.8	17.8	0.1172	17.8	584.7	13.71	28.75	- 50%
WHEN	620	825	39.2	11.2	11.2	0.0834	11.2	201.2	3.35		
WTMJ	620	1610	59.3	3.2	3.2	0.0211	3.2	442.6	1.87		
WRJZ	620	1850	36.0	1.7	1.7	0.0134	1.7	463.0	1.24		
WSNR-CP	620	960	23.8	9.1	9.1	0.0683	9.1	64.9	0.89		
WSNR-Prop	620	954	22.5	9.2	9.2	0.0690	9.2	93.7	1.29		

To JBC 620 kHz

From	Freq	Dist	Bear	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
CMDA	620	632	145.7	15.4	15.4	0.1073	15.4	1606.7	34.49	34.49	- 50%
WDAE	620	1215	153.8	6.2	6.2	0.0448	6.2	919.8	8.24		
HISD	620	808	267.1	11.5	11.5	0.0854	11.5	475.0	8.12		
CMKF	620	405	223.1	24.4	24.4	0.1423	24.4	255.1	7.26		
WSNR-CP	620	2561	187.8	0.0	0.0	0.0053	0.0	504.9	0.54		
WSNR-Prop	620	2560	188.6	0.0	0.0	0.0053	0.0	643.8	0.69		

To ABS 620 kHz

From	Freq	Dist	Bear	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
JBC	620	1670	90.8	2.8	2.8	0.0187	2.8	691.0	2.58	2.58	- 50%
HISD	620	870	98.7	10.4	10.4	0.0783	10.4	477.6	7.48	7.48	- 50%
CMDA	620	2088	103.8	0.5	0.5	0.0092	0.5	1694.9	3.12		
CMKF	620	1433	103.6	4.4	4.4	0.0300	4.4	285.1	1.71		
WSNR-CP	620	2895	151.8	0.0	0.0	0.0039	0.0	1564.4	1.22		
WSNR-Prop	620	2880	152.4	0.0	0.0	0.0040	0.0	2897.8	2.30		



# Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

## Skywave Interference Protection

To XEKK 620 kHz

From	Freq	Dist	Bear	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
CMDA	620	818	245.9	11.3	11.3	0.0843	11.3	1646.9	27.76	27.76	- 50%
WDAE	620	1078	212.1	7.6	7.6	0.0568	7.6	1002.4	11.38		
JBC	620	1118	280.7	7.2	7.2	0.0531	7.2	685.5	7.28		
HRLP_17	620	451	359.7	22.0	22.0	0.1334	22.0	256.8	6.85		
WSNR-CP	620	2700	212.9	0.0	0.0	0.0046	0.0	145.6	0.14		
WSNR-Prop	620	2711	213.5	0.0	0.0	0.0046	0.0	220.0	0.20		

To XENK 620 kHz

From	Freq	Dist	Bear	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
XEKK	620	1157	270.8	6.8	6.8	0.0496	6.8	199.5	1.98	1.98	
KTAR	620	2025	137.5	0.8	0.8	0.0100	0.8	958.2	1.92	2.76	
WJDX	620	1697	213.6	2.6	2.6	0.0177	2.6	482.5	1.70	3.24	
KMKI	620	1563	189.9	3.5	3.5	0.0232	3.5	359.2	1.67	3.65	- 50%
WDAE	620	1925	244.1	1.3	1.3	0.0118	1.3	686.0	1.62		
JBC	620	2271	277.3	0.0	0.0	0.0073	0.0	692.0	1.01		
WRJZ	620	2374	222.9	0.0	0.0	0.0066	0.0	563.0	0.74		
WSNR-CP	620	3348	231.9	0.0	0.0	0.0028	0.0	143.9	0.08		
WSNR-Prop	620	3366	232.4	0.0	0.0	0.0028	0.0	139.9	0.08		

To KCIS 630 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
KFXD	630	661	318.8	52.3	10.8	18.4	0.0714	10.8	526.0	7.52	7.52	- 50%
KPOJ	620	272	6.4	52.6	27.3	40.7	0.2212	27.3	556.6	2.46	7.91	- 25%
KHOW	630	1634	308.4	51.8	1.3	4.6	0.0144	1.3	492.5	1.42		
KFI	640	1591	348.7	47.4	1.6	4.9	0.0188	1.6	2647.7	1.00		
KJNO	630	1421	139.7	57.9	2.6	6.3	0.0116	2.6	295.6	0.69		
WSNR-CP	620	3817	298.2	56.7	0.0	0.0	0.0011	0.0	146.7	0.00		
WSNR-Prop	620	3842	298.2	56.8	0.0	0.0	0.0010	0.0	185.4	0.00		

To KIDD 630 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
KPTT	630	363	208.7	44.6	20.8	32.5	0.1763	20.8	384.7	13.56	13.56	- 50%
KFI	640	464	313.4	42.0	16.2	26.2	0.1334	16.2	2285.3	6.09	14.87	- 25%
KHOW	630	1514	261.7	46.3	2.0	5.6	0.0215	2.0	584.1	2.51		
KSLR	630	2337	296.1	42.0	0.0	0.6	0.0109	0.0	860.7	1.87		
KIGS	620	204	282.1	43.0	34.8	49.1	0.2929	34.8	294.5	1.72		
WSNR-CP	620	4090	279.4	50.9	0.0	0.0	0.0019	0.0	78.7	0.00		
WSNR-Prop	620	4115	279.6	51.0	0.0	0.0	0.0019	0.0	100.4	0.00		

To KFXD 630 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
KHOW	630	1028	296.7	49.9	5.7	10.8	0.0376	5.7	582.2	4.38	4.38	- 50%
KFI	640	1081	7.3	45.8	5.1	10.0	0.0388	5.1	2612.8	2.03	4.83	
KCIS	630	661	134.7	52.3	10.8	18.4	0.0714	10.8	129.5	1.85	5.17	
KPTT	630	527	32.6	48.4	14.1	23.2	0.1088	14.1	75.2	1.64	5.42	- 25%
KTKK	630	480	312.3	49.6	15.6	25.4	0.1208	15.6	50.9	1.23		
CFCO	630	2756	284.4	53.8	0.0	0.0	0.0038	0.0	907.0	0.69		
KPOJ	620	538	111.0	51.0	13.8	22.7	0.1004	13.8	300.5	0.60		
WSNR-CP	620	3435	289.1	54.2	0.0	0.0	0.0021	0.0	113.9	0.00		
WSNR-Prop	620	3461	289.3	54.2	0.0	0.0	0.0020	0.0	151.6	0.01		



# Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

## Skywave Interference Protection

To KHOW 630 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
KFI	640	1342	56.2	45.0	3.1	7.1	0.0274	3.1	2637.1	1.45	1.45	
KPTT	630	1276	83.5	47.8	3.6	7.7	0.0277	3.6	237.9	1.32	1.96	
KJSL	630	1279	280.8	49.4	3.5	7.7	0.0261	3.5	210.6	1.10	2.25	- 50%
CFCO	630	1909	269.5	51.9	0.0	2.8	0.0104	0.0	443.8	0.93	2.43	
KTKK	630	601	96.0	48.8	12.1	20.3	0.0902	12.1	51.2	0.92	2.60	
KMKI	620	1052	317.2	46.2	5.4	10.4	0.0402	5.4	1143.3	0.92	2.76	
KFXD	630	1028	109.1	49.9	5.7	10.8	0.0376	5.7	103.4	0.78	2.86	
WDGYa	630	1150	245.0	52.2	4.5	9.1	0.0279	4.5	131.1	0.73	2.96	- 25%
WBMQ	630	2311	298.9	47.0	0.0	0.7	0.0093	0.7	392.5	0.73		
KSLR	630	1309	333.6	44.2	3.3	7.4	0.0291	3.3	124.6	0.73		
KCIS	630	1634	116.3	51.8	1.3	4.6	0.0144	1.3	250.9	0.73		
WSNR-CP	620	2578	277.8	52.0	0.0	0.0	0.0053	0.0	74.9	0.01		
WSNR-Prop	620	2604	278.0	52.0	0.0	0.0	0.0052	0.0	96.0	0.01		

To KIAM 630 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
KJNO	630	1031	317.6	63.0	5.6	10.7	0.0187	5.6	294.2	1.10	1.10	
KGTL	620	549	12.8	61.6	13.4	22.3	0.0632	13.4	656.7	0.83	1.38	- 50%
KYUK	640	770	52.3	61.2	8.8	15.5	0.0340	8.8	879.3	0.60	1.50	- 25%
KCIS	630	2452	328.7	60.3	0.0	0.0	0.0021	0.0	601.0	0.26		
CJET	630	4839	323.2	68.7	0.0	0.0	0.0002	0.0	1700.9	0.08		
CFCO	630	4764	324.4	66.1	0.0	0.0	0.0002	0.0	1457.7	0.07		
WSNR-CP	620	5278	325.7	67.4	0.0	0.0	0.0002	0.0	107.3	0.00		
WSNR-Prop	620	5295	325.7	67.5	0.0	0.0	0.0002	0.0	78.5	0.00		

To KTKK 630 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
KFXD	630	480	129.3	49.6	15.6	25.4	0.1208	25.4	266.8	6.44	6.44	
KHOW	630	601	280.6	48.8	12.1	20.3	0.0902	12.1	328.3	5.92	8.75	- 50%
KPTT	630	684	77.0	47.4	10.3	17.7	0.0764	10.3	201.8	3.08	9.28	
KFI	640	929	33.6	44.8	6.7	12.3	0.0503	6.7	2585.1	2.60	9.64	- 25%
KCIS	630	1137	130.6	51.4	4.6	9.3	0.0297	4.6	162.1	0.96		
KSLR	630	1761	318.5	44.3	0.7	3.8	0.0173	3.8	257.2	0.89		
KTAR	620	802	0.5	45.0	8.4	14.8	0.0627	8.4	594.2	0.74		
WSNR-CP	620	3140	282.2	52.6	0.0	0.0	0.0031	0.0	87.3	0.01		
WSNR-Prop	620	3166	282.4	52.6	0.0	0.0	0.0031	0.0	112.5	0.01		

To KJSL 630 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
WRJZ	620	630	300.1	48.2	11.5	19.4	0.0851	11.5	958.5	1.63	1.63	
WOI	640	478	139.4	50.8	15.7	25.5	0.1190	15.7	397.3	0.95	1.89	- 50%
WTMT	620	386	277.2	49.3	19.6	30.9	0.1593	19.6	288.6	0.92	2.10	
WCRV	640	409	357.4	47.4	18.4	29.3	0.1516	18.4	275.4	0.83	2.26	
CFCO	630	777	241.0	51.4	8.7	15.3	0.0569	8.7	68.9	0.78	2.39	
WBMQ	630	1104	314.2	46.4	4.9	9.7	0.0369	4.9	104.1	0.77	2.51	
WUNO	630	3229	319.2	40.5	0.0	0.0	0.0060	0.0	612.7	0.74	2.62	
CFCY	630	2349	258.7	54.6	0.0	0.5	0.0052	0.0	677.8	0.70	2.71	
WDGYa	630	731	162.3	52.3	9.5	16.4	0.0609	16.4	57.4	0.70	2.80	- 25%
KSLR	630	1254	33.8	44.4	3.7	8.0	0.0312	3.7	108.7	0.68		
WMAL	630	1123	272.1	50.1	4.8	9.5	0.0320	4.8	104.7	0.67		
CFBK	630	1162	234.5	53.1	4.4	9.0	0.0261	9.0	127.1	0.66		
WSNR-CP	620	1368	265.0	51.1	2.9	6.8	0.0213	2.9	63.4	0.03		
WSNR-Prop	620	1393	265.4	51.1	2.8	6.6	0.0206	2.8	97.7	0.04		



# Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

## Skywave Interference Protection

To KPTT 630 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
KFI	640	654	346.1	43.5	10.9	18.6	0.0853	10.9	2479.2	4.23	4.23	- 50%
KSLR	630	2273	305.2	43.5	0.0	0.9	0.0110	0.0	615.5	1.35	4.44	- 25%
KIDD	630	363	27.5	44.6	20.8	32.5	0.1763	20.8	28.0	0.99		
KCIS	630	939	167.8	50.0	6.6	12.2	0.0437	6.6	89.1	0.78		
KHOW	630	1276	273.1	47.8	3.6	7.7	0.0277	3.6	133.0	0.74		
WSNR-CP	620	3822	283.2	52.3	0.0	0.0	0.0019	0.0	90.6	0.00		
WSNR-Prop	620	3848	283.3	52.4	0.0	0.0	0.0019	0.0	117.3	0.00		

To KSLR 630 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
KJSL	630	1254	218.3	44.4	3.7	8.0	0.0312	3.7	1308.2	8.16	8.16	
KHOW	630	1309	149.7	44.2	3.3	7.4	0.0291	3.3	1001.4	5.83	10.03	
WBMQ	630	1656	264.7	41.7	1.2	4.5	0.0204	1.2	1415.5	5.78	11.57	-50&25%
WMAL	630	2189	247.6	45.5	0.0	1.3	0.0110	0.0	611.6	1.35		
KMKI	620	439	200.4	41.3	17.2	27.6	0.1424	27.6	428.4	1.22		
KFI	640	1939	99.0	40.7	0.0	2.6	0.0158	0.0	2651.5	0.84		
WSNR-CP	620	2488	247.1	46.6	0.0	0.0	0.0081	0.0	59.6	0.01		
WSNR-Prop	620	2510	247.6	46.6	0.0	0.0	0.0080	0.0	72.8	0.01		

To KJNO 630 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
KIAM	630	1031	124.7	63.0	5.6	10.7	0.0187	5.6	547.4	2.04	2.04	
KCIS	630	1421	329.6	57.9	2.6	6.3	0.0116	2.6	587.7	1.37	2.46	-50&25%
KGTL	620	991	91.3	60.5	6.0	11.3	0.0203	6.0	678.2	0.28		
KFXD	630	2067	329.1	56.7	0.0	1.9	0.0055	0.0	223.2	0.25		
KFI	640	2981	340.7	52.0	0.0	0.0	0.0038	0.0	2651.5	0.20		
WSNR-CP	620	4561	316.1	63.0	0.0	0.0	0.0003	0.0	148.3	0.00		
WSNR-Prop	620	4582	316.1	63.0	0.0	0.0	0.0003	0.0	104.2	0.00		

To WDGY 630 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
CFCO	630	885	292.9	54.5	7.2	13.1	0.0397	7.2	1124.2	8.93	8.93	-50&25%
KJSL	630	731	344.0	52.3	9.5	16.4	0.0609	9.5	166.2	2.02		
WLAP	630	1022	320.7	52.3	5.7	10.8	0.0344	5.7	283.6	1.95		
KHOW	630	1150	56.7	52.2	4.5	9.1	0.0279	4.5	274.7	1.53		
WSNR-CP	620	1557	293.2	54.3	1.8	5.2	0.0134	1.8	129.4	0.03		
WSNR-Prop	620	1582	293.2	54.3	1.6	5.0	0.0129	1.6	170.7	0.04		

To WLAP 630 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
WMAL	630	642	263.4	49.8	11.2	19.0	0.0799	19.0	230.7	3.69	3.69	
KJSL	630	498	95.3	49.2	15.0	24.5	0.1159	15.0	158.6	3.68	5.21	- 50%
CFCO	630	503	202.1	51.3	14.8	24.3	0.1096	14.8	103.6	2.27	5.68	- 25%
KSLR	630	1581	49.2	44.5	1.6	5.0	0.0209	1.6	307.6	1.28		
WUNO	630	2819	324.7	40.0	0.0	0.0	0.0080	0.0	681.8	1.09		
WMFD	630	721	308.3	47.4	9.7	16.7	0.0707	9.7	73.3	1.04		
WSNR-CP	620	918	254.0	50.9	6.8	12.5	0.0441	6.8	51.8	0.05		
WSNR-Prop	620	941	254.9	50.9	6.6	12.1	0.0422	12.1	83.9	0.07		





# Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

## Skywave Interference Protection

To WMAL 630 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
WPRO	630	580	240.0	51.9	12.6	21.1	0.0881	12.6	126.2	2.22	2.22	
WUNO	630	2523	337.4	40.3	0.0	0.0	0.0098	0.0	822.5	1.61	2.75	- 50%
KJSL	630	1123	84.0	50.1	4.8	9.5	0.0320	4.8	159.2	1.02	2.93	
CFBK	630	718	165.6	53.5	9.7	16.8	0.0597	16.8	85.0	1.01	3.10	
WWJZ	640	235	243.1	50.9	31.0	45.0	0.2585	31.0	192.4	0.99	3.26	
WLAP	630	642	78.9	49.8	11.2	19.0	0.0799	11.2	61.5	0.98	3.40	
WBMQ	630	848	23.3	46.8	7.7	13.8	0.0559	7.7	86.1	0.96	3.54	
WRJZ	620	679	58.3	48.8	10.4	17.8	0.0753	10.4	607.9	0.92	3.65	- 25%
WKHB	620	261	122.1	51.0	28.3	41.9	0.2354	28.3	186.1	0.88		
WHEN	620	460	190.3	52.4	16.3	26.4	0.1202	16.3	355.4	0.85		
KSLR	630	2189	55.6	45.5	0.0	1.3	0.0110	0.0	363.5	0.80		
WSNR-CP	620	314	230.4	51.3	23.9	36.6	0.1950	23.9	134.7	0.53		
WSNR-Prop	620	332	234.0	51.3	22.7	35.0	0.1838	35.0	143.1	0.53		

To WBMQ 630 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
WMAL	630	848	205.5	46.8	7.7	13.8	0.0559	7.7	708.1	7.91	7.91	- 50%
KJSL	630	1104	129.0	46.4	4.9	9.7	0.0369	4.9	344.2	2.54	8.31	
WLAP	630	742	154.1	46.2	9.3	16.2	0.0691	9.3	167.6	2.32	8.62	
WMFD	630	375	229.9	44.5	20.2	31.7	0.1705	20.2	66.0	2.25	8.91	- 25%
CFCO	630	1147	174.0	48.4	4.6	9.2	0.0328	4.6	298.9	1.96		
WUNO	630	2126	318.3	36.9	0.0	1.6	0.0152	0.0	602.0	1.83		
KSLR	630	1656	75.9	41.7	1.2	4.5	0.0204	1.2	355.7	1.45		
WSNR-CP	620	1144	213.5	47.8	4.6	9.2	0.0335	4.6	148.2	0.10		
WSNR-Prop	620	1155	214.8	47.8	4.5	9.1	0.0329	4.5	209.7	0.14		

To WPRO 630 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
WVMT	620	343	152.7	54.6	22.0	34.1	0.1639	22.0	626.2	2.05	2.05	
WUNO	630	2641	350.3	41.6	0.0	0.0	0.0087	0.0	938.0	1.63	2.62	
CFCY	630	818	235.5	55.6	8.1	14.4	0.0430	8.1	177.8	1.53	3.03	- 50%
CHLT	630	395	173.4	55.0	19.1	30.3	0.1360	19.1	53.9	1.47	3.37	
WMAL	630	580	56.2	51.9	12.6	21.1	0.0881	21.1	82.2	1.45	3.67	
WMFD	630	1017	32.9	49.5	5.8	10.9	0.0389	5.8	180.4	1.40	3.93	
CJET	630	508	130.5	54.8	14.7	24.0	0.0969	24.0	70.3	1.36	4.16	
CFCO	630	906	90.2	53.6	7.0	12.7	0.0401	7.0	165.3	1.33	4.36	
WSNR-CP	620	272	66.8	52.8	27.3	40.7	0.2199	27.3	262.5	1.15	4.51	- 25%
WSNR-Prop	620	251	63.8	52.8	29.3	43.1	0.2377	29.3	131.5	0.63		
WNNZ	640	126	110.4	53.5	48.4	61.8	0.3661	48.4	154.0	1.13		
WZON	620	397	212.0	54.8	19.0	30.2	0.1362	19.0	401.8	1.09		
WLAP	630	1188	65.9	51.5	4.2	8.7	0.0273	4.2	172.0	0.94		
CFBK	630	746	118.9	55.0	9.2	16.1	0.0522	9.2	83.4	0.87		
WBMQ	630	1379	35.8	48.4	2.8	6.7	0.0236	2.8	109.7	0.52		



# Radio Station WSNR • 620 kHz, Class B • Jersey City, New Jersey

## Skywave Interference Protection

To WUNO 630 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
ABS	620	478	288.0	29.3	15.7	25.5	0.1509	15.7	643.9	1.94	1.94	
WMAL	630	2523	152.0	40.3	0.0	0.0	0.0098	0.0	987.4	1.94	2.74	
WPRO	630	2641	167.7	41.6	0.0	0.0	0.0087	0.0	981.1	1.70	3.23	- 50%
WMFD	630	2116	143.3	38.0	0.0	1.7	0.0148	0.0	509.5	1.51	3.56	
WBMQ	630	2126	131.9	36.9	0.0	1.6	0.0152	1.6	479.9	1.46	3.85	- 25%
CFCY	630	3104	185.9	43.8	0.0	0.0	0.0058	0.0	783.1	0.91		
WLAP	630	2819	135.9	40.0	0.0	0.0	0.0080	0.0	416.9	0.67		
JBC	620	1207	85.8	29.8	4.1	8.5	0.0447	4.1	689.9	0.62		
WSNR-CP	620	2612	160.1	41.2	0.0	0.0	0.0090	0.0	1375.5	0.25		
WSNR-Prop	620	2600	160.8	41.2	0.0	0.0	0.0091	0.0	2340.4	0.42		

To WMFD 630 kHz

From	Freq	Dist	Bear	GM	Tmin	Tmax	Skywv	Thet	Rmax	Limit	RSS	
WBMQ	630	375	48.2	44.5	20.2	31.7	0.1705	31.7	304.0	10.37	10.37	
WLAP	630	721	124.5	47.4	9.7	16.7	0.0707	9.7	394.1	5.57	11.77	- 50%
WMAL	630	533	188.3	48.0	13.9	23.0	0.1079	13.9	247.5	5.34	12.92	- 25%
CFCO	630	972	155.9	49.6	6.2	11.6	0.0419	6.2	263.2	2.20		
WUNO	630	2116	328.6	38.0	0.0	1.7	0.0148	0.0	728.1	2.15		
WDNC	620	216	155.1	46.5	33.2	47.5	0.2833	33.2	346.6	1.96		
WSNR-CP	620	798	204.8	49.0	8.4	14.9	0.0586	8.4	128.5	0.15		
WSNR-Prop	620	805	206.7	49.0	8.3	14.7	0.0578	8.3	250.8	0.29		

